

**PRE-BID RESPONSE SHEET****Chapter -1**

S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
1.	Disclaimer (03)	 This RFP includes statements, which reflect various assumptions and assessments arrived at by C-DAC. Such assumptions, assessments and statements do not support to contain all the information that each Bidder/prospective MSI may require.... The information given is not an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of requirements. C-DAC accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on the facts, requirements and legal provisions expressed herein.	Since information about CDAC systems and requirements are not available in the public domain and Bidder will have to rely on the information, requirements, specifications etc. contained in the RFP to propose a solution, we request deletion of the lines highlighted in this row from the RFP Disclaimer.	As per RFP	1. HPE 2. Hewlett Packard Enterprise India Private Limited
2.	1.3 (5) / 14 (03)	Bid Security/ Earnest Money Deposit (EMD)	The amount for EMD is not mentioned in the RFP, please confirm the amount of EMD	As per RFP (Declaration towards EMD is to be submitted. Refer Annexure – 3)	1. HFCL Limited 2. Online Micro Services Pvt Ltd 3. Mahindra Defence Systems Ltd.
3.	1.3 (6) / 14 (04)	Bid must remain valid up to 180 (One Hundred & Eighty) days from the actual date of submission of the Bid.	1. Please clarify on the bid validity as 2 separate validity periods are mentioned in the RFP 2. We need clarity on bid validity as in Validity of Bids clause, the bid validity time is 120 days which is conflicting with 180 days which clarified initially at 1.3 page 14	Kindly Refer Corrigendum Refer Clause 1.3 (6) & clause 1.9.8 of page 30	1. Johnson Controls(1) 2. CNT(1) 3. Shapoorji Pallonji & Co. Pvt. Ltd.(2) 4. Larsen & Toubro Ltd(1)



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			Refer:- Page 30, Validity of Bids The Bid submitted shall remain valid for a period of 120 days from date of submission. CDAC may request for extending the validity without change in the financial Bid. A bid valid for a shorter period shall stand rejected.		
4.	1.3 (08) / 14	-----	-----	"The bank details are for depositing RFP document fee only and not EMD." Additional Clause	-----
5.	1.3 (10) / 14 (03)	Last date of sending pre-bid queries on RFP	Since this is an elaborate RFP, and needs further discussion and review, we request to please allow submission of additional pre bid queries till 10 Jan 2021.	NA	1. Hewlett Packard Enterprise India Private Limited 2. HPE
6.	1.3 (11) / 14 (15)	30th December, 2020, 1200 Hrs. (maximum 2-member representation for prospective MSI bidders with Authorization Letter)	1. It is requested to allow OEMs also to participate in the pre-bid meeting being important constituents of the project. Also it is requested to give an option for attending the pre-bid meeting Online due to prevailing pandemic conditions. 2. Keeping prevailing Covid-19 Pandemic in Mind, we suggest to hold the Pre-Bid Meeting through Video Conferencing or Video Calling App. 3. As the covid pandemic is active worldwide and travelling is very difficult and unsafe also, Therefore requesting you to please also allowed to attend pre-bid Meeting virtually. 4. Request to push this to later date to allow for discussion post submission of queries, as most of the team is on leave due to annual shutdown. 5. Request to allow Internet based online pre bid meeting in addition to the physical meet, to allow for larger and remote participation	Conducted through On-line and Video Conferencing for MSI & OEM is allowed	1. M/s Intellve Solutions Ltd. R (1) 2. Telecommunications Consultants India Limited(2) 3. TechnoSys(3) 4. HPE(4,5) 5. Hewlett Packard Enterprise India Private Limited(4,5) 6. Mistral Solutions Pvt Ltd(6) 7. Matrix Security & Surveillance Pvt Ltd(7) 8. Videonetics Technologies Pvt Ltd.(7) 9. Bodhtree(7)



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			and query discussion. Pls share the web meeting link for the same prior to meeting. 6. We request C-DAC to consider vendor / bidders / OEM's to participate over a Video Conference call also, to enable larger participation from the industry 7. We request the authorities to conduct the Pre-bid meeting online and also allow OEMs to participate. 8. Please confirm, In current situation, a virtual pre-bid meeting also be taken place, as it will be more convenient due to COVID-19.		10. Mahindra Defence Systems Ltd.(8) 11. PruTech Solutions India Pvt. Ltd.(7)
7.	1.3 (14) / 14 (04)	Last date for submission of Bids	1. Request to extend the bid submission date as 8 weeks from final corrigendum being published. 2. Since this is a large scale RFP with multiple OEMs and stake holders involved, therefore you are requested to extend the due date by another 4 weeks.	Kindly Corrigendum Refer	1. HPE(1) 2. Hewlett Packard Enterprise India Private Limited(1) 3. Marushika Technology Advisors Pvt. Ltd. (2) 4. Marushika Technology Advisors Pvt. Ltd.(2)
8.	1.5 / 20 (06)	The aim of this system is to capture all activities at the places under surveillance, generate alarms, warnings in case of any potential threat to women's safety, especially physical / sexual harassment targeting women, followed by real-time technology aided assistance to women in distress.	As we understand the detection of the potential threat to women's safety, especially physical / sexual harassment targeting women has to be detected with the help of the analytics mentioned in the scope and the C4i system. There are no other video analytics to be considered apart from the ones mentioned in the scope. Kindly confirm.	As per RFP	1. Matrix Security & Surveillance Pvt Ltd 2. Videonetics Technologies Pvt Ltd. 3. PruTech Solutions India Pvt. Ltd. 4. Tech Mahindra 5. Johnson Controls 6. Bodhtree



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9.	1.6 (j)/ 21 (03)	"JV": A JV consists of multiple members (not more than three parties) entering into a JV Agreement for a common objective of satisfying the project requirements & represented by a legal entity, designated as a "MSI" post declaration of the L1 bidder. At the stage of Bid Process, the JV can be a non-incorporated entity in the form of mutual agreement among the parties involved with the purpose of participation only.	1. JV pattern is generally accepted in Civil/Infra/construction related tender. We understand that JV means "Consortium" of bidders as all ICT, Smart City, Safe City related tenders backed by GOI or State Govt allow Consortium pattern hence request to kindly confirm the same. For Project of this stature, enormity and size pls allow Consortium of 1+3 as the said consortium pattern is accepted in majority of large ICT, Smart City/Safe City/Govt Tenders as in current Tender 1+2 JV pattern shall not be able to fulfil PQ/TQ criteria and score substantial marks in TQ. The said Consortium pattern is restrictive in nature hence request you to allow 4-member consortium to bid for this project as the system encompasses 1. DC&DR, 2. ICCC system, 3. Surveillance System, 4. Application Development & Maintenance and other systems etc. 2. Considering the huge scope and evaluation criteria, only 3 partners in JV may not suffice or deliver such huge scope and hence we request to please amend the clause as under: "JV": A JV consists of multiple members (not more than four parties) entering into a JV Agreement for a common objective of satisfying the project requirements & represented by a legal entity, designated as a "MSI" post declaration of the L1 bidder. At the stage of Bid Process, the JV can be a non-incorporated entity in the form of mutual agreement among the parties involved with the purpose of participation only.	Kindly Refer Corrigendum Refer Para 1.6 (j) and Para 1.9 page 25	1. Johnson Controls (1) 2. VaaaN Infra Pvt. Ltd.(2) 3. CNT(1)
10.	1.6 (n)/21 (01)	"Effective Date" means the date on which C-DAC issues the Letter of Intent/ Work Order to proceed subsequent to the	We understand that the effective date for commencement of project i.e. "T" shall be the date of which Work Order is issued	Kindly refer corrigendum.	1. Sterlite Technologies Limited



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		Contract is signed, and executed by the Parties hereto.	subsequent to Contract Signing activity since the time lag between Issue of Letter of Intent and Issue of Work Order is significant most of the times and might lead to squeezing of timelines further. This is important to clearly define "T" since it has implications on timelines and hence LD. Request you to confirm if the understanding above is not correct.	(T = date of signing of contract)	
11.	1.6(r) / 21 (01)	"Go-Live" means commissioning of Project after installation and commencement of all safe city components, including training as per scope of work mentioned in this RFP. MSI should have the approval from C-DAC for user acceptance testing.	We request that for the situation where Go-Live cannot be achieved due to reasons beyond the reasonable control of the MSI, a Provisional Go-Live certificate is issued for the quantum of work completed thereby commencing the Warranty and O&M phase and making the MSI eligible to be paid for the work completed. Please consider since longer the delay in achieving Go-Live, higher may be the cost of capital to be considered for free O&M period and delay in payment	As per RFP	1. Sterlite Technologies Limited
12.	a. (t)/21	"Non-Responsive" means failure to furnish complete information in a given format and manner required as per the tender documents or non-submission of tender offer in given forms/ pro forma or not following procedure(s) mentioned in this tender or any of required details or documents is missing or not clear or not submitted in the prescribed format or non- submission of RFP Document/ tender fee and/ or EMD	"Non-Responsive" means failure to furnish complete information in a given format and manner required as per the tender documents or non-submission of tender offer in given forms/ pro forma or not following procedure(s) mentioned in this tender or any of required details or documents is missing or not clear or not submitted in the prescribed format or non-submission of RFP Document/ tender fee	Kindly refer Corrigendum	-----



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13.	1.6(bb)/22 (01)	"Sub-Contractor" shall mean the entity named in the contract for any part of the work or any person to whom any part of the contract has been sublet with the consent in writing of C-DAC and the heirs, legal representatives, successors and assignees of such person.	As per our understanding Sub Contracting for few activities is allowed (1.9.23 Sub-Contracting) however details are required to be furnished post award of contract. Kindly confirm.	As per RFP	1. Samsung SDS India Pvt Ltd.
11.A	1.6.1 (iii)	-----	Interpretation of the clauses in the Tender Document / Contract Document In case of any ambiguity/ dispute in the interpretation of any of the clauses in this Tender Document, the interpretation of the clauses by Director General, C-DAC shall be final and binding on all parties.	Kindly refer corrigendum. Following Sub-Para (iii) is added to Para 1.6.1	-----
14.	1.7.3 / 24 (08)	Delhi Police Functioning Structure and administration	1. Is ICCC client instances required at C3i and C2i as well as we understand that incident management will be done centrally at C4i. C3i and C2i requirement should be met by the VMS client itself. Please advise on the requirement. 2. Please define what configurations is expected out here. For Device On boarding, User Management for Various system such VMS, ANPR and Emergency response is possible at ICCC however detailed configurations are native feature of independent application not through unified interface. Please clarify. 3. Kindly share the latitude and longitude of all 16 No. of District office(C3i) locations.	As per RFP (Clarification: ICCC login have to manage based on profile(s) and It should be available at all command and control centres. Lat and long Details already shared after signing the NDA.)	1. Honeywell(1) 2. Matrix Security & Surveillance Pvt Ltd (1) 3. Trinity Mobility(1,2) 4. Honeywell Automation India Ltd.(1) 5. Larsen & Toubro Ltd(1)



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12.A	1.8 C/ 24	No commitment of any kind, contractual or otherwise shall exist unless and until a formal written Agreement has been executed by or on behalf of C-DAC. Any notification of preferred bidder status by C-DAC shall not give rise to any enforceable rights to the Bidder. C-DAC may cancel this public procurement at any time prior to a formal written Agreement being executed by or on behalf of C-DAC.	-----	Kindly refer corrigendum.	---
15.	1.9 / 25 (06)	1.9. Eligible Bidders: Bids may be submitted by either of the following categories of Bidders only: The Bidder can be either a Sole Bidder i.e. Single Master System Integrator (MSI) or a JV of companies as described below	1. Request to permit bids as a "Consortium" in addition to Joint Venture / Single Bidder firm, with maximum of 3 members. The conditions / agreement of the Consortium can be submitted as part of the bid, and the consortium members can comply with PQ criteria as applicable. 2. As per standard industry practices, you are requested to kindly allow consortium to bid. 3. It is requested to allow bidding through Consortium arrangements as well most of the MSI organizations will not get a permission to form a JV for the purpose of bidding for a single project. 4. Formation of JV for PSU/Govt Depts is time consuming and managing the same for Tender bidding within the Tender Time frame is difficult. Therefore, we request to allow both JV & Consortium Bids and the clause may be modified as: The Sole Bidder or Joint Venture/Consortium must comply the Eligibility/Pre-Qualification	Kindly refer corrigendum Refer Para 1.9 and 1.6 (j) of corrigendum.	1. HPE(1) 2. Hewlett Packard Enterprise India Private Limited(1) 3. Presto Infosolutions Pvt. Ltd.(2) 4. Presto(2) 5. M/s Intellve Solutions Ltd. R(3) 6. Telecommunications Consultants India Limited(4)



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			criteria jointly as stipulated at Para 2.1.3 Chapter 2 of this document. In case of Joint Venture/Consortium, the Lead/ Principal Partner shall be liable for all acts and omissions. The Principal Partner shall be responsible for the successful completion of the Contract/Agreement and C-DAC shall be communicating with the Principal Partner for all necessary actions. The Principal Partner shall be held liable and responsible for any breach of any of the terms and conditions of the Contract / Agreement. The Sole Bidder or a Joint Venture/Consortium as the bidder, shall hereafter be referred as 'bidder' in this document.		
16.	1.9.1 / 25 (01)	Failure to comply with the requirements of this Clause No. 8 may render the Bid noncompliant and the Bid may be rejected. Bidders must:	Clause No. 8 is not available in the RFP document. Please specify clause No.8	Kindly refer corrigendum. Refer Para 1.9.1 (b)	1. Telecommunications Consultants India Limited
17.	1.9.7 A / 27 (05)	1.9.7 Contents of Bid..... [I: The "Technical e-Bid" documents should be uploaded in e-Packet 1. A. e-Packet No. 1 will contain: 2. A written undertaking from each of the JV members, in case of a JV, duly signed by the authorized signatory, holding a written power of attorney for this bid on a stamp paper, authorizing the JV and the authorized signatory to incur liabilities and receive instructions for and on behalf of any and all JV members, and the entire execution of the Agreement/Contract, including but not limited to the payments	1. Relevant sub clauses like point 2, 6, 8, 9, 10 and other points may be suitably modified to also allow a consortium to submit the bid, in addition of a JV / sole bidder. 2. We understand in case of ongoing large projects, self-declaration by bidder/ CA certificate mentioning CAPEX work completed can be submitted. Please confirm	Kindly refer corrigendum Please refer Para 1.6 (j) where JV is defined and Refer Appendix-I of Corrigendum document.	1. HPE(1) 2. Hewlett Packard Enterprise India Private Limited(1) 3. Honeywell Automation India Ltd.(2) 4. Honeywell(2)



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		'Annexure 11' 6. Copy of certificate of Incorporation/Registration of bidder firm under applicable Indian law. In case of JV the copy of duly executed JV agreement along with, the certificates of registration for all members are required. Global companies to...]			
18.	1.9.7A (11) / 28 (03)	11. Certificate from the Statutory Auditor/CA certifying the annual turnover of sole bidder/lead partner (In case of JV) in the areas of Supply, Implementation and Integration of City Surveillance System and/or, Data Centre infrastructure in years 2019-20, 2018-19 and 2017-18.	1. JCI has been present in India since-95 and is in the business of SI/IT/ITES/ICT in the India market and abroad and Data Center related infrastructure and services are part of these services. We have substantial revenue coming from SI/IT/ITES/ICT hence we request you to kindly allow and consider annual turnover from SI/IT/ITES/ICT as same is accepted in all ICT, Smart City, Safe City related tenders backed by GOI or State Gov. 2. Our company is in the business of ITSS / ITeS services in the India market and abroad, and Data Center related infrastructure and services are part of these services. We have substantial revenue coming from ITSS/ITeS services, therefore we request you to kindly allow and consider annual turnover from ITSS/ITeS Services as well under this. 3. We request you to kindly allow and consider annual turnover from SI/IT/ITES/ICT as same is accepted in all ICT, Smart City, Safe City related tenders backed by GOI or State Gov.	Kindly Refer Corrigendum Refer Appendix-II And Annexure-4	1. Johnson Controls (1) 2. Samsung SDS India Pvt Ltd.(2) 3. CNT(3)
19.	1.9.7A(12) / 28 (01)	Certificate from the Statutory Auditor/CA on net worth and Profitability for the FY 2019-20, 2018-19 and 2017-18 pertaining to OEM of cameras, ICCV and VMS, FRS, Video Analytics.	We understand that the respective certificates shall need to be issued by the Statutory Auditors/CA of the respective OEMs and not that of the MSI. Please confirm	Kindly Refer Corrigendum This clause has been deleted from para 1.9.7 A.	1. Sterlite Technologies Limited



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				Refer Appendix-II of Corrigendum document	
20.	1.9.7A(13) / 28 (01)	Copies of audited balance sheets OR Certificate from the Statutory Auditor/CA certifying the annual turnover of OEM of cameras, Servers, Storage, Networking & Security components, ICCV and VMS, FRS, Video Analytics for the FY 2019-20, 2018-19 and 2017-18	We understand that the respective certificates shall need to be issued by the Statutory Auditors/CA of the respective OEMs and not that of the MSI. Please confirm	Kindly Refer Corrigendum This clause has been deleted from para 1.9.7 A.(13) Refer Appendix-II	1. Sterlite Technologies Limited
21.	1.9.7A(16) / 28 (01)	The details of TAC centre/s in India with toll free number, pertaining to OEMs of camera, ICCV and VMS, FRS, Video Analytics.	it is requested to amend the clause to: "OEMs of camera, ICCV and VMS, FRS, Video Analytics should have an existing TAC Centre/s in India with Toll Free number. In case toll free number is not available currently, then the OEM should set up the Toll free line within one month from the date of award of the contract".	Kindly refer Corrigendum. This clause stands deleted.	1. M/s Intellve Solutions Ltd. R
22.	1.9.7A(18) / 28 (11)	The copies of supply orders, contracts, and agreements or completion / installation certificates in the name of bidder/s in support of eligibility criteria/ pre-qualification criteria stipulated at para no. 2.2.3 of chapter 2 of this document.	1. We understand that the eligibility criteria/ pre-qualification criteria is stipulated in RFP at para no. 2.1.3. Hence request you to amend the same in this clause. 2. Request you to amend the clause as, "18. The copies of supply orders / Work Order / LoI / contracts, and agreements or and completion/Go-live / installation certificates in the name of bidder/s in support of eligibility criteria/ pre-qualification criteria stipulated at para no. 2.1.3 of chapter 2 of this document" 3. We submit that the bidder Experience Projects which are under implementation may also be accepted as proof of experience and PO copy to be permitted as proof.	Kindly refer corrigendum. Refer Appendix-I & II of Corrigendum document.	1. Larsen & Toubro Ltd(1,2) 2. HPE(3,4) 3. Hewlett Packard Enterprise India Private Limited(3,4) 4. Johnson Controls(5) 5. Samsung SDS India Pvt Ltd.(6) 6. CNT(5)



			4. We request that in case of a bidder experience project documentation is under NDA per the client, a letter signed by the Company Secretary with project details including relevant scope, start date, end date, value in INR and completion / Go Live date, to be permitted for criteria submission. This is requested especially for Global Projects where such document as PO/Contract/Sign off are not shareable cos of NDA etc. 5. For Project of this stature, enormity, size and in interest of fair, wider participation from large , Global Players registered in India under company's act having massive investment in India below clause are requested to be accepted as said below clause of " Ongoing Projects" are already accepted/allowed in all large ICT, Smart City/Safe City/Govt Tenders hence request you to kindly add/modify said clause as (Changes requested highlighted in BOLD): Ongoing projects (which have been awarded to the bidder / JV partners) for which LOI or Agreement or Purchase order has been received, to be submitted as proof for Eligibility criteria and Technical evaluation 6. We request you to also allow ongoing projects (which have been awarded to the bidder / JV partners) for which LOI or Agreement or Purchase order has been received, to be submitted as proof for Eligibility criteria and Technical evaluation		
23.	1.9.7A (19) / 28 (05)	The copies of supply orders, contracts, and agreements or completion / installation certificates in the name/s of respective OEMs of components/subsystems, in support of	1. We request that in case of a bidder experience project documentation is under NDA per the client, a letter signed by the Company Secretary with project details including relevant scope, start date, end date,	Kindly refer corrigendum. Refer Appendix-II of Corrigendum	1. HPE(1) 2. Honeywell(2) 3. Honeywell Automation India Ltd.(2)



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		eligibility criteria/ pre-qualification criteria stipulated at para no 2.2.3 of chapter 2 of this document.	value in INR and completion / Go Live date, to be permitted for criteria submission. This is requested especially for Global Projects where such document as PO/Contract/Sign off are not shareable cos of NDA etc. 2. Request to allow for self-declaration from OEMs.		4. Hewlett Packard Enterprise India Private Limited(1)
24.	1.9.7A(20) / 28 (03)	Non-Malicious Code undertaking from OEMs of Camera and Video Analytic software, as per Annexure – 5 .	We understand that this letter / undertaking is to be submitted as on date of bid submission by the OEM.	As per RFP Annexure-5 (Refer Clause-7.5)	1. HPE 2. Hewlett Packard Enterprise India Private Limited
25.	1.9.7A(21) / 28 (03)	Certificate from Statutory Auditor/Company Secretary/ Board of Directors or Cost Accountant to the effect that for the purpose of this RFP, the bidding firm complies with the Order No P-45021/2/2017-PP (BE-II). Dated 4th June, 2020 issued by Public Procurement Division, Department of Investment and Internal Trade, Ministry of Commerce, GoI.	1. Request to amend as follows: 21. Certificate from Bidder's self-declaration/ CA/ Statutory Auditor/Company Secretary/ Board of Directors or Cost Accountant to the effect that for the purpose of this RFP, the bidding firm complies with the Order No P-45021/2/2017-PP (BE-II). Dated 4th June, 2020 issued by Public Procurement Division, Department of Investment and Internal Trade, Ministry of Commerce, GoI. 22. Certificate from the Bidder's self-declaration/ CA/ statutory auditor of the bidding firm towards compliance with the pre-qualification criteria stipulated at 2.1.3, A. 2. Noted, we presume majorly bidder has to submit OEM certificate in compliance to Order No P-45021/2/2017-PP (BE-II). Dated 4th June, 2020 issued by Public Procurement Division, Department of Investment and Internal Trade, Ministry of Commerce, GoI. Please clarify.	Kindly refer corrigendum. Refer Appendix –II of corrigendum	1. Honeywell Automation India Ltd.(1) 2. Honeywell(1) 3. Telecommunications Consultants India Limited(2)
26.	1.9.7A(22) / 28 (04)	Certificate from the statutory auditor of the bidding firm towards compliance with the pre-qualification criteria stipulated at 2.1.3, A.	Request you to kindly allow certificate from a CA also Request that Bidder's CA / CS Certificate to also be permitted for submission against 2.1.3 (A)	Kindly refer corrigendum.	1. Sterlite Technologies Limited 2. HPE



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					3. Hewlett Packard Enterprise India Private Limited
27.	1.9.7A(23) / 29 (03)	Certificates of Origin and certificate of country of manufacture pertaining to Cameras, Servers, VMS, ICCC, UPS, Batteries, IP Phones, and Hand-held devices, Video walls, Laptops, Workstations, Television, Printers, Storage, Power Meters, DG set, HVAC equipment's and networking components offered.	We request that a OEM Letterhead based declaration to also be permitted for submission against this requirement.	Kindly refer corrigendum Please refer Annexure-17	1. Hewlett Packard Enterprise India Private Limited 2. HPE
28.	1.9.7A(27) / 29 (03)	Certification from OEM of ICCC towards compliance of eligibility /Pre-qualification criteria as mentioned in para 2.1.3 of Chapter 2	We request that a OEM Letterhead based declaration to also be permitted for submission against this requirement.	Kindly refer corrigendum Refer Appendix-II of Corrigendum document	1. HPE 2. Hewlett Packard Enterprise India Private Limited
29.	1.9.7A(29) / 29 (09)	Details of service centre/Lab in India pertaining to OEM's of Cameras, servers, Storage, Display Monitors, Video Wall.	1. Kindly also include VMS OEMs in the list - it is necessary that the VMS OEMs have development center, labs and local support in India to support the implementation and customisation of such a large project. 2. Request to permit bids as a "Consortium" in addition to Joint Venture / Single Bidder firm, with maximum of 3 members. The conditions / agreement of the Consortium can be submitted as part of the bid, and the consortium members can comply with PQ criteria as applicable. 3. Details of service centre/Lab/RMA centre in India pertaining to OEM's of Cameras, servers, Storage, Display Monitors, Video Wall. Request you to add option of RMA centre also as maximum OEMs have multiple RMA centres across India for the service support.	Kindly Refer Corrigendum	1. Matrix Security & Surveillance Pvt Ltd(1) 2. HPE(2) 3. Videonetics Technologies Pvt Ltd.(1) 4. PruTech Solutions India Pvt. Ltd.(1,3) 5. Bodhtree(1,3) 6. Globalrays Technologies(3) 7. Triflex Solutions(3)



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30.	1.9.7B / 30 (01)	B. e-Packet No. 2 will contain: The Financial bid (.xls file) should be uploaded in e-packet 2. The Financial bid must be as per format given on CPP Portal.	We understand Price Bid (Excel Sheet) shall be uploaded online only and hardcopy need not to be submitted. Please confirm, if understanding is correct.	AS per RFP	1. EFKON India Pvt. Ltd
31.	1.9.8 / 30 (09)	Validity of Bids The Bid submitted shall remain valid for a period of 120 days from date of submission. C-DAC may request for extending the validity without change in the financial Bid. A bid valid for a shorter period shall stand rejected. C-DAC may ask for the bidder's consent to extend the period of validity. Such request and the response shall be made in writing only. A bidder agreeing to the request for extension will not be permitted to modify his bid.	1. Cl. 1.3(6) states that bid validity is 180 days whereas cl. 1.9.8 states that bid validity shall be 120 days. Please clarify the correct timeline. 2. As per Clause 1.3, Fact Sheet & Calendar of Events, Bid must remain valid up to 180 (One Hundred & Eighty) days from the actual date of submission of the Bid. These two statements are contradictory. Kindly confirm which one has to be considered during bid preparation. 3. As per Fact Sheet (Clause 1.3 page 12) Point - 6, Bid must remain valid up to 180 (One Hundred & Eighty) days from the actual date of submission of the Bid. Kindly confirm the period of Bid Validity 4. Please clarify the validity of bids, as somewhere it is mentioned 180 days (in date fact sheet) 5. There is a mismatch in the Bid validity mentioned in the document. Request you to confirm that the Bid must remain valid up to 180 (One Hundred & Eighty) days from the actual date of submission of the Bid. Kindly make the necessary amendments in the RFP.	Kindly Refer Corrigendum Refer Para 1.9.8 of corrigendum	1. HPE(1) 2. Hewlett Packard Enterprise India Private Limited(1) 3. Sterlite Technologies Limited(3) 4. Mahindra Defence Systems Ltd.(4) 5. Johnson Controls 6. CNT 7. Larsen & Toubro Ltd(5)
30.A	1.9.7 – A.e- Packet No. 2 /Notes/A (ii)	All the documents submitted towards eligibility of pre-qualification/ eligibility criteria should be arranged as per the Annexure -14.	-----	Kindly Refer Corrigendum	----
32.	1.9.12 / 31 (05)	Bid Price: Financial Bid shall be as per the format provided in the RFP. Bidders shall give the required details of all	1. We request for a price revision of a component to be considered during the contract, in case the price variation is caused	Kindly Refer Corrigendum	1. HPE(1) 2. Hewlett Packard Enterprise India



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		applicable taxes, duties, other levies and charges etc. in respect of direct transaction between C-DAC and the Bidder. Bidders shall quote for the entire scope of contract on an "overall responsibility" basis such that the total Bid Price covers Bidder's all obligations mentioned in or to be reasonably inferred from the bidding documents in respect of providing the product/services. Prices quoted by the Bidder shall remain firm during the entire contract period and not subject to variation on any account. A Bid submitted with an adjustable price quotation shall be treated as non-responsive and rejected. The applicable rates of GST for each line item must be mentioned separately.	due to dollar or commodity price variation, by more than 20 percent from the time of bid submission. 2. Request you to incorporate, 1. Price shall remain firm for scheduled completion period except for statutory variation and change in scope, subject to C-DAC fulfilling its contractual obligations on time and further Force Majeure conditions. 2. In case of extension of time for reasons not attributable to MSI/ Bidder, MSI/ Bidder shall be entitled to price implication, if any as mutually discussed and agreed.		Private Limited(1) 3. CNT(2) 4. Johnson Controls(2)
33.	1.9.13 / 31 (06)	Deviations and Exclusions Bids shall be submitted strictly in accordance with the requirements and terms & conditions of the RFP. The Bids with deviation(s) to the clauses and/or outlined scope mentioned in the RFP and/or non-submission of required documentations are liable for rejection.	1. We request that the RFP to permit the technical deviations on specifications, and allow for mention of our assumptions / dependencies / pre requisite to the scope or an activity under the scope. This is usual submission in a technical solution of this nature 2. We request that Bidders should be allowed to submit deviations to RFP T&Cs which can be negotiated and mutually agreed at the time of contracting.	As per RFP	1. Hewlett Packard Enterprise India Private Limited(1,2) 2. HPE(1,2)
34.	1.9.18 / 32 (05)	Acceptance/ Rejection of Bids a. C-DAC reserves the right to reject in full or part, any or all Bids without assigning any reason thereof. C-DAC reserves the right to assess the Bidder's	1. We request you amend the clause as, "a. C-DAC reserves the right to reject in full or part, any or all Bids after seeking clarity from the bidder, If not clarified in a given time. without assigning any reason thereof. C-DAC	Kindly refer corrigendum Refer 1.9.18 of corrigendum	1. Larsen & Toubro Ltd(1,2) 2. HPE(3) 3. Hewlett Packard Enterprise India



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		capabilities and capacity. The decision of C-DAC shall be final and binding. In the event of any assumptions, presumptions, key points of discussion, recommendation or any points of similar nature submitted along with the Bid, C-DAC reserves the right to reject the Bid and forfeit the EMD.	reserves the right to assess the Bidder's capabilities and capacity. The decision of C-DAC shall be final and binding. 2. We request you amend the clause as, "In the event of any assumptions, presumptions, key points of discussion, recommendation or any points of similar nature submitted along with the Bid, C-DAC shall ask bidder for clarification as a query and if the queries are not clarified in a given time, then C-DAC reserves the right to reject the Bid and forfeit the EMD." 3. We request to delete this clause, as a technical bid and solution shall be having certain assumptions and requirements or pre requisites from the end User. The same shall be part of the technical solution.		Private Limited(3)
35.	1.9.19 / 33 (03)	Confidentiality: All the material/ information shared with the Bidder during the course of this procurement process as well as the subsequent resulting engagement following this process with the successful bidder, shall be treated as confidential and should not be disclosed in any manner to any unauthorized person under any circumstances. The employees of the successful Bidder and JV Members who are proposed to be deployed on the Project need to furnish a Non-Disclosure Agreement (NDA).	Bidder understands that this is a publically available RFP and corrigendum, hence the clause excludes the publically available documents from the purview of this clause. Pls confirm the same and add the same to RFP clause.	As per RFP	1. HPE 2. Hewlett Packard Enterprise India Private Limited
36.	1.9.20 (i) / 33 (03)	Bid Disqualification: 'i. If any of the Member Bidder of any JV is also a member in any other Bid, then all the affected Bids shall be disqualified.	We understand that bandwidth is required as part of the bid, hence this clause has to be excluded for the Bandwidth providers as the same may be working with multiple bidders. The TSPs usually form part of consortium / JV.	Kindly refer corrigendum Refer 1.9.(i) of corrigendum	1. HPE 2. Hewlett Packard Enterprise India Private Limited



36 A	1.9.21 (a)/ 33	The Bidders and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Selection Process. Notwithstanding anything to the contrary contained in this RFP, C-DAC shall reject a Bid without being liable in any manner whatsoever to the Bidder, if it determines that the Bidder has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice (collectively the "Prohibited Practices") in the Selection Process. In such an event, C-DAC shall, without prejudice to its any other rights or remedies, forfeit and appropriate the EMD, as mutually agreed genuine pre-estimated compensation and damages payable to C-DAC for, inter alia, time, cost and effort of C-DAC, in regard to the RFP, including consideration and evaluation of such Bid.	The Bidders and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Selection Process. Notwithstanding anything to the contrary contained in this RFP, C-DAC shall reject a Bid without being liable in any manner whatsoever to the Bidder, if it determines that the Bidder has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice (collectively the "Prohibited Practices") in the Selection Process. In such an event, C-DAC shall, without prejudice to its any other rights or remedies, take appropriate action against GFR Rule 170.	Kindly refer corrigendum Para 1.9.21 (a), Page 33	1.
37.	1.9.23 / 35 (13)	Sub-Contracting The Bidder would not be allowed to sub-contract work, except for the following: a. Facility Management Staff at Ground maintenance, Cleaning, Catering, Vending Space management, Utilities management, Site Preparation etc. and associated manpower and site preparation. b. Sub-contracting shall be allowed only with prior written approval of C-DAC. However, even if the work is sub-	1. We understand that the bidder's planned / required areas of subcontracted scope can be submitted post the down selection for approval from CDAC. Pls confirm the understanding. 2. We request to add the following scopes in subcontracting – a) Civil or Electrical work at site b) LAN / Fiber Cable laying related work c) IT Support staff for L1 / L2 level for deployment at site	As per RFP	1. Hewlett Packard Enterprise India Private Limited(1,2,3) 2. HPE(2,3) 3. Honeywell(4) 4. Honeywell Automation India Ltd(4) 5. Presto Infosolutions Pvt. Ltd.(5)



		contracted, the sole responsibility of the work shall lie with the Successful Sole Bidder/ JV Bidder. The Successful Bidder shall be held responsible for any delay/error/non-compliance etc. of its sub-contracted vendor.	d) Training related scope and Services to be imparted as part of the project e) Implementation or AMC Support on products from OEM / OEM authorised service partners 3. BU and Delivery to note that CDAC's prior written approval is required for any subcontracting except FMS. 4. Kindly allow to subcontract following Manpower: 1. Technical experts 2. Field Technicians 3. Operators 5. You are requested to kindly allow the Sub-contracting for O&M manpower also, So that required manpower for O&M can be outsourced on project basis. Kindly consider. Tech Mahindra Sub-Contracting 1) The bidder would not be allowed to Sub-contract/outsourced work except for the following: • Establishment of passive components of network infrastructure. • Setting up the network. • Cabling fixtures work, civil, electrical work during implementation. • FMS staff for Non-IT support during post implementation at comm and control centre • Call Centre services, if applicable • Viewing Manpower for comm / viewing centre during post implementation, if applicable • Installation Maintenance (only) of active devices like Camera, PA systems, ECB, QR code stickers, but the overall responsibility of configuration operation is of selected system integrator. b. Sub-contracting shall be allowed only with prior written		Presto(5)



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			approval of C-DAC. However, even if the work is sub-contracted, the sole responsibility of the work shall lie with the Successful Sole Bidder/ JV Bidder. The Successful Bidder shall be held responsible for any delay/error/non-compliance etc. of its sub-contracted vendor.		
38.	1.9.24 / 35 (05)	Right to vary quantity a. At the time of award of contract or during the implementation of project, the quantity of goods, works or services originally specified in the bidding documents may be increased/ decreased upto (+/-) 25%. It shall be without any change in the unit prices or other terms and conditions of the Bid and the bidding documents. b. If C-DAC/ Delhi Police does not procure any subject matter of procurement or procures less than the quantity specified in the bidding documents due to change in circumstances, the Bidder shall not be entitled for any claim or compensation except otherwise provided in the bidding document. c. Repeat orders for extra items or additional quantities may be placed, if it is provided in the bidding document, on the rates and conditions given in the contract if the original order was given after inviting open competitive bids. Delivery or completion period may also be proportionally increased.	1. As per understanding, quantity may increase or decrease by 25%. MSI will get payment for entire quantity provided in RFP and can be increased by 25% more in case needed as per approval process. In case, quantity is decreased by 25% then it can be used as spare in O&M. 2. In order to bid competitively, the prices with the vendors are negotiated basis the quantities mentioned in the BoQ of RFP and hence a variation of +/- 15% is an acceptable threshold for our partners and suppliers as well. We therefore request that the clause is amended as follows:" At the time of award of contract or during the implementation of project, the quantity of goods, works or services originally specified in the bidding documents may be increased/ decreased upto (+/-) 15% 25%. It shall be without any change in the unit prices or other terms and conditions of the Bid and the bidding documents." 3. The price for goods cannot be the same throughout the duration of the contract. Therefore, please clarify that the right to place repeat orders for extra items shall be placed within the implementation period of 14 months only.	As per RFP (The payments shall be for actual quantities used.)	1. Shapoorji Pallonji & Co. Pvt. Ltd.(1) 2. Sterlite Technologies Limited(2) 3. HPE(3) 4. Hewlett Packard Enterprise India Private Limited(3)
39.	1.9.26 / 35 (01)	Site Visit for preparation of the bid The Bidder may wish to visit and examine the site or sites and obtain for	as per understanding, client will enable support to MSI when MSI visit site for survey and provide required information which	As Per RFP	1. Shapoorji Pallonji & Co. Pvt. Ltd.



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		itself, at its own responsibility and risk, all information that may be necessary for preparing the bid and entering into the Contract. The costs of visiting the site or sites shall be at the Bidder's own expense. • It is strongly recommended that bidders may conduct their own studies and surveys as per the requirement of RFP wherever necessary, prior to the proposal submission at their own costs. • No site visits shall be arranged or scheduled after the deadline for the submission of the Bids and prior to the award of Contract.	needed to conclude cost. SPOC should be provided to MSI and respective documents should be provided.	(Necessary details already provided after signing the NDA.)	



Chapter 2

S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	2.1.1/37 Signing of Agreement and Release of Payments	The Agreement for project implementation will be signed between selected bidder (Lead Partner in case of JV) and C-DAC, Pune. The draft of the Agreement is given in Chapter 6 of this document. However, all the and conditions stipulated in this tender shall also be the part of the Agreement to be signed. All the invoices should be raised in the name of C-DAC Pune. The payments as stipulated in the Contract will be released by C-DAC, Pune on approval of competent authority from C-DAC.	The Agreement for project implementation will be signed between selected bidder (Sole Bidder or JV - in case of JV) and C-DAC, Pune. The draft of the Agreement is given in Chapter 6 of this document. However, all the terms and conditions stipulated in this tender (and corrigenda published) shall also be the part of the Agreement to be signed. All the invoices should be raised in the name of C-DAC Pune. The payments as stipulated in the Contract will be released by C-DAC, Pune on approval of competent authority from C-DAC.	Kindly refer Corrigendum Refer Para 2.1.1	-----
	2.1.3 & 2.1.8 / 37 & 42 (06)	2.1.3 Pre-Qualification / Eligibility Criteria & 2.1.8 Evaluation Process, b. Stage 2: Technical Evaluation	1. A company incorporated in India under Indian companies act and in existence for more than 5 years and a 100% subsidiary should be allowed to use technical & financial credentials of its parent / Subsidiary / group company of ultimate parent for Pre-Qualification / Eligibility Criteria & technical evaluations. This is a standard practice in all Safe City (Varanasi, Ludhiana, Ahmedabad, Bangalore, etc.), Smart City (Saharanpur, Aligarh, Biharsharif, Bareilly, etc.), and NHAI. We recommend following note is added in RFP.	Kindly Refer Corrigendum Refer Appendix II (Table 2.1.3)	PICONET INNOVATIVE SOLUTION PVT LTD(1,3) EFKON India Pvt. Ltd(1,2,3,4)



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			2. Experience of the parent firm (in case bidder firm is a fully/wholly owned subsidiary of the parent firm) or experience of the fully/wholly owned subsidiary firm (if parent firm is applying for the bid) or Experience of Sister Firm only if both (Bidder Firm & Sister Firm) are fully/wholly owned subsidiaries of the same Parent Firm shall be considered. However, in such case the authorized signatory of corresponding firm(s), whose experience is being considered, should submit certificate to transfer knowhow to the bidder firm as and when required. (This note shall be also applicable for technical scoring of the bids). 3. Bidders should be allowed to use technical credentials of its parent / Subsidiary / group company of ultimate parent for Pre-Qualification / Eligibility Criteria & technical evaluations on the similar lines of other Safe City and Smart City RFPs (For eg: Ahmedabad Safe City, Bangalore Safe City, Saharanpur Smart City). We recommend following note is added in RFP. 4. Bidders should be allowed to use Project experience of on-going projects for the components which have already been executed. Currently the tender does not restrict this criteria. We recommend for greater clarity following note is added in RFP. In case the project is on-going a certificate from Client/Statutory Auditor has to be provided mentioning that at-least 80% of the Capex work has been completed. (This note shall be also applicable for technical scoring of the bids).		



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			5. Bidders should be allowed to use Project experience of on-going projects. We recommend following note is added in RFP. In case the project is on-going a certificate from Client/Statutory Auditor has to be provided mentioning that at-least 80% of the Capex work has been completed. (This note shall be also applicable for technical scoring of the bids).		
	2.1.3 / 37 (01)	Additional Point	Kindly add Pre Qualifications for Security OEM as per below:- " The OEM must have supplied similar solution in at least 3 Safe cities/Smart City projects in India."	Kindly Refer Corrigendum Refer Appendix II (Table 2.1.3)	RSA
	2.1.3 / 37 (01)	Additional Point Eligibility Criteria for Mobile Command Control Vehicle OEM	Eligibility Criteria for Mobile Command Control Vehicle OEM: The MCCV would be a customized item made as per specific requirements of RFP and have to be designed specifically for this project. We recommend having a bare minimal experience of supplying 3 to 5 MCCV for specific use of Police forces with integrated communication as well as on-board surveillance capabilities as criteria for the OEM of the MCCV.	Kindly refer corrigendum Refer Appendix II (Table 2.1.3)	Mistral Solutions Pvt Ltd
	2.1.3 / 37 (01)	General	Whether on-going project with partial completion (meeting the Qualification Criteria) certificate will be considered or not? Please clarify.	Kindly refer corrigendum Refer Appendix II (Table 2.1.3)	BHARAT ELECTRONICS LIMITED
	2.1.3 (A) / 37 (01)	Bidder Pre-Qualification Criteria	PQ details have been asked only for past 3 financial years. To encourage the competition, you are requested to include the details for the past financial years.	Kindly refer corrigendum Refer Appendix II (Table 2.1.3)	Marushika Technology Advisors Pvt. Ltd.



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	2.1.3 (A) a / 37 (03)	The Sole Bidder/Each Member of JV must be an entity registered in India under applicable law.	Current tender conditions are restrictive and does not encourage participation. In line with latest DPIIT notification, tenders with value above INR 200 cr, foreign companies are allowed to participate hence we recommend that foreign companies are allowed to participate. Kindly modify the clause as under: a) The Sole Bidder/Each Member of JV must be an entity registered in India/Abroad under applicable law.	Kindly refer corrigendum Refer Appendix II (Table 2.1.3)	EFKON India Pvt. Ltd PICONET INNOVATIVE SOLUTION PVT LTD
	2.1.3 (A) a / 37 (03)		1. There are legal lengthy processes to form a JV which will be difficult to meet the given timeframe of the RFP, therefore It is requested to permit participation as consortiums instead of JV 2. Kindly allow the consortium experience in place of JV as to sign up a JV agreement is bit complex and long process.	Kindly refer corrigendum Refer Appendix II (Table 2.1.3)	HFCL Limited(1) Transline Technologies Pvt. Ltd.(2) Madras Security Printers Pvt.Ltd(2)
	2.1.3 (A) b / 37 (01)	The Sole Bidder / Each Member of JV shall be in operations for a period of at least five (05) years as on published date of RFP.	Whether RFP is looking for JV or Consortium? Genral understanding of JV is forming a new company among partners for specific purpose. We do not feel that RFP is asking for same as it is very tedious process. In case of Public Sectors Min 2 years required to form a JV. A consortium may be better option as this is generally paper based agreement among parties for bidding as per defined roles and responsibility. Please clarify.	Kindly refer corrigendum Refer Appendix II (Table 2.1.3)	Bharat Electronics Ltd
	(01)		There is inconsistency on the number / criteria for no. of years of experience required. Somewhere, its last 5 years, somewhere it is 3 years or 7 years. Further insome clauses the t/o is calculated as annual and in other clauses the t/o is being calculated as average. Hence it is requested to suitably ammend this clause	Kindly refer corrigendum Refer Appendix II (Table 2.1.3)	Echelon Edge
	2.1.3 (A) c / 37 (01)	The annual turnover of sole bidder or the turnover of all JV members put together in each of	1. Kindly allow financial/technical Experience of the parent firm (in case bidder firm is a 100% subsidiary of the parent firm) or experience of the 100%	Kindly refer corrigendum.	Transline Technologies Pvt. Ltd.(1)



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		the last 03 financial year shall be Rs. 300/- Crores.	subsidiary firm (if parent firm is applying for the bid) or Experience of Sister Firm only if both (Bidder Firm & Sister Firm) are 100% subsidiaries of the same Parent Firm shall be considered 2. The annual turnover of sole bidder or the turnover of all JV members with their ultimate holding company put together in each of the last 03 financial year shall be Rs. 300/- Crores 3. The Average Annual Turnover of sole bidder or the turnover of all JV members put together in the last 03 financial year shall be Rs. 300/- Crores.	Refer Appendix II (Table 2.1.3)	Madras Security Printers Pvt.Ltd(1) Panamax(2) BECIL(3)
	2.1.3 (A)c / 37 (10)	The annual turnover of sole bidder or the turnover of all JV members put together in each of the last 03 financial year shall be Rs. 300/- Crores.	1. The turn over criteria of 300 cr per year is on a very higher side .As the project implementation is spread out over 6 years we request to kindly reduce this criteria to 100 Cr average turn over during last 3 financial years. 2. In Rs. 300 Cr Each year means you are asking 900 Cr Cumulative Turnover , by putting so huge turnover only few Co. & MNC will get Qualify , As capex part of Project is approximate 60 % and its also need to complete in approximate 1& half year , So request to you for support "Local for Vocal "each year turnover requirement of last three year should not be more then 100 Cr each year and this turnover should be fulfill from similar Works only .here similor Works Means :- SITC of Surveillance and City Surveillance Projects only . 3. As per the scope of RFP, this project will be in operations till next 6 + years and asking this huge turnover in the current years is on very higher side which will allow only big bidders to participate, therefore requesting you to please reduce the asked turnover by and make it annual turnover of Rs 100 cr in each of the last 03 financial year	Kindly refer corrigendum. Refer Appendix II (Table 2.1.3)	Online Micro Services Pvt Ltd(1) TechnoSys(2) Techno Sys Group(3) Larsen & Toubro Ltd(4) Presto Infosolutions Pvt. Ltd.(5) Presto(5) SCS TECH INDIA PVT. LTD.(6) Echelon Edge Millennium Automation Private Ltd(7,8) Mahindra Defence Systems Ltd.(8)



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			4. Request you to amend the clause as, The annual turnover of sole bidder or the turnover of all JV members put together in each of the last 03 financial year shall be Rs. 300 600/- Crores. 5. Requested to amend the clause as following "The average annual turnover of sole bidder or the turnover of all JV members put together in each of the last 03 financial year shall be Rs. 300/- Crores". 6. Please change below criteria as below: "The average annual turnover of sole bidder or the average turnover of all JV / Consortium members put together in the last 03 financial year shall be Rs. 300/- Crores." 7. We would request to amend average turnover of bidder Rs. 150 Cr for last 03 financial year. For larger participation. 8. Please amend the clause as follow: The annual turnover of sole bidder or the turnover of all JV members put together in each of the last 03 financial year shall be Rs. 250/-Crores (i.e. FY 2017-18, 2018-19, 2019-2020). Annual turnovers of the Parent company would be considered for only 100% subsidiary/ division/ sub division/ branch business unit		
	2.1.3 (A)d / 37 (01)	In case of JV, at least 51% of the turnover criteria shall be met by the Lead Partner (with Management Control in India) and the remaining can be satisfied by the other JV partners.	Please change below criteria as below: "In case of JV / Consortium, at least 30% of the turnover criteria shall be met by the Lead Partner (with Management Control in India) and the remaining can be satisfied by the other JV partners."	Kindly refer corrigendum. Refer Appendix II (Table 2.1.3)	SCS TECH INDIA PVT. LTD.
	2.1.3 (A)e / 37 (25)	Sole Bidder or Lead Partner of JV shall have minimum 30% average annual turnover into in the areas of Supply, Implementation and Integration of City Surveillance System and/or, Data Centre	1. We request to change this criteria as it is not feasible to calculate and have 30% of Company Annual Turnover from a single line of business. In lieu, we propose, to keep that bidder should have undertaken projects (in the areas of Supply, Implementation and Integration of City Surveillance	Kindly Refer Corrigendum Refer Appendix II (Table 2.1.3)	Hewlett Packard Enterprise India Private Limited(1) HPE(1,2)



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		infrastructure in last three (03) financial years.	System and/or, Data Centre infrastructure / implementation and support services) of cumulative value more than INR 300 Crores in the last five years (2015 onwards). 2. Pls clarify if the criteria is required TO as 30% of asked bidder annual turnover INR 300 Crores- i.e. 100 crores INR? Else If this is 30 pc of bidders annual turnover, then We request to change this criteria as it is not feasible to calculate and have 30% of Company Annual Turnover from a single line of business. In lieu, we propose , to keep that bidder should have undertaken projects (in the areas of Supply, Implementation and Integration of City Surveillance System / IT & ICT projects and/or, Data Centre infrastructure / implementation and support services) of cumulative value more than INR 300 Crores in the last five years (2015 onwards) in India. 3. We understand that ordered works related to CCTV surveillance and Data center Infra are not of very high volume and size. The CCTV and Data center Infrastructure are one of the components of various IT/ ICT projects in India. Hence, we request you kindly to amend this clause as under:- Sole Bidder or Lead Partner of JV shall have minimum 30% average annual turnover into in the areas of Supply, Implementation and Integration of City Surveillance System and/or, Data Centre infrastructure/ IT/ ICT in last three (03) financial years. 4. As the scope of the project includes implmentation and integration of surveillance system with data center, we request to kindly ammend the clause as		NEC Corporation India Pvt. Ltd.(3) Online Micro Services Pvt Ltd(4) Honeywell(5) Honeywell Automation India Ltd.(5) Larsen & Toubro Ltd(6) Presto Infosolutions Pvt. Ltd.(7) Echelon Edge(8) presto HFCL Limited(9,10) Tech Mahindra(10) Johnson Controls(11) Bharat Electronics Ltd(12,13) INTEC INFONET PVT. LTD.(14) Samsung SDS India Pvt Ltd.(15) CNT(16) Millennium Automation Private Ltd(17) Echelon Edge(8) Sterlite Technologies Limited(18) Telecommunication s Consultants



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			follows: Sole Bidder or Lead Partner of JV shall have minimum 30% average annual turnover into in the areas of Supply, Implementation and Integration of City Surveillance System and Data Centre infrastructure in last three (03) financial years. 5. Request to amend as follows: e. Sole Bidder or Lead Partner of JV shall have minimum 30% average annual turnover into in the areas of ICT/ System Integrator services/ Supply, Implementation and Integration of City Surveillance System and/or, Data Centre infrastructure in last three (03) financial years. 6. Request you to amend the clause as, e. Sole Bidder or Lead Partner of JV shall have minimum INR 100 Crs 30% average annual turnover into in the areas of Supply, Implementation and Integration of City Surveillance System and/or, Data Centre infrastructure in last three (03) financial years. 7. This is largely a System Integration / Network / O&M centric project hence is requested that the criteria may be ammended to include related experience. Sole Bidder or Lead Partner of JV shall have minimum 30% average annual turnover into in the areas of Supply / Implementation / Integration / O&M of City Surveillance System / Data Centre infrastructure / Networking Infra Projects in last three (03) financial years. 8. It is requested to kindly lower the criteria from 25% to 30% for the Sole Bidder or Lead Partner of JV for minimum average annual turnover into in the		India Limited(19) Shapoorji Pallonji & Co. Pvt. Ltd.(20) Panamax (22)



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			areas of Supply / Implementation / Integration / O&M of City Surveillance System / Data Centre infrastructure / Networking Infra Projects in last three (03) financial years. 9. We understand that requirement of 30% average annual turnover from the areas of Supply, Implementation and Integration of City Surveillance System and/or, Data Centre infrastructure in last three (03) financial years is to be calculated based on the minimum annual turnover requirement of Rs300 crores. Kindly confirm 10. Request you to please change this to: Sole Bidder or Lead Partner of JV shall have minimum 30% average annual turnover into in the areas of Supply, Implementation and Integration of City Surveillance System and/or, Data Centre infrastructure / IT Services in last three (03) financial years. 11. JCI has been present in India since-95 and is in the business of SI/IT/ITES/ICT in the India market and abroad and Data Center related infrastructure and services are part of these services. We have substantial revenue coming from SI/IT/ITES/ICT hence we request you to kindly allow and consider annual turnover from SI/IT/ITES/ICT as same is accepted in all ICT, Smart City, Safe City related tenders backed by GOI or State Gov. 12. Generally bigger companies will be having various revenue domains and City Surveillance and other Data Centre Projects are small portions of their revenue. This clause will limit participation of such big companies. The financial capabilities may be checked by other methods like defining the turnover obtained from City		



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			Surveillance and Data Centre business. In view of this we are requesting to remove this clause and incorporate a new clause mentioning the exact value of turnover from Supply, Implementation and Integration of City Surveillance System and/or, Data Centre infrastructure in last three (03) financial years. 13. Generally bigger companies will be having various revenue domains and City Surveillance and other Data Centre Projects are small portions of their revenue. This clause will limit participation of such big companies. A company of Rs 10000 Cr turnover may have Rs 2000 Cr turnover from Surveillance and Data Center vertical but still it will not meet 30% clause. A company with Rs 100 Cr turnover may have Rs 30 Cr from Surveillance and Data Center business and may meet 30% clause but it is unfair to disqualify Rs 10000 Cr company on this ground. The financial capabilities may be checked by other methods like defining the turnover obtained from City Surveillance and Data Centre business. In view of this we are requesting to remove this clause and incorporate a new clause mentioning the exact value of turnover from Supply, Implementation and Integration of City Surveillance System and/or, Data Centre infrastructure in last three (03) financial years. 14. Sole Bidder or Lead Partner of JV shall have minimum 30% average annual turnover into the areas of Supply, Implementation and Integration of City Surveillance System and/or, Data Centre infrastructure/IT Infrastructure in last three (03) financial years.		



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			15. Our company is in the business of ITSS / ITeS services in the India market and abroad, and Data Center related infrastructure and services are part of these services. We have substantial revenue coming from ITSS/ITeS services, therefore we request you to kindly allow and consider annual turnover from ITSS/ITeS Services as well under this. 16. We are in the business of SI/IT/ITES/ICT in the India market and abroad and Data Center related infrastructure and services are part of these services. We have substantial revenue coming from SI/IT/ITES/ICT hence we request you to kindly allow and consider annual turnover from SI/IT/ITES/ICT as same is accepted in all ICT, Smart City, Safe City related tenders backed by GOI or State Gov. 17. Sole Bidder or Lead Partner of JV shall have minimum 30% average annual turnover into in the areas of Supply, Implementation and Integration of City Surveillance System and/ or, Data Centre infrastructure Or IT&ITeS Projects in last three (03) financial years. For larger participation. 18. Being a leading System Integrator, we have executed many turnkey projects related to ICT/Telecom domain. May we request you to kindly consider the experience related to ICT/Telecom also and kindly modify the clause as: Sole Bidder or Lead Partner of JV shall have minimum 30% average annual turnover into in the areas of Supply, Implementation and Integration of City Surveillance System and/or, Data Centre		



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			infrastructure and/or ICT/Telecom domain in last three (03) financial years 19. As per above mentioned DPIIT, Order No P-45021/2/2017-PP (BE-II). Dated 4th June, 2020 issued by Public Procurement Division, Department of Investment and Internal Trade, Ministry of Commerce, GoI, procuring entities shall endeavour to see that eligibility conditons do not result in resonalble exclusion of local class I/II supplier who would otherwise be eligible, beoyond what is essentioal for ensuring quality or credit to worthiness of the supplier. Since, safe city project implementaion in India is not very old and turnover of the implemented projects (Safe City/Data Center Infra) value asked is minimum 30% average annual turnover in last three year: Thanks to COVID-19 Pandemic it is requested to ammend the PQ as below: Sole Bidder or Lead Partner of JV/Consortium shall have minimum 10% average annual turnover into in the areas of Supply, Implementation and Integration of City Surveillance System and/or, Data Centre infrastructure/ITeS in last three (03) financial years. 20. We request you to modify clause as below: Sole Bidder or Lead Partner of JV shall have minimum 30% average annual turnover into in the areas of Supply, Implementation and Integration of City Surveillance System and/or, Data Centre infrastructure and/or, ICT , IT/ ITES in last three (03) financial years. 21. Sole Bidder or Lead Partner or any of JV shall have minimum 30% average annual turnover into in the areas of Supply, Implementation and Integration		



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			of City Surveillance System and/or, Data Centre infrastructure in last three (03) financial years. Sterlite Technologies The Lead Bidder and its consortium members shall comply with the following notifications issued to promote domestic manufacturing under Make in India: Issued by Government of India, Ministry of Commerce and Industry, Department of Industrial Policy and Promotion (Public Procurement Section) 1) Order No. P-45021/2/2017-B.E.II dated 15.06.2017 further revised vide Order No. P-45021/2/2017-PP (BE II) dated 28.05.2018 2) Order No. P-45021/2/2017-PP (B.E.II) dated 29.05.2019 3) Order No. P-45021/2/2017-PP (B.E.II) dated 04.06.2020 Issued by Government of India, Ministry of Communications, Department of Telecommunications 4) DOT Notification No. 18-10/2017-IP dated 29.08.2018 22. Sole Bidder or Lead Partner of JV shall have minimum average annual turnover of 1500 cr into in the areas of Supply, Implementation and Integration of City Surveillance System and/or, Data Centre infrastructure and/or ICT/Telecom domain in last three (03) financial years		



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	(01)	General	Whether RFP is looking for JV or Consortium? Genral understanding of JV is forming a new company among partners for specific purpose . We do not feel that RFP is asking for same as it is very tedious process . In case of Public Sectors Min 2 years required to form a JV. A consortium may be better option as this is generally paper based agreement among parties for bidding as per defined roles and responsibility. Please clarify.	Kindly Refer Corrigendum Para 1.9 of Page number 25	BHARAT ELECTRONICS LIMITED
	2.1.3 (A)f / 37 (04)	The Sole Bidder or JV Lead partner shall have positive net- worth in the last 03 Financial Year.	1. Please clarify if the last three FYs refer s to 2019-20, 2018-19 and 2018-17. Pls also modify to allow for consortium bid.	Kindly Refer Corrigendum Refer Appendix II (Table 2.1.3)	HPE Hewlett Packard Enterprise India Private Limited Echelon Edge
	2.1.3 (A)g / 37 (01)	All the JV members should have positive net worth as per the audited consolidated financial statements in each of the last 03 financial years.	There is inconsistency on the number / criteria for no. of years of experience required. Somewhere, its last 5 years, somewhere it is 3 years or 7 years. Further in some clauses the t/o is calculated as annual and in other clauses the t/o is being calculated as average. Hence it is requested to suitably amend this clause	Kindly Refer Corrigendum Refer Appendix II (Table 2.1.3)	Echelon Edge
	2.1.3 (A)h / 37 (03)	The sole bidder and all the JV members should be profitable entities at the time of bidding.	Request you to kindly change this clause to : The Sole Bidder / Each Member of JV shall be in operations for a period of at least Three (03) years as on published date of RFP. Justification: This would allow startup and msme like us to participate in the RFP.	Kindly Refer Corrigendum Refer Appendix II (Table 2.1.3)	Bharat Sanchar Nigam Ltd (BSNL) DAK Infosoft (P) Ltd Echelon Edge
	2.1.3 (A)i / 37 (11)	The bidder shall not propose any freeware software/community edition as part of ICCC project and thus minimize the chances of severe security risks.	1. By this clause we understand that this requirement pertains to the application software and not to the operating systems and database licenses. As per the GoI policy, use of open source operating systems and database systems is being promoted. Kindly clarify.	Kindly Refer Corrigendum Refer Appendix II (Table 2.1.3)	PruTech Solutions India Pvt. Ltd. Tech Mahindra Sterlite Technologies Limited



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			2. Please clarify if bidder can propose Enterprise Edition of open source software's for the project. 3. In the event any software which is freeware but registered and customised will be acceptable?		Videonetics Technologies Pvt Ltd. Larsen & Toubro Ltd Matrix Security & Surveillance Pvt Ltd Bodhtree Hewlett Packard Enterprise India Private Limited HPE
	2.1.3 (A)j / 38 (01)	The Bidder shall quote only one specific make and model from only one specific OEM, for each of the goods. Providing more than one option shall not be allowed. All goods quoted by the Bidder must be associated with item code and names and with printed literature describing configuration and functionality. Any deviation from the printed specifications should be clearly mentioned in the offer document by the Bidder.	1. Since as System Integrator, We are responsible to meet the technical specification and SLA levels for the entire technical Solution. In this regard we propose multiple makes which are technically equivalent and would meet RFP requirements. This will help the SI to offer a very competitive price to the customer by taking aggressive risks on their costs, which will totally benefit the customer. If only one make is insisted the vendor does not support the SI in times and therefore the costs go up considerably. For your Kind information, in almost all of the government contracts there is a list of Compendium of Suppliers approved for each of their item required for the Project. This list is made part of the contract. During execution of the contract, the SI/Contractor shall have to supply materials of makes/vendors who are in that list only. Hence we request you to kindly accept the same. 2. You are also requested to allow offering multiple OEM options for the products enabling better techno commercial solution.	As per RFP This clause has been covered under the Para 2.1.3 A (ix) of Annexure-I	Larsen & Toubro Ltd(1) Presto Infosolutions Pvt. Ltd.(2) Presto(2) Sterlite Technologies(3)



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			3. If one specific make and model is not manufactured by one specific OEM but the make is indian and out of 1-10, 8 is from one OEM and 2 is from OEM will that be acceptable?		
	2.1.3 (A)k / 38 (01)	The MAC address/ Serial Number of the surveillance cameras and other necessary components must be registered in the name of the OEM supplying the equipment's.	As per understanding, all material and software licenses would be on the name of client and MSI will purchase it. On OEM book records, the material will be reflected on the name of client.	As per RFP We are asking for MAC id of devices like camera mac id should be registered on the OEM Name	Shapoorji Pallonji & Co. Pvt. Ltd.
	2.1.3 (A)l / 38 (07)	Bidder's solution shall adhere to the model framework of cyber security guidelines issued by MeitY (Ministry of IT) from time to time	1. Meity Cyber Security Guidelines is an evolving model and the bidder can ensure adherence to current framework. For the future framework, a change with added cost may be required and hence, request to make this clause applicable as on date of bid submission. Post the submission, adherence may / may not involve added cost which may need Change Request basis scope and mutual discussion. Also, pls guide as to the document required against this PQ criteria from the bidder. 2. We request that any additional products or services required for compliance with changes to MeitY Guidelines on cyber security post bid submission shall be undertaken through mutually agreed change management process. (2) In order to ensure full compliance, we request CDAC to share the applicable MeitY Guidelines for review by Bidders. Radius Infotech	Kindly refer corrigendum Refer Appendix II (Table 2.1.3)	HPE(1,2) Hewlett Packard Enterprise India Private Limited(1,2) Radius Infotech (P) LTD.(3)



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			. Since this project is in India hence clause of only blacklisted/banned/debarred/Non-Performance by GOI/State Govt./PSU/ in India should be there . Kindly remove Clause blacklisted /debarred entity by Prominent Foreign Nation		
	2.1.3 (A)m / 38 (03)	The Sole bidder or any member of the JV or OEM(s) or its parent company or allied business subsidiary companies should not have been blacklisted/banned/debarred/Non-Performance by GOI/State Govt./PSU/by prominent foreign nations due to security concerns during the last 05 years from the date of publishing the bid. A blacklisted /debarred entity in India or in Prominent Countries shall not be allowed to bid through either any of its Indian subsidiaries/Channels-Partners /Off-shore or Overseas Establishments.	1. Since this project is in India hence clause of only blacklisted/banned/ debarred/Non-Performance by GOI/ State Govt./PSU/ in India should be there. Kindly remove Clause blacklisted /debarred entity by Prominent Foreign Nation 2. Request to amend as follows: The Sole bidder or any member of the JV or OEM(s) or its parent company or allied business subsidiary companies should not have been blacklisted/banned/debarred/Non-Performance by GOI/State Govt./PSU/by prominent foreign nations due to security concerns during the last 05 years from the date of publishing the bid. A blacklisted /debarred entity in India or in Prominent Countries shall not be allowed to bid through either any of its Indian subsidiaries/Channels-Partners /Off-shore or Overseas Establishments.	Kindly refer corrigendum. Refer Appendix II (Table 2.1.3)	Radius Infotech (P) LTD.(1) Honeywell(2) Honeywell Automation India Ltd.(2)
	2.1.3 (A)o / 38 (04)	The Sole Bidder / Each member of JV shall have any one of the following ISO Certifications valid at the time of Bidding: • ISO 9001:2008/ 2015 • ISO 20000:2015 for IT Service Management or equivalent certification • ISO 27001:2015 for Information Security Management System or equivalent certification.	1. Is it mandatory to comply for all ISO Certification specified here or any one of the Certification 2. Panamax Qualify with • ISO 9001:2015 3. ISO 27001:2013 for Information Security Management System or equivalent certification.	Kindly Refer Corrigendum Refer Appendix II (Table 2.1.3)	Savitri Telecom Pvt. Ltd(1) Sterlite Technologies(1, 4) Panamax(2,3)



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			4. If ISO 20000:2015 not available but equivalent ISO for IT service is available then is it acceptable?		
	2.1.3 (A)p / 38 (14)	The Sole bidder / any JV members should have CMMI level 3 or better certification	1. The CMMI level certification is basically applicable for OEM's of Application Development & normally system integrators don't go for this certification. This criteria will restrict the system integrator participation, hence we request to delete the clause for the wider participation of the bidders. 2. We understand valid certificates for parent company/ sister company/ subsidiary company/ group company can be considered. Please confirm 3. As per our understanding CMMI Level 3 is required either for Software Developer or integrations of software , as all services will be integrated through ICCO software , so it should be in Scope of ICCO OEM/developer , in Place of Master system Integrator . 4. This project is of Networking, Surveillance. It does not involve software development. Hence it is requested to delete this clause to promote more participation 5. The asked certificate CMML3 certificate belongs to specifically a software company and as per the scope it required MSI to implement or integrate this project . This is also available with software OEM's companies , therefore requesting you to please remove CMMI level 3 certificate. 6. This project is of Networking, Surveillance. It does not involve software development. Hence it is	Kindly Refer Corrigendum Refer Appendix II (Table 2.1.3)	Online Micro Services Pvt Ltd(1) Honeywell(2) Honeywell Automation India Ltd.(2,6) TechnoSys(3) Presto(4) Techno Sys Group(5) Presto Infosolutions Pvt. Ltd.(4) Telecommunications Consultants India Limited(7,10) Savitri Telecom Pvt. Ltd(8) Marushika Technology Advisors Pvt. Ltd.(9) NEC Corporation India Pvt. Ltd.(10) INTEC INFONET PVT. LTD.(9) Telecommunications Consultants India Limited(7,10)



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			requested to delete this clause to promote more participation 7. We understand for supporting documents, self-declaration can be provided by Bidder for IT load. 8. Since bidder for safe city surveillance project need not be necessarily CMMI level certified, this clause may be kindly deleted. 9. We request you to wave off this particular Certification 10. Justification: As per industry standard ISO 9001:ISO14000 are widely accepted in the industry for such requirement. It is requested to kindly allow OHSAS 18001:2007/ISO45001 / equivalent to fulfill the requirment. 11. Justification: As per industry standard ISO 9001:ISO14000 are widely accepted in the industry. So request you to please keep OHSAS 18001:2007/ISO45001 as optional. 12. Justification: As per industry standard ISO 9001:ISO14000 are widely accepted in the industry for such requirement. It is requested to kindly allow OHSAS 18001:2007/ISO45001 / equivalent to fulfill the requirment.		
	2.1.3 (A)q / 38 (33)	q. The Sole Bidder / Any member in case of JV shall have successfully executed below mentioned projects in last seven years (excluding civil work): At least one order covering Data Center with	1. The Sole Bidder / Any member in case of JV shall have successfully executed below mentioned projects in last seven years (excluding civil work): - At least one order covering Data Center with designed IT load of minimum 30KW excluding redundancy.	Kindly refer corrigendum. Refer Appendix II (Table 2.1.3)	Bharat Sanchar Nigam Ltd (BSNL)(1) HPE(2) Hewlett Packard Enterprise India



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		designed IT load of minimum 30KW excluding redundancy. - At least one order/project covering Surveillance projects minimum camera installation base of 500 IP cameras in outdoor environment for a surveillance project with a single Town/City. - At least one order covering Surveillance project including surveillance cameras, ICCV, VMS, and Video Analytics Software etc. - At least one order of minimum Rs. 05 Cr covering Command and control center/ City Control Room/ Communication Center - Orders covering Video analytics/Face Recognition (The cumulative amount of successfully executed orders/projects should be minimum Rs. 02 Crores)	2. We believe the underlying capability of the bidder as an SI is being sought for. As Such the key skill is the integration and analysis of the camera feeds by the bidder and not camera supply or installation. Hence, Bidder requests changes to this clause to permit the experience as proposed below - - Ongoing under implementations projects to be permitted to be quoted where 300+ cameras are part of the scope - All types of Cameras to be considered in the criteria - Global projects to be permitted - Projects where bidder has implemented surveillance solutions / Software (VMS), however the cameras were installed by other entity / customer on their own. "At least one order/project (ongoing or completed) covering Surveillance projects comprising of minimum camera installation base of 300 cameras in outdoor environment for a surveillance project with a single Town/City/ DC environment/Campus, where bidder has either installed the cameras or they were part of the project scope and bidder integrated cameras to the CMS Software supplied by the bidder, within or outside India." 3. Kindly allow the partially completed project (50% of the capex of the project) issued & signed by the competent authority of the client entity on the entity's letterhead 4. We request you to kindly consider and amend the clause as "At least one order/project covering Surveillance Projects minimum camera installation base of 500 cameras in outdoor/indoor environment		Private Limited(2) Transline Technologies Pvt. Ltd.(3) Madras Security Printers Pvt.Ltd(3) Samsung SDS India Pvt Ltd.(4,22) CNT(6) Johnson Controls (6) HFCL Limited NEC Corporation India Pvt. Ltd.(9) Online Micro Services Pvt Ltd(7) Echelon Edge VOLKSARA TECHNO SOLUTIONS PRIVATE LIMITED(8) Honeywell(9) Larsen & Toubro Ltd(10,11,12) Tech Mahindra(13) Marushika Technology Advisors Pvt. Ltd.(17) INTEC INFONET PVT. LTD.(16,18)



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			for a surveillance project with a single Town/City/Private Enterprise". 5. We understand that the experience of wholly-owned subsidiary of the sole bidder/ Master System Integrator/ any member in case of JV shall also be acceptable. Please confirm. 6. For Project of this stature, enormity , size and in interest of fair, wider participation from large , Global Players registered in India under company's act having massive investement in India below clauses are requested to be accepted as said below clauses are already accepted/allowed in all large ICT, Smart City/Safe City/Govt Tenders hence request you to kindly add/modify said clause as (Changes requested highlighted in BOLD): The Sole Bidder / Any member in case of JV/Consortium shall have successfully executed below mentioned projects in last seven years from the date of RFP Publishing date (excluding civil work): • At least one order covering Data Center with designed IT load of minimum 30KW excluding redundancy. • At least one order/project covering Surveillance projects minimum camera installation base of 500 IP cameras in outdoor environment for a surveillance project with a single Town/City/Large Campus/Airport/ Defence Establishment/City Traffic. • At least one order covering Surveillance project including surveillance cameras, ICCV, VMS, and Video Analytics Software etc. • At least one order of minimum Rs. 05 Cr covering Command and control center/ City Control Room/		Telecommunication s Consultants India Limited(23) Shapoorji Pallonji & Co. Pvt. Ltd.(24) Millennium Automation Private Ltd(19) VaaaN Infra Pvt. Ltd.(20) SCS TECH INDIA PVT. LTD.(21) Panamax (27) Sterlite technologies(26)



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			Communication Center/campuswide applications/Surveillance Control Room Orders covering Video analytics/Face Recognition/AI based video Summarization/unattended baggage/Object Tracking/crowd detection (The cumulative amount of successfully executed orders/projects should be minimum Rs. 02 Crores) 7. As per the scope of the project mentioned in the RFP the total numbers of cameras to be installed is 9989. The number of cameras (500 No's) asked in the qualification criteria is not as per govt guidelines, hence we request to revise the clause as One project / one order - 80% of the total cameras (9989) Two projects / two order - 50% of the total cameras (9989) Three project / Three order - 40% of the total cameras (9989) 8. Most of the Bidder such project are in on-going Stage so we Request you to consider on-going certificate to qualify in this clause so that this tender will get health competition. Orders covering Video analytics/Face Recognition (The cumulative amount of successfully executed / On-going orders/projects should be minimum Rs. 02 Crores) 9. We understand for supporting documents, self-declaration can be provided by Bidder for IT load 10. Request you to amend the clause as,"• At least one order covering Data Center with designed IT load of minimum 30KW excluding redundancy or DC value of INR 10 Cr." 11. Request you to amend the clause as,"• At least one order/project covering Surveillance projects		



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			minimum camera installation base of 500 1000 IP cameras in outdoor environment for a surveillance project with a single Town/City." 12. Request you to amend the clause as, " At least one order of minimum Rs. 05 10 Cr covering Command and control center/ City Control Room/ Communication Center" 13. In heading, you have mentioned "shall have successfully executed" and below you have asked for work orders. We understand that we need to share the work orders to meet the pre-qualification criteria. Please confirm! 14. There is inconsistency on the number / criteria for no. of years of experience required. Somewhere, its last 5 years, somewhere it is 3 years or 7 years. 15. Further in some clauses the t/o is calculated as annual and in other clauses the t/o is being calculated as average. Hence it is requested to suitably amend this clause 16. The QCBS clause applied here is not fair. In the prequal the bidder can have experience of any of the projects. While in QCBS certain type of project is being given extra weightage, which is not fair and just. For ex. Experience of ANPR is not asked in Pre-Qualification, while the experience of the same is being given extra weightage in QCBS. We request you to modify clause as below 17. The Sole Bidder / Any member in case of JV shall have successfully executed at least 3 components		



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			from below mentioned projects in last seven years (excluding civil work): • At least one order covering Data Center with designed IT load of minimum 30KW excluding redundancy. • At least one order/project covering minimum camera installation base of 500 IP cameras with a single Town/City. • At least one order covering Surveillance project including surveillance cameras, ICCC, VMS, and Video Analytics Software etc. • At least one order of minimum Rs. 05 Cr covering Command and control center/City Control Room/Communication Center • Orders covering Video analytics/Face Recognition (The cumulative amount of successfully executed orders/projects should be minimum Rs. 02 Crores) 18. Since this is the prestigious project for Delhi Police, both the partners shall meet the given PQ. 19. The Sole Bidder / Any member in case of JV shall have successfully executed below mentioned projects in last seven years (excluding civil work): • At least one order covering Data Center with designed IT load of minimum 30KW excluding redundancy. • At least one order/project covering Surveillance projects minimum camera installation base of 500 IP cameras in outdoor environment for a surveillance project with a single Town/City. • At least one order covering Surveillance project including surveillance cameras, ICCC, VMS, and Video Analytics Software etc.		



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			- At least one order of minimum Rs. 05 Cr covering Command and control center/City Control Room/ Communication Center - Orders covering Video analytics/Face Recognition (The cumulative amount of successfully executed orders/projects should be minimum Rs. 02 Crores) 20. We would request to relax/amend the clause as At least one order covering Data Center with designed IT load of minimum 30KW excluding redundancy OR order covering IT&ITeS/ICT We would request to relax/amend the clause as: At least one order/project covering Surveillance projects minimum camera installation base of 500 IP cameras in environment for a surveillance project with a single Town/City/Vehicles. We would request to relax/amend the clause as: At least one order covering Surveillance project including surveillance cameras, ICCV, VMS, and Video Analytics Software etc. OR order covering IT&ITeS/ICT we would request to relax/amend the clause as :Orders covering Video analytics/Face Recognition /order covering IT&ITeS/ICT (The cumulative amount of successfully executed orders/ projects should be minimum Rs. 02 Crores) 21. We request to please amend the following clause as under: The Sole Bidder / Any member in case of JV shall have successfully executed any two (2) below mentioned projects in last seven years (excluding civil work): - At least one order covering Data Center with designed IT load of minimum 30KW excluding redundancy.		



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			• At least one order/project covering Surveillance projects minimum camera installation base of 500 IP cameras in outdoor environment for a surveillance project with a single Town/City. • At least one order covering Surveillance project including surveillance cameras, ICCC, VMS, and Video Analytics Software etc. • At least one order of minimum Rs. 05 Cr covering Command and control center/ City/highways Control Room/ Communication Center • Orders covering Video analytics/Face Recognition (The cumulative amount of successfully executed orders/projects should be minimum Rs. 02 Crores) 22. Please change below criteria as below: "The Sole Bidder / Any member in case of JV shall have successfully executed below mentioned 3 projects out of 5 projects in last seven years (excluding civil work): • At least one order covering Data Center with designed IT load of minimum 30KW excluding redundancy. • At least one order/project covering Surveillance projects minimum camera installation base of 500 IP cameras in outdoor environment for a surveillance project with a single Town/City. • At least one order covering Surveillance project including surveillance cameras, ICCC, VMS, and Video Analytics Software etc. • At least one order of minimum Rs. 05 Cr covering Command and control center/ City Control Room/ Communication Center • Orders covering Video analytics/Face Recognition (The cumulative amount of successfully executed orders/projects should be minimum Rs. 02 Crores)"		



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			23. Our Parent company has vast experience (more than 10 years) in successful execution of projects as MSI for implementation for Smart Cities / Surveillance / Data Centers etc) and have executed big projects with multiple Govt. customers in various parts of the world. We (Indian Entity) would be leveraging our parent company's rich experience for execution of this project. Therefore we would request you to allow experience of the Parent company in abroad markets as well. 24. As per above mentioned DPIIT, Order No P-45021/2/2017-PP (BE-II). Dated 4th June, 2020 issued by Public Procurement Division, Department of Investment and Internal Trade, Ministry of Commerce, GoI, procuring entities shall endeavour to see that eligibility conditons do not result in resionalble exclusion of local classI/II supplier who would otherwise be eligible, beoyond what is essentioal for ensuring quality or credit to worthiness of the supplier. 25. The clause may kindly be relaxed as follows: The Sole Bidder / Any member in case of JV/Consortium or Its Technology Partner (OEM) shall have successfully executed below mentioned projects in last seven years (excluding civil work): i. At least one order covering Data Center with designed IT load of minimum 20KW excluding redundancy. ii. At least one order/project covering Surveillance projects minimum camera installation base of 500 IP cameras in outdoor environment for a surveillance project with a single Town/City.		



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			iii. At least one order covering Surveillance project including surveillance cameras, ICCC, VMS, and Video Analytics Software etc. iv. At least one order of minimum Rs. 02 Cr covering Command and control center/City Control Room/Communication Center. v. Orders covering Video analytics/Face Recognition (The cumulative amount of successfully executed orders/ projects should be minimum Rs. 01 Crores) 26. The Sole Bidder / Any member in case of JV shall have successfully executed below mentioned projects in last seven years (excluding civil work): At least one order/project covering Surveillance projects minimum camera installation base of 350 IP cameras or - 500 IP Cameras in cumulative orders in outdoor environment for a surveillance project with a single Town/City. 27. Kindly allow the bidder's or either of the JV partner's own commercial data center as a valid order/project for the requirement 28. Data centre projects that are owned by the bidder and are put to commercial use may also be considered 29. We request you to modify clause as below q. The Sole Bidder / Any member in case of JV shall have successfully executed at least 3 components from below		



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			mentioned projects in last seven years (excluding civil work): • At least one order covering Data Center with designed IT load of minimum 30KW excluding redundancy. • At least one order/project covering minimum camera installation base of 500 IP cameras with a single Town/City. • At least one order covering Surveillance project including surveillance cameras, ICCV, VMS, and Video Analytics Software etc. • At least one order of minimum Rs. 05 Cr covering Command and control center/ City Control Room/ Communication Center • Orders covering Video analytics/Face Recognition (The cumulative amount of successfully executed orders/projects should be minimum Rs. 02 Crores)		
	2.1.3 (A)r / 38 (01)	The sole bidder (the Lead bidder and members – in case of JV) must comply with the requirements stipulated in Office Memorandum: F/No/6/18/2019-PPD dated 23rd July, 2020, issued by Public Procurement Division, Department of Expenditure, Ministry of Finance and GoI.	The sole bidder (the Lead bidder and members – in case of JV/Consortium/Technology Partner (OEM)) must comply with the requirements stipulated in Office Memorandum: F/No/6/18/2019-PPD dated 23rd July, 2020, issued by Public Procurement Division, Department of Expenditure, Ministry of Finance and GoI.	Kindly refer corrigendum Refer Appendix II (Table 2.1.3)	Telecommunication s Consultants India Limited
	2.1.3 (A)s / 38 (08)	The solution offered must comply with the provisions of Order No P-45021/2/2017-PP (BE-II). Dated 4th June, 2020 issued by Public Procurement Division, Department of Investment and Internal Trade, Ministry of Commerce, GoI read with order	1. Please confirm that the compliance to this Office Memorandum can be achieved by the bidder through goods / services or works including implementation services / product supply / support services/ civil or electrical works under the project. 2. There is a latest Public Procurement (Preference to Make in India), Order 2017-Revision issued dated	Kindly refer corrigendum Refer Appendix II (Table 2.1.3)	HPE(1) Hewlett Packard Enterprise India Private Limited(1) VOLKSARA TECHNO SOLUTIONS



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		number W-43/4/2019-IPHW-MeitY, dated 7th September, 2020 issued by IPWH division of MeitY, GoI	16th September,2020; Order No P-45021/2/2017-PP (BE-II) issued by Public Procurement Section, Department of Promotion of Industry and Internal Trade, Ministry of Commerce and Industry. The same should be incorporated/applicable on this tender as per Government of India guidelines. 3. • As per the clause no “3. (a) Eligibility of ‘Class-I local supplier....’ of DPIIT Public Procurement (preference to Make-in -India) order 2017 dated 16th September, 2020, only Class-I local supplier is eligible to be bid. “In procurement of all goods, services and works in respect of which the Nodal Ministry/Department has communicated that there is sufficient local capacity and local competition, ‘only Class-I local supplier’ as defined under the order , shall be eligible to bid irrespective of the purchase value.” • CCTV is a notified product category and its covered under its Nodal Ministry i.e. Ministry of Telecom. The category is notified on page no. 4 of the notification dated 29th Aug 2018 of Ministry of Communications. • We hope that CDAC would ensure that only Class-I camera OEMs are eligible to participate in this bid. 4. For most of the Surveillance and Security requirement Department of Telecommunication (DOT) is the nodal agency so in addition to Meity notifications DoT Notification dated 29th August 2018 and its revision, if any may also be considered.		PRIVATE LIMITED(2,3) Samriddhi Automations Pvt Ltd (SPARSH)(2,3) Bharat Electronics Ltd(4)
	2.1.3 (B)I / 39 (09)	OEMs of Camera, VMS, ICCV, AI based Video Analytics Platform, FRS, ANPR should have Presence	1. Kindly also include the necessity that the VMS OEM has the development center, lab and local support in India to support the implementation and customisation of such a large project.	Kindly refer corrigendum	Matrix Security & Surveillance Pvt Ltd(1)



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		in India for last five years as on the bid issuance date.	2. Request you to allow all the OEMs who have done the similar nature and size of projects worldwide as we know many OEM's have authorized service partners in India instead of having a registered local address and their systems are running & performing for many years in India as well. 3. OEM Presense should be 2-3 years in India and minimum 10 years in their country of origin in case of a foreign OEM. Also as per Govt. initiatives recently, various companies have started manufacturing in last two-three years. 4. Request you to change revise the clause to "OEMs of Camera, VMS, ICC, AI based Video Analytics Platform, FRS, ANPR should have Presence in India for last three years as on the bid issuance date."	Refer Appendix II (Table 2.1.3)	Videonetics Technologies Pvt Ltd.(1) PruTech Solutions India Pvt. Ltd.(1) DAK Infosoft (P) Ltd(2) Bodhtree(1) ARYA COMMUNICATIONS AND ELECTRONICS SERVICES PVT.LTD(3) BHARAT ELECTRONICS LIMITED(3) Larsen & Toubro Ltd(4) IDIS Securitem Solutions Pvt. Ltd.(3)
	2.1.3 (B)II / 39 (06)	The OEM(s) of Camera, VMS, ICC should be a profit-making company and should have a positive net worth for last 03 years.	1. Considering the current fiscal have been marred by Covid. Can we make it "Any two(2) of the last 3 yrs, showing net positive worth". Cosidering the prevailing pandemic situation in current fiscal year, it is requested to kindly consider FY 2017- 2020 for Positive Net worth. The current year has severe impacts across the industries. 2. We understand that the intent of asking for the profitability of the OEM is to ensure that the OEM is financially capable. However, profitability is not the exact measure of Financial Capability of the organization as it could be misleading (Organization	Kindly refer corrigendum. Refer Appendix II (Table 2.1.3)	INTEC INFONET PVT. LTD.(1) Marushika Technology Advisors Pvt. Ltd.(1) M/s Intellve Solutions Ltd. R(2) Johnson Controls (2)



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			making Re. 1 as a profit will also qualify) but Network is certainly a Stronger Parameter. We would also like to highlight that OEMs for ICCC Software which are, only in the business of ICCC Software and not any other product, and are also Make in India are making huge investments in R&D which results them rendering non-profitable for their initial years. We (completely Make in India) are fully compliant to ICCC software Technical & Functional requirements specified in the RFP with positive Network for the last 03 consecutive Financial Years. Therefore, it is humbly requested to either delete the requirements of Profitability in this clause and Change the clause to "The OEM(s) of Camera, VMS, ICCC should have a positive net worth for last 03 years". 3. FRS, AI based VA & ANPR requires different level of expertise & integration in comparison to camera OEM, VMS & ICCC. Since Tender RFP mentioned Pre qualification criteria for OEM of camera, VMS & ICCC. It is our humble request to add pre qualification criteria of OEM for FRS, AI based VA & ANPR also separately as OEM should be a profit-making company and should have a positive net worth for last 03 years. 4. To ensure quality and proven products from proven OEMS, OEM PQ clauses has been asked in the RFP for most of the products. But somehow, OEM PQ for few of the important sub-systems are missed out in the RFP. We wish to highlight here that PQ criteria for OEM of camera, VMS & ICCC are captured in the RFP, but same for ANPR and AI based video analytics are missed out. Hence, we request you to kindly		vehant TECHNOLOGIES (3,4)



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			incorporate the PQ criteria for both as mentioned below- 1. OEM of the ANPR & AI based Video Analytics use cases should be a profit-making company and have a positive net worth for last 03 years. 2. OEM of ANPR system should have supplied above system in min 03 Safe Cities/Smart Cities projects in India and presence from last 05 Years.		
	2.1.3 (B)a-i / 39 (08)	OEM should have a minimum cumulative turnover of Rs. 200 Crores in last 02 financial years from the date of opening of tender.	1. The CCTV camera value as per asked 9989 camera quantities would not be more than 25 Crores. 200 Crores turnover asked is quite high and thus is a restrictive clause for Indian OEMs as per the clause no "10. Specifications in Tenders clause b" on page no 6 of DPIIT Public Procurement (preference to Make-in -India) order 2017 dated 16th September, 2020. "Procuring entities shall endeavour to see that eligibility conditions, including on matters like turnover, production capability and financial strength do not result in unreasonable exclusion of Class-I local supplier /Class-II local supplier..." Requesting you to amend the Clause as : a. Camera OEMs i. OEM should have a minimum cumulative turnover of Rs. 100 Crores in last 02 financial years from the date of opening of tender. 2. In entire RFP the requirements calls for last 3 Financial Years viz to "Positive Net Worth; Turnover, Profitability" for Bidders. Moreover, "Positive Net Worth & Profitability" for CCTV OEM has been asked for in last 3 Financial Years. The past experience has been asked for in last 5 years, whereas the turnover for CCTV OEM has been asked in last 2 financial years. We request to please amend this clause as below:	Kindly refer corrigendum Refer Appendix II (Table 2.1.3)	VOLKSARA TECHNO SOLUTIONS PRIVATE LIMITED(1) Samridhhi Automations Pvt Ltd (SPARSH)(1) Lookman Electroplast Industries Ltd(2) Masstrans Technologies Private Limited(3) RAH InfoTech (P) Ltd (4) Gurusons Communications Pvt. Ltd. (4) Impulse Networks(4) Gurusons Communications Pvt. Ltd.(4)



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			OEM should have a minimum cumulative turnover of Rs. 200 Crores in last 05 financial years from the date of opening of tender "OR" OEM should have a minimum cumulative turnover of Rs. 120 Crores in last 03 financial years from the date of opening of tender. 3. MSME to be entertained and encouraged, Request authority to decrease the turnover criteria from 200 cr to 30 cr. 4. Change/Amedment Requested: Kindly remove the clause Justification: Turnover clause should be applicable for bidders instead of OEM , Most of the OEM shall not comply with the turnover clause.		
	2.1.3 (B)a-ii / 39 (05)	OEM of IP CCTV cameras should have supplied at least 30,000 IP CCTV cameras in India or globally during the last 05 years	1. OEM of IP CCTV cameras should have supplied at least 10,000 IP CCTV cameras in India or globally during the last 05 years; Request you to reduce the camera supplied qty equal to the asked qty in the RFP i.e. 10000. 2. Request authority to decrease the supply no from 30000 to 1000 IP camera experience india or globally as in the very next point of OEM crietria ask for supply and installation experience of 1 project of 1000 cameras in last 5 years. Also there are very few cameras manufaturer who have this much of experience and seems this is oem specific clause.	Kindly refer corrigendum Refer Appendix II (Table 2.1.3)	Globalrays Technologies(1) PruTech Solutions India Pvt. Ltd.(1) Triflex Solutions(1) Bodhtree(1) Masstrans Technologiies Private Limited(2)
	2.1.3 (B)a-v / 39 (24)	OEM should have ISO certifications: ISO 9001; ISO 14000 & OHSAS 18001;2007/ISO 45001	1. Change/Amedment Requested: OEM should have ISO certifications: ISO 9001; ISO 14000. Justification : Kindly remove OHSAS as it is not available with most of the OEM and it is not the certification for quality as well , asking for OHSAS shall limit the competition.	Kindly refer corrigendum Refer Appendix II (Table 2.1.3)	Gurusons Communication s Pvt. Ltd. (1) ARYA COMMUNICATI ONS AND ELECTRONICS



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			2. Remove OHSAS 18001; 2007/ISO45001 as it is almost eliminating the competition and also not a standard certification with most of OEMs for CCTV equipment manufacturers. 3. Kindly Amend the clause " OEM should have ISO certifications: ISO 9001; ISO 14000 / OHSAS 18001;2007/ ISO 45001 / Equivalent 4. Request you to consider to amend the clause i.e. Certification :-ISO 9001,ISO 14000/ OHSAS 18001:2007/ISO 45001/equivalent; Justification : As per industry standard ISO 9001:ISO14000 are widely accepted in the industry . So request you to please keep OHSAS 18001:2007/ISO45001 as optional. 5. OEM should have ISO certifications: ISO 9001; ISO 14000 & OHSAS 18001;2007/ISO 45001/ISO 27001; For Camera OEMs, required ISOs are 9001, 14001 & 27001 so request you to add ISO 27001 in the option with OHSAS 18001 & ISO 45001. 6. Request you to consider to amend the clause i.e. Certification :-ISO 9001,ISO 14000/ OHSAS 18001:2007/ISO 45001/equivalent 7. Please share the background for this criteria.		SERVICES PVT.LTD(2) Larsen & Toubro Ltd(3) Impulse Networks(1) BHARAT ELECTRONICS LIMITED(2) RAH InfoTech (P) Ltd(1) IDIS Securitatem Solutiones Pvt. Ltd.(2) Marushika Technology Advisors Pvt. Ltd.(4) HPE(4) Telecommunication s Consultants India Limited(4) Hewlett Packard Enterprise India Private Limited(4) INTEC INFONET PVT. LTD.(4) Samsung SDS India Pvt Ltd.(4) NEC Corporation India Pvt. Ltd.(4) VIVOTEK INC(6)



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					Transline Technologies Pvt. Ltd.(4) DAK Infosoft (P) Ltd(4) Globalrays Technologies(5) PruTech Solutions India Pvt. Ltd.(5) Bodhtree(5) Triflex Solutions(5)
	2.1.3 (B)a-vii / 39 (13)	OEM should have its own Repair/Service-Support center in the country and must own its RMA set up in India for a minimum of 05 years from the date of submission of bid (not as joint venture, partnership firms or through any other association). In case of product failure OEM should replace malfunction product with equivalent working product immediately till the repaired or alternate product received.	1. Request to amend as follows: OEM should have its own Repair/Service-Support center in the country and must own its RMA set up in India for a minimum of 05 years from the date of submission of bid (not as joint venture, partnership firms or through any other association). In case of product failure OEM should replace malfunction product with equivalent working product immediately till the repaired or alternate product received 2. Since many products offered by OEMs now a days offer replacement warranty the emphasis on RMA of its own has reduced. The products are immediately available for replacement through distributors and stockist managed by OEMs. OEMs have better reach of services and RMA support Pan India through their established associated partners. Also as per Govt. initiatives recently, various companies have started manufacturing in last two three years. Please change the criteria of 5 years to 2 years and should have direct RMA support or through their partners.	Kindly Refer Corrigendum Refer Appendix II (Table 2.1.3)	Honeywell(1) IDIS Securitem Solutions Pvt. Ltd.(2) BHARAT ELECTRONICS LIMITED(2) ARYA COMMUNICATIONS AND ELECTRONICS SERVICES PVT.LTD(2) HFCL Limited(3) Elkosta Security Systems India(4) Hewlett Packard Enterprise India Private Limited(5) HPE(5) Triflex Solutions(6)



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			3. To have a fair competition, please change the clause as OEM should have service center across India and local center in Delhi. In case of product failure OEM should replace malfunction product with equivalent working product immediately till the repaired or alternate product received. 4. Oem should have serive center across India and local center in Delhi. In case of product failure OEM should replace malfunction product with equivalent working product immediately till the repaired or alternate product received. 5. Please share the background for this criteria. 6. OEM should have its own Repair/Service-Support center in the country and must have presence in India for a minimum of 05 years from the date of submission of bid (not as joint venture, partnership firms or through any other association). In case of product failure OEM should replace malfunction product with equivalent working product immediately till the repaired or alternate product received. Request you to ask the Camera OEM presence in India as RMA/Service-support center presence should be required before the bid submission date.		Bodhtree(6) PruTech Solutions India Pvt. Ltd.(6) Globalrays Technologies(6)
	2.1.3 (B)b-i,ii,iii / 39 (02)	i. OEM of C4I should have Installation base of at least 05 Safe City Projects / Smart Cities in India or globally during the last 05 years, at least with one project with Bigdata Correlation engine/ platform. ii. OEM of C4I should have supplied at least 3 + Sub System	1. If the OEM has relevant experience but not in smart City or globally will that OEM will be acceptable? Any indian certifying Laboratory shall mean? 2. "To encourage Indian MSME companies having established and stable track records in R&D, Software development & support, we request to add	Kindly Refer Corrigendum Refer Appendix II (Table 2.1.3)	Sterlite Technologies(1) Lookman Electroplast Industries Ltd(2) Qognify Transline Technologies



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		Integration in single order during the last 05 years in India or globally. iii. ICCC should have cyber-Security certifications from UL or equivalent from any Indian	the following options also as part of OEM of C4i credentials. i:OEM of C4i should have Installation base of at least 05 Safe City Projects /Smart Cities in India or globally during the last 05 years, at least with one project with Bigdata Correlation engine/platform. ii:OEM of C4I should have supplied at least 3 + Sub System Integration in single order during the last 05 years in India or globally. iii:ICCC should have cyber Security certifications from UL or equivalent from any Indian certifying laboratory OR i OEM of C4i should be an Indian OEM ii ICCC OEM should have Recognized R&D center in India from any government body iii OEM of C4i should have direct software support center in India and shall undertake to open the software development facility at Delhi/ Pune in case the work has been awarded to them " 3. We would recommend to ask more than 8 + sub system integration in single order during the last 05 years in India or globally as Project need more than 3 integrations 4. Request you to Modify it as: OEM of ICCC OEM of C4I should have Installation base of at least 05 Safe City Projects / Smart Cities in India or globally during the last 05 years		
	2.1.3 (B)b-I / 39 (25)	OEM of C4I should have Installation base of at least 05 Safe City Projects / Smart Cities in India or globally during the last 05 years, at least with one project	1. Request to modify the clause as below: OEM of C4I should have Installation base of at least 5 Pandemic Handling / Crisis management / Safe City Projects in India or globally during the last 5 years	Kindly Refer Corrigendum Refer Appendix II (Table 2.1.3)	Quantela Technologies Pvt(1) Larsen & Toubro Ltd(2) Quantela(1,9)



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		with Bigdata Correlation engine/platform.	2. Request to modify the clause as below: OEM of C4I should have Installation base of at least 05 Safe City Projects / Smart Cities in India or globally during the last 05 years. 3. As ICCS platform are deployed indifferent verticals as per the requirement f the different project. Hence we request to amend the clause as below: OEM/SI of C4I should have Installation base of at least 05 Safe City Projects / Smart Cities/Any Vertical in India or globally during the last 05 years, at least with one project with Bigdata Correlation engine/platform. 4. Request you to Modify it as: OEM of ICCS OEM of C4I should have Installation base of at least 05 Safe City Projects / Smart Cities in India or globally during the last 05 years. Considering big data correlation in eligibility criteria will restrict the participation. It is being fulfilled by one OEM only. Henceforth, it is requested to remove the highly restrictive clause. 5. We request you to kindly amend the OEM PQ as below :- "OEM of ICCS. OEM of C4I should have Installation base of at least 05 Safe City Projects /Smart Cities / in any project headed by Law enforcement agency in India or globally during the last 05 years" 6. We have Bigdata and Analytics capability in the proposed platform but proving Bigdata engine deployment would not be possible as Purchase orders only reflects Product name not the internal modules / capabilities. Request you to Modify it as:OEM of ICCS. OEM of C4I should have Installation base of at least 05 Safe City Projects /Smart Cities /		EFKON India Pvt. Ltd (3) Marushika Technology Advisors Pvt. Ltd. (4,12) Techspire Services Pvt. Ltd. (4) Samsung SDS India Pvt Ltd. (5) Online Micro Services Private Limited (4) INTEC INFONET PVT. LTD. (4,12) Transline Technologies Pvt. Ltd. (4) SCS TECH INDIA PVT. LTD. (6) Hexagon(7) Johnson Controls (8,10) M/s Intellve Solutions Ltd. R(8) IQuantela Technologies Pvt(9) PruTech Solutions India Pvt. Ltd.(10) i2V Systems Pvt. Ltd(10) Bodhtree(10)



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			in any project headed by Police Department India or globally during the last 05 years 7. We have done UP and MP Safe city and running the solution from last 4-5 years and have Showcased Bigdata and Analytics capability in the proposed platform in respective states .The PO received to us by respective partners have not mentioned Big Data and Analytics in our scope of work . Hence we request you to kindly ammaned the OEM PQ as below :- 8. OEM of ICC. OEM of C4I should have Installation base of at least 05 Safe City Projects / Smart Cities / in any project headed by Law enforcement agency in India or globally during the last 05 years"" 9. It is requested to change the clause to "OEM of C4I should have Installation base of at least 02 Safe City Projects /Smart Cities in India or globally during the last 05 years, at least with one project with Bigdata Correlation engine/platform" to allow larger participation of the OEMs especially the Make in India OEMs. 10. Can we consider "The platform should have capability to store and provide real time data & historical data from various connected devices for reporting and analytics".Enabling contextual information and correlation across domains and verticals (Multiple vendor and Multi-sensor) 11. We Hereby request you to please Amend the Clause as "OEM of C4I should have Installation base of at least 03 Safe City Projects / Smart Cities / Outdoor Environment's / Central or State PSU's /		Hitachi Vantara India Pvt Ltd(11) VMS and ICC(12) Fluent grid Limited



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			Railways / Defense Projects in India or globally during the last 05 years." 12. Can we please request : OEM of C4I should have Installation base of at least 03 Safe City Projects / Smart cities in India or globally during the last 5 years to provide larger participation and atleast 1 eGov project implemented, as Delhi safe city will have multiple Govt department integrations. Request to remove Bigdata Correlation engine/platform as this is giving leverage to specific OEM and creating a hindrance to participate for other OEM. Considering big data correlation in eligibility criteria will restrict the participation. It is being fulfilled by one OEM only. Henceforth, it is requested to remove the highly restrictive clause. This is a restrictive clause as most of the Indian OEMs will fail to meet this clause, hence we request to kindly amend the clause as below. OEM of C4I should have implemented at least 03 Safe City Projects / Smart Cities in India or globally during the last 05 years, at least with one project with Bigdata Correlation engine/platform.		
	2.1.3 (B)b-ii / 40 (09)	OEM of C4I should have supplied at least 3 + Sub System Integration in single order during the last 05 years in India or globally.	1. Bidder requests to permit OEM Company Secretary / Authorised Signatory signed undertaking with details of such projects as PO / Contract Order may not be shareable due to NDA. 2. Can we please request, along with this the OEM should have readily available integration of VMS/VA/CAD etc in a single application which is web	Kindly Refer Corrigendum Refer Appendix II (Table 2.1.3)	Hewlett Packard Enterprise India Private Limited(1) Hitachi Vantara India Pvt Ltd(2) Transline Technologies Pvt. Ltd.(3)



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			based to avoid client -server architecture failures and additional licenses 3. We would recommend to ask more than 8 + sub system integration in single order during the last 05 years in India or globally as Project need more than 3 integrations		INTEC INFONET PVT. LTD.(3) VMS and ICC(3) Marushika Technology Advisors Pvt. Ltd.(3) HPE(1)
	2.1.3 (B)b-iii / 40 (26)	ICCC should have cyber Security certifications from UL or equivalent from any Indian certifying laboratory	1 Bidder requests to clarify which all Security Certifications will be accepted / covered under the OEM Security certification asked for , and what is the minimum certification required to meet this clause. 2 Security testing is done as a part of BBMP and Gurugram implementation by third party vendor and we have the security testing reports available. The same can be adopted for this project also and the security testing will be done by a third party agency and the report will be submitted to Customer-for your consideration please. 3 "As VAPT & STQC activity will be carried out after commissioning and before Go-live and all applications will go through this and OEM will fix any vulnerability detected. Also, global OEMs are allowed, Hence request you to modify to "ICCC should provide cyber Security certifications from UL or equivalent from any competent certifying authority/ organisation before go-live"" 4 We Hereby request you to please Amend this Clause as: "ICCC should have cyber Security Certifications/Information Security Systems from UL or Equivalent from any Indian Certifying Laboratory." 5 Please confirm if VAPT certification from other deployments will suffice for this requirement. 6 UL is a global certification and as per our knowledge no Command Center Platform has UL	Kindly Refer Corrigendum Refer Appendix II (Table 2.1.3)	HPE(1) Hewlett Packard Enterprise India Private Limited(1) Quantela(2) NEC Corporation India Pvt. Ltd. (3) i2V Systems Pvt. Ltd(4) IQuantela Technologies Pvt(5) Matrix Security & Surveillance Pvt Ltd(6) Marushika Technology Advisors Pvt. Ltd. (7) Hexagon(8) Johnson Controls (4,12) PruTech Solutions India Pvt. Ltd. (4)



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			Certification.Currently only one OEM(C4i and VMS) in the world holds UL cybersecurity certification. Detailed POC requirement for Cyber Security aspect of ICCC has already been sought in RFP. Any OEM will not be able to meet the acceptance criteria of POC without adhering to Cyber Security Guidelines. We are an Indian OEM compliant ISO 27001 and OWASP standards. Hence we request to kindly allow self certification from OEM in lieu of UL certification. 7 Please delete this Clause : Requesting to please remove this clause. This is specific and restricting the participation for fair competition. 8 We are a global player and have all the necessary cyber security certification from leading agencies . Hence we request you to broaden the certification agencies .Kindly ammend the clause as below :-ICCC should have cyber Security certifications from UL or ISO and CMMI 5 Certifications . 9 Please delete this Clause 10 We request you to broaden the certification agencies .Kindly amend the clause as below :- ICCC should have cyber Security certifications from UL or ISO and CMMI 5 Certifications. 11 Please modify it as : ICCC should have cyber Security certifications from UL or ISO and CMMI 5 Certifications . 12 This requirement is prohibitive in nature & specific to 1 OEM only and as such has not been asked for any Safe City / Smart City project in India till date. Therefore it is requested to Delte this clause in its entirety. 13 "ISO 27001 is an IT security Management Certification,which ensures the adherence with security management standards. Hence we request to amend the clause as below:iii. ICCC OEM should		Trinity Mobility(6) Honeywell Automation India Ltd. (6) INTEC INFONET PVT. LTD. (7) Online Micro Services Private Limited (9) Samsung SDS India Pvt Ltd. (10) Techspire Services Pvt. Ltd. (9) SCS TECH INDIA PVT. LTD. (11) Transline Technologies Pvt. Ltd. (9) Bodhtree(4) Honeywell(6) M/s Intellve So lutions Ltd. R(12) EFKON India Pvt. Ltd (13)



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			have cyber Security certifications from UL or equivalent from any Indian certifying laboratory or should have valid ISO/IEC 27001 certificate." 14 This requirement is prohibitive in nature & specific to 1 OEM only and as such has not been asked for any Safe City / Smart City project in India till date. Therefore it is requested to Delete this clause in its entirety.		
	2.1.3 (B)c-i / 40 (13)	OEM of VMS should have supplied at least 50,000 cameras Licenses in India or globally in qualifying orders during the last 05 years	1. Bidder requests to permit OEM Company Secretary / Authorised Signatory signed undertaking with details of such projects as PO / Contract Order may not be shareable due to NDA. 2. Kindly note that surveillance being evolving application in India, very limited OEMs will qualify for the given quantity and restrict the competition therefore request to Modify the Clause " VMS/OEM of VMS should have supplied at least 15,000 to 20,000 cameras Licenses in India or globally in qualifying orders during the last 05 years" 3. Request to allow OEM with VMS supplied for atleast 1 project with 500 cameras registered to the centrally monitored VMS for City surveillance / Police department projects 4. We would recommend to change for 50000 to 20000 cameras licenses for open and fair competition. This clause is highly restrictive incedently favoring one OEM only. Requested to make it open for fair participation and competition by making it to 20000 licences. 5. This Clause is Restrictive & OEM Specific. We Hereby request you to please Amend this Clause as "OEM of VMS should have supplied at least 15,000	Kindly Refer Corrigendum Refer Appendix II (Table 2.1.3)	Hewlett Packard Enterprise India Private Limited(1) HPE(1) HFCL Limited(2) Lookman Electroplast Industries Ltd(3) Marushika Technology Advisors Pvt. Ltd. (4) PruTech Solutions India Pvt. Ltd. (5) Transline Technologies Pvt. Ltd. (6) Johnson Controls (5) i2V Systems Pvt. Ltd(5) INTEC INFONET PVT. LTD. (4) Bodhtree(5)



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			cameras Licenses in India or globally in qualifying orders during the last 05 years" 6. We would recommend to change from 50000 to 30000 cameras licenses for open and fair competition. 7. We would recommend to change for 50000 to 20000 cameras licenses for open and fair competition.		
	2.1.3 (B)c-ii / 40 (0x)	c. OEM of VMS ii. OEM certifications • VMS Should be ONVIF Profile S & G. • Should also roadmap of ONVIF Profile T/Q. Declaration for the same to be provided.	1. "Request to please change to: c. OEM of VMS ii. OEM certifications • VMS Should be ONVIF Profile." 2. We would recommend to remove this requirement for open and fair competition. This clause is highly restrictive incedently favoring one OEM only. Requested to remove this clause. 3. In order to ensure wider OEM participation, request you to remove this clause. 4. We would recommend to remove this requirement for open and fair competition. Since ONIVF T Compliance has been there from a Long time now, We Hereby Suggest that the VMS should be ONVIF S, G & T Compliant from Day 1 from the Date of Publishing of the RFP. Kindly Remove onvif suspension clause . We suggest to check onvif compliance on the date of bidding of product or in time period after the tender is released the products should be onvif	Kindly Refer Corrigendum Refer Appendix II (Table 2.1.3)	Honeywell Automation India Ltd.(1) Honeywell(1) Marushika Technology Advisors Pvt. Ltd.(3) Sterlite Technologies Limited(3) Transline Technologies Pvt. Ltd. (4) VMS and ICC(4) INTEC INFONET PVT. LTD. (3) i2V Systems Pvt. Ltd(5) Johnson Controls(5) RADIUS INFOTECH
	2.1.3 (B)d-i / 40	d. AI Based Video Analytics Platform	1. Bidder requests to permit OEM Company Secretary / Authorised Signatory signed undertaking	Kindly Refer Corrigendum	HPE(1,2)



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	(14)	i. OEM must have supplied AI based Video Analytics platform in minimum 02 Safe Cities/Smart Cities with at least 03 AI based Video Analytics use- cases projects in India and presence from last 05 Years.	with details of such projects as PO / Contract Order may not be shareable due to NDA. 2. Bidder request to allow for Global projects for the OEM, with change as below - i. OEM must have supplied AI based Video Analytics platform in minimum 02 Safe Cities/Smart Cities with at least 03 AI based Video Analytics use- cases projects in India / Globally and presence from last 05 Years. 3. Bidder requests to permit OEM Company Secretary / Authorised Signatory signed undertaking with details of such projects as PO / Contract Order may not be shareable due to NDA. 4. Please clarify what all sub-systems this term include or it represents only Video analytics. 5. Please allow project reference & OEMs from worldwide as we hardly have similar size implementation in Indian cities that are running successfully. 6. We Hereby request you to please Amend the Clause as : "OEM must have supplied AI based Video Analytics platform in minimum 02 Safe Cities/Smart Cities / Outdoor Environment's / Central or State PSU's / Railways / Defense Projects with at least 03 AI based Video Analytics use- cases projects in India and presence from last 05 Years." 7. "As per RFP specifications, ""AI based Video Analytics platform"" and ""AI based Video Analytics use cases"" should be independant sub-systems. Also, the required ""AI based Video Analytics platform"" have unique specifications which no	Refer Appendix II (Table 2.1.3)	Hewlett Packard Enterprise India Private Limited(1,2) DAK Infosoft (P) Ltd(3,4) PruTech Solutions India Pvt. Ltd. (5) vehant TECHNOLOGIES (6,7) vehant TECHNOLOGIES (6,7) Johnson Controls (5) i2V Systems Pvt. Ltd(5) Bodhtree(5)



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			Indian software OEM will be able to comply & supply. It is available with FOREIGN OEMs only. Moreover, such a platform will have no value additions and the project functional requirement can be met by the AI based Analytics Use cases software platform. Such a ""AI based Video Analytics platform"" is just overkill, OEM specific and restrictive for Indian OEMs and violating DIPP, MOHUA & MEITY guidelines by not allowing Domestic OEMs to participate in the tender. Hence, we request you to make AI based video analytics Use cases independent of the ""AI based Video Analytics platform"" and exclude ""AI based Video Analytics platform"" from the scope of the RFP. Further we request you to amend the clause as- "OEM must have supplied AI based Video Analytics use cases in minimum 02 Safe Cities/Smart Cities projects in India and presence from last 05 Years." 8. "Referring to DIPP guidelines required video analytics platform is not supplied into safe cities/smart cities in India by Indian OEMs & Hence it is restrictive for such Reputed Indian OEMs to participate. Hence, we request you to amend the clause as: "OEM must have supplied AI based Video Analytics use cases in minimum 02 Safe Cities/Smart Cities projects in India and presence from last 05 Years."		
	2.1.3 (B)e-ii / 40 (06)	OEM of server should be validated with offered ICCS and VMS software with minimum one year of existence	1. This is a restrictive clause as SI's will have limited certified options to propose in this RFP. There are a number of Indian startups and MSME's having offering in ICCS and VMS SW domain which are certified to run on generic x86 servers and not necessarily with a reputed brand of server OEM. Therefore request authority to delete this clause, so	Kindly Refer Corrigendum Refer Appendix II (Table 2.1.3)	Hewlett Packard Enterprise India Private Limited(1) Cisco(2) HPE(1)



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			that SI is open to propose his choice of ICCC and VMS SW as per scope of work asked in tender. 2. Server specs for running ICCC and VMS software has already been specified. All leading server OEMs go for certifying their servers for compatible OS/Hypervisors on which ICCC, VMS and other analytics applications will run. Hence, asking validation from offered ICCC and VMS software on server with min 1 year of existence may restrict leading OEM participation. Also, previous clause i has already asked "OEM must have supplied servers in minimum 02 Safe Cities/Smart Cities projects in India" which is meeting this clause requirement except validation from ICCC and VMS software. In view of the above and in order to enable leading OEM participation, kindly remove this clause.		Matrix Security & Surveillance Pvt Ltd(1)
	2.1.3 (B)f-i / 40 (07)	OEM should have successfully completed at least one order for supply and installation of minimum 08 PiB scale out NAS Storage in India.	1. Scale out NAS is the latest technology offering and asking implementation of min 08 PiB scale out NAS in India restricts leading OEM participation. Relaxing this clause will not have any impact on the desired functionality of the solution and hence request you to kindly relax this clause as "i. OEM should have successfully completed at least one order for supply and installation of minimum 08 PiB scale out NAS Storage in India/Globally." 2. Suggestive Input / Requested Change OEM should have successfully completed at least one order for supply and installation of minimum 6 PB scale out NAS Storage / Storage in India. 3. We request to kindly allow us to show worldwide references or allow to show storage with similar of higher capacity with PFS storage with higher capacity and Performance with same model number in India	Kindly Refer Corrigendum Refer Appendix II (Table 2.1.3)	Cisco(1) SCS TECH INDIA PVT. LTD.(4) HPE(2) Hewlett Packard Enterprise India Private Limited(2) DDN(3)



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			4. Justification: The Global OEMs would have deployed unified/NAS storage array for a similar surveillance requirement across the globe and hence should be accepted as a reference. OEM should have successfully completed at least one order for supply and installation of minimum 08 PiB scale out NAS/Unified Storage in India/Globally. The RFP include ambiguities related to product selection and indicate that it is favouring a specific OEM and most of the pre-qualifications, technical asks are a perfect fit for a specific OEM on Storage Infrastructure. For example - though the references are been asked for Scale-Out deployment, RFP itself is allowing the DR to be build on SAN storage. With SAN storage VMS have to be provisioned with FCP or iSCSI protocols, indicating that department believes that SAN storage may also be a possible way of implementing Surveillance Solutions. It should also be noted that Department may have selected SAN storage at Near DRC because: 1. SAN Storage solution in a distributed/federated approach can be 30%-35% cheaper than Scale-Out Deployments. 2. VMS is agnostic to Storage Platform either Scale-Out, SAN or Unified. 3. Or lastly, the Scale-Out storage which is favouring one specific OEM does not provide SAN capabilities like FCP. Considering that Department itself has allowed DR on SAN storage the pre-qualification should be opened for any reference by OEM on any storage system for surveillance in India.		



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			Hence we request you to change this clause and read it as: OEM should have successfully completed at least one order/solution for supply and installation of minimum 08 PiB scale out NAS Storage Solution in India.		
	2.1.3 (B)g-i / 40 (0x)	g. OEM of UPS i. Offered Product should be OEM own Designed, Developed & Manufactured, OEM should have certificate of incorporation in INDIA for >10 Years	Pls confirm if UPS EOM should have manufacturing base also from last 10 years in India.	Kindly Refer Corrigendum Refer Appendix II (Table 2.1.3)	Telecommunication s Consultants India Limited Elkosta Security Systems India Tech Mahindra Modi Infosol Pvt. Ltd. Eaton Power Quality Pvt.Ltd.
	2.1.3 (B)g-ii / 40 (05)	g. OEM of UPS ii. At least one order covering minimum installation base of 1000 outdoor UPS for a project.	1. At least one order covering minimum installation base of 750 outdoor UPS for a project. 2. We request you to kindly amend this clause as "Minimum 250nos in single Project & 1000nos cumulative in last Three Financial Years" & oblige.	Kindly Refer Corrigendum Refer Appendix II (Table 2.1.3)	Telecommunication s Consultants India Limited(1) SWITCHING AVO ELECTRO POWER LTD(1) NEC Corporation India Pvt. Ltd.(2) Microtek International Pvt. Ltd(2) Suttantra(2)
	2.1.3 (B)c-iii / 40 (04)	g. OEM of UPS iii. OEM Should have ISO 9001 or ISO 14001 certificate for Manufacturing facility from reputed Agency.	This is a Statewide project hence quality OEM should be allowed, OEM should be qualified with ISO 9001 and ISO 14001 and ISO 45001:2018 (Occupational Health and Safety Management System)	As per RFP (Minimum is ask, MSI can quote above)	Elkosta Security Systems India Telecommunication s Consultants India Limited Modi Infosol Pvt. Ltd.



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					Eaton Power Quality Pvt.Ltd.
	2.1.3 (B)c-iv / 40 (06)	g. OEM of UPS iv. OEM Should have annual turnover of > 100 CR for consecutive 03 Years and same should be authorize from Reputed Agency.	1. There are multiple importers / white label supplier having turnover of 100 Cr showcasing themselves as UPS OEM's. To have better product quality, servicability of product for long time, we recommend to consider reputed UPS OEM's with a turnover of > 400 Crores for consecutive 3 Years. 2. Please confirm, if > 100 Cr turnover for concecutive 3 years is applicable for both i.e. Single Phase UPS 1 to 10 KVA as well as Three Phase UPS >10 kVA	Refer Appendix II (Table 2.1.3)	Echelon Edge Elkosta Security Systems India(1) Schneider Electric(2) Telecommunication s Consultants India Limited(2) Modi Infosol Pvt. Ltd. (2) Eaton Power Quality Pvt.Ltd. (2)
	2.1.3 (B)c-ii&iv / 40 (03)	g. OEM of UPS ii. At least one order covering minimum installation base of 1000 outdoor UPS for a project. iv. OEM Should have annual turnover of > 100 CR for consecutive 03 Years and same should be authorize from Reputed Agency	Bidder submits that the UPS OEMs with 1000 outdoor UPS experience and 100 Cr INR Turnover may be limited in India and hence this is restrctive clause, and hence we request to revise the clause to 300 outdoor UPS experience and INR 50 Crore Turnover for the last three years.	Kindly Refer Corrigendum Refer Appendix II (Table 2.1.3)	HPE Hewlett Packard Enterprise India Private Limited
	2.1.3 (B)c-v / 40 (0x)	v. OEM should have its own Repair/Service-Support center in India from the date of submission of bid (not as joint venture, partnership firms or through any other association). In case of product failure OEM should replace malfunction product with equivalent working product immediately till the repaired or alternate product received.	UPS OEM Should have dedicated 24 X 7 call centre for installation call and service complaint logging. Email id and toll free number to be shared in bid.	Kindly Refer Corrigendum Refer Appendix II (Table 2.1.3)	Telecommunication s Consultants India Limited



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	2.1.3 Note-i / 40 (01)	Notes: i. Bidders are advised to submit necessary and sufficient documents in support of eligibility criteria stipulated above.	We request you kindly to incorporate following clause as part of the bid:- 1. Global Technical Experience is allowed for pre-qualification & technical evaluation of the Bidders. 2. Parent Company or Group Companies with same parent or 100% subsidiary, division, sub-division or branch or business unit of the Service provider's certifications and project experience would be considered. 3. In case the technical experience shown is that of the bidder's parent / 100% subsidiary /sister concern company/ Group companies having same parent ultimate, than the following additional documents are required: - a.Certificate signed by the Company Secretary/statutory Auditor/2 Board of Directors of the bidder certifying that the entity whose experience is shown is parent/subsidiary/sister concern Company. b. Shareholding pattern of the bidding entity as per audit reports. 4. For all the project experience, following documentary evidences are required: • Work order / Contract / Completion certificate clearly highlighting the scope of work, Bill of Material and value of the contract/order. Completion Certificate shall be issued & signed by the authorized signatory of the client entity on the entity's Letterhead • In case project is on-going a certificate from Client/ Chartered Accountant/Statutory Auditor has to be provided, mentioning that at least 80% of the Capex work has been completed. • In case of international projects where NDA is signed, the Bidder needs to submit on its letter-head the scope of work, Bill of Material and value of the	Kindly refer corrigendum	NEC Corporation India Pvt. Ltd.



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			contract/order duly signed by its Company Secretary (registered with Ministry of Corporate Affairs)/Board of Director		
	2.1.3 Note-iii / 40 (04)	Notes: iii. C-DAC reserves the right to award the Contract in compliance with the Make in India Initiative /directives issued by GoI and polices towards MSME.	1. For 3 Phase 400 kVA, it is defined it as Product shall be made in India whereas for Single phase UPS upto 10 KVA and 3 Phase UPS 150 kVA it is not mentioned. Please confirm if the same i.e. Made in India is applicable to all the other UPS ratings as well. 2. As such, (DPIT)'s Public Procurement (Preference to Make in India) Order, vide No. P-45021/2/2017-PP (BE-II) dated May 29, 2019 and revision dated 4th June, 2020 may please be specified in Tender. This was also clarified in MOM (Page 47) of the Pre-bid meeting of MHA Delhi Police Tender No.: 595/CSA (Q-1A)/DCP/P&L/2019. 3. to promote Domestic Manufacturing of Telecom equipment in India, Govt of India, via Department for Promotion of Industry and Internal Trade (DPIT) has issued clear guidelines to be incorporated in Public tender for procurement of Goods from Domestic OEMs. to promote Domestic Manufacturing of Telecom equipment in India, Govt of India, via Department for Promotion of Industry and Internal Trade (DPIT) has issued clear guidelines to be incorporated in Public tender for procurement of Goods from Domestic OEMs. As such, (DPIT)'s Public Procurement (Preference to Make in India) Order, vide No. P-45021/2/2017-PP (BE-II) dated May 29, 2019 and revision dated 4th June, 2020 may please be specified in Tender. This was also clarified in MOM (Page 47) of the Pre-bid meeting of MHA Delhi Police Tender No.: 595/CSA (Q-1A)/DCP/P&L/2019.	Kindly Refer Corrigendum Refer Appendix II (Table 2.1.3) (Clarification: All the instructions issued by Govt. of India will be followed.)	Schneider Electric(1) Tejas Networks Ltd(2,3)



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			The above DPIT guidelines are also mentioned in below Public tenders :1. MHA Delhi Police Tender No.: 595/CSA (Q- 1A)/DCP/P&L/2019. 2. Delhi Police Tender No. 579/CSA (Q-1A)/DCP/P&L/2019. 3. Dholera Smart City Ref: RFP No. DICDL/AA/ICT/MSI- 02 dated 05-03-2020. 4. Bareilly smart city Ref: TENDER No. BSCL/2019-2020/203-01 Dated 03/01/2020. 5. Lucknow Safe City project, Bid No. WPL -HC-Budget (N)-2/2019 RFP for Proposal for Integrated Smart Control Room (ISCR) for Safe City Lucknow Project Under Nirbhaya. 6. Kolkata Police Safe City TENDER NOTICE No. : WBKP/CP/NIT-123/FOC&CCTV CAMERA/TEN, Dated : 27.02.2020.Further, for specified networking/telecom equipment, DoT has issued clear guidelines for Domestic Value Addition of OEM as per Gazette notification date 29.08.2018 [PublicProcurement (Preference to Make in India) Order 2017- Notification of Telecom Products, Services or Works - regarding]. This Gazette notification also specifies the Local Content (70%) in the Telecom Services/Works Tender (page 15, Sr. no. 36). LC 70% was included in RailTel's Nirbhaya Tender No. RailTel/Tender/OT/CO/P/2018-19/CCTV at stations & in Coaches/472 Dated 24.09.2019 The above may please be specified in Tender.		
	2.1.4 / 41 (0x)	Exemptions If in the view of bidder, any exemption/relaxation is/are applicable to them from any of the eligibility/pre-qualification requirements, under any Rules, process, Guidelines, Directives of	Pls clarify the exemptions available on PQ and TQ before the bid submission to all, so that bidders can search for products in accordance.	Kindly refer corrigendum	HPE Hewlett Packard Enterprise India Private Limited



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		Government of India, bidder may submit their claim for the applicable exemption/relaxation, quoting the valid Rule, process, Guidelines or Directives. In this case the bidder should submit their request for claiming concession/exemption from any particular criteria enclosing the necessary and sufficient valid documents along with the technical bid, in support of their claim.			
	2.1.8 (b) / 42 (03)	b. Stage 2: Technical Evaluation	1. Pls refer GFR chapter-6 Rules 2017. (Document attached) 2. QCBS can be applicable to only Consultancy project and other services in certain contexts. There is no mention of QCBS in Procurement of goods. The clause may please be removed. This was also not there in previous Delhi Police tender - 1. MHA Delhi Police Tender No.: 595/CSA (Q-1A)/DCP/P&L/2019.	As per RFP	Tejas Networks(1) Tejas Networks Ltd(1,2)
	2.1.4/41 Exemptions:	If in the view of bidder, any exemption/relaxation is/are applicable to them from any of the eligibility/pre-qualification requirements, under any Rules, process, Guidelines, Directives of Government of India, bidder may submit their claim for the applicable exemption/relaxation, quoting the valid Rule, process, Guidelines or Directives. In this case the bidder should submit their request for claiming	If in the view of bidder, any exemption/relaxation is/are applicable to them from any of the eligibility/pre-qualification requirements, under any Rules, process, Guidelines, Directives of Government of India, bidder may submit their claim for the applicable exemption/relaxation, quoting the valid Rule, process, Guidelines or Directives. In this case the bidder should submit their request for claiming concession/exemption from any particular criteria enclosing the necessary and sufficient valid documents along with the technical bid, in support of their claim.	Refer Corrigendum	----



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		concession/exemption from any particular criteria enclosing the necessary and sufficient valid documents along with the technical bid, in support of their claim.	However, the said exemptions/ relaxations will not be applicable to criteria for OEMs.		
	2.1.8 (d)A / 43 (09)	A. Data center Design & successful installation by Bidder The size of Data Center in a single order in the name of the bidder/any JV member and successfully installed in India, in last 07 years.	1. For Project of this stature, enormity , size and in interest of fair, wider participation from large , Global Players registered in India under company's act having massive investement in India below clauses are requested to be accepted as said below clauses are already accepeted/allowed in all large ICT, Smart City/Safe City/Govt Tenders hence request you to kindly add/modify said clause as (Changes requested highlighted in BOLD): A. Data center Design & successful installation by Bidder The size of Data Center in a single order in the name of the bidder/any JV member and successfully installed with a single Town/City/Large Campus/Airport/ Defence Establishment/City Traffic in India/global in last 07 years from the date of RFP Publishing date. 2. As you would be aware that Most of the Contract Agreement/ Workorder doesnot have the details of the IT load on the UPS. Hence it would be difficult to claim this experience and substantiate with the documents. We request you to kindly amend the clause as, DC with designed IT load excluding redundancy: up to - 30KW or DC value of INR 10 Cr DC with designed IT load excluding redundancy: up to - 40KW - or DC value of INR 20 Cr	Kindly refer corrigendum Refer Appendix-III (para 2.1.8)	CNT(1) Johnson Controls(1) Larsen & Toubro Ltd(2) VaaaN Infra Pvt. Ltd. (3) Samsung SDS India Pvt Ltd. (4) HFCL Limited(5) Millennium Automation Private Ltd(6) Presto(7) Presto Infosolutions Pvt. Ltd.(7)



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			DC with designed IT load excluding redundancy : up to - 50KW - or DC value of INR 30 Cr DC with designed IT load excluding redundancy: up to - 60KW - or DC value of INR 40 Cr DC with designed IT load excluding redundancy: above - 60KW - or DC value of INR 50 Cr 3. Since the scope of the project is for surveillance where data center is considerable component and only one or two Indian companies has built such a huge data center with this type of experience along with surveillance scope. This evaluation criteria will provide leverage to few companies only and is a limiting one and hence we request to please relax this clause as under: Data center Design & successful installation by Bidder The size of Data Center in a single order in the name of the bidder/any JV/OEM/specialised sub-contractor member and successfully installed in India, in last 07 years. Sr. No. Size of Data Centre in KW of IT Load Marks 1 DC with designed IT load excluding redundancy: up to - 5 KW 06 2 DC with designed IT load excluding redundancy: up to - 10 KW 07 3 DC with designed IT load excluding redundancy : up to - 15 KW 08 4 DC with designed IT load excluding redundancy: up to - 25 KW 09 5 DC with designed IT load excluding redundancy: above -25 KW 11 4. Our Parent company has vast experience (more than 10 years) in successful execution of projects as		



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			MSI for implementation for Smart Cities / Surveillance / Data Centers etc.) and have executed big projects with multiple Govt. customers in various parts of the world. We (Indian Entity) would be leveraging our parent company's rich experience for execution of this project. Therefore we would request you to allow experience of the Parent company in abroad markets as well and amend the clause as below: "Data Centre Design & Successful installation by Bidder or Bidder's parent company The size of Data Centre in a single order in the name of the bidder/any JV member and successfully installed in Govt. / PSU/Private Enterprises in India or Global, in last 07 years". 5. 1)- We understand that the total load of data center shall be counted for calculating the given requirement. Please confirm. 2)- Please confirm the document required to be submitted proving conformity to this requirement. 6. We would request to relax/ amend clause as: Bidder should have executed order of IT&ITeS Products for Data center in last three (03) financial years. Please specify the years duration from Date of RFP or Last financial years.		
	2.1.8 (d)B / 43 (17)	Cumulative Number of IP Cameras successfully installed by the bidder/any JV member in outdoor environment in maximum 05 orders.	1. For ex. Experience of ANPR is not asked in Pre-Qualification, while the experience of the same is being given extra weightage in QCBS. 2. Since sometimes projects are under NDA. PO/ contract etc. are not available, Bidder requests to Pls allow Company Secretary / Authorised signatory	Kindly refer corrigendum. Refer para 2.1.8 (d) of Appendix-III	Hewlett Packard Enterprise India Private Limited(1,2) HPE(2,3,4) Larsen & Toubro Ltd(5)



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			signed undertaking on details of the project to be submitted as part of the bid. Also POs from India and global experience to be allowed. 3. Bidder requests to modify the query to allow for Indian and GLOBAL projects which have integration of required no. of cameras and VMS integration is done by the bidder - Cumulative Number of IP Cameras successfully installed / under implementation OR integrated with VMS Software by the consortium member / Sole bidder/any JV member in outdoor environment in maximum 05 orders in India or Globally in last seven years, as per below - 250 to 500 cameras - 6 marks 500 to 700 cameras - 7 marks 701 to 1000 cameras - 8 marks 1001 to 1250 cameras - 9 marks 1251 to 1500 cameras - 10 marks 4. Bidder requests to modify the query to allow for Indian and GLOBAL projects which have integration of required no. of cameras and VMS integration is done by the bidder - Cumulative Number of IP Cameras successfully installed OR integrated with VMS Software by the consortium member / Sole bidder/any JV member in outdoor environment in maximum 05 orders in India or Globally in last seven years. 5. As you would appreciate that the Project Scope includes SITC of approx 10,000 Cameras so the selected bidder should have at least the experience of minimum 2500 Cameras in a Single Project. Hence request you to amend the clause as,		INTEC INFONET PVT. LTD.(6) NEC Corporation India Pvt. Ltd.(7) VaaaN Infra Pvt. Ltd.(8) HFCL Limited(9) CNT(10) Johnson Controls(10) TechnoSys(11) Millennium Automation Private Ltd(12) Techno Sys Group(11) Samsung SDS India Pvt Ltd.(13)



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM																							
			B. Cumulative Number of IP Cameras successfully installed by the bidder/any JV member in outdoor environment in a single order maximum 05 orders. From 500 to 1000 From 1001 to 1500 From 1501 to 2000 From 2001 to 2500 Above 2500" 6. Cumulative Number of IP Cameras successfully installed by the bidder/any JV member in outdoor environment in maximum 05 orders. 7. "We request you kindly to amend the clause as under:- Cumulative Number of IP Cameras successfully installed by the bidder/any JV member in outdoor environment in maximum 05 orders. <table><tr><th>Sr. No</th><th>Cumulative Number</th></tr><tr><th>Marks</th><th></th></tr><tr><td>1</td><td>From 500 to 1000</td></tr><tr><td>2</td><td>From 1001 to 1500</td></tr><tr><td>3</td><td>From 1501 to 2000</td></tr><tr><td>4</td><td>Above2001</td></tr><tr><td></td><td>06</td></tr><tr><td></td><td>07</td></tr><tr><td></td><td>08</td></tr><tr><td></td><td>10</td></tr></table> 8. "This being surveillance project where integration with large number of control rooms and cameras installation with high end analytics are envisaged, hence cameras installation only in 5 projects is a limiting criteria (allowing only few companies) hence we request to please amend the following clause as under: Cumulative Number of IP Cameras successfully installed by the bidder/any JV member in outdoor environment in maximum 05 orders. last 7 years <table><tr><th>Sr. No</th><th>Cumulative Number</th><th>Marks</th></tr></table>	Sr. No	Cumulative Number	Marks		1	From 500 to 1000	2	From 1001 to 1500	3	From 1501 to 2000	4	Above2001		06		07		08		10	Sr. No	Cumulative Number	Marks		
Sr. No	Cumulative Number																											
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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			1 From 500 to 1000 06 2 From 1001 to 1500 07 3 From 1501 to 2000 08 4 From 2001 to 2500 09 5 Above 2500 10"		
			9. "1- The quantity of cameras mentioned for maximum marks shall favour specific System Integrator, therefore request to reduce the cumulative number to 2000 for maximum marks. 2- We understand that separate purchase orders for different locations issued against a single LOI shall be considered as a single project/ order. Kindly confirm."		
			10. "For Project of this stature, enormity , size and in interest of fair, wider participation from large , Global Players registered in India under company's act having massive investement in India below clauses are requested to be accepted as said below clauses are already accepted/allowed in all large ICT, Smart City/Safe City/Govt Tenders hence request you to kindly add/modify said clause as (Changes requested highlighted in BOLD): At least one order/project covering Surveillance Projects minimum camera installation base of 500 cameras in outdoor/indoor environment for a surveillance project with a single Town/City/Large Campus/Airport/ Defence Establishment/City Traffic in India/global in last 07 years from the date of RFP Publishing date.		
			11. "As per the scope of the project , RFP Scope needs to cover 3321 no of location which required approx. 10,000 no's of cameras and as per the asked criteria it is asking for 2500 cameras only that also can be		



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM																																	
			achievable form 5 no of work orders, So actually average 500 cameras per project you are asking , for pre-qualification Point of view it can be acceptable , but technical marks should be given to more capable company who has executed large qty In city Surveillance project so we suggest Cumulative Number of IP Cameras successfully installed by the bidder/any JV member in outdoor environment in maximum 05 orders. <table><tr><td>Sr. No</td><td>Cumulative Number</td><td>Marks</td></tr><tr><td>1</td><td>From 500 to 1000</td><td>6</td></tr><tr><td>2</td><td>From 1001 to 1500</td><td>7</td></tr><tr><td>3</td><td>From 1501 to 2000 2500</td><td>8</td></tr><tr><td>4</td><td>From 2001 2501 to 2500 5000</td><td>9</td></tr><tr><td>5</td><td>Above 2500 5000</td><td>10"</td></tr></table> 12. We would request to relax/amend the clause as: Cumulative Number of IP Cameras successfully installed by the bidder in any type of environment in maximum 05 orders. "As per the scope of the project , RFP Scope needs to cover 3321 no of location which required approx 10,000 nos of cameras and as per the asked critteria it is asking for 2500 cameras only that also can be achievable form 5 no of work orders, this critera can allow less eligible bidders to participate which will definetly impact the project scope, Therefore requesting you to please change it to atleast Cumulative Number of IP Cameras successfully installed by the bidder/any JV member in outdoor environment in maximum 05 orders. <table><tr><td>Sr. No</td><td>Cumulative Number</td><td>Marks</td></tr><tr><td>1</td><td>From 500 to 1000</td><td>6</td></tr><tr><td>2</td><td>From 1001 to 1500</td><td>7</td></tr><tr><td>3</td><td>From 1501 to 2000 2500</td><td>8</td></tr><tr><td>4</td><td>From 2001 2501 to 2500 5000</td><td>9</td></tr></table>	Sr. No	Cumulative Number	Marks	1	From 500 to 1000	6	2	From 1001 to 1500	7	3	From 1501 to 2000 2500	8	4	From 2001 2501 to 2500 5000	9	5	Above 2500 5000	10"	Sr. No	Cumulative Number	Marks	1	From 500 to 1000	6	2	From 1001 to 1500	7	3	From 1501 to 2000 2500	8	4	From 2001 2501 to 2500 5000	9		
Sr. No	Cumulative Number	Marks																																				
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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			5 Above 2500 5000 10 " We request you to kindly consider and amend the clause as "At least one order/project covering Surveillance Projects minimum camera installation base of 500 cameras in outdoor/indoor environment for a surveillance project with a single Town/City/Private Enterprise". Sterlite Tech Cumulative Number of IP Cameras successfully installed by the bidder/any JV member in outdoor environment in maximum 05 orders. - Upto 350 cameras: 6 marks - From 351 to 1000: 8 marks - From 1001 to above: 10 marks		
	2.1.8 (d)C / 43 (11)	Number of orders/projects, each with a min. value of Rs. 05 Cr, successfully completed by the bidder/any JV member for building integrated command and control center (ICCC) in India, in last 07 years.	1. *Please clarify 5 Cr is the project value of CCR component value and if its complete project value, in which CCR is present then please consider 2nd query also. *As per the scope of the project , RFP Scope needs to cover 3321 no of location and all the locations will be integrated to CCR and as per the RFP TQ criteria on more than 2 locations complete marks will be given which will again allow less eligible bidders to participate that creates impacts on project implementation , therefor requesting you to please add few more projects of CCR to get full marks as : Sr.No No of Orders Marks G7 1 01 06 04 2 02 08 06 3 More than 02 04 10 08 4 More than 04 10"	Kindly refer corrigendum. Refer Para 2.1.8 (d) of Appendix-III	TechnoSys(1) Larsen & Toubro Ltd(2,4) CNT(3) Johnson Controls (3) HFCL Limited(5) Techno Sys Group(6) Presto(7) Presto Infosolutions Pvt. Ltd. (7) Vaaan Infra Pvt. Ltd.(8) Samsung SDS India Pvt Ltd.(9)



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			2. We understand that the term "building integrated command and control center (ICCC)" doesnot includes the Civil construction of the building and it refers to the IT works installed & commisioned for ICCC which includes set up of Videowall, Workstations & Interior works etc . Kindly confirm. 3. For Project of this stature, enormity , size and in interest of fair, wider participation from large , Global Players registered in India under company's act having massive investement in India below clauses are requested to be accepted as said below clauses are already accepeted/allowed in all large ICT, Smart City/Safe City/Govt Tenders hence request you to kindly add/modify said clause as (Changes requested highlighted in BOLD): C. Number of orders/projects, each with a min. value of Rs. 05 Cr, successfully completed by the bidder/any JV member for building integrated command and control center (ICCC) with a single Town/City/Large Campus/Airport/ Defence Establishment/City Traffic in India/global in last 07 years from the date of RFP Publishing date. 4. Request you to amend the clause as, C. Number of orders/projects, each with a min. value of Rs. 05 10 Cr, successfully completed by the bidder/any JV member for building integrated command and control center (ICCC) in India, in last 07 years." 5. Kindly confirm projects under execution where supply of hardware and software are completed. Very few projects with integrated command & control centers has been executed till date. Hence		



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM																								
			this clause will favour specific System Integrator with the value and count asked in the RFP. Therefore it is requested to either remove the value or reduce the number of orders for maximum marks. 6. *Please clarify 5 Cr is the project value of CCR component value and if its a complete project value, in which CCR is present then please consider 2nd query also. *As per the scope of the project , RFP Scope needs to cover 3321 no of location and all the locations will be integrated to CCR and as per the RFP TQ criteria on more than 2 locations complete marks will be given which will again allow less eligible bidders to participate that creates impacts on project implementation , therefore requesting you to please add few more projects of CCR to get full marks as : <table><tr><th>Sr.No</th><th>No of Orders</th><th>Marks</th></tr><tr><td>1</td><td>01</td><td>06 04</td></tr><tr><td>2</td><td>02</td><td>08 06</td></tr><tr><td>3</td><td>More than 02</td><td>10 08</td></tr><tr><td>4</td><td>More than 04</td><td>10"</td></tr></table> 7. Please specify the years duration from Date of RFP or Last financial years. 8. "We request to please amend the following clause as under: Number of orders/projects, each with a min. value of Rs. 05 Cr, successfully completed by the bidder/any JV member/OEM/specialised sub-contractor for building integrated command and control center (ICCC) in India, in last 07 years. <table><tr><th>Sr. No</th><th>Number of orders</th><th>Marks</th></tr><tr><td>1</td><td>1</td><td>06</td></tr><tr><td>2</td><td>2</td><td>08</td></tr></table>	Sr.No	No of Orders	Marks	1	01	06 04	2	02	08 06	3	More than 02	10 08	4	More than 04	10"	Sr. No	Number of orders	Marks	1	1	06	2	2	08		
Sr.No	No of Orders	Marks																											
1	01	06 04																											
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1	1	06																											
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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM									
			3 More than 2 11 9. "Our Parent company has vast experience (more than 10 years) in successful execution of projects as MSI for implementation for Smart Cities / Surveillance / Data Centers etc.) and have executed big projects with multiple Govt. customers in various parts of the world. We (Indian Entity) would be leveraging our parent company's rich experience for execution of this project. Therefore we would request you to allow experience of the Parent company in abroad markets as well and amend the clause as below: "Number of orders/projects, each with a min. value of Rs. 05 Cr, successfully completed by the bidder/any JV member (Bidders parent company) for building integrated command and control centre (ICCC) in India or Global, in last 07 years"											
	2.1.8 (d)D / 43 (09)	Previous experience of the bidder/JV Member in implementing the projects using following software's in last 07 Years: i. FRS Software ii. ANPR Software iii. Video Analytics Software	1. Please clarify this criteria here can we use workorders of inhouse enviornment like Shopping mall,Universities , colledges etc.. 2. We request you kindly to amend the clause as under:- D. Previous experience of the bidder/JV Member in implementing the projects using following software's in last 07 Years: i. FRS Software ii. ANPR Software iii. Video Analytics Software <table><tr><th>Sr. No</th><th>No. of Applications</th><th>Marks</th></tr><tr><td>1</td><td>Any one of the above-mentioned software applications</td><td>04</td></tr><tr><td>2</td><td>Any Two of the above-mentioned software applications</td><td>06</td></tr></table>	Sr. No	No. of Applications	Marks	1	Any one of the above-mentioned software applications	04	2	Any Two of the above-mentioned software applications	06	Kindly refer corrigendum. Refer para 2.1.8 (d) of Appendix-III	Techno Sys Group(1) NEC Corporation India Pvt. Ltd.(2) Presto(3) Presto Infosolutions Pvt. Ltd.(3) VaaaN Infra Pvt. Ltd.(4) Echelon Edge(5) Larsen & Toubro Ltd(6) Madras Security Printers Pvt.Ltd
Sr. No	No. of Applications	Marks												
1	Any one of the above-mentioned software applications	04												
2	Any Two of the above-mentioned software applications	06												



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM										
			3 All of the above-mentioned software application 08 4 Any Two of the above-mentioned software applications 10 Using Unified/ Integrated command and control Platform 3. Please specify the years duration from Date of RFP or Last financial years. 4. We request to please amend the following clause as under: Previous experience of the bidder/JV Member/OEM/specialised sub-contractor in implementing the projects using following software's in last 07 Years: i. FRS Software ii. ANPR Software iii. Video Analytics Software <table><tr><th>Sr. No</th><th>No. of Applications</th></tr><tr><td>1</td><td>Any one of the above-mentioned software applications 04</td></tr><tr><td>2</td><td>Any Two of the above-mentioned software applications 06</td></tr><tr><td>3</td><td>All of the above-mentioned software application 08</td></tr><tr><td>4</td><td>Any Two of the above-mentioned software applications 10</td></tr></table> using Unified Integrated Platform " 5. The QCBS clause applied here is not fair. In the prequal the bidder can have experience of any of the projects. While in QCBS certain type of project is being given extra weightage, which is not fair and just.	Sr. No	No. of Applications	1	Any one of the above-mentioned software applications 04	2	Any Two of the above-mentioned software applications 06	3	All of the above-mentioned software application 08	4	Any Two of the above-mentioned software applications 10		Transline Technologies Pvt. Ltd.
Sr. No	No. of Applications														
1	Any one of the above-mentioned software applications 04														
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3	All of the above-mentioned software application 08														
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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			6. Request you to amend the clause as, D. Previous experience of the bidder/JV Member in implementing the projects using following software's in last 07 Years: i. FRS Software ii. ANPR Software iii. Video Analytics Software Any Two All of the above-mentioned software applications using Unified Integrated Platform/Command & Control Center platform in a single project -10 Marks" We understand by term " using Unified Integrated Platform" is that any two software applications should be integrated with ICCV on single IOT platform. Sterlite Tech Previous experience of the bidder/JV Member in implementing the projects using following software's in last 07 Years: i. FRS Software ii. ANPR Software iii. Video Analytics Software - Any one of the above-mentioned software applications: 4 marks - Any Two of the above-mentioned software applications: 6 marks - All of the above-mentioned software application: 8 marks		



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			- Any Two of the above-mentioned software applications using Unified Integrated Platform / CCC Platform : 10 marks		
	2.1.8 (d)E / 44 (06)	Previous Experience (Orders successfully completed) of the OEM's, ISV's in using following components	1. Please confirm only the same OEM to be considered for this bid make model or any OEM reference can be considered 2. Please clarify what's Unified Platform required for as all the respective sub-systems and ICCC have already mentioned above. Also, what's the experience required from this UNIFIED PLATFORM in terms of managing the no. of sub-systems/EDGE devices. 3. Recently DPIIT (Department of Promotion of Industry and Internal Trade) has issued a revised Make in India Policy dated 4th June 2020. 1). Please confirm whether same is applicable on this tender or not? If yes, please provide us the list of items for which Make in India Preference will be considered as per DoT Notification dated 29th August 2018 and Meity Notification dated 14th September 2017 because as per the latest DPIIT notification it appears that in addition to total bid , individual products (as notified by Nodal agencies) should also comply Make in India Policy. 2). If Indian OEMs are not meeting the Pre-Qualification Criteria then whether they will be still considered based on the recent Govt guidelines for ""Make in India"" program?" 4. The OEM pre qualification criteria mentioned for all the OEM under Chapter 2 , Para 2.1.8 (E) previous experience, requires OEM to submit details of Orders successfully completed where in the technologies such as Unified AI based Video	Kindly refer corrigendum. Refer Para 2.1.3 (B) and 2.1.8 (d)	Honeywell(1) Honeywell Automation India Ltd.(1) DAK Infosoft (P) Ltd(2) BHARAT ELECTRONICS LIMITED(3) Awidit Systems Private Ltd (Awiros)(4) Tech Mahindra(4)



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			Intelligence Platform, AI based Facial Recognition, AI based ANPR and new Video Analytics softwares, are based upon very new innovative research and technologies that have been commercialized worldwide in last 1-2 years only . Most of these projects from India stand point are either just awarded or are in the Implementation phases. We request CDAC and Delhi Police to relax these requirements from "Orders Successfully Completed" to "Awarded / Ongoing / Successfully completed" for such newer technologies.		
	2.1.8 (d)E-1 / 44 (04)	1. Cameras Deployment of cameras in a City wide / Outdoor Environment project – If Single PO comprises of camera Nos From 1000 up to 2000 cameras – 01 Mark If Single PO of more than 2000 cameras – 02 Mark	"1. Cameras Deployment of cameras in a City wide / Outdoor Environment project – If Single PO comprises of camera Nos From 500 up to 1000 cameras – 01 Mark If Single PO of more than 1000 cameras – 02 Mark Request you to change the camera qty. as suggested, also in OEM criteria of cameras, you have asked for 1000 camera's single PO order."	Kindly refer corrigendum Refer Appendix III (Table 2.1.8-d (E/1))	Globalrays Technologies PruTech Solutions India Pvt. Ltd. Triflex Solutions Bodhtree
	2.1.8 (d)E-4 / 44 (09)	"Storage OEM should have supplied the Storage for at least 1 Safe /Smart City surveillance projects of at least 10 PB - 01 Mark Storage should be validated with offered ICCS and VMS software with minimum one year of existence -01 Mark"	1. "Suggestive Input / Requested Change OEM should have supplied the Storage for at least 1 Safe /Smart City surveillance projects of at least 6 PB or more - 01 Mark 2. Storage should be validated document / OEM deceleration stating the workability of storage with the with offered ICCS and VMS software -01 Mark" "As per RFP both Scale-Out NAS and SAN are variable solution for VMS, thus indicating that VMS are agnostic to Storage System. OEM should be able to offer one Safe City/Smart City reference, however we request you to remove the requirement of VMS and ICC software as both are independent. We request you to modify this clause and read it as:	Kindly refer corrigendum Refer Appendix III (Table 2.1.8-d (E))	HPE(1) Hewlett Packard Enterprise India Private Limited(1) SCS TECH INDIA PVT. LTD.(2) Dell Technologies (3) Samsung SDS India Pvt Ltd. (3) NEC Corporation India Pvt. Ltd. (3)



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			OEM should have supplied the Storage for at least 1 Safe /Smart City surveillance projects of at least 10 PB Storage should be validated with offered ICCS and VMS software with minimum one year of existence " 3. "The ICCS software does not directly interact with the Storage, Only the VMS software does. Request this clause be amended to: ""Storage should be validated with offered VMS software with minimum one year of existence -01 Mark" L& T Requested Change OEM should have supplied the Storage for at least 1 Safe /Smart City surveillance projects of at least 5 PB or more - 01 Mark Storage should be validated document / OEM declaration stating the workability of storage with the with offered ICCS and VMS software - 01 Mark L&T Requested Change OEM should have supplied the Storage for at least 1 Safe /Smart City surveillance projects of at least 5 PB or more - 01 Mark Storage should be validated document / OEM declaration stating the workability of storage with the with offered ICCS and VMS software - 01 Mark		Telecommunication s Consultants India Limited(3) Elkosta Security Systems India(3) L&T



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	2.1.8 (d)E-5&6 / 44 (07)	ICCC Software 5.Deployment of ICCC software in a Safe /Smart City surveillance projects of cumulative 1,000 cameras -01 Mark 6. Single user interface for C4i, VMS, Big Data Co relation engine and Video synopsis application – 01 Mark	1. "Please modify it as : 5.Deployment of ICCC software in a 3 or more Safe /Smart City s/ in any project headed by Police Department project -01 Mark 6. Deployment of ICCC software in a 1 or more Global Safe /Smart City s / in any project headed by Police Department -01 Mark" 2. Please delete this Clause 3. "Please delete this Clause Requesting to please remove this clause. This is specific and restricting the participation for fair competition." 4. "Please modify it as: Cameras will be communication with VMS Software and will have limited role of ICCC on direct intercation with Cameras . We find this is resetine clause , hence request you to modify the clause as below :- 5.Deployment of ICCC software in a 3 or more Safe /Smart City s/ in any project headed by Police Department project -01 Mark 6. Deployment of ICCC software in a 1 or more Global Safe /Smart City s / in any project headed by Police Department -01 Mark" 7. This is a restrictive clause as most of the Indian OEMs will fail to meet this clause, hence we request to kindly amend the clause as below. Deployment of ICCC software in a Safe /Smart City surveillance projects of cumulative 500 cameras-01 Mark	Kindly refer corrigendum Refer para 2.1.8 of Appendix-III	SCS TECH INDIA PVT. LTD.(1) Transline Technologies Pvt. Ltd.(2) INTEC INFONET PVT. LTD.(3) Techspire Services Pvt. Ltd.(2) Online Micro Services Private Limited (2) Hexagon(4) Marushika Technology Advisors Pvt. Ltd.(3) Fluentgrid Limited(7,8) PruTech Solutions(9)



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			8. VMS and Video synopsis are two different applications which are integrated with C4i to provide a single interface, hence We request you to kindly amend the clause as below. C4i Should integrate with VMS, Big Data Co relation engine and Video synopsis application tp provide common operating picture. 9. This Clause is Restrictive & OEM Specific. We Hereby you to please Waive off this Clause in view of Max. OEM Participation. This shall also ensure that Adequate Competition & Level Playing field.		
	2.1.8 (d)E-5 / 44 (01)	"5. ICCS Software Deployment of ICCS software in a Safe /Smart City surveillance projects of cumulative 1,000 cameras-01 Mark"	"We Hereby request you to please Amend this Clause as "Deployment of ICCS software in a Safe /Smart City surveillance/Outdoor Environment's / Central or State PSU's / Railways / Defense projects of cumulative 500 cameras or more.-01 Mark"	Kindly refer corrigendum Refer para 2.1.8 (d) of Appendix-III	Bodhtree
	2.1.8 (d)E-6 / 44 (04)	"6. ICCS Software Single user interface for C4i, VMS, Big Data Corelation engine and Video synopsis application - 01 Mark"	1. The requirements under this clause are specific to one OEM only and hence for the sake of equality / level palying field, this clause should be deleted. 2. "This Clause is Restrictive & OEM Specific. We Hereby you to please Waive off this Clause in view of Max. OEM Participation. This shall also ensure that Adequate Competition & Level Playing field."	Kindly refer corrigendum Refer para 2.1.8 (d) of Appendix-III	M/s Intellve So lutions Ltd. R(1) Johnson Controls (1,2) Bodhtree(2)
	2.1.8 (d)E-7 / 44	"7. VMS Software Deployment of VMS software in Safe /Smart City	1. "We Hereby request you to please Amend this Clause as	Kindly refer corrigendum	Johnson Controls (1)



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	(04)	surveillance projects of min 2000 to 5000 cameras – 01 Mark 02"	Deployment of VMS software in Safe /Smart City surveillance projects of min 600 cameras– 01 Mark"" 3. "This Clause is Restrictive & OEM Specific. We Hereby you to please Waive off this Clause in view of Max. OEM Participation. This shall also ensure that Adequate Competition & Level Playing field." 4. Kindly note that the cameras installed in safe/smart city are done by limited system integrators, the nos.of camera installation asked in the RFP will restrict the major OEMs who have installed in other sectors for similar application, therefore kindly consider it to modify it for the nos. asked as 1000-3000 VMS licenses deployed in the field and include other govt. installations like Defence & Railways for qualification 5. This Clause is Restrictive & OEM Specific. We Hereby you to please Waive off this Clause in view of Max. OEM Participation. This shall also ensure that Adequate Competition & Level Playing field.	Refer para 2.1.8 (d) of Appendix-III	Bodhtree(1,2) HFCL Limited(3) PruTech Solutions
	2.1.8 (d)E-7&8 / 44 (07)	"7. VMS Software Deployment of VMS software in Safe /Smart City surveillance projects of min 2000 to 5000 cameras – 01 Mark 8. Deployment of VMS software in Safe /Smart City surveillance projects of min 5000 above cameras– 01 Mark"	1. We understand following criteria will achieve max marks- 02 marks, please confirm: 8. Deployment of VMS software in Safe /Smart City surveillance projects of min 5000 above cameras–02 Mark" 2. Since the project involves more than 10,000 cameras under VMS, we request you to kindly consider 10,000 number of camera licenses deployment under the proposed VMS as the basic	Kindly refer corrigendum Refer para 2.1.8 (d) of Appendix-III	Honeywell(1) Honeywell Automation India Ltd.(1) Bodhtree(2) NEC Corporation India Pvt. Ltd.(3)



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			minimum requirement. This will ensure that the VMS has the capability of handling such large projects and the proven track record. 3. Since its a prestigious and large project which involves more than 10,000 cameras under VMS followed with another 15K cameras under existing systems with further scalability, hence it is requested you to kindly consider 25,000 number of camera licenses deployment under the proposed VMS as the basic minimum requirement. This will ensure that the VMS has the capability of handling such large projects and the proven track record.		Matrix Security & Surveillance Pvt Ltd(2) PruTech Solutions India Pvt. Ltd. (2) Videonetics Technologies Pvt Ltd. (2)
	2.1.8 (d)E-9 / 44 (09)	"9. SDK Capabilities offered /ICCC application Well documented SDK for further developments and integration with 3rd party systems along with online support portal outlining all the 3rd party integrations and 24/7 support on SDK Package to be submitted in 'Undertaking proforma' without any cost implications for 05 Years of project duration and O&M phase – 01 Marks "	1. Please modify it as : 9. Integration Capabilities offered /ICCC application ICCC Application OEM should provide open SDK / API for further developments and integration with 3rd party systems and submit in 'Undertaking proforma' without any cost implications for 05 Years of project duration and O&M phase - 01 Marks" 2. Please delete this Clause. Requesting to please remove this clause. This is specific and restricting the participation for fair competition." 3. Please delete this Clause 4. Please modify it as : 9. Integration Capabilities offered /ICCC application ICCC Application OEM should provide open SDK / API for further developments and integration with 3rd party systems and submit in 'Undertaking	Kindly refer corrigendum Refer para 2.1.8 (d) of Appendix-III	Samsung SDS India Pvt Ltd. (1) INTEC INFONET PVT. LTD. (2) Techspire Services Pvt. Ltd.(3) Hexagon(1) SCS TECH INDIA PVT. LTD. (1) Transline Technologies Pvt. Ltd. (3) Marushika Technology Advisors Pvt. Ltd. (2) Online Micro Services Private Limited .(3) Presto (4)



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			proforma' without any cost implications for 05 Years of project duration and O&M phase - 01 Marks" 5. It will not be feasible for any bidder to estimate the cost without detailed study of existing databases or 3rd party systems. You are requested to kindly amend or remove this clause.		
	2.1.8 (d)E-10 / 44 (04)	"10. FRS Software Deployment of FRS software in a Safe /Smart City surveillance projects city wide / Outdoor project of min 50 FRS channels - 01 Mark"	1. This Clause is Restrictive & OEM Specific. We Hereby you to please Waive off this Clause in view of Max. OEM Participation. This shall also ensure that Adequate Competition & Level Playing field." 2. "We request the department to kindly amend the clause as mentioned below: Deployment of FRS software in a Safe /Smart City surveillance projects city wide / Outdoor project/Government Projects of min 20 FRS channels - 01 Mark. 3. We request the department to kindly amend the clause as mentioned below: Deployment of FRS software in a Safe /Smart City surveillance projects city wide / Outdoor project/Government Projects of min 20 FRS channels - 01 Mark."	Kindly refer corrigendum Refer para 2.1.8 (d) of Appendix-III	Bodhtree (1) PruTech Solutions India Pvt. Ltd. (1) Johnson Controls (2) IDEMIA (2)
	2.1.8 (d)E-11 / 45 (06)	"11. ANPR Software Deployment of ANPR software in a Safe /Smart City surveillance projects city wide / Outdoor project of min 100 channels - 01 Mark"	1. We Hereby request you to please Amend this Clause as "Deployment of ANPR software in a Safe /SmartCity surveillance projects city wide / Outdoor project of min 40 channels - 01 Mark" 2. We request you to kindly consider at least 1500 ANPR camera licenses deployment for the ANPR software. This will ensure the robustness of the	Kindly refer corrigendum Refer para 2.1.8 (d) of Appendix-III	Bodhtree (1,2) Johnson Controls (1) i2V Systems Pvt. Ltd (1) PruTech Solutions India Pvt. Ltd. (1)



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			ANPR software and the proven track record of the OEM.		Matrix Security & Surveillance Pvt Ltd (2)
	2.1.9 / 46 (01)	PoC Evaluation Guidelines	"There are some clarifications required regarding setting up of PoC, would request you to kindly provide: - How much time will be given to the bidder for setting up the PoC? - How big will be site for PoC, and are the sites already identified? If Yes, please provide the details - For setting up the field equipment and arranging for electricity / connectivity, who shall help in providing Govt dept. clearance, if any?"	As Per RFP (Clarification: POC will be of minimum 2 days, so 1 day prior MSI has to setup POC components. Schedule for PoC will be communicated by C-DAC to prospective bidders well in advance.)	Samsung SDS India Pvt Ltd.
	2.1.9.1 /47 (03)	2.1.9.1. Approach to be undertaken for the Demonstration of Proof of Concept (PoC)	As this is elaborate POC and significant to qualification, Bidder requests that 2 months to be given from bid submission for the POC to be conducted, pls confirm this timeline in the RFP.	As per RFP	HPE Hewlett Packard Enterprise India Private Limited
	2.1.9.4 /48 (02)	"2.1.9.4. Software and Server Setup · A set of servers (sized appropriately for PoC setup), which are required to install the server-side components of the above-mentioned applications must be made available and installed by the bidder."	1. Request to also please look at the resource consumption (CPU, RAM & GPU, etc.) of respective applications to validate the current considered sizing and so any extra hardware requirement can be revised at this stage only. 2. Please clarify whether VA, FRS & ANPR should be part of the UNIFIED PLATFORM or they will be the independent software, as ideally, all these sub-systems will consolidate in ICCC platform for alarms & review, also you have mentioned them separately above on no. 39	As per RFP	DAK Infosoft (P) Ltd
	2.1.9.5/48 (03)	"2.1.9.5. Team setup for PoC by bidder A competent team must be selected and briefed in advance for the PoC demonstration. The	Bidder requests that the POC Lead to be permitted to be supported by a team of 3-4 key design architects, as all the specific requirements may not be known to a single person. POC Lead can be the lead however narrate the whole demo.	As per RFP (Minimum is asked, MSI can assign more to meet the SLAs)	HPE Hewlett Packard Enterprise India Private Limited



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		team must have the following members: i. PoC Lead and SPOC: Should be the PoC Manager/Project Manager/Solution Architect as proposed by bidder in their technical bid and responsible to function as chief narrator/demonstrator as well as Single Point of Contact (SPOC). He/she will carry out the complete PoC demo/tour. He/she must have complete control over the PoC and must know the RFP requirements well. "			
	2.1.9.6. /49 (01)	2.1.9.6. Flow for the PoC	Request to please confirm the detailed test cases which need to be demonstrated during POC. Request to please confirm the detail Bill of material which need to be demonstrated during POC. Also the time limit/duration for POC and location as well.	Refer RFP BOM for POC will be borne by MSI, location and time will be informed by CDAC	Sterlite Technologies Limited
	2.1.9.8 /50 (05)	"2.1.9.8. PoC setup Requirement 5. 55"/70" 4K Video Wall"	1. 4K Video Wall in DLP is Specific to ONE OEM Only Request you to Change 70""Full HD Video Wall so that other OEM Can Qualify for fair tendering process else it will lead to one OEM Monopoly It is to bring to your notice and submission that the viewing of the cameras which are being procured through this RFP (upto Full HD resolution) are best viewable and compatible with full HD screens only. The 4K scale of viewing will be un-matched and more intensified for sharp and adequate viewing. 4K can be a better option if the camera were also 4K.	Refer Corrigendum Para 2.1.9.8 (05) of Page 50	Marushika Technology Advisors Pvt. Ltd. (1) Transline Technologies Pvt. Ltd. (1) INTEC INFONET PVT. LTD. (1) Barco Electronic Systems Pvt. Ltd. (2)



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			2. "4K Video Wall in DLP is Specific to ONE OEM Only Request you to Change 70"" Video Wall Full HD so that other OEM Can Qualify for fair tendering process else it will lead to one OEM Monopoly " 3. "4K Video Wall in DLP is Specific to ONE OEM Only Request you to Change 70""Full HD Video Wall so that other OEM Can Qualify for fair tendering process else it will lead to one OEM Monopoly It is to bring to your notice and submission that the viewing of the cameras which are being procured through this RFP (upto Full HD resolution) are best viewable and compatible with full HD screens only. The 4K scale of viewing will be un-matched and more intensified for sharp and adequate viewing. 4K can be a better option if the camera were also 4K.		
	2.1.10 /50 (01)	"2.1.10. PoC Demonstration – salient points The PoC demonstration must mandatorily cater to the following salient points: vi. Floating of Analytics licenses on multiple cameras using unified platform GUI. Dynamic Deployment and association of Video analytics use cases including FRS and ANPR to various cameras using the AI based Video Analytics platform"	Please clarify the respective sub-systems- such as IVA, FRS & ANPR, etc need to be interfaced in ICCV or UNIFIED PLATFORM.	As per RFP (Clarification: For channel management it should be in unified platform.	DAK Infosoft (P) Ltd
	2.1.10 xii/51 (02)	"2.1.10. PoC Demonstration – salient points xii. A minimum of 48 streams or better from the cameras and other	1. Kindly amend it as 36 Streams or better, as because in the technical specification of the Cameras, it was asked that the Camera should support "Individually configurable minimum 03 Streams".	Kindly refer Corrigendum	Sterling & Wilson Pvt. Ltd. (1) Telecommunication Consultants



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		means available (Min 12 physical cameras) for POC shall be brought on VMS / C4i platform and the same should be routed to analytics software for checking the overall performance of the system in the areas of robustness, availability, analytics accuracy and error handling capacity of the software along with the performance of the overall HW parameters like CPU / GPU, Network etc."	Hence for 12 nos of Cameras, the total count of streams will be 36 Streams as minimum count. 2. Please amend "48 streams or better from the cameras and other means available (Min 12 physical cameras) for POC " as "36 streams or better from the cameras and other means available (Min 12 physical cameras) for POC ". Since all the cameras are of 3 streams and also quad streams' 4th stream has no utility for either Live; Playback or direct feeds. 48 or more streams from 12 cameras shall be possible if one of the or more streams get multicasted for live/recording etc.	Refer Para 2.1.10 (Xii) page No 51 (Clarification: 36 streams is allowed, but VMS has to route it to analytics)	India Limited (2)
	2.1.10 v&vii/52 (03)	Indicative Network Architecture: v. Actual walk-through of the system covering all components:" vii. Dashboard: The operator (Operator 1) shall be able to present the Alert on the geospatially enabled maps in the form of visual & audio. Auto pop-up of alert manager window shall be demonstrated."	1. This clause which requires integration of all sub-systems, also restricts newer technologies, which have not been earlier integrated / packaged by OEM / bidder, from being offered for this RFP. Allowing integration to be excluded from the PoC would open competition by allowing more selection to be available with the bidders." 2. Dashboards in consideration should be configurable, dynamic, interactive and role-based. Dashboards map component should allow two way communication b/w map to widgets and back. Alerts should also be configurable to ensure that SI should provide quick real time solutions as per new feeds "Integration of all system components during the PoC would be a herculean task and should be proposed for the go-live stage only. During the PoC stage, we recommend PoC for standalone applications.	As per RFP (POC is to check about applications and software integration and interoperability too, Bidders all allowed and show their capabilities by integration on their other solutions)	Mistral Solutions Pvt Ltd (1) Esri India Technologies Private Limited (2) Prakhar Software Solutions
	2.1.10 vi/52 (02)	Indicative Network Architecture:	1. RFP has defined different set of cameras with different specifications for different types of analytics like ANPR, FRS and AI based video analytics	As per RFP	vehant TECHNOLOGIES



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		vi. Floating of Analytics licenses on multiple cameras using unified platform GUI. Dynamic Deployment and association of Video analytics use cases including FRS and ANPR to various cameras using the AI based Video Analytics platform	use cases. Hence, we understand that floating of analytics licenses is applicable for their respective set of cameras as per their hardware requirements, configuration paramters & FOVs to provide optimum performance. For eg. ANPR/FRS/Other VA analytics license can be floated on any camera meeting respective ANPR/FRS/Other VA analytics camera hardware requirement, configuration and FOV. Please confirm." 2. "We understand that floating of analytics licenses is applicable for their respective set of cameras as per their hardware requirements, configuration paramters & their FOVs. For eg. ANPR/FRS/Other VA analytics license can be floated on any camera meeting ANPR/FRS/Other VA analytics camera hardware requirement respectively. Please confirm."		
	2.1.10.1/53 (10)	2.1.10.1. PoC Scope and Technical Evaluation Parameters A. 'Original Certificates' copies duly signed by Power of Attorney (POA) of the respective Bidder/OEM or Managing Director or Company Secretary or Board of Directors. The Original POA copy shall have to be attached/ enclosed or showcased during POC /Technical Bid Evaluation. - All original Certificates shall have to be furnished during the time of evaluation. All Certificates	1. Kindly accept the copy of the "Original Certificates" as those certificates will be duly signed by the respective authorized signatory as POA holder as per tender. 2. Please allow copy of the "Original Certificates" as that certificate, which shall be duly sealed & signed by the respective authorized signatory having POA Declaration specific to RFP guidelines. 3. Please allow the "Original Certificates" copy as the same shall be duly sealed & signed by the authorized personnel who will be having the POA as mentioned in the RFP. 4. Please ammend as Copy of "Original Certificates" as those certificates, being sealed & signed by the	As per RFP	Sterling & Wilson Pvt.Ltd (1,6) Tech Mahindra (2) Johnson Controls (3) Telecommunication s Consultants India Limited (4) Globalrays Technologies (5) Triflex Solutions (5) Bodhtree (5) PruTech Solutions India Pvt. Ltd. (5)



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		shall be allowed which are published on or before the publishing of the bid. All Certificates specific to quoted product model / product part reference or product item no. must be submitted (No Series Reference Certificates shall be allowed.).	concerned person having POA and an undertaking in this regard shall be submitted to meet the CVC guideliens. 5. All original Certificates shall have to be furnished during the time of evaluation. All Certificates shall be allowed which are published on or before the submission of the bid. All Certificates specific to quoted product model / product part reference or product item no. must be submitted (No Series Reference Certificates shall be allowed.) Request you to allow the product model series based certificates as most of the camera's hardware are same and used to have certificate on series. Also allow the certificate dates till the submission of the RFP." 6. Kindly consider the copy of the "Original Certificates" as final document against submission, as those certificates will be duly signed by the respective authorized signatory as POA holder as per tender.		
	2.1.10.1 /53 (04)	"2.1.10.1. PoC Scope and Technical Evaluation Parameters A. • UL Certificate must mention the specific model no quoted and shall be available for online for verification. No OEM model series' number or OEM Product Series or Product category specific Certificates shall be accepted."	"UL Certificate must mention the specific model no quoted and shall be available for online for verification. No OEM model series' number or OEM Product Series or Product category specific Certificates shall be accepted. Request you to allow the product model series based UL certificate as most of the camera's hardware are same and used to have certificate on series."	As per RFP	Globalrays Technologies Triflex Solutions Bodhtree PruTech Solutions India Pvt. Ltd.
	2.1.10.1/53 (06)	"2.1.10.1. PoC Scope and Technical Evaluation Parameters A.	1. Third Party Test certificates of IP67/NEMA-4X; IK -10 must be provided. No Self-Declaration shall be admissible. NEMA 4X rating is equivalent to IP66 rating of the products so request you to allow both	Kindly refer Corrigendum.	Globalrays Technologies (1) Triflex Solutions (1)



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		Third Party Test certificates of IP67; IK -10; NEMA -4X must be provided. No Self Declaration shall be admissible.	IP67 & NEMA-4X in options for wider participation. https://www.siemon.com/en/home/support/compliance/nema-ratings-and-ip-equivalents 2. • Please explain the meaning of ""Third Party...."". Please clarify if certificates from Third party having facility of Testing the parameters would also be acceptable without Third Party being a recognised Lab. "		Bodhtree (1) PruTech Solutions India Pvt. Ltd. (1) VOLKSARA TECHNO SOLUTIONS PRIVATE LIMITED (2) Samriddhi Automations Pvt Ltd (SPARSH): (2)
	2.1.10.1 (B1)/54 (01)	1. Outdoor Fixed Camera - 4MP Lens: 2.8mm – 12mm Lens, Auto / DC / P-Iris or better, Varifocal"	An application like FRS needs a better lens size at least 5-50MM.	Kindly refer Corrigendum.	DAK Infosoft (P) Ltd
	2.1.10.1 (B1)A4/53 (25)	Minimum Illumination Color: 0.01Lux @f/1.6 or better. Technical Data sheet/Product Manual/OEM Declaration of Compliance on Letter Head or all duly signed by POA as required. POA copy to be enclosed with Bids"	1. Request you to consider to amend the clause Minimum Illumination i.e. Color 0.10 Lux @ f1.6 /B/W :-0.01 lux @F/16 or better. Justification :- Request you to consider to amend clause, it will not impact on functional requirement of systems. 2. Request you to consider clause to amend Minimum Illumination: Color 0.10 Lux @ f1.6 /B/W :-0.01 lux @F/16 or better. Justification -Request you to consider to amend clause, it will not impact on functional requirement of systems. 3. The cameras are Day & Night operation, the automatic switching will change the picture from color to B&W which is 0 lux with IR on. Therefore please modify to standard 0.1 lux for color and 0 lux for B&W with IR On. It seems Colour is limiting them to qualify	Kindly refer Corrigendum Refer Appendix III-A	Marushika Technology Advisors Pvt. Ltd. (1) VIVOTEK INC (1) Transline Technologies Pvt. Ltd.(1) Telecommunication Consultants India Limited (1) DAK Infosoft (P) Ltd (1) HPE (1) NEC Corporation India Pvt. Ltd. (1)



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			4. Request you to consider clause to amend Minimum Illumination: Color 0.10 Lux @ f1.6 /B/W :0.01 lux @F/16 or better Justification -Request you to consider to amend clause, it will not impact on functional requirement of systems.		Hewlett Packard Enterprise India Private Limited (1) INTEC INFONET PVT. LTD. (1) Samsung SDS India Pvt Ltd. (1) ARYA COMMUNICATI ONS AND ELECTRONICS SERVICES PVT.LTD (2) INTEC INFONET(4)
	2.1.10.1 (B1)A6/53 (25)	ONVIF Profile: S & G/S,G,T. Online ONVIF S; G/ Profile S, G, T must be available for checking & confirmation. Hard copies shall also be submitted duly signed by POA as required. POA copy to be enclosed with Bids	In order to have healthy participation and to allow a level playing field to all Potential Indian Camera OEMs please modify to Profile S/G. Also note that the only profile required for integrating between different OEMs of Cameras and VMS is Profile-S. Therefore kindly change to Profile S/G.	As per RFP	ARYA COMMUNICATI ONS AND ELECTRONICS SERVICES PVT.LTD
	2.1.10.1 (B1)A7/53 (25)	Operating Temperature -30 °C ~ 60 °C, Up to Humidity 90% Technical Data sheet/Product Manual/OEM Declaration of Compliance on Letter Head or all duly signed by POA as required. POA copy to be enclosed with Bids	In order to have healthy participation and to allow a level playing field to all potential Indian camera OEMs please modify to -20C to +50C.	As per RFP	ARYA COMMUNICATI ONS AND ELECTRONICS SERVICES PVT.LTD
	2.1.10.1 (B1)A9/53 (25)	Certification CE, FCC, UL/cUL, BIS, NEMA 4X Third Party Test certificates/Reports being duly	1. Tender specification requires IP66/67 protection but certification asked for NEMA 4X, please modify this to CE, FCC, UL/cUL/BIS, NEMA 4X/IP66. Also	Kindly refer Corrigendum.	HPE (1) Samsung SDS India Pvt Ltd. (1)



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		signed by POA as required. POA copy to be enclosed with Bids. Original reports shall also be showcased."	note that the industry standard for weather protection of camrea is IP66/IP67 and IK10 for Vandal proofing. The NEMA 4X as protection criteria is used for products exposed in hazardous environment." 2. Request you to consider to amend certification clause :- IP66/NEMA-4X Justification :-IP 66 rating are sufficient which will protect camera from solid objects and ingress of water.While NEMA -4X rating are used in seashore and salty area . Request you to consider to amend the clause IP66/NEMA-4X	Refer Appendix III-A	DAK Infosoft (P) Ltd (1) VIVOTEK INC (1) Marushika Technology Advisors Pvt. Ltd. (1) NEC Corporation India Pvt. Ltd. (1) Hewlett Packard Enterprise India Private Limited INTEC INFONET PVT. LTD. (1) Telecommunication s Consultants India Limited (1) Transline Technologies Pvt. Ltd. (1) ARYA COMMUNICATI ONS AND ELECTRONICS SERVICES PVT.LTD (2)
	2.1.10.1 (B1)B1/55 (03)	Maximum Image Resolution 2688 X 1520 or better In the Camera browsing window, the variable resolution should get reflected and able to define the viewing resolution as per requirement up to 4MP or better	1. 2592x1944 or better should be acceptable 2. We are offering 5 MP Camea with 2592x1944 resolution which is technically better than tender requirement.SO request you to kindly consider the same."	Kindly refer Corrigendum. Refer Appendix III-A	Tatvik System Solutions Pvt Ltd (1) pelco (1) Telecommunication s Consultants India Limited (2)



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	2.1.10.1 (B1)B3/56 (04)	Shutter Speed Auto / Manual, 1/3s ~ 1/30000s or better Able to define the Shutter Speed from Camera Web Browsing Window	1. Shutter Speed: Auto /Manual, 1s ~ 1/10000 Sec 2. In Normal realistic environment, Camera with 1/10,000 Shutter Speed is meeting the functional requirement as practically we need in the range only 1/500~1/1000 Sec. So request you to kindly amend the same with 1/10000 Sec Speed" 3. In order to have healthy participation and to allow a level playing field to all potential Indian camera OEMs please modify to Change to 1~1/10000 for wider participation as it is restrictive	As per RFP	Tatvik System Solutions Pvt Ltd (1) pelco (1) Telecommunication Consultants India Limited (2) ARYA COMMUNICATIONS AND ELECTRONICS SERVICES PVT.LTD (3)
	2.1.10.1 (B1)B10/57 (05)	Security SSL & TLS; SSH; HTTPS; 802.1x NAC; Multiple EAP methods; AES/DES Shall be tested in conjunction with proposed VMS by installing SSL Certificate for triggering the TLS to figure out the data security.	1. SSH, HTTPS, AES protocols are supported for Security by most of the OEMs. Thus, requesting you to amend the clause as - Security: SSH; HTTPS; AES/DES 2. Kindly amend it as SSL/TLS/HTTPS and remove SSH, as because the same is reflected in the technical specification parameter for all the Cameras and all these protocols are meeting the Security Requirement as mentioned in the tender 3. Please remove SSH, as SSH has no where mentioned in the RFP Specifications and has little or no utility in view of SSL/TLS/HTTPS. 4. Please remove SSH as the same is being met by SSL/TLS/HTTPS in conjunction along with AES/DES. Also, SSH is not there in any technical parameter under any camera specifications.	As per RFP (SSH shall be tested in conjunction with proposed VMS at the time of POC)	Radius Infotech (P) LTD. (1) Sterling & Wilson Pvt. Ltd. (2) Telecommunication Consultants India Limited (3) Tech Mahindra (4) Johnson Controls (4)
	2.1.10.1 (B1)B11/57 (02)	Manufacturer Authenticity MAC ID & Firmware Authenticity; non-compliance to GB28181,	Please share the third party tool(s) which would be used for doing this investigation during POC so that	As per RFP	Samridhi Automations



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		GB/T28181-2011 An online inspection shall be done through in conjunction with necessary offline documents by using third party tools to determine the Duplicate MAC Address Detection, if any. So also, the online authenticity of Firmware shall be checked to determine if it's a malicious or modified or duplicate coded. A live investigation shall be conducted with specific tools to verify the non-compliance of GB28181, GB/T28181-2011.	a pre validation of the compliance could be done by camera OEMs before hand.	(Bidder responsibility for compliance)	Pvt Ltd (SPARSH): VOLKSARA TECHNO SOLUTIONS PRIVATE LIMITED
	2.1.10.1 (B2)A6/58 (02)	Outdoor PTZ Camera - 4MP, 30x Optical Zoom and Joystick control operations PAN & TILT Speed Manual: 180°/s; Preset: 240°/s & Manual: 120°/s; Preset: 200°/s Technical Data sheet/Product Manual/OEM Declaration of Compliance on Letter Head or all duly signed by POA as required. POA copy to be enclosed with Bids	1. PAN & Tilt Speed:Manual: 100°/s; Preset: 300°/s & Manual: 50°/s; Preset: 145°/s Our camera offers Manual Pan/Tile: 100°p sec/50°p sec and Preset Pan speed of 300°/sec & Preset Tilt 145 Deg/Sec which will give top tier image quality and performance with alternate focus .it is not recommended to control manually this much speed. Our similar cameras are already been installed at various Govt Building, international Airports and this defined manual speed will not affect the functional requirement at actual ground. So request you to kindly consider the same. 2. PAN & Tilt Speed:Manual: 100°/s Preset: 300°/s & Manual: 50°/s Preset: 145°/s"	As per RFP	Telecommunication s Consultants India Limited (1) Tatvik System Solutions Pvt Ltd (2)
	2.1.10.1 (B2)A8/59 (01)	ONVIF Profile S & G/S,G,T Online ONVIF S; G/ Profile S, G, T must be available for checking &	In order to have healthy participation and to allow a level playing field to all Potential Indian Camera OEMs please modify to Profile S/G. Also note that the	As per RFP	ARYA COMMUNICATI ONS AND



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
		confirmation. Hard copies shall also be submitted duly signed by POA as required. POA copy to be enclosed with Bids	only profile required for integrating between different OEMs of Cameras and VMS is Profile-S. Therefore kindly change to Profile S/G.		ELECTRONICS SERVICES PVT.LTD
	2.1.10.1 (B2)A10/59 (01)	Housing IP67 and IK10 rated Outdoor Housing Third Party Test certificates/Reports being duly signed by POA as required. POA copy to be enclosed with Bids. Original reports shall also be showcased.	In order to have healthy participation and to allow a level playing field to all Potential Indian Camera OEMs please modify to IP66/IP67 and IK10.	Kindly refer Corrigendum. Refer Appendix III-A	ARYA COMMUNICATIONS AND ELECTRONICS SERVICES PVT.LTD
	2.1.10.1 (B2)A11/59 (01)	Certification CE, FCC, UL/cUL, BIS, NEMA 4X Third Party Test certificates/Reports being duly signed by POA as required. POA copy to be enclosed with Bids. Original reports shall also be showcased.	1. Tender specification requires IP66/67 protection but certification asked for NEMA 4X, please modify this to CE, FCC, UL/cUL/BIS, NEMA 4X/IP66. Also note that the industry standard for weather protection of camrea is IP66/IP67 and IK10 for Vandal proofing. The NEMA 4X as protection criteria is used for products exposed in hazardous environment. 2. Request you to clear whether test certificates need to be showcased or test reports. If test reports need to submit so please allow to submit any 3 test reports out of the asked certificates.	Kindly refer Corrigendum. Refer Appendix III-A	ARYA COMMUNICATIONS AND ELECTRONICS SERVICES PVT.LTD(1) Globalrays(2)
	2.1.10.1(B2)B -1/60 (2)	2.1.10.1. PoC Scope and Technical Evaluation Parameters "Outdoor PTZ Camera - 4MP, 30x Optical Zoom and Joystick control operations Maximum Image Resolution:2592 × 1520 (4MP) or better"	Maximum Image Resolution:1920 × 1080 (2MP) or better PTZ Camera are used for PAN/Tilt/Zoom funcnalties . As per industry standard, PTZ camera are available in 2MP resolution only along with 30X Zoom. So request you to kindly ammend it as 2 MP. i.e. 1920x1080	As per RFP	Telecommunication s Consultants India Limited Tatvik System Solutions Pvt Ltd
	2.1.10.1(B2)B -10/61	2.1.10.1. PoC Scope and Technical Evaluation Parameters	SSH, HTTPS, AES protocols are supported for Security by most of the OEMs.	As per RFP	Radius Infotech (P) LTD.



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	(1)	Outdoor PTZ Camera - 4MP, 30x Optical Zoom and Joystick control operations B 10 Security SSL & TLS; SSH; HTTPS; 802.1x NAC; Multiple EAP methods; AES/DES Shall be tested in conjunction with proposed VMS by installing SSL Certificate for triggering the TLS to figure out the data security.	Thus, requesting you to amend the clause as - Security: SSH; HTTPS; AES/DES		
	2.1.10.1(B3)A -3/62 (2)	"2.1.10.1. PoC Scope and Technical Evaluation Parameters Outdoor Fixed ANPR Camera with IR Illuminator- 2MP Image Sensor 1/2" Progressive Scan CMOS Sensor 2.0 megapixel or better CMOS. Technical Data sheet/Product Manual/OEM Declaration of Compliance on Letter Head or all duly signed by POA as required. Factory Test Certificate shall be submitted. POA copy to be enclosed with Bids"	"Image Sensor:1/2.8" Progressive Scan CMOS Sensor 2.0 megapixel or better CMOS. As per industry standard, camera comes with 1/2.8" image sensor size, even in your other camera image sensor size is 1/3". SO request you to kindly amend the same with 1/2.8" or better."	Kindly refer corrigendum Refer Appendix III-A	Tatvik System Solutions Pvt Ltd Telecommunication s Consultants India Limited
	2.1.10.1(B3)A -6/63 (13)	2.1.10.1. PoC Scope and Technical Evaluation Parameters Outdoor Fixed ANPR Camera with IR Illuminator- 2MP Minimum Illumination Color: 0.001Lux @f/1.6 B/W: 0.001Lux @f/1.6	The cameras are Day & Night operation, the automatic switching will change the picture from color to B&W which is 0 lux with IR on. Therefore please modify to standard 0.1 lux for color and 0 lux for B&W with IR On. Request you to consider clause to amend Minimum Illumination: Color 0.10 Lux @ f1.6 /B/W :0.01 lux @F/16 or better, Justification :-Request you	Kindly Refer Corrigendum Refer Appendix III-A	ARYA COMMUNICATI ONS AND ELECTRONICS SERVICES PVT.LTD (1) VIVOTEK INC (2)



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
		Or better Technical Data sheet/Product Manual/OEM Declaration of Compliance on Letter Head or all duly signed by POA as required. Factory Test Certificate shall be submitted. POA copy to be enclosed with Bids	to consider to amend clause , it will not impact on functional requirement of systems.		Transline Technologies Pvt. Ltd. (2) Marushika Technology Advisors Pvt. Ltd. (2) DAK Infosoft (P) Ltd (2) NEC Corporation India Pvt. Ltd. (2) Hewlett Packard Enterprise India Private Limited (2) INTEC INFONET PVT. LTD. (2) Samsung SDS India Pvt Ltd. (2) HPE (2) Transline Technologies Pvt. Ltd. (2) Telecommunications Consultants India Limited (2)
	2.1.10.1(B3)A-9/63 (1)	2.1.10.1. PoC Scope and Technical Evaluation Parameters Outdoor Fixed ANPR Camera with IR Illuminator- 2MP 9. ONVIF Profile S & G/S,G.T Online ONVIF S; G/ Profile S, G, T must be available for checking & confirmation. Hard copies shall	In order to have healthy participation and to allow a level playing field to all Potential Indian Camera OEMs please modify to Profile S/G. Also note that the only profile required for integrating between different OEMs of Cameras and VMS is Profile-S. Therefore kindly change to Profile S/G.	As per RFP	ARYA COMMUNICATIONS AND ELECTRONICS SERVICES PVT.LTD



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		also be submitted duly signed by POA as required. POA copy to be enclosed with Bids			
	2.1.10.1(B3)A -10/63 (1)	2.1.10.1. PoC Scope and Technical Evaluation Parameters Outdoor Fixed ANPR Camera with IR Illuminator- 2MP 10. Operating Temperature -30 °C ~ 60 °C, Up to Humidity 90% Technical Data sheet/Product Manual/OEM Declaration of Compliance on Letter Head or all duly signed by POA as required. POA copy to be enclosed with Bids	In order to have healthy participation and to allow a level playing field to all potential Indian camera OEMs please modify to -20C to +50C.	Kindly Refer corrigendum. Refer Appendix III-A	ARYA COMMUNICATIONS AND ELECTRONICS SERVICES PVT.LTD
	2.1.10.1(B3)A -11/63 (1)	2.1.10.1. PoC Scope and Technical Evaluation Parameters Outdoor Fixed ANPR Camera with IR Illuminator- 2MP Housing IP67 and IK10 rated Outdoor Housing Third Party Test certificates/Reports being duly signed by POA as required. POA copy to be enclosed with Bids. Original reports shall also be showcased.	In order to have healthy participation and to allow a level playing field to all Potential Indian Camera OEMs please modify to IP66/IP67 and IK10.	Kindly Refer Corrigendum Refer Appendix III-A	ARYA COMMUNICATIONS AND ELECTRONICS SERVICES PVT.LTD
	2.1.10.1(B3)A -12 /64 (12)	2.1.10.1. PoC Scope and Technical Evaluation Parameters Outdoor Fixed ANPR Camera with IR Illuminator- 2MP Certification CE, FCC, UL/cUL, BIS, NEMA 4X Third Party Test certificates/Reports being duly	Tender specification requires IP66/67 protection but certification asked for NEMA 4X, please modify this to CE, FCC, UL/cUL/BIS, NEMA 4X/IP66. Also note that the industry standard for weather protection of camrea is IP66/IP67 and IK10 for Vandal proofing. The NEMA 4X as protection criteria	Kindly Refer Corrigendum Refer Appendix III-A	ARYA COMMUNICATIONS AND ELECTRONICS SERVICES PVT.LTD (1)



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		signed by POA as required. POA copy to be enclosed with Bids. Original reports shall also be showcased.	is used for products exposed in hazardous environment. "Request you to consider to amend certification clause :- IP66/NEMA-4X Justification:-IP 66 rating are sufficient which will protect camera from solid objects and ingress of water. While NEMA-4X rating are used in seashore and salty area . Request you to consider to amend the clause IP66/NEMA-4X ."		NEC Corporation India Pvt. Ltd. (2) Hewlett Packard Enterprise India Private Limited (2) INTEC INFONET PVT. LTD. (2) Samsung SDS India Pvt Ltd. (2) HPE (2) DAK Infosoft (P) Ltd (2) VIVOTEK INC (2) Transline Technologies Pvt. Ltd. (2) HPE (2) Telecommunication s Consultants India Limited (2) Marushika Technology Advisors Pvt. Ltd (2).
	2.1.10.1(B3)B -3 /64 (3)	2.1.10.1. PoC Scope and Technical Evaluation Parameters Outdoor Fixed ANPR Camera with IR Illuminator- 2MP Shutter Speed Auto / Manual, 1s ~ 1/30000s or better Able to define the Shutter Speed from Camera Web Browsing Window	Shutte Speed: Auto /Manual, 1s ~ 1/10000 Sec In Normal realstic enviornment, Camera with 1/10,000 Shutter Speed is meeting the functional requirement as practically we need in the range only 1/500~1/1000 Sec. So request you to kindly ammend the same with 1/10000 Sec Speed.	Kindly Refer Corrigendum Refer Appendix III-A	Telecommunication s Consultants India Limited Tatvik System Solutions Pvt Ltd ARYA COMMUNICATI ONS AND



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
					ELECTRONICS SERVICES PVT.LTD
	2.1.10.1(B3)B-10 /65 (1)	2.1.10.1. PoC Scope and Technical Evaluation Parameters Outdoor Fixed ANPR Camera with IR Illuminator- 2MP Security SSL & TLS; SSH; HTTPS; 802.1x NAC; Multiple EAP methods; AES/DES Shall be tested in conjunction with proposed VMS by installing SSL Certificate for triggering the TLS to figure out the data security.	AES, HTTPS, 802.1X protocols are supported for Security by most of the OEMs for ANPR application. Thus, requesting you to amend the clause as - Security: AES, HTTPS, 802.1X	Kindly Refer Corrigendum Refer Appendix III-A	Radius Infotech (P) LTD.
	2.1.10.1 /66 (01)	B. Compliance of the software solutions to the Tender Specifications Indicative Reference Design:	In the diagram, UC & C Client is represented as separate box than Command Center. Does the UC & C client represents terminal to run ICCS Softwares in Command Center (C4I)? Or UC & C client is totally outside Command Center (C4I) and it is an independent system?	Kindly refer RFP {UC & C client represents terminal to run ICCS Softwares in Command Center (C4I)}	Hitachi Vantara India Pvt Ltd
	2.1.10.1(B.1)I CCC- (1c & 11)/67 &71 (4)	User Interface and operator Simplicity c. Troubleshooting tools for various sub systems in the areas of VMS, Analytics, Video Synopsis, Network layer, Cameras, Cyber security etc. connected with the UC & C module. Proactive Intelligence tools a. Demonstrate the ease of configuration and management of	1. As per our observation multiple features envisaged as part of POC acceptance criteria are button level features of one specific OEMs product feature. We recommend that features envisaged as part of demonstration should be focussed towards achieving/fulfilment of the use cases rather evaluating micro level features. Each OEM may have their own way/better way of delivering the outcomes. The current acceptance criteria is a demonstration of feature testing rather than outcome oriented use case showcase. Request to revise the POC guidelines by eliminating vendor specific features.	ICCS is central architecture for huge setup and system which we are expecting in the project, centralize system is always easy to manage, ICCS is open platform where multiple sub-systems and tools can be integrated and provide advantage.	Matrix Security & Surveillance Pvt Ltd(1) Trinity Mobility(1) Honeywell Automation India Ltd.(1) Honeywell(1) NXTGEN(2)



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		proactive threat activation tools within UC & C interface. b. Activate a specific Alarm / threat from UC & C or Mobile interface and demonstrate the proactive action system can take for specific action related to the threat activated. For Ex, Bomb alert, Suspicious package / object detection etc.	2. BSNL is a Government of India organisation with diversified business portfolio. MeitY has empaneled BSNL Cloud services across Public Cloud, Virtual Private Cloud and Government Community Cloud. BSNL has been serving multiple National endeavours and Govt. Departments offering its cloud services as well as providing Smart City solutions. Hence BSNL request relaxation of the clause for being a profit making organisation to be an eligibility criteria and allow for BSNL to be eligible for the bid. This relaxation may be extended to Govt. entities such as BSNL for encouraging participation		
	2.1.10.1(B.1) ICC- (1c)/67 (1)	B.1. ICC Demonstrate the UC & C operator interface covering the below aspects of the specification c. Troubleshooting tools for various sub systems in the areas of VMS, Analytics, Video Synopsis, Network layer, Cameras, Cyber security etc. connected with the UC & C module.	We assumed troubleshooting of various components mentioned here, is referring to the health of edge components connected to respective system and to UC&C system. Please confirm.	Tools should cover various functionalities like real time video loss , image quality , packet loss analysis, network related impacting the system , Camera / edge device discovery , Import of Map 's etc.	NEC Corporation India Pvt. Ltd.
	2.1.10.1(B.1)I CCC- (2)/67 (1)	B.1 ICC Reliability and Failover Demonstrate the Native failover capabilities of the UC & C Platform, Clients connection and its impact during the failure, Impact on the Database and re connection, Switch over time between the primary and secondary servers and impact and	Every OEM has a different solution approach to provide the scalability, high availability using readily available options. Hence request you to modify to "Demonstrate the Native failover or High Availability capabilities of the UC & C Platform, Clients connection and its impact during the failure, Impact on the Database and re connection, Switch over time between the primary and secondary servers and impact and Automatic recovery of the system with no manual intervention when the Primary DC is up and operational"	As per RFP (Both are one and the same, while in HA secondary has to kick off after primary failure.)	NEC Corporation India Pvt. Ltd.



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
		Automatic recovery of the system with no manual intervention when the Primary DC is up and operational			
	2.1.10.1(B.1)I CCC- (3) /67 (1)	B.1 ICC Single User Interface Demonstrate the UC & C interface capabilities for all the other sub systems including the VMS, Incident management, Alarm management, 3rd party meta data, Video synopsis from UC & C interface etc.	Can we please also request during the PoC the platform should show SSO and other sign in capabilities to have seamless integration amongst all other applications?	MSI is allowed to demonstrate any better capabilities during the POC. The guidelines are the minimum requirements outlined for the POC.	Hitachi Vantara India Pvt Ltd
	2.1.10.1(B.1) ICCC- (4)/67 (1)	3rd party device support Demonstrate the user interface to support configure, manage, and monitor 3rd party devices like Cameras, communication devices, operator to operator voice communication interface etc.	Can we request, along with this the system should be open platform and demonstrate system's ability to integrate any data with very minimal or zero coding and development capabilities for ease of using teh systems during O&M	MSI is allowed to demonstrate any better capabilities during the POC. The guidelines are the minimum requirements outlined for the POC.	Hitachi Vantara India Pvt Ltd
	2.1.10.1(B.1) ICCC- (1d)/67 (1)	B.1 ICC Demonstrate the UC & C operator interface covering the below aspects of the specification d. Flexibility to configure, manage and monitor operator screens and functionalities based on the operator type. For ex, configuring the system for PTZ access or certain camera access only to certain type of operators /	Can we request the Platform be demonstrated to have cameras plotted on the map and SOP / Integration creation using drag and drop mechanisms instead of coding and development work.	As Per RFP (MSI to consider to do the needful meeting the requirements and accordingly demonstrate the POC in accordance to the indicative guidelines provided.)	Hitachi Vantara India Pvt Ltd



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		analysts. More use cases must be demonstrated around the flexibility of the configurations and how those configurations would impact the operator interface in real time Command Center			
	2.1.10.1(B.1)I CCC- (6)/68 (1)	6.Situational Awareness module (Maps) b. Drill down capabilities of the maps from GIS to offline maps all the way to floor level.	What will be the source of floor level information? Please clarify, such type of information is available with GIS map provided by C-DAC.	As Per RFP (Clarification: Map will be provided by CDAC.)	Scanpoint Geomatics Ltd
	2.1.10.1(B.1)I CCC- (7)/69 (16)	UC & C Alarm and Events management capabilities a. Demonstrate the capabilities of alarm management with in UC & C interface both native and from 3rd party systems like Video Analytics, FR, Video synopsis etc.	Kindly let us know the expected integration and the alerts from the Video Synopsis system. As we understand, the UC & C platform should show the pre and post duration video clip of an incident fetched from the VMS. Kindly confirm. The requirement of chain snatching is not part of the RFP scope. We request you to kindly consider the use case as part of the scope of delete the requirement.	As per RFP As per RFP chain snatching is just an example given here.	Larsen & Toubro Ltd (1,3) Matrix Security & Surveillance Pvt Ltd (1,2,3) Bodhtree (1,2,3) PruTech Solutions (2,3) India Pvt. Ltd. Tech Mahindra (2) Videonetics Technologies Pvt Ltd. (2,3) Sterlite Technologies Limited (3) Johnson Controls (3)
	2.1.10.1(B.1)I CCC- (9) /71 (1)	BDCR Use cases b. Integrated / interface with Min 4 - 5 data sources can be simulated for Crime related data	During POC, doing this activity requires more development as bidder don't have idea on data structure of these sources. Also OEMs are capable to interface with these sources and deliver the solution. Please dilute this clause.	As Per RFP (Kindly take help from OEM to integrate.)	NEC Corporation India Pvt. Ltd.



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
		sources and live for CCTV data source and demonstrate the Co Relation / Data Mining capabilities from UC & C platform.			
	2.1.10.1(B.1)I CCC- (10)/71 (2)	Reporting Capabilities Demonstrate all the reporting capabilities as sought in the RFP in dashboard formats covering the Health status of the devices, Operators connected, 3rd party devices connected, Real time alarms, Live incidents, Cyber Security parameters etc. from the UC & C interface	These reports and dashboards should be integrated with dynamic maps interface as well to provide policing the capabilities to see real time updates and reports as per location and making the reports more user specific	As per RFP	Esri India Technologies Private Limited Prakhar Software Solutions
	2.1.10.1(B.1) ICCC- (12)/72 (2)	Mobile App h. Demonstrate all the other Mobile app capabilities.	As per our understanding, demonstration of the capabilities of SOPs / alarm management on the mobile app is also part of the POC. requirement Request you to kindly confirm if the same is correct.	Yes	NEC Corporation India Pvt. Ltd. Larsen & Toubro Ltd
	2.1.10.1(B.1) VMS- (2)/73 (8)	Monitoring i. Demonstrate camera from Community feeds for all 3 possible design as outlined in the RFP in single plane of view in the operator interface.	Sr. No. 9. Community Surveillance on page 136 asks for LAN/WAN connectivity and Edge based IOT Gateway only. It would be difficult to demonstrate the requirement of Public IP Network in the PoC setup. Kindly confirm. "General: We understand to avoid duplicity in features, combination of ICCC/VMS/Other software can be considered to meet overall functional and technical requirements of Video management software, please confirm that our understanding is correct"	As Per RFP All the community cameras using edge gateway interface will be monitor at ICCC interface It can be combination, but as it will be better to provide as per RFP	Matrix Security & Surveillance Pvt Ltd (1) Larsen & Toubro Ltd (1) Videonetics Technologies Pvt Ltd. (1) PruTech Solutions India Pvt. Ltd. (1) Tech Mahindra (1) Johnson Controls (1) Bodhtree (1) Honeywell (2)



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	2.1.10.1(B.1) VMS- (3) /73 (1)	PTZ Functionalities Demonstrate the overall PTZ functionalities. c. PTZ Free Look Mode Zooms with Mouse wheel d. PTZ pan, tilt, zooms with the PTZ Widget h. PTZ - Calibration tool	General: We understand to avoid duplicity in features, combination of ICCV/VMS/Other software can be considered to meet overall functional and technical requirements of Video management software, please confirm that our understanding is correct	It can be combination, but as it will be better to provide as per RFP	Honeywell
	2.1.10.1(B.1) VMS- (4)/74 (2)	Recording Demonstration of the following features. g. While in playback mode, seek two different places within the timeline	This is OEM specific point. Request to please remove.	As per RFP (Better Playback option can be shown by MSI)	Honeywell Honeywell Automation India Ltd.
	2.1.10.1(B.1) VMS- (7)/75 (2)	Camera Authentication Scheme e. Native tools / system capabilities to handle Brute force attacks for failed logins.	This is OEM specific point. Request to please remove.	As per RFP (It can show through integration of third-party tool.)	Honeywell Honeywell Automation India Ltd.
	2.1.10.1(B.1) VMS- (7)/75 (5)	Camera Authentication Scheme d. Operator interface having the ability to notify for new camera Firmware and upgrading the camera firmware directly from the same operator interface.	The use case would be difficult to demonstrate since the cameras may or may not have the latest firmware update during the PoC. Moreover, the cameras are supplied with the latest firmware to ensure proper PoC. We request you to kindly relax this use case or allow the Bidders to explain how this happens.	Kindly refer Corrigendum Refer Appendix III-A	Matrix Security & Surveillance Pvt Ltd Videonetics Technologies Pvt Ltd. PruTech Solutions India Pvt. Ltd. Tech Mahindra Bodhtree
	2.1.10.1(B.1) VMS- (8)/75 (7)	Forensic search tools Demonstrate the following Investigation / Forensic tools - a. Demonstrate the capability of video search based on area of	General: We understand to avoid duplicity in features, combination of ICCV/VMS/Other software can be considered to meet overall functional and technical requirements of Video management	This point is deleted from VMS and added(moved) to POC for other software under para 2.1.10.1(D)-	Matrix Security & Surveillance Pvt Ltd (1) Videonetics Technologies Pvt Ltd. (1)



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		interest or object for easy investigation and large recorded video data condensed into small time frame video related to the area of interest or object selected for play back. b. Demonstrate camera to camera tracking tools without manually switching between cameras to track area of interest or possible suspects / people. c. Demonstrate the Video synopsis capabilities within the operator interface. d. Demonstrate the FR capabilities with Metadata overlay for hotlist alarms etc.	software, please confirm that our understanding is correct The use case would be difficult to demonstrate during POC	AI Based Video Intelligence Platform & Video Analytics Use Case Parameters for Proof of Concept – As per RFP (MSI has to try and provide maximum use-cases and functionality useful to meet the solution requirements)	PruTech Solutions India Pvt. Ltd. (1) Tech Mahindra (1) Bodhtree (1) Honeywell Automation India Ltd. (2) Honeywell (2)
	2.1.10.1(B.3)L 3 Field Switch- (1c)/76 (3)	B.3. L2 Field Switch Edge Switches (L2 8 Port Field Switch) c. To ensure flexible delivery and power savings, switch should be configured for POE power scheduling daily and weekly per time interval	This statement is specific to one OEM and is restricting leading OEM participation. Normally, all leading OEM supports 802.3af/802.3at standards and meets the desired functionality. Also modifying this specific clause do not have any impact on the solution functionality, hence request you to kindly change the clause as "c. To ensure flexible delivery and power savings, switch should be configured as per 802.3af/802.3at standards"	As Per RFP	Cisco Matrix Security & Surveillance Pvt Ltd Cisco
	2.1.10.1(B.3)L 3 Field Switch- (1j) /77 (13)	'B.3. L2 Field Switch Edge Switches (L2 8 Port Field Switch) j. Switch should be configurable via CLI or GUI to test device performance for throughput, latency	Its specific to an OEM, please relax it as its restricting us from bidding. The throughput and latency can be checked with testing equipment's or via NMS. It can't be checked through switch CLI or GUI, so please change the clause as "test device performance for throughput, latency via NMS or testing equipment"	Kindly refer Corrigendum Refer Appendix III-A	Marushika Technology Advisors Pvt. Ltd. (3,5) Netstack Infratech Pvt(2) INTEC INFONET PVT. LTD. (3,1)



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			The throughput and latency can be checked with testing equipments or via NMS. It can't be checked through switch CLI or GUI, so please change the clause as ""test device performance for throughput, latency via NMS or testing equipment"". The testing of the performance of the switch can not be done through CLI or GUI. The throughput and latency can be checked with testing equipments or via NMS. Henceforth is requested to please consider rephrasing the statement to- 'test device performance for throughput, latency via NMS or testing equipment' or any other as deemed appropriate." It's is specific to an OEM, as an industry standard, it is a NMS/EMS functionality. So please change the clause as Test device performance for throughput, latency via NMS /77Its specific to an OEM, please relax it as its restricting us from bidding. It is specific to Extreme Networks, please relax the same. Dievas Technologies Private Limited It's is specific to an OEM, as an industry standard, it is a NMS/EMS functionality. So please change the clause as Test device performance for throughput, latency via NMS		Marushika Technology Advisors Pvt. Ltd. (3,5) PICONET INNOVATIVE SOLUTION PVT LTD(2) Transline Technologies Pvt. Ltd. (2) Dievas Technologies Pvt Ltd(2) A S Infotech E-Solutions Pvt. Ltd. (1) Dievas Technologies Pvt Ltd(4) DRS IT Consultancy Pvt. Ltd.(5) Tatvik System Solutions Pvt Ltd(6)
	2.1.10.1(B.3)L 3 Field Switch- (1j)/77	'B.3. L2 Field Switch Edge Switches (L2 8 Port Field Switch)	Kindly specify the distance and type (Single-Mode / Multi-Mode).	As Per RFP	Sterlite Technologies Limited



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	(1)			(Clarification: ISP will provide Fiber till junction box)	
	2.1.10.1(B.3)L 3 Field Switch- (1k)/ 77 (2)	'B.3. L2 Field Switch Edge Switches (L2 8 Port Field Switch) k. PIM protocol-based multicast functionality if provided will be added advantage.	PIM is layer 3 functionality. It is suggested to go for layer 3 features for field switches in order to have flexible deployment options and deeper insight. Hence, it is requested to kindly ask the following in Field Switch specifications as "Switch shall support OSPF, EIGRP, BGPv4, IS-IS, PIM-SM, PIM-SSM, 802.1ae MACsec, IPv4 & IPv6 sflow or equivalent agents"	Kindly refer Corrigendum Refer Appendix III-A	Cisco Matrix Security & Surveillance Pvt Ltd
	2.1.10.1(B.3)L 3 Field Switch- (1l)/ 77 (2)	'B.3. L2 Field Switch Edge Switches (L2 8 Port Field Switch) l. Vendor should configure G.8032 protocol for ring protection and recovery of traffic in <50 ms. Vendor should configure at least 4 switches in the ring for this test	Different OEM works on different protocols. Relaxing this statement will not have any impact on the ask of the desired functionality. Kindly change the clause as "l. Vendor should configure G.8032 or equivalent protocol for ring protection and recovery of traffic in <50 ms. Vendor should configure at least 4 switches in the ring for this test"	Kindly refer Corrigendum Refer Appendix III-A	Cisco Matrix Security & Surveillance Pvt Ltd
	2.1.10.1(C)4 /78 (6)	C. Compliance to the integration requirements as specified in the Tender Specifications NAC : Integration with NAC	Please confirm what are the policies going to push from NAC to switch, DACL, VLAN change, Bandwidth Limit, bounce port, disable port etc. As NAC is quite vast requested to let us know what are the Policies which are going to be pushed from NAC to switch viz. DACL, VLAN Change, Bandwidth Limit, bounce port, disable port etc.	As per RFP (Minimum Asked in RFP)	Triflex Solutions(1) Globalrays Technologies(1) Presto (2) Telecommunication s Consultants India Limited (2) Presto Infosolutions Pvt. Ltd. (2) BHARAT ELECTRONICS LIMITED (2)
	2.1.10.1(D)1 /79 (5)	D.1. Innovation Any new and out of the box	Will the Customer consider the VA use cases which are new and out of the box showcase? Kindly explain	As Per RFP	Videonetics Technologies Pvt Ltd.



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		showcase which can help CDAC and Delhi Police.	the purpose of such point. Will the Bidder get additional points if such VA use cases is showcased?	(Explanation: Bidder can showcase relevant use cases of women safety and offer better solution)	Tech Mahindra PruTech Solutions India Pvt. Ltd. Matrix Security & Surveillance Pvt Ltd Bodhtree
	2.1.10.1(D)2 /79 (10)	High Availability and Virtualization Support Bidder to showcase High Availability and Virtualization capability of Video Analytics Platform in case of failure of any one node. The POC documentation should include a benchmarking reports / case studies to support the capabilities.	The virtualisation and HA support is not asked in the VMS. We request you to kindly ask for the same. In case the OEM has integrated VMS and VA platform, we request you to consider the virtualisation and HA support within the VMS platform. In case of GPU servers, the virtualisation support will not be available. It can be shown for other components in the system. Kindly confirm. As we understand, the Bidder to showcase addition of new use cases and demonstration of the configuration of such requirements is the expectation. It is also expected that the Bidder to explain the API/SDK integration framework to integrate third party video analytics.	As per RFP (Respective OEM need to arrange required hardware to demonstrate this functionality)	Bodhtree (1,2) Matrix Security & Surveillance Pvt Ltd (1,2) PruTech Solutions India Pvt. Ltd. (1,2) Tech Mahindra (1,2) Videonetics Technologies Pvt Ltd. (1,2)
	2.1.10.1(D)8 /81 (6)	Deployment of use cases across any camera Bidder to showcase the following capabilities of the AI based Video Analytics Platform in detail during the POC - • All the Analytics including FRS and ANPR applications should be deployed across the cameras using the same Video Analytics Platform	Does Delhi Police want to specify that all the systems e.g. VMS, VA, FRS and ANPR should be from the same OEM and it should be available through a single client application? Kindly confirm the exact requirement. Practically, One cannot run ANPR or FRS on any connected cameras as both systems need appropriate angel and pixels to work effectively. So please drop this expectation.	Kindly refer corrigendum Refer Appendix III-A (Clarification: It can be from separate OEM but should work under Platform for channel management.)	Bodhtree (1) Matrix Security & Surveillance Pvt Ltd (1) Videonetics Technologies Pvt Ltd. (1) PruTech Solutions India Pvt. Ltd. (1) Tech Mahindra (1) DAK Infosoft (P) Ltd (2)



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	2.1.10.1(D) 12 /82 (7)	Hardware Sizing and Benchmarking The system should process the video at the actual camera resolution at the camera frame rate.	The actual resolution of the camera is 4 MP. Whereas we feel the system has been sized considering 2 MP resolution. Moreover, the FRS specifications mention processing of 2 MP resolution. Kindly confirm which resolution the analytics should process. This will have an impact on the GPU and hardware requirements.	As Per RFP	Bodhtree PruTech Solutions India Pvt. Ltd. Tech Mahindra Johnson Controls Videonetics Technologies Pvt Ltd. Matrix Security & Surveillance Pvt Ltd Larsen & Toubro Ltd
	2.1.10.1(D) 13 /83 (22)	ANPR ANPR Functionality test in demonstration. - Accuracy should be Minimum 95% during the day assignment of labels to individual number plates, such as 'VIP', 'offender', etc. - The solution shall demonstrate the detection of number plate in standard format and in different fonts. The solution provider shall create test cases to detect different number plates. (Accuracy >90%) - The solution provider shall demonstrate the detection of Number plat using IR illuminators in the dark during the night. (Accuracy >90%)	The accuracy requirement is not clear. Does it mean that the accuracy of detecting VIP, Offender labelled number plates as read by the system should be 95% during the day? As per the RFP clause we understand that the accuracy provided is not similar in all the clauses, request to clearly define the accuracy to be considered during day and night time. These features are ideally achieved using Video analytics in combination with OCR and need additional processing. Is this additional requirement of processing is factored in designing the requirement of the total server for the ANPR system? Kindly confirm the accuracy of >90% is for the detection of vehicles or the License Plate recognition of the vehicles? Will the Bidders select the test video data set or Delhi police will provide the video data set? In the interest of checking the robustness and accuracy of the ANPR system we request Delhi Police to provide the Video Data Set. This will give equal	As per RFP	Matrix Security & Surveillance Pvt Ltd (1,4,5) Larsen & Toubro Ltd (1,2,4,5) Videonetics Technologies Pvt Ltd. (1,4,5) PruTech Solutions India Pvt. Ltd. (1,4,5) Tech Mahindra (1,4,5) Bodhtree (1,4) DAK Infosoft (P) Ltd (3) Johnson Controls (4)



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			platform to all the OEMs to showcase the ANPR capabilities.		
	2.1.10.1(D) 15 / 84 (5)	Crowd Estimation and Management Functionality test in demonstration. - Showcase estimation of crowd in extremely dense environments like public processions and festivals, rally etc. Evaluation Parameters – - The accuracy of detection should be above 85% on the video provided by the evaluation committee.	Kindly clarify when the evaluation committee will provide the videos? Kindly also explain the size of the video and the format for the video.	As Per RFP (Clarification: CDAC might provide the videos or MSI has to keep their Videos as well for the demonstration, Both the cases are possible)	Matrix Security & Surveillance Pvt Ltd Videonetics Technologies Pvt Ltd. PruTech Solutions India Pvt. Ltd. Tech Mahindra Bodhtree
	2.1.10.1(D) 16/84 (8)	Person Collapsing Functionality test in demonstration. The app should detect if a person walking upright has collapsed or fallen on the ground. Evaluation Parameters – - This app should raise an alert if any pedestrian is Jay walking. - The app should provide zone wise data of both the pedestrian movements at zebra crossings and jay walking with a minimum of hourly granularity	This appears to be a typographic error, as in the person collapsing use-case, the evaluation parameters seem to convey "Jaywalking detection". Request your clarification on the same. "The functionality use case is to detect the collapsed person. Whereas the evaluation parameter mentions Jaywalking detection. We believe this is a typo mistake since the Jaywalking detection use case is not part of the RFP scope. Kindly verify the requirement.	Kindly Refer Corrigendum Refer Appendix III-A	Awidit Systems Private Ltd (Awiros) (1) Bodhtree (2) Johnson Controls (2) Tech Mahindra (2) PruTech Solutions India Pvt. Ltd. (2) Videonetics Technologies Pvt Ltd. (2) Larsen & Toubro Ltd (2) Matrix Security & Surveillance Pvt Ltd (2)
	2.1.10.1(D) 17 / 84 (6)	Camera Health Monitoring Functionality test in	Kindly clarify when the evaluation committee will provide the videos? Kindly also explain the size of the video and the format for the video.	Kindly refer Corrigendum.	Larsen & Toubro Ltd



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		demonstration. Evaluation Parameters – • The accuracy of application be above 90 % on the video provided by the evaluation committee.		Refer Appendix III-A	Matrix Security & Surveillance Pvt Ltd Videonetics Technologies Pvt Ltd. PruTech Solutions India Pvt. Ltd. Tech Mahindra Bodhtree
	2.1.11/ 85 (1)	2.1.11. Award of Contract /Order The Contract will be awarded to the bidder securing highest CTFS. However, C-DAC reserves the right to discard the bidder securing highest CTFS. The scope of contract will cover implementation of all phases including warranty for 05 years and O & M for three years. Delhi Police may enter into a contract for CAMC services, after expiry of warranty period. However, the prices quoted by the bidder for CAMC services will be binding on bidder. A contract will be signed on receipt of performance bank guarantee from the selected bidder. The draft contract form is provided in RFP Chapter 6.	We understand that, 1. MSI shall be responsible for Project Implementation & 3 years of O&M post Go-live. 2. Terms for Contract Agreement with MSI shall also be same i.e. Project Implementation + 3 years of O&M. 3. Additional 3 years of CAMC post warranty period shall be optional & shall not be considered for Bid Evaluation. Please confirm whether our understanding is correct.	As Per RFP Yes, your understanding is correct.	Larsen & Toubro Ltd
	/ 85 (2)	2.1.13. Locations for Delivery and Project Implementation The selected bidder shall be required to carry out the project implementation activities within the physical boundary of NCT	We request to provide location wise equipment details (number of fixed camera, PTZ camera, ANPR location, ANPR lane details, PA location etc)for accurate calculation of switches, UPS capacity, and Field enclosure sizes at particular location	As Per RFP (Justification: After signing NDA, C-DAC will provide info	Larsen & Toubro Ltd Johnson Controls



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		Delhi Police Commissionerate comprising of 16 districts. The locations for DC, near DR, C4i, C3i , C2i, and field locations are indicated in the location map, and same will be shared post the signing of the Non- Disclosure agreement with selected bidder.	With reference to the RFP clause " locations are indicated in the location map" the locations map is not available in the RFP. Also request to share the location list for DC, near DR, C4i, C3i , C2i, and field locations of with latitude and longitude for better designing of the solution Kindly share the field location list to arrive at accurate passive and active BoQ.	after MSI request is generated.)	
	(h)/86 (2)	2.1.14. Prices h. All prices should be quoted excluding applicable GST. Bidder must indicate rates of current applicable GST separately for each line item.	Replace with, 'Price shall be exclusive of all taxes, duties, cesses and levies'	As per RFP	CNT Johnson Controls
	(i)/86 (2)	2.1.14. Prices i. In case of change in Government statutory taxes/ duties, the taxes and / or duties applicable as on date of supply will prevail.	This clause only covers the existing taxes/Duties and that only for supply. There is no mention if Government has introduced any new taxes, please confirm. This clause also not covers if there is some time lag between the date of supply as well as actual invoicing and in between there is changes in the rate of taxes by Government. In view of this request you to include Statutory variation clause such as "our contract price would be amended if there is any amendment of existing taxes /duties/levies or there is introduction of any new taxes /duties/ levies by any state Government or central Government "	As Per RFP	Honeywell Honeywell Automation India Ltd.
	/86 (2)	2.1.15. Performance Security	Procurement Policy Division, Department of Expenditure, Ministry of Finance, Government of India, vide its office memorandum no. F.18/4/2020-PPD dated 13th May '2020 and F.9/4/2020-PPD dated 12th Nov.'2020 has communicated that -	Kindly refer corrigendum Refer Clause 2.1.15	presto Presto Infosolutions Pvt. Ltd.



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			"The contractee (Government agency / Department) may return performance security to the contractor/supplier as is proportional to the supplies made / contract work completed to the total contract." Hence it is requested that PBG may be released on basis of propotionate amount of work completed.		
	2.1.15/86 (3)	2.1.15. Performance Security The PBG shall be from a Nationalized Bank or a Scheduled Commercial Bank in the format prescribed in the RFP	PBG shall be submitted in mutually agreed format	As per RFP	Samsung SDS India Pvt Ltd. Johnson Controls CNT
	2.1.15/86 (5)	2.1.15. Performance Security The Performance Bank Guarantee shall be valid till satisfactory completion of warranty period (Go-live of Phase-3 + 62 months).	Request you to confirm whether initially we can provide Performance security up to period of 3.5 years along with the letter mentioning that New PBG will be issued for future required period before expiring this BG Since the supply and execution is in phases which is spread over multiple months. Hence it is requested to kindly consider the PBG in staggered manner. We request you to consider separate PBG for CAPEX and OPEX period corresponding to the respective value as per general norms.	As per RFP (Initially performance security shall be submitted for period of 5 years (03 years warranty + 02 Years Extended warranty). Performance security for CAMC period shall be submitted separately after five years period)	Honeywell Honeywell Automation India Ltd. Presto Infosolutions Pvt. Ltd. Presto Sterlite Technologies Limited Bharat Electronics Limited
	2.1.15/86 (13)	2.1.15. Performance Security This Performance Bank Guarantee shall be for an amount equivalent to 10% of total contract value	(1) As per Min. of Finance OM No. F.9/4/2020-PPD dated 12th Nov. 2020, PBG rate is fixed at 3% of TCV. Kindly revise the rate of PBG in this clause. (2) Since the contract validity is for 3 years from date of Go-live, the PBG validity should also be for 3 years from date of Go-live. The BG can be extended by the MSI in case of extension of AMC services. (3) Please clarify that the MSI shall be notified of	Kindly Refer Corrigendum Refer Clause 2.1.15 This Performance Bank Guarantee shall be for an amount equivalent to 3% of total contract value	Honeywell (1) Honeywell Automation India Ltd. (1) Vaaan Infra Pvt. Ltd.(2) HPE (3) presto (4) Presto Infosolutions Pvt. Ltd. (4)



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			any default in writing and granted a cure-period of 30 days before the PBG in forfeited. "Please be apprised that in the recent communication of Government of India, Ministry of Finance, Department of Expenditure, Procurement Policy Division i.e. their Office Memorandum No. F.9/4/2020-PPD dated 12th November 2020 the PBG has been reduced from existing 5-10% to 3% of the contract value for all the tenders/contracts. Copy of this communication is attached with this pre-bid queries for your ready reference. We are also reproducing the content of the serial number 3 & 4 below: 3. "....., it is decided to reduce Performance Security from existing 5-10% to 3% of the value of the contract for all existing contracts. However, ..." 4. "Further, all tenders/ contracts issued/ concluded till 31 .12.2021 should also have the Provision of reduced Performance Security."" Bidder request to allow yearly renewal BG of 3% of TCV for entire contract duration. "As per the guidelines issued by Government of India, the PBG may be reduced to 3%. Further, it is requested that the 3% value of the PBG may be calculated on the Supply and I&C value, without tax, while the PBG for AMC may be taken at the time of start of AMC" In light of the global COVID-19 pandemic & various Govt. guidelines in that regard, PBG shall be 3%. MoF has also issued a memorandum in this regard (Refer No. F.9/4/2020-PPD dated -Nov-2020) "Reqeust you to kindly amend the clause as below:		Sterlite Technologies Limited (5,6) TechnoSys (7) HFCL Limited(7) Bharat Electronics Limited(8) L& T(9)



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			This Performance Bank Guarantee shall be for an amount equivalent to ___% of total CAPEX contract value. Upon start of O&M period, the bidder to submit Performance Bank Guarantee for an amount equivalent to ___% of total O&M contract value valid for a period of 36 months post release of Implementation phase PBG." The Ministry of Finance (MoF) has issued a notification (Office Memo No. F.9/4/2020-PPD for Rule 171 of General Financial Rules (GFRs) 2017) revising the performance security deposits for tenders to 3% of the contract value from the previous range of 5%-10% amid the COVID-19 induced economic slowdown. Please consider to reduce the performance security deposit to 3%. As per the latest GoI Notification, PBG is reduced to 3.0%. Please amend the RFP as per same. As per the recent Notification No. F.9/4/42020-PPD from the Ministry of Finance, we request you to kindly limit the Performance Bank Guarantee to 3% of contract value instead of present requirement of 10% of contract value. Hence kindly amend the clause as, "This Performance Bank Guarantee shall be for an amount equivalent to ~~10%~~ 3% of total contract value." We request you to kindly consider 2 Separate PBGs for CAPEX & OPEX Period. PBG 1 : 3% of CAPEX Value PBG 2: 3% of OPEX Value		



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			PBG Submitted during CAPEX shall be returned after Implementation Period.		
	2.1.16/87 (3)	2.1.16. Timelines linked with Payment Schedule '10% of the Contract Value will be given against Submission of ABG (Advance Bank Guarantee) of 10% as per format given in RFP	ABG shall be submitted in mutually agreed format	As per RFP	Johnson Controls Samsung SDS India Pvt Ltd. CNT
	2.1.16/87 (6)	2.1.16. Timelines linked with Payment Schedule	As per the timelines given we understand all 4 Phases would start in parallel and the total period for project implementation would be 53 weeks only. Please confirm. Please confirm maximum days after submission of Invoice as per due milestone, in which payment will be made to MSI , and in case of delay in payment from department side, department will extend Project time lines or bear the interest of that period , Please confirm TechM suggest that MSI should get 100% payment for the H/W, S/W supplied and installed including Integration Charges or any other services rendered till go live. "In order to streamline the invoicing across phases and ensure liquidity for MSI: 10% of contract price advance; 60% on supply on pro-rata basis; 20% against installation/integration on pro-rata basis; 5% of Phase wise Go-Live 5% on Project Go-Live" "We request you to kindly include the following clause to ensure timely payment: Payment to be made within 30 days of submission of invoice. In case of delay, interest @ 1.5% per month of part thereof shall be paid."	As per RFP	EFKON India Pvt. Ltd (1) TechnoSys (2) Tech Mahindra(3) Sterlite Technologies Limited(4,5) TechnoSys (6)



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			As per government of India Ministry of Finance Department of Expenditure Procurement Policy Division via OFFICE MEMORANDUM no- No. F.9/4/2020-PPD Dated the 12th November 2020, government has decided to reduce Performance Security from existing 5-10% to 3% of the value of the contract. Therefore requesting you to please change in your published RFP also.		
	2.1.16/87 (3)	2.1.16. Timelines linked with Payment Schedule Phase 1 includes 06 Districts of Delhi covering 75 Police Stations (C2I) and 1360 Locations. The Go Live of Phase 1 would be in 09 months. Phase 2 shall cover additional 04 districts with 45 Police Stations (C2I) with 836 Locations. The Go Live of Phase 2 would be in 11 months from Kick-Off Date. Phase 3 shall cover additional 06 districts with 62 Police Stations (C2I) and 1155 Locations. The Go Live of Phase 3 would be in 14 months from Kick-Off Date.	Please confirm our understanding that the total number of locations is 2311 (1360+836+1155) and these locations are identified and feasible locations. Ref. to clause 2.1.16.F.59 regarding "Commissioning of Phase 3 in T+52 weeks", but in Phase wise duration mentioned as 14 Months from Kick-Off Date. Kindly clarify what should be consider for project completion "T+52 weeks" or "14 Months".	As per RFP	HFCL Limited (1) Presto Infosolutions Pvt. Ltd. (2) Presto (2)
	2.1.16/87 (1)	2.1.16. Timelines linked with Payment Schedule Phase 3 shall cover additional 06 districts with 62 Police Stations (C2I) and 1155 Locations. The Go Live of Phase 3 would be in 14 months from Kick-Off Date. This would involve commissioning of Command, Control & Communication (C3I) at District	As per Payment terms, Phase 3 Go-Live is to be achieved in "T+52" weeks; This implies that Go-Live should be completed in 12 months but as per the mentioned clause the Go-Live of Phase 3 would be 14 months from kick Off. Kindly confirm.	As per RFP	Sterlite Technologies Limited



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		Head Quarter and Command & Control center(C2I) at Police Stations along with respective IT and Non IT Infrastructure including installation and commissioning of the Filed devices			
	2.1.16/87 (1)	2.1.16 Timelines linked with Payment Schedule Commissioning of Phase 3 T+52 weeks : The balance amount payable towards the work completed till Go-Live of Phase -3 will be paid in two equal installments – one within 30 days of Go-Live of Phase – 3 and second within 60 days of Go-Live of Phase 3, after adjusting the advance amount on pro-rata basis.	As per Clause mentioned on Page 93 of 656, the Advance shall be adjusted against Payment for Commissioning of Phase 3 however clause mentioned on Page 624 of 656 indicates that Advance shall be adjusted against each payment milestone. We understand that Clause on Page 93 of 656 prevails. Kindly confirm. Online Micro Services Pvt Ltd Against this milestone the department is paying 25% of the total value of the project. As this milestone is dependent on the 3rd party / existing vendor maintaining the database, we request you to kindly reduce this from 25% to 10 %.	As per RFP (Clarification: Payment shall be as per para. 2.1.16)	Larsen & Toubro Ltd Online Micro Services Pvt Ltd
	2.1.16/87 (6)	2.1.16. Timelines linked with Payment Schedule Phase 4 Warranty and Operation and Maintenance Phase: The bidder shall carry out the operation and maintenance services towards the implemented system for the period of 03 years. The Warranty	Sr. No. C.1 of the Payment Schedule table in clause 2.1.16 states that timeline for Team Mobilisation is T+3 weeks whereas clause 2.1.21(f) states that timeline for team mobilization is T+45 days. We request the timeline under Sr. No. C.1 of clause 2.1.16 be modified to T+8 weeks. RFP does contain a timeline for payment of invoiced amounts. We request the following clause should be added to the Payment Milestones	Kindly refer corrigendum Refer Para 2.1.21 for suggestion at Sr #1	HPE(1,2,4) Hewlett Packard Enterprise India Private Limited(4) HFCL Limited (3)



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		(05 years) and the O&M (03 years) will run in parallel.	clause: "Payment shall be made within 30 days from the date on invoice." Since the operations of the implemented system shall only be commenced after proper network connectivity from ISP, therefore the system shall be considered deemed to be installed and warranty shall start from the date of Installation of system. Please confirm (1) Please clarify that warranty services shall commence from the date of Go-live for the respective phase. (2) Please clarify that "T" is the date of contract signature. (3) Sr. No. C.1 of the Payment Schedule table in clause 2.1.16 states that timeline for Team Mobilisation is T+3 weeks whereas clause 2.1.21(f) states that timeline for team mobilization is T+45 days. We request the timeline under Sr. No. C.1 of clause 2.1.16 be modified to T+6 weeks. (4) RFP does contain a timeline for payment of invoiced amounts. We request the following clause should be added to the Payment Milestones clause: "Payment shall be made within 30 days from the date on invoice."		
	2.1.16/87 (1)	2.1.16. Timelines linked with Payment Schedule	Bidder request to change invoice schedule as below on per site basis per phase - 1. On Delivery of product of each phase - 70% of respective product on delivery On installation - 20% of each product installation Each Phase Go-live - Remaining 10% of each phase value All Site Not Ready sites to be excluded and completion of phase be provided. SNR sites to be taken up on site wise basis as and when they are ready and ROW etc is available.	As per RFP	HPE



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	2.1.16/87 (2)	2.1.16 Timelines linked with Payment Schedule Phase 1 includes 06 Districts of Delhi covering 75 Police Stations (C2I) and 1360 Locations. The Go Live of Phase 1 would be in 09 months Phase 2 shall cover additional 04 districts with 45 Police Stations (C2I) with 836 Locations. The Go Live of Phase 2 would be in 11 months from Kick-Off Date. Phase 3 shall cover additional 06 districts with 62 Police Stations (C2I) and 1155 Locations. The Go Live of Phase 3 would be in 14 months from Kick-Off Date	As you would appreciate that the Project Scope includes SITC of approx 10,000 Cameras & more that 3351 locations across the city, we request you to kindly increase the timelone of the project. Phase 1 includes 06 Districts of Delhi covering 75 Police Stations (C2I) and 1360 Locations. The Go Live of Phase 1 would be in 09 12 months Phase 2 shall cover additional 04 districts with 45 Police Stations (C2I) with 836 Locations. The Go Live of Phase 2 would be in 11 16 months from Kick-Off Date. Phase 3 shall cover additional 06 districts with 62 Police Stations (C2I) and 1155 Locations. The Go Live of Phase 3 would be in 14 18 months from Kick-Off Date We have suggested some changes in the intermediate milestone & payments so that project can be completed smoothly in overall timeline and project Cashflow can be improved. Kindly refer the Sheet - "Proposed Timeline_Payment_terms" for details and request you to confirm the same. Additionally we propose that the pending Payments of phases shall be released on the Go-live of the respective phase against submission of the Bank Guarantee of equivalent amount.	As per RFP	Larsen & Toubro Ltd
	2.1.16/87 (1)	2.1.16 Timelines linked with Payment Schedule Procurement, Supply of Software application for VMS, ICCC, FRS, PIU, ANPR & VA etc. - 30% of the Order value of the respective Software application for VMS, ICCC, FRS, PIU, ANPR & VA for	Kindly note that this Milestone is not reflecting for Phase 2 & Phase 3. Request you to kindly include the same.	As per RFP (Asked software will be procure in phase-1)	Larsen & Toubro Ltd



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		Phase-1 against delivery of same at site on Pro-rata basis.			
	2.1.17/94 (1)	"2.1.17. Warranty a. The bidder shall provide comprehensive warranty towards entire implemented system including IT hardware, Non-IT hardware, software g and services etc. The warranty shall commence from the date of acceptance of respective system/post Go-Live of the entire project and shall be operational for a period of minimum 05 years' whichever is later. "	We request that for the situation where Go-Live cannot be achieved due to reasons beyond the reasonable control of the MSI, a Provisional Go-Live certificate is issued for the quantum of work completed thereby commencing the Warranty and O&M phase and making the MSI eligible to be paid for the work completed. Please consider since longer the delay in achieving Go-Live, higher may be the cost of capital to be considered for free O&M period and delay in payment	Kindly refer corrigendum Refer Appendix-IV (2.1.17 and 2.18)	Sterlite Technologies Limited
	2.1.17/94 (6)	2.1.17. Warranty f. The replacement of faulty hard disks of server, storage and workstation will be on on-returnable basis.	There seems to be a typo error where the faulty drives are mentioned to be replaced on on-returnable basis instead of non-returnable basis. Please clarify on this point.	Kindly refer corrigendum Refer Appendix-IV (Clause 2.1.17 and 2.18)	Dell Technologies Elkosta Security Systems India Telecommunication s Consultants India Limited Tech Mahindra NEC Corporation India Pvt. Ltd. Samsung SDS India Pvt Ltd.Dell Technologies Elkosta Security Systems India Telecommunication s Consultants India Limited Tech Mahindra NEC Corporation India Pvt. Ltd.



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
					Samsung SDS India Pvt Ltd.
	2.1.17/94 (1)	2.1.17. Warranty i. If the MSI, having been notified, fails to remedy the defect(s) within a reasonable period, C-DAC may proceed to take such remedial action as may be necessary, at the MSI's risk and expense and without prejudice to any other rights which C-DAC may have against the MSI under the Contract.	"If the MSI, having been notified, fails to remedy the defect(s) within a reasonable period, C-DAC may proceed to take such remedial action as may be necessary, at the MSI's risk and expense which shall be limited to the 10% of the differential cost of the affected deliverable and such rights of C-DAC shall be the sole and exclusive remedy available under the Contract."	Kindly refer corrigendum Refer Appendix-IV (Clause 2.1.17 and 2.18)	Tech Mahindra
	2.1.17/94 (1)	'2.1.17. Warranty e. The MSI further warrants that the Goods supplied under this Contract shall be free from all encumbrances and defects/faults arising from design, material, manufacture or workmanship (except insofar as the design or material is required by C-DAC's Specifications) or from any act or omission of the MSI, that may develop under normal use of the supplied Goods in the conditions prevailing at the respective Datacenter / Server Room Sites.	"The MSI further warrants that the Goods supplied under this Contract shall be free from all encumbrances and defects/faults arising from design, material, manufacture or workmanship (except insofar as the design or material is required by C-DAC's Specifications) that may develop under normal use of the supplied Goods in the conditions prevailing at the respective Datacenter / Server Room Sites."	Kindly refer corrigendum Refer Appendix-IV (Clause 2.1.17 and 2.18)	Tech Mahindra
	2.1.17/94 (2)	'2.1.17. Warranty k. The selected MSI shall provide Guarantee/Warranty for all Stores, Equipment, Services supplied at least for a period of 60 months (05 years i.e. 03 Years	O&M is asked for 3 years, whereas warranty is asked for 5 years. Kindly clarify.	Kindly refer corrigendum Refer Appendix-IV (Clause 2.1.17 and 2.18))	Presto Presto Infosolutions Pvt. Ltd.



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		warranty+02 Years extended warranty) from the date of commissioning of the Systems at the Sites/Locations and that the said system would continue to conform to the description and quality for all equipment's/system. If any deviation or deterioration in description and quality, design, workmanship and performance as per the agreed specifications is noticed or discovered during the period of warranty (the decision of the BUYER in that behalf shall be final, and binding on the parties), the BUYER shall be entitled to reject the said item, systems or such portion thereof as may be discovered or noticed.			
	2.1.17/94 (2)	2.1.17. Warranty a. The bidder shall provide comprehensive warranty towards entire implemented system including IT hardware, Non-IT hardware, software and services etc. The warranty shall commence from the date of acceptance of respective system/post Go-Live of the entire project and shall be operational for a period of minimum 05 years' whichever is later.	(1) Since warranty for additional period of 2 years is optional at CDAC's discretion which may or may not be exercised, the warranty period should be 3 years only. (2) Since the products will be tested as accepted during UAT and any defects will be covered by warranty/AMC, we request deletion of sub-clause (k) to (m). (3) We request deletion of sub-clause (w) since as per clause 2.2.9 the ownership of equipment will be transferred to CDAC on acceptance and hence, MSI will not have a insurable interest in the equipment. Insurance law does not allow procuring of insurance in goods in which a party it does not have an insurable interest.	Kindly refer corrigendum Refer Appendix-IV (Clause 2.1.17 and 2.18)	HPE Hewlett Packard Enterprise India Private Limited



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	2.1.17/95 (3)	2.1.17. Warranty w. During the warranty period, in case any field equipment is damaged by a vehicular accident (or due to any other reason outside the control of MSI, ISP, Vendor, etc.) and need repair/replacement, the corresponding equipment will be replaced by MSI. In such cases, damages are to be borne by the MSI through proper comprehensive insurance for all equipment.	Repair of the damaged items should be in the responsibility of the respective partner (MSI/ISP/TSP) and not only the MSI. Please reconsider. Generally insurance will not cover total cost of the damage and also the claim period is not immediate. So we propose that customer can pay the actual cost of damage related replacements and insurance benefits will be passed to customer by the MSI. Please confirm	Kindly refer corrigendum Refer Appendix-IV (Clause 2.1.17 and 2.18)	Presto Infosolutions Pvt. Ltd. (1) presto (1) BHARAT ELECTRONICS LIMITED (2)
	2.1.18/96 (1)	2.1.18. Operations and Maintenance • During O & M Phase, The applications will be customized to meet the project objectives and the requirements of Police Department. The MSI will ensure that the best practices for software development and customization are used during the software development /customization and integration exercise. This would at a minimum include:	Customization exercise of software and application is a broad word. Customer needs to defined the level of customization. MSI can further ensure that customization will be done by the existing resources provided without hampering their existing job/work/SLA.	Kindly refer corrigendum Refer Appendix-IV (Clause 2.1.17 and 2.18)	Sterlite Technologies Limited
	2.1.18/96 (1)	2.1.18. Operations and Maintenance During the Warranty and O&M period, the MSI shall provide all product(s) and documentation updates, patches/fixes, and	As per Given Clause, updation of the system Software will be provided for the duration of the project, but version upgrades comes under huge cost, so that request you to either include the same on commercial format or replace the terms form version upgrades to updation of the systems .	Kindly refer corrigendum Refer Appendix-IV (Clause 2.1.17 and 2.18)	NEC Corporation India Pvt. Ltd.



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		version upgrades within 15 days of their availability/release and should carry out installation and make operational the same at no additional cost to C-DAC.		(Clarification :Whatever free upgraded version are available has to made available within stipulated timeframe.)	
	2.1.18/96 (1)	2.1.18. Operations and Maintenance The following services should be provided by MSI: a. O&M phase planning and monitoring b. Ongoing Administration and Maintenance requirements c. Operation of Monitoring Centre (including Help Desk) d. VAPT Execution	We understand that already available resources in operation and maintenance phase will support the VAPT execution and no additional resources need to be factored in. Please confirm	Kindly refer corrigendum Refer Appendix-IV (Clause 2.1.17 and 2.18) (Clarification :Minimum is asked, MSI can quote above and ask)	Sterlite Technologies Limited
	2.1.18/96 (1)	2.1.18. Operations and Maintenance MSI shall ensure for the proper functioning of communication lines and all its equipment, diagnose communications faults, perform joint testing etc. through Internet Service Provider (ISP).	Since the ISP shall be onboarded by the Purchaser through a separate RFP, full support from Internet Service Provider (ISP) shall be the responsibility of Purchaser. Please confirm	Kindly refer corrigendum Refer Appendix-IV (Clause 2.1.17 and 2.18)	Sterlite Technologies Limited
	2.1.18/97 (1)	2.1.18. Operations and Maintenance Preventive Maintenance (PM) MSI shall ensure that all PM works are properly carried out with minimum interruption to the operation of the system.MSI shall	We understand that the potential addition or deletion of items on the checklist shall be restricted to the skills and count of the manpower already available. Please confirm	Kindly refer corrigendum Refer Appendix-IV (Clause 2.1.17 and 2.18)	Sterlite Technologies Limited



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		submit a rolling quarterly maintenance work program as per an approved checklist. MSI shall also submit a PM report to the C-DAC. The C-DAC reserves the right to add and delete items on the check list without any additional cost.			
	2.1.18/98 (1)	2.1.18. Operations and Maintenance Preventive Maintenance (PM) n. In the event that the software support from the vendor is terminated, MSI shall be responsible for maintaining the affected software at no additional cost and with no adverse delay to the operation of system.		Kindly refer corrigendum Refer Appendix-IV (Clause 2.1.17 and 2.18)	Larsen & Toubro Ltd
	2.1.18/99 (4)	2.1.18. Operations and Maintenance Maintenance Management Facilities MSI shall ensure to set up a Call Centre and deploy full time maintenance staff for the maintenance of the system on a 24x7 basis. MSI shall provide a maintenance telephone number manned by English & Hindi speaking staff to which all Faults can be reported to at any time.	Kindly specify the quantity of manpower required for maintenance management. Please provide the Seating Capacity (min no. of Call center executives in each shift) of Call center . Please also add the same in Price Bid format. Please suggest whether the call Centre can be set up at any place/ MSI place or not. It will help to optimize the cost for this project.	Kindly refer corrigendum Refer Appendix-IV (Clause 2.1.17 and 2.18)	Honeywell(1) Honeywell Automation India Ltd. (1) EFKON India Pvt. Ltd (2) Sterlite Technologies Limited (3)



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	2.1.18/99 (1)	2.1.18. Operations and Maintenance Spares, Consumables and Testing Equipment MSI shall at his own expense obtain, store and maintain in serviceable condition the required number of spare parts and consumable necessary to meet the Maintenance Standards.	We request the customer to provide space in the premises/sites to store spares which will help to adhere to the SLA and meet the MTTR.	As per RFP (C-DAC & DP will take a call after award of contract.)	Sterlite Technologies Limited
	2.1.18/100 (2)	'2.1.18. Operations and Maintenance Maintenance Management Facilities Damages to the System as a result of accidents and vandalism shall be included as Faults. MSI shall response to such Faults that arise from road or other accidents and vandalism shall be subjected to the Response Time as specified in the Maintenance Standards as mentioned in this document.	Kindly remove this clause as it is unreasonable to consider vandalism and accidents as fault We understand that damages to the system due to accidents and Vandalism shall be included as fault and shall be exempt from SLA. Penalties. In such cases, the MSI shall provide rectification on best effort basis to handle the fault. We understand that accident and vandalism are unforeseen & unpredictable events which are beyond the control of bidder, and hence can not be considered as a fault of the equipment / fault of MSI. Hence we request you to kindly exclude these events from SLA however bidder shall try their best to rectify the fault on priority and within a reasonable time. We request you to amend the clause as, "Damages to the System as a result of accidents and vandalism shall be ~~included~~ excluded as Faults. MSI shall response to such Faults that arise from road or other accidents and vandalism shall be subjected	As per RFP	BHARAT ELECTRONICS LIMITED (1) Sterlite Technologies Limited (2) L&T (3)



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			to the a Reasonable Response Time as mutually decided		
	2.1.18/101 (1)	2.1.18. Operations and Maintenance C4I Expert/ ICCC Expert Responsibility: Delhi Police under its planned initiatives under SMART Policing, has already embarked on a project for GIS Based Decision support system called Dial112, hence the Expert should ensure seamless GIS integration under this project and consider to extend the features available in Dial112 to this project at all command centers to ensure complete situational awareness and facilitate decision making and planning	Can we assume Delhi Police has GIS already implemented with relevant licensing and OEM needn't add any GIS licensing in their platform. C4i OEM should only do integrations of Dial 112 and GIS L&T It is assumed as Delhi Police has GIS already implemented with relevant licensing and OEM needn't add any GIS licensing in their platform. C4i OEM should only do integrations of Dial 112 and GIS. Kindly confirm	As per RFP, detail explain in RFP As per RFP (Refer clause no 2.1.18 -P)	Hitachi Vantara India Pvt Ltd L&T
	2.1.18/102 (1)	2.1.18. Operations and Maintenance SMS Gateway Integration MSI shall carry out SMS Gateway Integration with the Surveillance System and develop necessary applications to send mass message or SMS to groups/individuals, which can be either manual or system	Please confirm 1. Can bidder provide the SMS services from Telecom service provider? 2. Please share the number of SIM to be requested for employer by bidder 3. As SIM shall be issued to employer name only where as bidder can raised the request to issue the SIMs. Please confirm who will bear the procurement cost and recurring cost of SIM	As Per RFP (SIM will be provided at the time of project execution.)	Sterlite Technologies Limited



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		generated. Any external/third party SMS gateway can be used.			
	2.1.18/102 (1)	2.1.18. Operations and Maintenance System Administrator Responsibility 'The Near DR shall be at 5% capacity of the DC analytics & 100% replication of flagged data, the DC- Near DR will remain in Active-Active mode, and the MSI shall design the RTO and RPO time as per requirements.	Please provide the max % of flagged data envisaged to ensure a similar benchmark for all bidders.	As per RFP	EFKON India Pvt. Ltd
	2.1.18/102 (2)	2.1.18. Operations and Maintenance Database/Storage Administrator Responsibility: Formation of Data Lake: * Database Administrator will equip police with actionable intelligence and analytical capabilities and also set up a BI & Analytics engine which will process the data from data warehouse. Shall perform the planning and process optimization. Following are the key functionalities envisaged from the this engine Perform intelligent search and heuristics on the integrated view of information. * Identification of hidden and	Our understanding is the Data lake would be the architecture for ingesting data from 3rd party DB 's especially the 32 DB reference mentioned in the RFP under section 2.1.16. Please confirm if Data lake building, Data cleansing is a part of the Scope to be covered under this RFP.	As Per RFP (Data lake building will be manage by CDAC. But integration with ICC and sub-systems will be MSI responsibility. CDAC will help to provide Data lake access.)	NEC Corporation India Pvt. Ltd. Larsen & Toubro Ltd



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		unobvious relationships and patterns leading to faster and accurate investigation and crime prevention. * Forecast future criminal occurrences and determine areas that can be statistically defined as Hotspots. * Generate intelligence using unstructured data. * Dynamic Risk Assessment for rapidly changing circumstances for an operational incident, in order to implement the control measures necessary to ensure an acceptable level for safety * Optimization of resources and operations.			
	2.1.18/102 (1)	2.1.18. Operations and Maintenance Database/Storage Administrator Responsibility: Formation of Data Lake: Generate intelligence using unstructured data.	Kindly Clarify:- 1. What are the unstructured data envisaged? 2. What will be volume size of data envisaged?	As per RFP (C-DAC will provide information)	NEC Corporation India Pvt. Ltd.
	2.1.18/104 (1)	2.1.18 Operations and Maintenance SOC Administrator: • Need to Analyze various logs of all devices and Applications • To perform Threat Intelligence • Event and Incident Management • Anomalies pertaining network	This profile is not mentioned in BoQ/SOR line item but responsibility has been mentioned. If this is a mandatory requirement, please mention this as part of BoQ.	Kindly refer corrigendum Refer Appendix-IV (Clause 2.1.17 and 2.18)	Sterlite Technologies Limited



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		traffic (LAN /WAN) • Analyze Application Access Patterns			
	2.1.19/105 (14)	"2.1.19. Liquidated Damages If MSI fails to supply, install or maintain any or all of the goods and services the period of Installation, Commissioning, Operation & Maintenance, Warranty and CAMC, C-DAC without prejudice to its other rights and remedies under the Contract, would deduct from the amount payable to MSI, as Liquidated Damages, a sum equivalent to half percent (0.5 %) of the price of the delayed goods or unperformed services for each and every week (part of a week being treated as a full week) of delay until actual delivery or performance, up to a maximum deduction of Ten (10%) percent of the price of undelivered goods or unperformed services. "	"For the reasons solely attributable to MSI, If MSI fails to supply, install or maintain any or all of the goods and services the period of Installation, Commissioning, Operation & Maintenance, Warranty and CAMC, C-DAC would deduct from the amount payable to MSI, as Liquidated Damages, a sum equivalent to half percent (0.5 %) of the price of the delayed goods or unperformed services for each and every week (part of a week being treated as a full week) of delay until actual delivery or performance, up to a maximum deduction of Ten (10%) percent of the price of undelivered goods or unperformed services." "We understand that Liquidated Damages shall be levied only in case the final milestone i.e. Go-Live of Phase-3 is delayed beyond the stipulated timelines (adjusted for all time extensions granted due to reasons not attrinbutable to MSI). Please confirm" Request to amend as: Maximum LD to be 5% of the value of the contract. "Due to various kind restrictions imposed by the authorities over the movements of persons and good in wake of the pandemic. The delay may happen despite putting the best effort. Therefore, you are requested to take this factor into the account and amend the clause as under: a sum equivalent to quarter percent (0.25 %) of the price of the delayed goods or unperformed services for each and every week (part of a week being treated as a full week) of delay until actual delivery or performance, up to	As per RFP	Tech Mahindra (1) Sterlite Technologies Limited (2) Honeywell Automation India Ltd. (3) Honeywell (3) Marushika Technology Advisors Pvt. Ltd. (4) Transline Technologies Pvt. Ltd. (4) Larsen & Toubro Ltd (5,6,7) Hewlett Packard Enterprise India Private Limited (8) HPE (8) Johnson Controls (9) CNT (9)



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			a maximum deduction of five (5%) percent of the price of undelivered goods or unperformed services. " "Request you to amend the clause as, Liquidated Damages If MSI fails to supply, install or maintain any or all of the goods and services the period of Installation, Commissioning, Operation & Maintenance, Warranty and CAMC, C-DAC without prejudice to its other rights and remedies under the Contract, would deduct from the amount payable to MSI, as Liquidated Damages, a sum equivalent to half percent (0.5 0.1 %) of the price of the delayed goods or unperformed services for each and every week (part of a week being treated as a full week) of delay until actual delivery or performance, up to a maximum deduction of Ten (10%) percent of the price of undelivered goods or unperformed services." We understand that the Penalty for Implementation shall be applied on the Capex value and the penalties for Opex shall be applied on Opex value of Project. Request you to confirm the same. "Request you to add a clause in Liquidated Damages: Reimbursement of penalty for intermediate milestones The penalty levied during intermediate milestone shall be reimbursed to the bidder at the successful completion of the next milestone or final implementation milestone (Go-Live) within the agreed timeframe whichever is earlier." Since the RFP already contains detailed SLAs applicable during the warranty and O&M phase and related penalties for failure to meet the SLA		



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			parameters, please confirm that LDs under this clause 2.1.19 shall only apply during the implementation phase. 1. Request to replace overall cap for liquidated damages for delay with 5% of the price of undelivered goods or unperformed services. 2. Add, 'Levy of liquidated damages for delay in completion shall be sole and exclusive remedy available to C-DAC.'		
	2.1.19/105 (1)	2.1.19. Liquidated Damages a. The MSI shall note that the Downtime for each Fault occurrence which shall be considered and computed independently. i. The Downtime due to system migration, testing, preventive works or other works as approved by C-DAC or involvement of cameras in third party damage or due to fault in lease line connectivity (only in case of Master System Integrator or Vendors other than ISP, but it should be mentioned/indicated/ deducted in the claim of lease line charges furnished by Internet Service Provider) shall not be considered as Faults.	The downtime due to Force Majeure issues, theft, vandalism, accident and intentional damages should also be excluded from downtime calculation.	AS per RFP Please refer definition of downtime.	Sterlite Technologies Limited
	2.1.20/104 (1)	Addition to the existing clause Penalty	TechM requests that the overall penalty under this RFP shall not exceed 10% of the price of undelivered goods or unperformed services.	As per RFP	Tech Mahindra
	2.1.21 e /105 (2)	2.1.21. Termination e. MSI may, subject to approval	"MSI may terminate this Contract before the expiry of the term by giving C-DAC a prior and written	As Per RFP	Tech Mahindra Larsen & Toubro Ltd



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		by C-DAC, terminate this Contract before the expiry of the term by giving C-DAC a prior and written notice at least 3 months in advance indicating its intention to terminate the Contract.	notice at least 3 months in advance indicating its intention to terminate the Contract.” Kindly clarify that on what grounds , MSI is liable to invoke the termination or Suspension clause.		
	2.1.21 f/105 (1)	2.1.21. Termination f. MSI is expected to mobilize project team for commencement of work. Commencement of work means reporting and availability of MSI resources (90% Key personnel as per the RFP requirement at C-DAC office for the project within 30 days from the Award of the Contract and remaining 10% in next 15 days)	We request you to remove this clause from termination and allow the MSI to deploy the Resources as per Project actual requirement. Penalty applicable for same is already covered in Clause 4.1.3 -Team mobilization and commencement of work, page 573 of 656, hence kindly remove this sub clause from Termination clause.	As Per RFP	Larsen & Toubro Ltd
	2.1.22/105 (1)	2.1.22. Consequence of Termination as is not there "Consequences of Termination-30 days notice in advance.MSI will be paid for the part of services which have been authorized by C-DAC and satisfactorily performed by MSI up to the date of termination."	Additional Point Suggested: MSI should be paid for incurred and committed and Non cancellable costs as well.	As per RFP	Tech Mahindra
	2.1.22/105 (1)	2.1.22. Consequence of Termination a. In the event of termination of the Contract due to any cause whatsoever, whether consequent to the stipulated Term of the Contract or otherwise C-DAC shall	"In the event of termination of the Contract due to any cause whatsoever, whether consequent to the stipulated Term of the Contract or otherwise C-DAC shall be entitled to an efficient transition and effective business continuity of the project which MSI shall be obliged to comply with and take all available steps to minimize loss resulting from that	As per RFP	Tech Mahindra



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		be entitled to impose any such obligations and conditions and issue any clarifications as may be necessary to ensure an efficient transition and effective business continuity of the project which MSI shall be obliged to comply with and take all available steps to minimize loss resulting from that termination/breach, and further allow and provide all such assistance to C-DAC and/ or the successor agency/ service provider, as may be required, to take over the obligations of MSI in relation to the execution/continued execution of the requirements of the Contract.	termination/breach, and further allow and provide all such assistance to C-DAC and/ or the successor agency/ service provider, as may be required, to take over the obligations of MSI in relation to the execution/continued execution of the requirements of the Contract Provided that any transition assistance shall be provided at mutually agreed terms and conditions including costs for such transition assistance which shall be payable by the C-DAC to the MSI".		
	2.1.22 b/106 (1)	2.1.22. Consequence of Termination b. Where the termination of the Contract is prior to its stipulated term on account of a Default on the part of MSI or due to the fact that the survival of MSI as an independent corporate entity is threatened/has ceased, or for any other reason, whatsoever, C-DAC, through unilateral re-determination of the consideration payable to MSI, shall pay MSI for that part of the Services which have been authorized by C-DAC and satisfactorily performed by MSI up to the date of termination.	"Where the termination of the Contract is prior to its stipulated term on account of a Default on the part of MSI or due to the fact that the survival of MSI as an independent corporate entity is threatened/has ceased, or for any other reason, whatsoever, C-DAC, through unilateral re-determination of the consideration payable to MSI, shall pay MSI for that part of the Services which have been authorized by C-DAC and satisfactorily performed by MSI up to the date of termination. Additionally, members of its team shall perform all its obligations and responsibilities under the Contract in an identical manner as were being performed before the collapse of MSI as described above in order to execute an effective transition and to maintain business continuity. All third parties shall continue to perform all/any functions as stipulated by C-DAC and as may be proper and necessary to execute the Schedule of	As per RFP	Tech Mahindra



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		Without prejudice to any other rights, C-DAC may retain such amounts from the payment due and payable by C-DAC to MSI as may be required to offset any losses caused to C-DAC as a result of any act/omissions of MSI. In case of any loss or damage due to default on the part of MSI in performing any of its obligations with regard to executing the Schedule of Requirements under the contract, MSI shall compensate C-DAC for any such loss, damages or other costs, incurred by C-DAC. Additionally, members of its team shall perform all its obligations and responsibilities under the Contract in an identical manner as were being performed before the collapse of MSI as described above in order to execute an effective transition and to maintain business continuity. All third parties shall continue to perform all/any functions as stipulated by C-DAC and as may be proper and necessary to execute the Schedule of Requirements under the Contract in terms of MSI's Bid, the Bid Document and the Contract	Requirements under the Contract in terms of MSI's Bid, the Bid Document and the Contract."		
	2.1.23/106 (5)	2.1.23. Limitation of Liability: e. MSI, with respect to damage caused by MSI to C-DAC's	Para 2.1.23.e & Para 2.1.23.f to be replaced with following: Notwithstanding any other provision to the contrary, to the extent	As per RFP.	CNT (1) Johnson Controls (1)



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		property, shall not be liable to C-DAC: • For any direct loss or damage that exceeds (A) the total payments payable under the Contract to MSI hereunder, or (B) the proceeds MSI may be entitled to receive from any insurance maintained by MSI to cover such a liability, whichever of (A) or (B) is higher. f. This limitation of liability shall not affect MSI liability, if any, for damage to Third Parties caused by MSI or any person or company acting on behalf of MSI in carrying out the Services.	permitted by Applicable Law, MSI's total liability under this Contract whether that liability arises in contract (including any indemnity), tort (including negligence), equity, under statute or otherwise, for breach or injury, death, loss, damage or expense arising out of or in connection with the performance of its obligations under this Contract, shall be limited in aggregate to the Contract Value. (1) We request deletion of reference to insurance in sub-clause (e) as MSI liability should be capped at TCV. (2) We request deletion of sub-clause (f) as the preceding sub-clauses already comprehensively deal with liability caps and exclusions.		HPE (2) Hewlett Packard Enterprise India Private Limited (2)
	2.1.23 -b /106 (3)	2.1.23. Limitation of Liability: 'b. Except in case of negligence or misconduct on the part of MSI or on the part of any person or company acting on behalf of MSI in carrying out the Services, MSI's liability will be limited to the unpaid amount of total Contract value.	Except in case of gross negligence or wilful misconduct on the part of MSI or on the part of any person or company acting on behalf of MSI in carrying out the Services, MSI's total liability will be limited to the unpaid amount of total Contract value	As Per RFP	Johnson Controls CNT Tech Mahindra
	2.1.13/106 (6)	2.1.23. Limitation of Liability: Limitation of MSI's Liability towards C-DAC: a. Neither Party shall be liable to the other Party for any indirect or consequential loss or damage (including loss of revenue and profits) arising out of or relating to the Contract. b. Except in case of negligence or	In case of consortium / JV - pls confirm that the liability of the consortium partner, shall be limited to the unpaid scope of the consortium / JV member. "Request to amend as: b. Except in case of gross negligence or misconduct on the part of MSI or on the part of any person or company acting on behalf of MSI in carrying out the Services, MSI's liability will be	As per RFP.	HPE (1) Hewlett Packard Enterprise India Private Limited (1) Honeywell (2) Honeywell Automation India Ltd. (2)



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		misconduct on the part of MSI or on the part of any person or company acting on behalf of MSI in carrying out the Services, MSI's liability will be limited to the unpaid amount of total Contract value. c. However, liability of the bidder in case of death, injury, damage caused to the personnel/property due to/arising out of/incidental to any act/omission/default/deficiency of bidder/contractor, will be at actuals. d. In no event shall either Party, its officers, directors, or employees be liable for any form of incidental, consequential, indirect, special or punitive damages of any kind. e. MSI, with respect to damage caused by MSI to C-DAC's property, shall not be liable to C-DAC: For any direct loss or damage that exceeds (A) the total payments payable under the Contract to MSI hereunder, or (B) the proceeds MSI may be entitled to receive from any insurance maintained by MSI to cover such a liability, whichever of (A) or (B) is higher. f. This limitation of liability shall not affect MSI liability, if any, for	limited to the unpaid amount of total Contract value. c. However, liability of the bidder in case of death, injury, damage caused to the personnel/property due to/arising out any act/omission/default/deficiency of bidder/contractor, will be at actuals." "We understand the limitation of liability of SI shall be limited to 100% of contract value. Hence, request you to amend the clause as mentioned below: SI, with respect to damage caused by SI to Authority's property, shall not be liable to C-DAC: ☐ For any direct loss or damage that exceeds (A) the total payments payable under the Contract to MSI hereunder, or (B) the proceeds MSI may be entitled to receive from any insurance maintained by MSI to cover such a liability, whichever of (A) or (B) is higher. f. This limitation of liability shall not affect MSI liability, if any, for damage to Third Parties caused by MSI or any person or company acting on behalf of MSI in carrying out the Services wilful misconduct and gross negligence, to extent permitted under law."		Larsen & Toubro Ltd (3)



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
		damage to Third Parties caused by MSI or any person or company acting on behalf of MSI in carrying out the Services.			
	2.1.23 a/106 (1)	2.1.23. Limitation of Liability: Limitation of MSI's Liability towards C-DAC: a. Neither Party shall be liable to the other Party for any indirect or consequential loss or damage (including loss of revenue and profits) arising out of or relating to the Contract.	As the tender is a safe-city project for ensuring women safety and prevention of crimes in Delhi, we understand that this project is non-commercial in nature i.e. there will not be any monetization of the infrastructure provided by Service provider in the project. Request your confirmation for same.	As Per RFP	Larsen & Toubro Ltd
	2.1.23 f/106 (1)	2.1.23. Limitation of Liability: Limitation of MSI's Liability towards C-DAC: f. This limitation of liability shall not affect MSI liability, if any, for damage to Third Parties caused by MSI or any person or company acting on behalf of MSI in carrying out the Services.	"This limitation of liability shall not affect MSI liability, if any, for damage to Third Parties intellectual property right caused by MSI or any person or company acting on behalf of MSI in carrying out the Services."	As Per RFP This limitation of liability shall not affect MSI liability, if any, for damage to Third Parties intellectual property right caused by MSI or any person or company acting on behalf of MSI in carrying out the Services	Tech Mahindra
	b /107 (2)	2.1.24. Indemnity b. MSI shall also indemnify C-DAC against any privilege, claim or assertion made by a third party with respect to right or interest in, ownership, mortgage or disposal of any asset, property etc. Solely arising out of the actions of MSI	b. MSI shall also indemnify C-DAC against any privilege, claim or assertion made by a third party with respect to right or interest in, ownership, mortgage or disposal of any asset, property etc. Solely arising out of the actions of MSI and its Sub Contractor Regardless of anything contained (except for MSI's liability for bodily injury and/ or damage to tangible and real property for which it is legally liable in accordance with the terms of this	As per RFP	Johnson Controls CNT



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		and its Sub Contractor Regardless of anything contained (except for MSI's liability for bodily injury and/ or damage to tangible and real property for which it is legally liable and its liability for patent and copyright infringement in accordance with the terms of this Agreement) the total liability of MSI, is restricted to the total value of the contract.	Agreement) the total liability of MSI, is restricted to the total value of the contract		
	2.1.24/107 (2)	2.1.24. Indemnity	(1) We submit that Indemnity should be applicable to third-party claims only since any claims between CDAC and MSI will be governed by the contract itself and CDAC is entitled to damages for any default by the MSI. (2) Please clarify that CDAC shall promptly notify MSI in writing of any third-party claims covered by the indemnity, cooperate with the MSI in the defense/settlement of the claim, and allow MSI to control the defense of the claim. MSI shall be liable to final court-awarded damages or mutually agreed settlement amount.	As per RFP	HPE Hewlett Packard Enterprise India Private Limited
	2.1.24 a/107 (2)	2.1.24. Indemnity a. MSI shall indemnify C-DAC from and against any costs, loss, damages, expense, claims including those from third parties or liabilities of any kind howsoever suffered, arising or incurred inter alia during and after the Contract period out of: • any gross negligence or misconduct act or omission by MSI or any third party associated with MSI in connection with or	Request to amend as: any gross negligence or misconduct act or omission by MSI or any third party associated with MSI in connection with this Contract; or Please add the following : Any indemnity under the aforesaid Purchase order shall be only to the extent MSI/Honeywell contributed to the losses or expenses and shall stand reduced to the extent the Authority/Customer or any third party contributed to the losses. This obligation is conditioned on receiving prompt notice of a claim from the indemnitee. The indemnitor will	As per RFP	Honeywell Automation India Ltd. (1) Honeywell (1) Tech Mahindra (2)



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		incidental to this Contract; or • any infringement of patent, trademark/copyright or industrial design rights arising from the use of the supplied goods and related services or any part thereof	not be liable for any attorney fees or costs of indemnitee. To the extent permitted by applicable law the indemnitor will be entitled exclusively to control the defence and settlement of the claim. "MSI shall indemnify C-DAC from and against any costs, loss, damages, expense, claims including those from third parties or liabilities of any kind howsoever suffered, arising or incurred inter alia during and after the Contract period out of:		
	/107 (3)	2.1.25. Security and Safety a. MSI shall comply with the directions issued from time to time by C-DAC and the standards related to the security and safety, in so far as it applies to the provision of the Services. b. MSI shall upon reasonable request by C-DAC, or its nominee(s) participate in regular meetings when safety and information technology security matters are reviewed. c. MSI shall arrange for safe and secure custody/storage of material received/delivered at site/s, at their own cost and risk. The MSI is advised to secure the said material with sufficient and suitable insurance cover.	(1) Please clarify that any directions issued for CDAC regarding security and safety that requires additional services or effort shall be undertaken through the change management process. (2) Since the products will be delivered at CDAC site and CDAC will have full custody of the products, the risk of loss should lie with CDAC. MSI may be held responsible for any damage to products caused by the negligence of its employees/ subcontractors. Please modify sub-clause (c) to state that custody of products shall transfer to CDAC upon delivery, but MSI shall be liable for any damages caused by the negligence of its employees/ subcontractors.	As per RFP	Hewlett Packard Enterprise India Private Limited HPE
	2.1.26/107 (1)	2.1.26. Ownership of Material: All risks, responsibilities, liabilities in respect of goods delivered at site shall remain with selected bidder till they are successfully installed and	1) Contradictory clause :- in payment terms you have allowed Pro-date delivery and In this clause delivery restriction is there , Please clarify 2) material storage for implementation, warranty and O&M scope will be in whose scope, as it is a huge	As per RFP	TechnoSys



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		commissioned at site and taken over by end users. Part deliveries shall not be treated as deliveries. Only full deliveries of all items ordered will be considered as delivery.	cost, and if is in bidder scope what will the process of payment for delivery milestone. 3) as per our understanding Phase wise handover is accepted and once it is handed over field device security will be responsibility of end customer .		
	2.1.27/107 (3)	2.1.27. Confidentiality	(1) MSI will have to share confidential information with the OEM and subcontractors for the purpose of delivery of products and services. Please clarify that MSI may disclose Confidential Information to its subcontractors and OEMs on a need-to-know basis and provided the subcontractors/OEMs sign an NDA with the MSI. (2) Kindly share the format for the NDA to be signed by MSI for Bidder's review. (3) We request deletion of sub-clause (e) since indirect and consequential damages are excluded as per clause 2.1.23 (LOL). (4) We submit that the obligation of confidentiality should be applicable for a reasonable period of time. We propose that MSI shall be liable for confidentiality for 3 years after the end of contract period or termination, as the case may be. Please confirm.	As Per RFP	HPE Hewlett Packard Enterprise India Private Limited
	2.1.27 a/107 (2)	2.1.27. Confidentiality a. MSI shall not, either during the term or after expiration of this Contract, disclose any proprietary or confidential information relating to the Services/Contract and/or C-DAC/Delhi Police's business/ operations, information, Application/software, hardware, business data, architecture schematics, designs, storage media and other information /	Request to amend as: a. MSI shall not, either during the term of this Contract, disclose any proprietary or confidential information relating to the Services/Contract and/or CDAC/ Delhi Police's business/ operations, information, Application/software, hardware, business data, architecture schematics, designs, storage media and other information / documents without the prior written consent of C-DAC.	As per RFP	Honeywell Automation India Ltd. Honeywell



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		documents without the prior written consent of C-DAC.			
	2.1.27 h/107 (2)	2.1.27. Confidentiality h. The requirement of this clause shall continue even after termination or completion of this Contract.	Please delete this clause	As per RFP	Honeywell Honeywell Automation India Ltd.
	2.1.27 e/107 (2)	2.1.27. Confidentiality e. MSI shall be liable to fully recompense C-DAC for any loss of revenue arising from breach of confidentiality.	TechM requests deletion of the clause as C-DAC has remedy under the law for the breach.	As per RFP	Tech Mahindra
	2.1.28/108 (1)	2.1.28--Event of Default by MSI 2.1.21--Termination 2.1.22--Consequence of Termination	(1) Please clarify that MSI shall be entitled payments for all products and services rendered till the date of temrination. (2) We propose following modified language for clause 2.1.21(e): "MSI may, subject to intimation to C-DAC, terminate this Contract before the expiry of the term by giving C-DAC a prior and written notice at least 3 months in advance indicating its intention to terminate the Contract." (3) Please clarify that instructions, directives, and clarifications under clause 2.1.28 shall be in line with the scope of work contained in the RFP. (4) Please clarify that "unilateral re-determination of consideration payable to MSI" under clause 2.1.22(b) shall be as per the rates quoted by the MSI. (5) We request that deduction for Risk Purchase under clause 2.1.22(b) should be capped at 10% of the value of affected goods and services.	As per RFP	HPE
	2.2.1/109 (1)	2.2. General Conditions of Contract (GCC) 2.2.1. Term and Extension of the Contract	1)Contradictory clause :- in payment terms you have allowed Pro-date delivery and In this clause delivery restriction is there , Please clarify 2) material storage for implementation, warranty and O&M scope will be in whose scope, as it is a huge	As per RFP	TechnoSys



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			cost, and if is in bidder scope what will the process of payment for delivery milestone. 3) as per our understanding Phase wise handover is accepted and once it is handed over field device security will be responsibility of end customer .		
	2.2.1/109 (1)	In case of extension of time for reasons not attributable to MSI/ Bidder, MSI/ Bidder shall be entitled to price implication, if any as mutually discussed and agreed.	In case of extension of time for reasons not attributable to MSI/ Bidder, MSI/ Bidder shall be entitled to price implication, if any as mutually discussed and agreed.	As per RFP	CNT
	2.2.1 vii/109 (2)	2.2. General Conditions of Contract (GCC) 2.2.1. Term and Extension of the Contract vii. During the period of CAMC, MSI shall ensure that the service/repair calls are to be attended within four (04) hours from the time of such calls. The defective card/item/equipment etc. should be repaired within 48 hours. In case of major defects requiring the defective card/item/equipment etc. to be taken to workshop, an immediate substitute card/item/equipment will be provided by the MSI for the smooth operation of the System and the defective card/item/equipment etc. should be returned/installed duly repaired within six weeks. The to and fro transportation of the	In this clause here department is asking to repair faulty material within 48 hours which will be bit difficult and as per services norms also at least 72 hours has to be given to MSI to repair material	As per RFP	Technosys



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		card/item/equipment etc. will be the responsibility of MSI.			
	2.2.1 f/109 (1)	2.2. General Conditions of Contract (GCC) 2.2.1. Term and Extension of the Contract f. Force Majeure shall not include any events caused due to acts/ omissions of MSI resulting in a breach/ contravention of any of the terms of the Contract and/or MSI's Bid. It shall also not include any default on the part of MSI due to its negligence or failure to implement the stipulated/ proposed precautions, as were required to be taken under the Contract.	NO clarity given on the force majeure scope like Natural calamities , Act of God, Theft etc. will come under whose scope. Requesting you to please clarify Honeywell Request to add as: Except payment obligations, neither Party will be liable for any failure to meet its obligations affected by a force majeure event, and if performance is so delayed longer than 90 days, either Party can terminate the Order with notice. If Buyer causes delay, Honeywell is entitled to adjust price, schedule and other affected terms. Notwithstanding anything to the contrary, in light of the COVID-19 pandemic, the effects of which cannot be foreseen, the parties agree that Honeywell shall be entitled to an equitable extension of time to deliver or perform its work and appropriate additional compensation to the extent Honeywell's delivery or performance, or the delivery or performance of its suppliers and/or subcontractors, is in any way delayed, hindered or otherwise affected by the COVID-19 pandemic. "Force Majeure Event" means an event beyond the reasonable control of the affected party including but not limited to acts of government or government agencies, fire, flood, storms, hurricanes, severe weather conditions, acts of terrorism, war, shortages or materials or components, labour strikes or the availability of the internet ,Terrorism and Vandalism.	As per RFP	Techosys Honeywell
	2.2.1 ix/109 (2)	2.2. General Conditions of Contract (GCC) 2.2.1. Term and Extension of the	Since clause 2.1.19 already contains Liquidated Damages applicable in case of any delay in	As per RFP	HPE



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		Contract ix. In case, MSI fails to perform any of the Services of the Contract within the time period specified in the tender, the C-DAC shall, without prejudice to its other remedies under the tender, deduct from, the pending bills/Performance Security, by way of penalty a sum equivalent to One (01) % for every week (part of a week being treated as full week) of delay until actual performance up to a maximum of 05% of the undelivered services/equipment.	performance of services, please delete this clause so as to avoid contradictory clauses.		Hewlett Packard Enterprise India Private Limited
	2.2.3/111 (2)	2.2.3. Time is of the essence Time shall be of the essence in respect of any date or period specified in this Contract or any notice, demand or other communication served under or pursuant to any provision of this Contract and in particular in respect of the completion of the activities by MSI by the specified completion date herein and/ or the RFP.	Request you to incorporate, Time is essence subject to C-DAC fulfilling its contractual obligations on time and further Force Majeure conditions.	As per RFP	Johnson Controls CNT
	2.2.6/112 (3)	2.2.6. Insurance	(1) We request deletion of Employer's Liability and Workers' compensation insurance since it is not mandated by law. The MSI will anyway be liable for any injury caused to its personnel during the course of employment under the Workmen's Compensation Act and will maintain health and group accident insurance. Whether or not to procure insurance	Kindly refer corrigendum Clause 2.2.6	HPE Hewlett Packard Enterprise India Private Limited



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			coverage for the risk should be left to the discretion of the MSI. (2) Since as per clause 2.2.9 title in goods will be transferred to CDAC on acceptance, MSI will not have insurable interest in the goods and hence will not be able to procure insurance for such goods. Hence, please delete the requirement to maintain insurance for goods, materials and equipment.		
	2.2.7/112 (1)	2.2.7. Project Audits and Testing	B. Security Risk Audits It must be ensured that ISO 27001 (ISMS) Security Audits must be conducted yearly or as per the requirement of management to mitigate risk in regular operations and to stay compliant. BSNL Kindly confirm if bidder needs to consider the cost towards providing ISO 27001 security audits for the project	As per RFP	Bharat Sanchar Nigam Ltd (BSNL)
	2.2.7/113 (1)	2.2.7. Project Audits and Testing 'A. Network Audit Delhi Police will have the right to engage a Third party for quality assurance. There will be third party network audit to be conducted on yearly basis by CERT-In empaneled agencies. Total Service Provider will have to ensure compliance of the advice/suggestions made by the third party so engaged, dually authorized by the Delhi Police, with regard to specifications, Tests, Quality and Material used for the Safe City Project of Delhi Police. However, such advice/	We understand that network audit will cover specifications, tests cases, Quality and Material used for the Safe City Project of Delhi Police and; security of the network will be assessed as a part of security & risk audit. Please confirm or clarify if otherwise.	AS Per RFP	Larsen & Toubro Ltd



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		suggestions have to be well within the scope of the project as framed in this agreement. The MSI will coordinate with ISP to ensure successful closure of the Audit by maintaining its all infrastructure (hardware and software) platforms up and running which might impact the purposed Audit adversely bandwidth Estimation. The network implementation activities, which include laying of OFC and recurring bandwidth may be opted for distinct and parallel set of activities with respect to the other bundle of activities mentioned in this DPIP.			
	2.2.7/113 (1)	C. Implementation and Performance Audit a. The project implementation upon completion will undergo a complete implementation audit in terms of contractual role and responsibilities of the MSI or ISP. The third party audit will be conducted by CERT-In empanelled agency on behalf of C-DAC (TSP). The report will be submitted to Delhi Police. b. The performance audits by the aforementioned Third Party will be conducted every year by CERT-IN empanelled agency covering important parameters like networking, security, desired	We understand that performance audit will focus on the performance of network and infrastructure. Security of the network and infrastructure components will be assessed as a part of security & risk audit. Please clarify if, otherwise.	As Per RFP	Larsen & Toubro Ltd



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		system performance as per terms of reference of RFP. The proposed solution by MSI to the RFP requirement should support requirements of the auditors requiring technical audit of the whole system, which bidder should allow the auditors to access the system. The required testing measures include: a. Factory Acceptance Testing b. User Acceptance Testing/ Final Acceptance Testing and conducting the prelaunch security audit of applications.			
	2.2.7/113 (1)	C. Implementation and Performance Audit a. The project implementation upon completion will undergo a complete implementation audit in terms of contractual role and responsibilities of the MSI or ISP. The third party audit will be conducted by CERT-In empanelled agency on behalf of C-DAC (TSP). The report will be submitted to Delhi Police. b. The performance audits by the aforementioned Third Party will be conducted every year by CERT-IN empanelled agency covering important parameters like networking, security, desired	Please elaborate on this requirement	As Per RFP (Clause is self-explanatory.)	Versa Networks



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		system performance as per terms of reference of RFP. The proposed solution by MSI to the RFP requirement should support requirements of the auditors requiring technical audit of the whole system, which bidder should allow the auditors to access the system. The required testing measures include: a. Factory Acceptance Testing b. User Acceptance Testing/ Final Acceptance Testing and conducting the prelaunch security audit of applications.			
	2.2.9/115 (2)	2.2.9. Transfer of Ownership MSI must transfer all titles to the assets and goods procured for the purpose of the Project to C-DAC at the time of Acceptance of System. This includes all licenses, titles, source codes, certificates, hardware, devices, equipment etc. related to the system designed, developed, installed and maintained by MSI as a part of the implementation of the Project. MSI is expected to provide source codes, transfer IPRs and ownership rights of only those solutions which would be customized by MSI for the use of C-DAC.	2.2.29 Transfer of Ownership MSI must transfer all titles to the assets and goods procured for the purpose of the Project to C-DAC at the time of Acceptance of System. This includes all licenses, titles, source codes, certificates, hardware, devices, equipment etc. related to the system designed, developed, installed and maintained by MSI as a part of the implementation of the Project. MSI is expected to provide source codes and right to use those solutions which would be customized by MSI for the use of C-DAC. Forthwith upon expiry or earlier termination of the Contract and at any other time on demand by C-DAC, MSI shall deliver to C-DAC, all Documents provided by or originating from C-DAC and all Documents produced by or from or for MSI in the course of	As Per RFP	CNT Johnson Controls



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		Forthwith upon expiry or earlier termination of the Contract and at any other time on demand by C-DAC, MSI shall deliver to C-DAC, all Documents provided by or originating from C-DAC and all Documents produced by or from or for MSI in the course of performing the Services, unless otherwise directed in writing by C-DAC at no additional cost. MSI shall not, without the prior written consent of C-DAC store, copy, distribute or retain any such Documents.	performing the Services, unless otherwise directed in writing by C-DAC at no additional cost.		
	2.2.9/115 (2)	2.2.9. Transfer of Ownership MSI must transfer all titles to the assets and goods procured for the purpose of the Project to C-DAC at the time of Acceptance of System. This includes all licenses, titles, source codes, certificates, hardware, devices, equipment etc. related to the system designed, developed, installed and maintained by MSI as a part of the implementation of the Project. MSI is expected to provide source codes, transfer IPRs and ownership rights of only those solutions which would be customized by MSI for the use of C-DAC.	We assume that source code of only customized portion of COTS product (like UC&C software) will be transferred to customer and IPR of the product will be with respective OEM and will not be transferred to Customer. Please confirm our understanding. "As per our experience, the department requires the source code of the Custom development done for this project. However if Source Code of COTS based solution is required then same can be kept under the Escrow Agreement. Please confirm our understanding."	As Per RFP. (Clause is self-explanatory)	NEC Corporation India Pvt. Ltd. Newgen Software Technologies



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	2.2.9/115 2.211/116 (2)	2.2.9. Transfer of Ownership MSI must transfer all titles to the assets and goods procured for the purpose of the Project to C-DAC at the time of Acceptance of System. This includes all licenses, titles, source codes, certificates, hardware, devices, equipment etc. related to the system designed, developed, installed and maintained by MSI as a part of the implementation of the Project. MSI is expected to provide source codes, transfer IPRs and ownership rights of only those solutions which would be customized by MSI for the use of C-DAC. 2.2.11. Intellectual Property Rights d. C-DAC shall own and have a right in perpetuity to use all newly created Intellectual Property Rights which have been developed solely during execution of this Contract, including but not limited to all processes, products, specifications, reports and other documents which have been newly created and developed by MSI solely during the performance of Services and for the purposes of inter-alia use or sub-license of such Services under this Contract. MSI undertakes to	As per clause 2.2.11, we understand that ownership of pre-existing intellectual property shall lie with the OEM. Therefore, please confirm that MSI is only required to submit source code for the customization developed solely for the Safe City project.	As Per RFP	Hewlett Packard Enterprise India Private Limited HPE



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		disclose all such Intellectual Property Rights arising in performance of the Services to C-DAC, execute all such agreements/documents and obtain all permits and approvals that may be necessary in regard to the Intellectual Property Rights of C-DAC.			
	2.2.11/116 (2)	2.2.11. Intellectual Property Rights d. C-DAC shall own and have a right in perpetuity to use all newly created Intellectual Property Rights which have been developed solely during execution of this Contract, including but not limited to all processes, products, specifications, reports and other documents which have been newly created and developed by MSI solely during the performance of Services and for the purposes of inter-alia use or sub-license of such Services under this Contract. MSI undertakes to disclose all such Intellectual Property Rights arising in performance of the Services to C-DAC, execute all such agreements/documents and obtain all permits and approvals that may be necessary in regard to the Intellectual Property Rights of C-DAC.	d. C-DAC shall have a right in perpetuity to use all newly created Intellectual Property Rights which have been developed solely during execution of this Contract, including but not limited to all processes, products, specifications, reports and other documents which have been newly created and developed by MSI solely during the performance of Services and for the purposes of inter-alia use or sub-license of such Services under this Contract. e. to be deleted	As per RFP	Johnson Controls CNT



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		e. If C-DAC desires, MSI shall be obliged to ensure that all approvals, registrations, licenses, permits and rights etc. which are inter-alia necessary for use of the goods supplied / installed by MSI, the same shall be acquired in the name of C-DAC, prior to termination of this Contract and which may be assigned by C-DAC to MSI for the purpose of execution of any of its obligations under the terms of the Bid, Tender or this Contract. However, subsequent to the term of this Contract, such approvals, registrations, licenses, permits and rights etc. shall endure to the exclusive benefit of C-DAC.			
	2.2.11/116 (2)	2.2.11. Intellectual Property Rights	Request to amend as: SI hereby grants to Authority a non-exclusive, non-sub licensable and perpetual license and right to use the deliverables, formats, material and the documentation solely for Authority's own internal business operations as set forth under the this Agreement. SI's software license under this Agreement does not include the right to (a) sell, lease, exchange, mortgage, pledge, license, sub-license, assign or in any other way convey, transfer or alienate SI property in favour of any person (either for commercial consideration or not (including by way of transmission) and/or (b) reverse compile or in any other way arrive at or attempt to arrive at the source code of the SI property. All the software licenses and warranties pertaining to any software and/or hardware	As per RFP	Honeywell Honeywell Automation India Ltd.



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			supplied under this agreement shall be as per SI's license terms and conditions and/or End User License Agreement.		
	2.1.31 Fall Clause: /109	Fall Clause/ MFC: The bidder shall undertake that the price charged/finalized for the store/services supplied under the tender shall in no event exceed the lowest price at which the bidder offers the store/services of identical description to the other organization during the currency of contract. If at any point of time during the period, the seller reduces the sale price, sells or offer to sell such store/ service to any other organization including the Buyer at a price lower than the price chargeable under the present tender, he shall notify such reduction within 7 (Seven) days and the price payable under the contract shall stand correspondingly reduced. An undertaking shall be submitted by the bidder in this regard with the technical bid.	Fall Clause is applicable to rate contracts. Since the MSI will be finalised based on competitive bidding process in this Tender, Fall Clause should not apply. We therefore request deletion of this clause. Alternatively, we propose the following modified text for the clause: " <i>The bidder shall undertake that the price charged/finalized for the entire solution developed under the tender shall in no event exceed the lowest price at which the bidder offers solution of identical description to the other organization during the implementation period. If at any point of time during the aforementioned period, the seller reduces the sale price, sells or offer to sell such solution to any other organization at a price lower than the price chargeable under the present tender, he shall notify such reduction within 7 (Seven) days and the price payable under the contract shall stand correspondingly reduced from the date of notification. An undertaking shall be submitted by the bidder in this regard with the technical bid</i> "	As per RFP	Hewlett Packard Enterprise India Pvt Ltd



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	2.1.32 Jurisdiction / 109	This document including the Contract Document shall be governed by and construed in accordance with the laws of India and <u>exclusive jurisdiction of the Courts of Pune</u> would lie. 2.2.2(d): The <u>venue of the arbitration shall be Pune</u> . The language of arbitration shall be English. <u>Courts in Pune only shall have the exclusive jurisdiction to try, entertain and decide the matters which are not covered under the Arbitration and conciliation Act.</u>	Since the project is being executed in Delhi, we submit that venue of arbitraiton should be Delhi and jurisdiction should lie with courts in Delhi. .	As per RFP	Hewlett Packard Enterprise India Pvt Ltd
	2.1.31 Chapter 2: Conditions of Contract	Fall clause	Since this is a competitive RFP, bidder request to confirm that this clause is not applicable	As per RFP	Hewlett Packard Enterprise India Pvt Ltd

**Chapter-3**

S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
1.	3.1.1 C4i-I-(1) / 118 (03)	Video Wall Solution- 70" cubes in a 4 X 4 arrangement 3 Video Walls - Qty is mentioned as 48 Nos.	1. Our understanding is that, MSI has to supply 48 Nos of 70" cubes i.e 3 set of 4x4 video wall. Please confirm 2. There are 3 No's of Video wall mentioned in BOQ. However the number of controllers required is given as 4 No's. Kindly clarify the requirement of 4 controllers for 3 video walls. 3. As per the BOQ, each video wall will have 16 Cubes. However in page 207 its given "One Controller for 15 nos. 70" display units/modules". Kindly clarify how many cubes the controller has to connect to.	As per RFP (yes) (One controller will have one video wall of 4x4; There will be 3 controllers for 3 Video walls of 4X4 of 70" Display Units; whereas 4th controller is factored as standby.)	1. BHARAT ELECTRONICS LIMITED 2. Larsen & Toubro Ltd
2.	3.1.1 C4i-I-(2) / 118 (01)	Video Wall Controller - 4 Nos	If 3 set of video wall of 4x4 has to supplied then only 3 Nos of Videowall controller is required. Please Confirm.	As per RFP (we have kept 3+1, 1 for HA)	1. BHARAT ELECTRONICS LIMITED
3.	3.1.1 C4i-I-(3) / 118 (01)	LED Monitor- 55" cubes in a 1 X 2 arrangement - Qty is 4 Nos	Our understanding is that, MSI has to supply 4 Nos of 55" cubes i.e. 2 set of 1x2 arrangement. Please confirm	As per RFP (Refer BOQ)	1. BHARAT ELECTRONICS LIMITED
4.	3.1.1 C4i-I-(5) / 118 (01)	Workstations with 3 nos. 24" UHD Touch Monitors for C4I application at multiple rooms on 6th & 7th Floor (EoC) Mike + webcam	Whether MSI has to supply 3x16 UHD Touch monitor (24") or not? Please confirm	Yes, As per RFP	1. BHARAT ELECTRONICS LIMITED



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		+speaker along with operator workstation - Qty is 16 Nos			
5.	3.1.1 C4i-I-(10) / 118 (01)	Civil, Interior, Electrical, Networking, Carpet, Furniture and Security, Chairs Lot. Total qty :1, Phase 1 Qty: 1	Kindly provide the following details: 1. Area details with room dimension and layout 2. Power Tap off point details 3. Back Up Power (DG set) redundancy details or bidder needs to provide the ratings as per the SOR	Details will be shared after signing of NDA.	1. Sterlite Technologies Limited
6.	3.1.1 C4i-II-(18) / 119 (02)	1.ICCC Base platform with GIS engine, reporting, real-time dashboard, User Interface and Alarm Management with unrestricted client connections	1. Request to add the GIS BOQ line item separately as it is different solution from ICCC 2. GIS license requirements are not mentioned in SOR. The project requires Enterprise GIS and Desktop license. Pls define.	As per RFP [Kindly refer qty. of workstation, Handheld devices mobile & Tablet devices etc. from RFP]	1. Larsen & Toubro Ltd
7.	3.1.1 C4i-II-(18) / 119 (04)	6. Mobile App with unrestricted connections	1. Kindly confirm the no of Mobile APP connections to be considered for proper Hardware sizing of the solution. Simultaneous mobile app connections would determine the no of V ' s and Physical servers needed for the solution to work reliably. 2. Unrestricted connections will be difficult to quantify the server and bandwidth requirements. Could you please share the number of mobile users and	As per RFP (Clarification:for sizing one can consider minimum 2000 concurrent users and scalable as per RFP)	1. Larsen & Toubro Ltd (1,3) 2. NEC Corporation India Pvt. Ltd.(1,2)



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			concurrent mobile users to size the solution effectively? 3. Kindly provide the number of concurrent user license for Mobile App		
8.	3.1.1 C4i-II-(19) / 119 (04)	Automatic Vehicle Location System (AVLS)	1. No detailed scope and specification /features available for AVLS application throughout the RFP. Please share the details about for the same. 2. AVLS feature is supposed to provided but its existing setup or proposed required not defined clearly in RFP. Either it should be removed or amended as per requirement.	As per RFP (Clarification: AVLS will be provided by C-DAC)	1. Presto (1,2) 2. Presto Infosolutions Pvt. Ltd.(1,2)
9.	3.1.1 C4i-II-(20) / 119 (02)	Computer Aided Dispatch Software (CAD)	Please specify the details of the CAD system Viz, No of calltakers, No of Dispatchers, No of Supervisors, No of Administrators No of GIS specialist, No of MDT/Mobile users No of Remote viewers etc. Required	As per RFP (CAD will be provided by CDAC)	1. Esri India Technologies Private Limited 2. Prakhar Software Solutions
10.	3.1.1 C4i-II-(22) / 119 (21)	Video Management & Recording Software – 10,000 camera licenses + 1000 cameras floating licensing for existing camera integration	1. The floating licenses mentioned for existing camera integration - will these cameras also record the video feeds in the DC? What is meant by the term "floating"?	As per RFP (Clarification: 1000 Floating Licenses are required for the viewing of the any 1000 cameras	1. Matrix Security & Surveillance Pvt Ltd (1,2,5) 2. Johnson Controls 3. Sterlite Technologies Limited (5)



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			We assume the necessary bandwidth is available to integrate such cameras, the cameras support additional stream for viewing/ recording functions and the cameras are ONVIF compliant. Kindly clarify. 2. Kindly clarify what is meant by the term "floating"? 3. As per RFP we understand floating license means any 1000 existing cameras to be considered part of the proposed solution 4. The floating licenses mentioned for existing camera integration - will these cameras also record the video feeds in the DC? Kindly Explain.	from the existing 15,000+cameras installed under different schemes)	4. PruTech Solutions India Pvt. Ltd. (2,5) 5. Tech Mahindra (2,5) 6. Videonetics Technologies Pvt Ltd. (2,5) 7. Bodhtree (2,5) 8. Larsen & Toubro Ltd (3,5)
11.	3.1.1 C4i-II-(23) / 119 (01)	Video Analytics Software for 2500 cameras (2 use cases on an average per camera)	Video Analytics licenses are based on the no. of cameras and NOT on use cases. So please clarify the final Qty of the camera on which required to run video analytics at a time.	As per RFP	1. DAK Infosoft (P) Ltd
12.	3.1.1 C4i-II-(26) / 119 (07)	Video Summarization and Forensic Software	1. Specifications for Forensic Software is not provided in the RFP. Kindly share the same. 2. Kindly confirm if the software will work on all the cameras and what will be the concurrent load and the expectation on the time to	As per RFP	1. Larsen & Toubro Ltd (1) 2. Matrix Security & Surveillance Pvt Ltd (2) 3. Bodhtree (2) 4. Videonetics Technologies Pvt Ltd. (2)



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			return the results to be shown for the components.		5. Tech Mahindra (2) 6. PruTech Solutions India Pvt. Ltd. (2) 7. Sterlite Technologies Limited (2)
13.	3.1.1 C4i-II-(27) / 119 (01)	PIU (Picture Intelligence Unit) Software	As per specifications, it is mentioned with FRS & VA capabilities, Please share the following inputs to size PIU hardware and commercials, 1. Number of FRS camera licenses 2. Number of VA licenses	As per RFP	1. NEC Corporation India Pvt. Ltd.
14.	3.1.1 C4i-II-(28) / 119 (09)	Customized Interface software for integration with... and other databases - Total 32 Interfaces (datasets)	1. Kindly provide the existing Application details such as - OS, Database, Java/.Net/ Mainframe etc. - Make and Model of Existing Application - Whether the API of existing system will be facilitated by the client - Provide the File Format of the existing data - Whether it support HTTP/HTTPS Integration 2. Customized Interface software for integration with other databases - Total 32 Interfaces (datasets): list of interfaces, what customization? 3. 1. Are these 32 data sources readily available with Customer	As per RFP (Details will be provided later during implementation, APIs / Protocols will be made available for the integration)	1. Larsen & Toubro Ltd (1,4) 2. BHARAT ELECTRONICS LIMITED (2) 3. NEC Corporation India Pvt. Ltd. (3) 4. Bodhtree (4) 5. Matrix Security & Surveillance Pvt Ltd (4) 6. PruTech Solutions India Pvt. Ltd. (4) 7. Tech Mahindra (4) 8. Videonetics Technologies Pvt Ltd. (4)



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			with required API support? 2. Can bidder allowed to go Go-Live if in case of Data sources are not made available with required API from customer? Once the dataset is made available with API, bidder will make sure to interface and deliver. 4. The integrations will work in an integrated manner for various use cases asked in the RFP. As we understand, this is not a separate software required, but a collection of integration interfaces that will help achieve various use cases mentioned in the RFP in an integrated fashion from the VMS and VA. Kindly confirm.		
15.	3.1.1 C4i-II-(30) / 120 (09)	SQL Server 2019 Standard License	1. The license will be used by all the systems which require database including VMS, VA, ANPR and FRS. The quantity of 2 licenses indicate the requirement of failover support as available within the standard version. Kindly clarify if our understanding is correct. 2. Kindly specify use of SQL DB?	As Per RFP (Clarification: SQL server licensing is for internal use, MSI has to quote if any licensing is required for VMS or other applications along with software quoted)	1. Videonetics Technologies Pvt Ltd. 2. Tech Mahindra 3. PruTech Solutions India Pvt. Ltd. 4. Matrix Security & Surveillance Pvt Ltd 5. Bodhtree 6. Johnson Controls 7. Larsen & Toubro Ltd 8. Prakhar Software Solutions



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					9. Esri India Technologies Private Limited
16.	3.1.1 C4i-II-(34) / 120 (01)	Security Software Tools and commissioning support of all softwares- additional licenses, etc.	This is a very generic statement. Please mention the expectation (name / type) from security software tools, If any specific security tool/software is required.	As per RFP	1. Larsen & Toubro Ltd
17.	3.1.1 C3i / 119 (06)	Workstations for LED Display without Monitor - requirement for C4i, C3i and C2i...	We understand that these workstations (wherever mentioned in the BoQ) will require clients required for VMS, VA, ANPR and FRS. Kindly confirm.	As per RFP (Requirement is self-explanatory)	1. Matrix Security & Surveillance Pvt Ltd 2. Videonetics Technologies Pvt Ltd. 3. PruTech Solutions India Pvt. Ltd. 4. Tech Mahindra 5. Sterlite Technologies Limited 6. Bodhtree
18.	3.1.1 C3i / 121 (01)	SoR Format Phase 2- quantity	In the SOR, Ph 2 Quantities start from Page No. 121 however on the heading of table at Page 122, "Phase 1" Quantity is mentioned on Top of table. Request you to amend the same.	Kindly Refer Corrigendum	1. Larsen & Toubro Ltd
19.	3.1.1 C3i (12)/ 121 (01)	Civil, Interior, electrical, furniture, security required for completing at each district headquarter as per layout and other details. Total : 16, Phase - 6	Kindly provide the following details : 1. Area details with room dimension and layout 2. Power Tap off point details 3. Back Up Power (DG set) redundancy details or bidder	Details already shared after signing the NDA.	1. Sterlite Technologies Limited



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			needs to provide the ratings as per the SOR		
20.	3.1.1 MCCV/ 125 (01)	Mobile Command Control Vehicle (MCCV) comprising of following items per vehicle :	1. Please review the quantities mentioned in the "Schedule of Requirement" and "Price Bid Format"; there is a mismatch in quantities	Kindly Refer Corrigendum	1. Mistral Solutions Pvt Ltd
21.	3.1.1 MCCV/ 126 (01)	Schedule of Requirements Total Price of 2 MCCV with 05 Years Support	2. We understand that Project Scope includes 3 years O&M & warranty only. Next 2 years Warranty to be quoted separately hence request you to amend the same in this Schedule of Requirements.	Kindly Refer Corrigendum	1. Larsen & Toubro Ltd
22.	3.1.1 Data centre / 126 (01)	a. Server: Data Centre- phase 1 only a Servers (All Servers mentioned in this section) Near Disaster Recovery Center- phase 2 only (All Servers mentioned in this section)	Every OEM has their own methodology to calculate the server requirements and not uniform across all OEMs. Request you to clarify, 1. IF OEM requires less server hardware, what should be done mentioned in BOQ? 2. If OEM requires more server hardware, what should be done/mentioned in BOQ?	As per RFP	1. NEC Corporation India Pvt. Ltd.
23.	3.1.1 Data centre /127 (01)	a. Server: (10) Video Summarization/ Synopsis and Forensics Server	Request to share the licenses quantity for Video Summarization and Forensic applications	As per RFP	1. Larsen & Toubro Ltd
24.	3.1.1 Data centre /127 (02)	a. Server: (17) Total Host (combined together as specified under datacentre are quantified as 191 qty	OS for Server, Virtualization etc. Is mentioned as 77 Qty Need Clarification on the total count of server hardware	As per RFP	1. PruTech Solutions India Pvt. Ltd. 2. Bodhtree



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25.	3.1.1 Data centre /127 (01)	d. Security 2. IPS & DDos for 65 Gig throughput	In DDOS specifications, it is clearly mentioned that DDOS should be a separate appliance and not as part of firewall or IPS. But in BoQ, IPS & DDOS are mentioned in single line item. Please mention DDOS appliance as a separate line item in BoQ alongwith with details of expected throughput.	Yes, kindly quote both qty in same heading	1. Larsen & Toubro Ltd
26.	3.1.1 Data centre /127 (01)	d. Security 3. VAPT for 170000IP bands (IP Schema)	Please confirm the frequency for VAPT testing. Will it be done one time during project or once every year or twice every year.	As per RFP	1. Larsen & Toubro Ltd
27.	3.1.1 Data centre /127 (01)	d. Security 4. WAF (1 gig internet data)	In BoQ, it is mentioned WAF for 1 gig throughput whereas in specifications, it is mentioned 2Gbps. Can you please clarify whether WAF solution to be provided for 1 Gbps or 2 Gbps	Kindly Refer Corrigendum	1. Larsen & Toubro Ltd
28.	3.1.1 Data centre /128 (05)	d. Security 6. Anti-APT (sandboxing)	The quantity mentioned against Anti-APT solution is 2, whereas the components required for a solution to work are at the minimum as below;; 1. Network/Web APT Inline sensors - in HA 2. Email APT in redundancy - 2 3. Centralized Mgmt (in HA) Please update the quantity and also provide the right quantity for	As Per RFP (Minimum specification is asked, MSI can quote more, if so required to meet the SLA)	1. Bodhtree 2. PruTech Solutions India Pvt. Ltd. 3. iValue InfoSolutions Pvt. Ltd 4. RAH InfoTech (P) Ltd 5. iValue InfoSolutions Pvt. Ltd.



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			complete APT solution to work independent of Firewall/IPS/Proxy etc. as proposed in amendment The quantity mentioned against Anti-APT solution is 2, whereas the components required for a solution to work are at the minimum as below;; 1. Network & Web APT Inline - 1 (in HA) 2. Network APT Lateral Movement - 1 3. Email APT - 1 (in HA) 4. Centralized Mgmt - 1 (in HA)		
29.	3.1.1 Data centre /128 (02)	d. Security 11. AAA Server (NAC)	AAA framework must allow for the complete separation of Authentication and Authorization sources. For example, authentication against Active Directory but authorize against an external SQL database.	As per RFP (Minimum specification is asked, MSI can quote more, if so required to meet the SLA)	1. Extreme Networks
30.	3.1.1 Data centre /128 (03)	d. Security 12. Network Load Balancer - Qty-01	Network load Balancer is a very critical component of the DC and as per specifications, the high availability has been asked but in BoQ only there is 1 quantity. Kindly amend the qty 2 like other components for achieving high availability	As per RFP	1. Tech Mahindra 2. NEC Corporation India Pvt. Ltd.



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
31.	3.1.1 Data centre /128 (03)	d. Security 14. Windows OS -73 Server	Request to open this specification and provide the option to SI to choose between Windows & Linux OS	As per RFP	1. Bodhtree
32.	3.1.1 Near DR /129 (06)	7. Near Disaster Recovery Center section i.e. List from C4I servers to LDAP server has been defined with Total QTY to be 11	Since each of these 7 types have different server specs, Please clarify the individual QTY for each server type defined so that OEM/bidder can accordingly configure and quote in the final submission	Yes qty-11 mentioned are of different specifications, MSI has to quote servers as per specification mentioned in RFP	1. Elkosta Security Systems India 2. Dell Technologies 3. Samsung SDS India Pvt Ltd. 4. Telecommunications Consultants India Limited 5. Tech Mahindra 6. NEC Corporation India Pvt. Ltd.
33.	3.1.1 Near DR /129 (01)	15. Rack - 4 Nos.	Please share the detailed specification of these rack.	As per RFP.	1. Schneider Electric
34.	3.1.1 Near DR /129 (01)	16. Firewall- 3 Gig, IPS, DDos, Anti-APT, VAPT, server security- 3 GB throughput	1)In BOQ under DR location, firewall, IPS, DDos, anti-apt, VAPT, server security are mentioned in single line item. Can you please provide detailed breakup of security components mentioned in this line item. 2) Please clarify whether IPS & DDos are to be part of Firewall or as separate appliances.	As per RFP (It is part of firewall.)	1. Larsen & Toubro Ltd
35.	3.1.1 Near DR /129 (01)	17. Network Load Balancer - Qty-01	Network load Balancer is a very critical component of the DC and as per specifications, the high availability has been asked but in	As per RFP	1. NEC Corporation India Pvt. Ltd.



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			BoQ only there is 1 quantity. Kindly amend the qty 2 like other components for achieving high availability		
36.	3.1.1 Near DR /129 (02)	18. Windows OS –Server	Request to open this specification and provide the option to SI to choose between Windows & Linux OS	As per RFP	1. PruTech Solutions India Pvt. Ltd. 2. Bodhtree
37.	3.1.1 Field /130 (01)	6. Network Access Switches Port -8 or more -4633 (Junction Box Location)	Kindly share the latitude and longitude of all 4633 Junction Box (JB) locations .	Details will be shared after signing of NDA.	1. Sterlite Technologies Limited
38.	3.1.1 Field /130 (03)	11. Cat6A/ E Cable (UTP)	1. Please clarify which cable to be proposed Cat6A or Cat 6. Plesae note there is no such cat 6E cable .Most Likely it should be Cat 6 cable as connectivity is cat 6 2. Please clarify which cable to be proposed Cat6A or Cat 6 .Plesae note there is no such cat 6E cable .Most Likely it should be Cat 6 cable as connectivity is cat 6	As per RFP	1. NEC Corporation India Pvt. Ltd.(1) 2. Johnson Controls (2)
39.	3.1.1 Field /130 (03)	13. Power-cable - Unarmoured 1.5 Square MM for Equipment Power with 3 PIN Top Total Quantity: 51760 Phase 1 Quantity: 550000	It seems typo error in Phase-1 Quantity, Kindly confirm the quantity	Kindly refer corrigendum	1. EFKON India Pvt. Ltd
40.	3.1.1 Field /130 (03)	17. Surge Protector - single port internet RJ-45 Plug-in Surge Protector for PoE and PoE+ for All field cameras and L2 Switches	1. Surge Protector. Is it Active Component? For the requirement of surge protection; There needs to be implementation of heavy gauge	Kindly refer corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. Temflo Systems Pvt. Ltd.



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			cable and components for surge arrester at Camera end and at L2 switch end. 2. Please note, only item Surge Protector is mentioned in the RFP, but specifications for the same are not mentioned. Hence we are suggesting to incorporate the below mentioned minimum specifications / functional requirement for Surge Protector.		3. INTEC INFONET PVT. LTD.
41.	3.1.1 Field /134 (01)	SoR Format Phase 3- quantity	In the SOR, Ph 2 Quantities start from Page No. 134 however on the heading of table at Page 135, "Phase 1" Quantity is mentioned on Top of table. Request you to amend the same.	Kindly Refer Corrigendum	1. Larsen & Toubro Ltd
42.	3.1.1 Field /137 (02)	5. Operator- Manpower at C2i for 2 Pilot Districts (approx. 27 Police Station) 6. Operator- Manpower at C3i for 2 Pilot Districts 7. Operator- Manpower at C4i for 2 Pilot Districts	Operator- Manpower at C2i for 2 Pilot Districts (approx. 27 Police Station) Operator- Manpower at C3i for 2 Pilot Districts Operator- Manpower at C4i for 2 Pilot Districts Kindly clarify whether above manpower required during Operations and Maintenance phase as the price bid specifies these manpower till go-live of phase 1 only.	As per RFP (It will be required after go-live in O&M phase also.)	1. Honeywell 2. Honeywell Automation India Ltd.



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43.	3.1.1 Field /137 (02)	Any other or miscellaneous Risk - Power Charges, ROW, RI Charges, Taxation	1. We understand that Recurring Power Charges shall be paid by the Client directly. Hence MSI shall quote for only the Power Connection Charges here. Request your confirmation for same. 2. We request you to clarify on what has to quoted against taxation. 3. We understand that MSI shall be responsible for Supporting and coordinating with the Authorities in facilitating ROW and the Charges required for ROW shall be paid by the Client directly to various Municipal and Development Offices. Request your confirmation for same.	As per RFP (Refer Operational Power Charges section page no 205/656) Clarification: Tax as per Govt. Guidelines on Services Clarification: MSI Needs to incorporate the charges of ROW & RI from JB to Poles and Power meter to JB.	1. Larsen & Toubro Ltd
44.	3.1.2 R(2) /149 (01)	2. Cat-6 E UTP Cable	Please change it to Cat 6 as there is no such Cat 6E cable	As per RFP	1. NEC Corporation India Pvt. Ltd.
45.	3.1.2 R(13) /150 (02)	13. AMP Cat 6, UTP Mounting Cords for Data Rack End 4 Feet (Yellow)	The requirement is for AMP product; which is brand specific. AMP product now been taken over by Compscope; Please make it general for others to participate	Kindly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. NEC Corporation India Pvt. Ltd.
46.	3.1.2 R(14) /150 (02)	14. AMP Cat 6, UTP Mounting Cords for Data Rack End 7 Feet (Yellow)	1. AMP is the name of brand please remove 2. The requirement is for AMP product; which is brand specific.	Kindly Refer Corrigendum	1. NEC Corporation India Pvt. Ltd. 2. Larsen & Toubro Ltd



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			AMP product now been taken over by Compscope; Please make it general for others to participate		
47.	3.1.2 R(15) /150 (02)	15. AMP Cat 6, UTP Mounting Cords for Data Server Rack Both end 7 Feet (RED)	1. AMP is the name of brand please remove 2. The requirement is for AMP product; which is brand specific. AMP product now been taken over by Compscope; Please make it general for others to participate	Kindly Refer Corrigendum	1. NEC Corporation India Pvt. Ltd. 2. INTEC INFONET PVT. LTD.
48.	3.1.2 T(1) /151 (27)	1. Supply, Installation, Testing and Commissioning of microprocessor based 150 KVA/ 200 KW UPS with In Built Isolation Transformer using Continuous duty, three phase, Monolithic True Online Double Conversion UPS using PWM IGBT technology, Dual Feed input, 3 Phase input 415 V 10% -15%, Online mode efficiency of 95% from 25% to 100% loading. 3 phase input and 3 phase output.	1. Please confirm that 1 Unit required is 150 KVA and other one is 200 KVA (for C4i and PAC respectively). Please allow to consider 200 KVA in place of 200 KW as UPS Rating is always specified in KVA. 2. Isolation transformer shall be external at Input of UPS for better results, protection in Online and Bypass Mode Both will be achieved with this change. 3. As there is no paralleling need for this UPS, please accept paralleling of 4 units instead of mentioned 8 units (in future) 4. Warranty of 5 Years need to be confirmed for "UPS Only" or "UPS & Battery both".	As per RFP MSI can read as: Supply, Installation, Testing and Commissioning of microprocessor based 150 KVA/ 200 KW UPS with INPUT In Built copper Isolation Transformer using Continuous duty, three phase, Monolithic True Online Double Conversion UPS using PWM IGBT technology	1. Eaton Power Quality Pvt.Ltd. (1,2,3,4,5) 2. Modi Infosol Pvt. Ltd. (2,3,4,5) 3. Elkosta Security Systems India (2,3,4,5) 4. Telecommunications Consultants India Limited (2,3,4,5) 5. Tech Mahindra (2,3,4,5) 6. SWITCHING AVO ELECTRO POWER LTD (6) 7. Schneider Electric(6,7)



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			5. As per current UPS industry standards all Latest technology UPS are Transfotmerless only, As same help in achieving better efficiency .small foot print and all the tender specifications can be met with trasformerless UPS also. We recommend to allow bidders to quote for "Transformerless UPS". This will not require and transformer internal or externl. 6. Please Clarify 150KVA /150KW or 200KVA/200KW. As Maximum PF of a UPS is 1. 7. The 3 Phase UPS are designed for Unity output P.F. Hence 150 kVA UPS will be 150 kW in terms of real power. The older generation UPS used to come with inbuilt transformer due to the limitation of DC bus voltage where as the latest generation UPS are Transformer less IGBT Rectifer & IGBT Inverter based having Modular fault tolerant design with hot replaceable power modules. Please confirm.		
49.	3.1.2 T(4) /151 (01)	4. Base structure for the UPS and Battery bank	Please confirm if this refers to Base frame's. Also share the height of Base frames required.	As Per RFP Yes, accepted Base frame has to be supplied.	1. Schneider Electric



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
				Minimum 150mm height.	
50.	3.1.5 L(a-2)/168 (01)	a-2. Compressor refrigerant circuit (Two compressors with Independent Circuits)	Please change "two compressor with independent circuit" to " two or four compressors with independent circuits"	As per RFP	1. Schneider Electric
51.	3.1.5 L(a-2)/168 (01)	a-2.The fan section should be below false floor	Can we offer product having fan inside the cabinet, Please clarify	As per RFP	1. Schneider Electric
52.	3.1.5 L(a-2)/169 (01)	a-2. front & back panels shall be with 25mm thick acoustic mineral wool insulation.	Please change or accept "25mm thick acoustic mineral wool insulation" to 15mm thick PUF insulation	As per RFP	1. Schneider Electric
53.	3.1.5 L(a-2)/169 (01)	a-2. Separate condenser unit shall be provided for each refrigerant circuit	Can we offer two coils in single condenser units as 2 individual condensers will take lot of space which is a old version of technology	As per RFP	1. Schneider Electric
54.	3.1.52 L(a-2)/169 (01)	a-2. The outdoor condenser shall have EC fans which will vary speed depending upon ambient temperature	Can we offer product with "Axial fans with Fan speed controller" to vary speed depending upon ambient temperature	As per RFP	1. Schneider Electric
55.	3.1.5 R(2)/183 (01)	2. Cat-6 E UTP Cable	Please change it to Cat 6 as there is no such Cat 6E cable	As per RFP	1. NEC Corporation India Pvt. Ltd.
56.	3.1.5 R(6)/183 (01)	6. AMP Cat 6, UTP Mounting Cords for Data Rack End 4 Feet (Yellow)	AMP is the name of brand please remove	Kindly Refer Corrigendum	1. NEC Corporation India Pvt. Ltd.
57.	3.1.5 R(7)/183 (01)	7. AMP Cat 6, UTP Mounting Cords for Data Rack End 7 Feet (Yellow)	AMP is the name of brand please remove	Kindly Refer Corrigendum	1. NEC Corporation India Pvt. Ltd.
58.	3.1.5 R(8)/183 (01)	8. AMP Cat 6, UTP Mounting Cords for Data Server Rack Both end 7 Feet(RED)	AMP is the name of brand please remove	Kindly Refer Corrigendum	1. NEC Corporation India Pvt. Ltd.

**Chapter 4**

S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
1.	4.1.1 (1)/186 (2)	The system will be integrated with the existing Government Data sets of various departments (32) which will be coordinated with MSI for seamless integrations and outcome driven operations.	Please septicity integration details? What will be integrated? Is it only getting inputs from these departments at DB level or any other integration	As per RFP (The purpose of database integration is to collect and have all the useful information from all the distinct applications in case it is needed for investigation and decision making purpose. Only selected information from all the datasets will be stored)	1. Esri India Technologies Private Limited 2. Prakhar Software Solutions
2.	4.1.1 (2)/186 (2)	The system will be integrated with the existing Government Data sets of various departments (32 No.) which will be coordinated with MSI for seamless integrations and outcome driven operations.	1. Are these 32 data sources readily available with Customer with required API support? 2. Can bidder allowed to go Go-Live if in case of Data sources are not made available with required API from customer? Once the dataset is made available with API, bidder will make sure to interface and deliver. MSI will be responsible to integration with 32 Nos of Database available in various department, and requisite API/SDKs or Interface for integration will be facilitated CDAC/Delhi Police. We request you to please amend the clause as "The system will be integrated with the existing Government Data sets of various departments (32 No.) Which will be coordinated with MSI for seamless integrations and outcome driven	As per RFP (SDKs/APIs for integration of Databases will be provided by C-DAC. APIs will be used to create ICCC data repository and from this repository ICCC has to integrate for correlation of data for multiple alarms.)	1. NEC Corporation India Pvt. Ltd.



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			operations. C-DAC will provide the SDK/APIs for the integration".		
3.	4.1.1 (3)/186 (2)	Additional suggestions	As the field switches are going to be the most critical component of the city surveillance network and field camera will be getting connected to it, hence security features like MACsec-128, static Inter-VLAN routing, etc. will help in strengthening security at access/field level. It is suggested to kindly add the following clause under field switches as "Shall support MACsec-128 bit encryption, Static Inter-VLAN routing" As the field switches are going to be the most critical component of the city surveillance network, following feature will have added advantage and enhance the desired functionality of the solution ask. It is suggested to kindly add the clause as "Shall support SPAN session, RSPAN should be supported and removable storage (SD Card or USB) for configuration backup"	As per RFP (Minimum requirement is specified in the RFP, MSI can quote better solution)	1. Cisco
4.	General-1/186 (3)		As per solution ask, the camera feeds will be based on multicast. As per RFP document, it seems that Delhi Police will be taking MPLS bandwidth from Service Provider. However, it is not clear that how DP is planning to run Multicast on a overlay network, which in this case is SDWAN. This approach seems to be inefficient and may not be feasible. The advantage of multicast is that any receiver can get the feed from	As per RFP (SDWAN is not required for the multicast underlay traffic. Multicast underlay traffic from the ISP will be terminated on L3 at the C2i and C3i, C4i and nDR, DC)	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco



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			source which will be difficult and complex in case DP do not build their own network. Further, it is also not suggested to have a large L2 domain which may bring more complexity in management of the overall network. Kindly provide the brief description on the proposed network architecture for more clarity.		
5.	General-2/186 (1)		The RFP asks for PIM for multicast but no L3 or MPLS features has been asked which leaves solution incomplete. Kindly clarify the same.	As per RFP (Clarified at Sr No 4)	1. Cisco
6.	General-3/186 (1)		The RFP talks about community cameras to be connected with the system, which means lot of connectivity requirement from SP hence the design proposed may not be scalable enough to meet the requirement. Kindly clarify.	As per RFP (The Community cameras are integrated on need basis through edge gateway and this requirement is considered in the solution designed.)	1. Cisco
7.	General-4/186 (3)		The RFP talks about faster convergence of camera feeds. How that can be achieved without running Point to multipoint protection, is also not clear. Kindly clarify the same.	As per RFP (Since, feed from camera will travel through multicast Network through MPLS network which will be dedicated Network for safe city project).	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
8.	General-5/186 (1)	10G Networking features requirements for all the servers at DC and NDR	All switches at DC and NDR has been asked with 10G SFP+ ports, hence it is suggested to change the 10 G copper Interface requirement to 10G SPF+ interface required. This change will not impact the desired functionality of the solution ask. Kindly modify the clause as "4x10 SFP+ ports with required 3 meter length of Fiber patch cords"	As per RFP (Clarification: We have changed all the interfaces from copper to Fiber in servers. (Ref clauses of Server)	1. Cisco



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
9.	General-6/186 (1)	Additional Point	Is the network fiber or copper? Kindly confirm so that appropriate ports can be provided on SIEM collector appliances	It is Fiber network	1. RSA
10.	General-7/186 (1)	Additional Point	Kindly add clause that the SIEM solution should be in rated as leader's in Gartner leaders quadrant in any if the last 2 years to ensure the solution quoted is of highest quality	As per RFP	1. RSA
11.	General-8/186 (1)	Additional Point	Kindly suggest of there is a requirement for OEM training for SOC team? Kindly specify the number of man days	Yes(Mentioned under Training, Capacity Building in RFP)	1. RSA
12.	General-9/186 (1)	Condenser location is at which floor	Kindly confirm outdoor location?	Location of the condenser on the same floor as of DC	1. Schneider Electric
13.	General-10/186 (1)	Data Centre and Servers	SIEM Qty. is 1? Is there requirement for DR?	As per RFP (SIEM should be provided in set of two to ensure HA)	1. RSA
14.	General-11/186 (1)	ISO50001	UPS vendor must have ISO 50001 certification	As per RFP (Minimum requirement is specified in the RFP, MSI can quote better solution)	1. Schneider Electric
15.	General-12/186 (1)	Processors requirement for C4i servers, Integration server, VMS server, VRS servers, VAS servers, FRS server, ANPR Server, VSnFS Server, PIU Server, DCnEMS Server, AVnLDAP Server, View MS Server and DLP Server.	It is suggested to go for latest generation cascade lake refresh CPU from Intel and the change will not impact the desired functionality of the solution. Kindly modify the clause as "Up to two Intel Cascade Lake Refresh processor, upto 24 cores/processor @ 2.4GHz base frequency or equivalent or better"	As per RFP (Minimum requirement is specified in the RFP, MSI can quote better solution)	1. Cisco



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
		Not suggesting for AI Training and Continuous Learning Server			
16.	General-13/186 (1)	Room Layout with Rack placement	Kindly share Room layout with Rack placement to check the feasibility of placement of Precision AC	As per RFP (Room layout with Rack placement will be shared after signing NDA)	1. Schneider Electric
17.	General-14/186 (1)	--	UPS manufacturing Facility In India for FAT Must have manufacturing facility In India for all Rating.	As per RFP	1. Schneider Electric
18.	General-15/186 (1)	UPS Monitoring systems	UPS can be monitor remotely to bring down the down time of the UPS.	As per RFP (Requirement is already been considered)	1. Schneider Electric
19.	4.2.2 vi a/188 (3)	Integration of various existing database CCTNS, Traffic e-challans, PCC, ERSS-112 etc. which help in training of data and implementing AI algorithm for women safety.	Integration is subject to standard protocol support. Need to understand the scope. As per our understanding, integration with CCTNS, Traffic e-challans, PCC, ERSS-112, VAAHAN, SARTHI, AFIS, E-Beat, Himmat Plus SOS will be provided but requisite APIs/SDKs or interface will be provisioned by the department for the same. And management or Updation of these database will also be taken care by itself, please confirm whether our understanding on the same is correct. Integration is subject to standard protocol support. Need to understand the scope.	As per RFP (SDKs/APIs for integration of Databases will be provided by C-DAC. APIs will be used to create ICCC data repository and from this repository ICCC has to integrate for correlation of data for multiple alarms.)	1. Presto 2. NEC Corporation India Pvt. Ltd. 3. Presto Infosolutions Pvt. Ltd.
20.	4.2.2 vi/189 (10)	d. Integration of existing / proposed different CCTV projects of Delhi Police	1. Existing camera feeds integration will be supported on standard protocols. 2. The integration scope is limited to the 1000 floating VMS licenses	1. Through edge gateway and support standard protocols. 2. As per RFP(Yes) 3. Provision of bandwidth is available, whereas MSI has to consult ISP for	1. Presto (1) 2. Matrix Security & Surveillance Pvt Ltd (2)



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			mentioned in the BoQ. Kindly confirm 3. Kindly clarify the below mentioned Points:- 1. We are required to provision of the Network bandwidth for the existing cameras or not. 2. On the existing System, Necessary support & Management of applicable SLA will be provided by the respective department or Vendors. 4. Existing camera feeds integration will be supported on standard protocols.	Bandwidth, There is no existing system to be maintained by MSI. Only integration is in the scope of MSI. Out of 15000 cameras, at any given point of time 1000 cameras has to be integrated for viewing at C4i location on need basis 4. Yes (Refer RFP in detail for integration scope)	3. PruTech Solutions India Pvt. Ltd. (2) 4. NEC Corporation India Pvt. Ltd. (3) 5. Larsen & Toubro Ltd (2) 6. Presto Infosolutions Pvt. Ltd. (1) 7. Tech Mahindra(2) 8. Johnson Controls (2) 9. Videonetics Technologies Pvt Ltd. (2) 10. Bodhtree (2)
21.	4.2.3 n/189 (1)	Intended Benefits n. Ensures scalability and interoperability of systems	1. As per our experiences managing the scale of the RFP, our recommendation would be that Delhi Police should look for highly scalable system, i.e., storing only index information in database while images should be stored in separate file server. Request your confirmation whether DMS should store image and binary document in a separate file server? 2. With respect to DMS requirement, Is Delhi Police looking out for a proven Document Management System which has at least one live implementation site in India in Govt/PSU with more than 10 crores document archived in document management repository	As per RFP (Document management system is in ICCC scope (4.8.1 E 4/221 and Sr No 86 of Response sheet) and hardware for the same will be managed from servers in DC.)	1. Newgen Software Technologies



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			with more than 5000 users using this Document Management System?		
22.	4.3 iii/190 (6)	iii. Video summarization with the photo image help the investigating officer to expertise the process of investigation	We are not clear of the Photo image help mentioned with respect to the Video Summarization. Kindly clarify the use case.	As per RFP (Requirement is self-explanatory and refer RFP in detail)	1. Matrix Security & Surveillance Pvt Ltd 2. Videonetics Technologies Pvt Ltd. 3. Larsen & Toubro Ltd 4. PruTech Solutions India Pvt. Ltd. 5. Tech Mahindra 6. Bodhtree
23.	4.4.4/191 (4)	Existing databases such as Traffic, Crime & Criminal related database e.g. CCTNS, e-challan system, VAAHAN, SARTHI etc. will be integrated in the proposed system for the real-time monitoring and tagging of suspicious persons and generating warnings.	We understand that any delay in inputs from the stakeholders /owners of the respective systems that delay the integration efforts at MSI end, shall be treated as a hindrance and appropriate time extension provided which shall be free of any LD/penalty/termination liabilities. Also, the prime responsibility of ensuring the inputs are received from the respective stakeholders shall lie with CDAC/Delhi Police. Please confirm Kindly provide more details on the backend databases being used for all the 32 datasets which will be integrated with C4i application and also kindly clarify if all the Data bases to be ingested through the Data Lake architecture for C4i and other application integrations.	As per RFP (SDKs/APIs for integration of Databases will be provided by C-DAC. APIs will be used to create Data lake which will be integrated with C4i application.)	1. Sterlite Technologies Limited 2. NEC Corporation India Pvt. Ltd. 3. Larsen & Toubro Ltd



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			Department is requested to kindly provide more details on the backend databases being used for all the 32 datasets which will be integrated with C4i application and also kindly clarify if all the Data bases to be ingested through the Data Lake architecture for C4i and other application integrations.		
24.	4.4.4 Integration of existing or other camera feeds into the system/192 (1)	Integration of existing or other camera feeds into the system	The Existing camera to be integrated are via exiting VMS or proposed VMS or directly to be integrated with ICC	As per RFP (Existing cameras will be integrated to quoted VMS through Edge gateway Network.)	1. Esri India Technologies Private Limited
25.	4.4.4 Integration of different Govt. Applications & Systems/192 (1)	i. Emergency response support system integration (ERSS, dial 112) for real-time updates on emergencies focused on women's safety ii. Integration with Himmat Plus SOS mobile App. for real time inputs from women in distress. The inputs include location, auto-video of distress scene, etc.	--	As per RFP	1. NEC Corporation India Pvt. Ltd.
26.	4.4.4 Integration of different Govt. Applications & Systems/192 (1)	Integration of different Govt. Applications & Systems	In case of integration of DMS & workflow system with any other system (existing/upcoming IT systems), apart from the ones mentioned in the RFP, please let us know system details & integration touchpoints. Please mention the name along with	As per RFP (The architecture of the project should be modular and should be designed considering future scalability such that if required Govt. Applications & systems can be integrated easily.)	1. Newgen Software Technologies



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			the objective of the integration with the proposed application.		
27.	4.4.4 Integration of existing or other camera feeds into the system/192 (3)	Integration of existing or other camera feeds into the system: Considering this aforementioned methodology for integration of cameras from other departments, 800 cameras from NDMC will be covered as PILOT integration. Based on the successful results through integration of these cameras, feasibility of integration of cameras from other departments/ projects like IGI Airport, Railways, Metro, etc. will be examined and incorporated.	1. What will be the commercial consideration of additional integration of databases and CCTV? Please clarify. Broadly this project defines the availability of CCTV feeds over the MPLS cloud up to viewing centers and storage sites, But in addition integration of Other open network and Public Wifi enabled existing CCTV feed shall be planned with proper & secure connectivity in phased manner by considering the commercial impacts on current project. 2. The Existing camera to be integrated are via exiting VMS or proposed VMS or directly to be integrated with ICCC	1. MSI has to integrate it through edge gateway, whereas connectivity has to be provided by ISP. 2. Kindly refer RFP in detail	1. Presto (1) 2. Presto Infosolutions Pvt. Ltd. (1) 3. Prakhar Software Solutions (2)
28.	4.4.4 Integration of existing or other camera feeds into the system/192 (6)	It must be noted in order to use video streams and operate analytics on the existing cameras' feed, the regular camera feeds from newly envisaged Safe City Cameras will be dropped momentarily.	The functionality is not clear. Kindly elaborate.	As per RFP (At the C4i 1000 CCTV feeds can be viewed at a time from the newly installed 10,000 cameras of Safe City Project as well as existing CCTVs under various schemes of Delhi Police will be integrated to this project including Smart City Cameras of NDMC. If required analytics to be operated on the integrated cameras for operational purposes then VA and FRS can be operated on these integrated cameras based on features and capabilities of the integrated cameras.)	1. Matrix Security & Surveillance Pvt Ltd 2. Larsen & Toubro Ltd 3. Tech Mahindra 4. Videonetics Technologies Pvt Ltd. 5. PruTech Solutions India Pvt. Ltd. 6. Bodhtree



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29.	4.4.4 Integration of existing or other camera feeds into the system/192 (6)	This layer also incorporates the integration of existing or any other CCTV cameras for either viewing/ analytics at C4i. For the integration activity, edge gateways (2 No. at each District or more as per the requirement at Police Stations based on the existing viewing and storage facilities) have been provisioned which will interface with the existing NVRs at Police Stations recording old IP cameras feed and integrate them with the envisaged system.	1. In order to integrate the existing NVRs to receive the video feeds of the connected cameras, SDKs would be required. If the cameras have separate streams, the same can be used without the requirement of SDK level integration, kindly confirm which approach to be considered. 2. Kindly explain how the monitoring of existing and new CCTVs will happen in the new system at each police station. Will it be through the Edge Gateway appliances?	As per RFP (The Existing camera to be integrated via proposed VMS through edge gateway on need basis As per RFP (Kindly refer edge gateway functionality Yes through edge gateway, not all police stations, but wherever is required as per requirement.)	1. Matrix Security & Surveillance Pvt Ltd 2. Larsen & Toubro Ltd 3. PruTech Solutions India Pvt. Ltd. 4. Tech Mahindra 5. Videonetics Technologies Pvt Ltd. 6. Bodhtree
30.	4.4.7/193 (1)	There will be 2 Mobile Command Control vehicles equipped with all hardware and software feature and interface with C4i to take immediate actions on field as per the inputs received from field level cameras.	Our understanding is the VMS deployed in MCCV should also seamlessly integrate with the C4i / VMS provided for the project. Please confirm if all the specifications of the VMS outlined in section 4.8.2. must also be considered for MCCV too As per given clause, Internal & external network is being asked for connecting the entire system & sub-system deployed as part of this project in count to MSI responsibility, but there is no such line item for connectivity or bandwidth has mentioned in the Bill of Material or Commercial format. In that reference, request you to please clarify whether we are required to provision	As per RFP (Clarification: VMS deployed in MCCV should also seamlessly integrated with the ICCV / VMS provided for the project 4 SIM based 4G Aggregator Device with Dongles and required SIMs on page 566 of RFP as line item has been mentioned at sr no 5.35 of price bid.	1. NEC Corporation India Pvt. Ltd.



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			the network bandwidth requirement in our proposal.		
31.	4.4.10/194 (1)	Network Backbone Network Connectivity is one of the most important components of the project. All Police Stations and District Offices will be connected to Data Center for viewing and retrieval of stored video footage as and when require for evidence, based on their right. Using IP/MPLS connectivity from an Internet Service Provider with required redundancy and symmetrical bandwidth, the cameras will be connected to the system through a wired network. The video feeds from the cameras will be transported via secured IP / MPLS / Fiber Optic network to the respective Police Stations, District Offices, Data Center and Command & Control Center.	Our understanding is the VMS deployed in MCCV should also seamlessly integrate with the C4i / VMS provided for the project. Please confirm if all the specifications of the VMS outlined in section 4.8.2. must also be considered for MCCV too As per given clause, Internal & external network is being asked for connecting the entire system & sub-system deployed as part of this project in count to MSI responsibility, but there is no such line item for connectivity or bandwidth has mentioned in the Bill of Material or Commercial format. In that reference , request you to please clarify whether we are required to provision the network bandwidth requirement in our proposal.	As per RFP (Clarification: VMS deployed in MCCV should also seamlessly integrated with the ICCV / VMS provided for the project 4 SIM based 4G Aggregator Device with Dongles and required SIMs on page 566 of RFP as line item has been mentioned at sr no 5.35 of price bid.)	1. NEC Corporation India Pvt. Ltd.
32.	4.4.11 b ii/194 (2)	Network Layer: Last Mile Connectivity – OFC, 4G / 5G	5G is subject to Device compatibility and Service availability by operator (TSP). You are requested to kindly amend the clause accordingly.	As per RFP (Yes it is optional and as per requirement MSI can quote)	1. Presto 2. Presto Infosolutions Pvt. Ltd.



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33.	4.5/195 (3)	Implementation Approach-Essential & Planned approach by MSI: There will be four phases in our implementation approach. 06 Dist. needs to be completed in first phase within 09 months of awarding the contract / issuing the LOI; whereas it has been decided	Execution timeline mismatch for 2 districts under Pilot phase. You are requested to kindly amend the same. We request that for the situation where Go-Live cannot be achieved due to reasons beyond the reasonable control of the MSI, a Provisional Go-Live certificate is issued for the quantum of work completed thereby commencing the Warranty and O&M phase and making the MSI eligible to be paid for the work completed. Please consider since longer the delay in achieving Go-Live, higher may be the cost of capital to be considered for free O&M period and delay in payment Execution timeline mismatch for 2 districts under Pilot phase. You are requested to kindly amend the same.	As per RFP (The timeline for the PILOT will be 4.5 months from the contract signing.)	1. Presto 2. Sterlite Technologies Limited 3. Presto Infosolutions Pvt. Ltd.
34.	4.5 PILOT/195 (3)	Implementation Approach-Essential & Planned approach by MSI Two districts out of Phase I (in coordination among MSI and ISP) will be implemented on priority to ensure PILOT execution. The timeline for the PILOT will be 4.5 months from the contract signing.	We request you to extend the time period for Pilot deployment to minimum 6 Months.	As per RFP	1. Larsen & Toubro Ltd 2. Presto Infosolutions Pvt. Ltd. 3. Presto
35.	4.5 Phase 4/196 (3)	Implementation Approach-Essential & Planned approach by MSI Phase 4 Warranty and Operation and Maintenance Phase: The	Kindly clarify on warranty (5 years) duration. Start and end of warranty period during O&M timelines. As Project Scope includes the operation and maintenance services towards the implemented system for the period of 3	The bidder has to quote for 5 years of O&M (3 years O&M & 2 yrs Extended O&M) and 5 years of Warranty (3 yrs warranty + 2 yrs Extended warranty) of entire IT & non IT equipments from Go-LIVE	1. Honeywell 2. Larsen & Toubro Ltd 3. Honeywell Automation India Ltd.



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		bidder shall carry out the operation and maintenance services towards the implemented system for the period of 3 years. The Warranty (5	years. The Warranty (5 years) and the O & M (3 years) will run in parallel. However in the Price Schedule, O&M is asked for 4 years for Data Center Non IT Equipments. We understand that bidder has to quote for 3 years of O&M only against this item 6.54. Kindly confirm. Kindly clarify on warranty (5 years) duration. Start and end of warranty period during O&M timelines.		
36.	4.5.1 a/197 (6)	Initiation and Planning for each Phase Implementation	SOLUTION IMPLEMENTATION: Considering the large & complex environment for Delhi Safecity Project and to ensure EMS software's supplied have been deployed for its full expected potential & best usage, as per C-DAC requirement, It's highly recommended that solution proposed for has to be implemented by OEM's Professional Services directly. Bidder/ SI should ensure to do back to back tie-ups with OEM's not only for the supply of licenses however for the implementation & support services as well. The bidder should essentially do implementation planning with OEM & involve respective OEM to follow the Implementation methodology & best practices in domain. Kindly confirm if our understanding is correct. Software implementation should be allowed to installation over secured VPN access to enable speedy deployment by best resources from	As per RFP (Yes, MSI has to plan accordingly)	1. Madras Security Printers Pvt. Ltd 2. Micro Focus Software Solution India Private Limited (earlier Called as Hewlett Packard Software – HPE Software) 3. iValue InfoSolutions Pvt. Ltd. 4. PruTech Solutions India Pvt. Ltd. 5. Bodhtree



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			anywhere in India. Kindly confirm		
37.	4.5.1 a/197 (6)	The summary of MSI responsibilities is as follows: · Initiation and Planning for each Phase a. Define Project Implementation Plan as per phased approach. b. Conducting site survey, obtaining necessary permissions, developing system requirements, standard	It is recommended to have a close net OEM Governance Structure by deploying OEM Project Manager & Solution Architect, directly from respective OEM to guide the Bidder/ SI team on sustenance & O&M activities for the end to end RFP period.	As per RFP (MSI has to plan accordingly)	1. Madras Security Printers Pvt.Ltd 2. Micro Focus Software Solution India Private Limited (earlier Called as Hewlett Packard Software – HPE Software) 3. iValue InfoSolutions Pvt. Ltd. 4. PruTech Solutions India Pvt. Ltd. 5. iValue InfoSolutions Pvt. Ltd 6. Bodhtree
38.	4.5.1 a/197 (6)	The summary of MSI responsibilities is as follows: Implementation f. Installation of DC, Near DR IT Infrastructure k. Helpdesk setup, procurement of equipment, edge devices, COTS software (if any), licenses. Physical Security and Housekeeping setup	EMS solution implementation: Considering the large & complex environment for Delhi Safecity Project and to ensure EMS software's supplied have been deployed for its full expected potential & best usage, as per C-DAC requirement, It's highly recommended that solution proposed for has to be implemented by OEM's Professional Services directly. Bidder/ SI should ensure to do back to back tie-ups with OEM's not only for the supply of licenses however for the implementation & support services as well. The bidder should essentially do implementation planning with OEM &	As per RFP (MSI has to decide whether software can be deployed by OEM, but responsibility lies with MSI for all integration)	1. Madras Security Printers Pvt. Ltd 2. Micro Focus Software Solution India Private Limited (earlier Called as Hewlett Packard Software – HPE Software) 3. iValue InfoSolutions Pvt. Ltd. 4. PruTech Solutions India Pvt. Ltd.



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			involve respective OEM to follow the Implementation methodology & best practices in domain.		5. iValue InfoSolutions Pvt. Ltd 6. Bodhtree
39.	4.5.1 t/199 (2)	Prepare the Approach & Methodology document for Integration: Plan to Integrate Community Surveillance & Existing Cameras in other projects	Integration is subject to standard protocols only. If any customization or extended efforts then detailed study is required.	As per RFP (yes, It has to be followed)	1. Presto 2. Presto Infosolutions Pvt. Ltd.
40.	4.5.1 o/200 (2)	Implementation: Software Application customization (if any), development of bespoke solution (if any), data migration, integration with third party services/application (if any) User Manuals, training curriculum and training materials Role-based training(s)	1. Kindly specify the volume of data and type of data that need to be migrated? 2. There is no detail about third party services/application that need to be integrated. Kindly provide the detail of the same.	As per RFP (Refer RFP in detail)	1. Presto (1,2) 2. Presto Infosolutions Pvt. Ltd. (1,2)
41.	4.5.1 ff/201 (2)	201 of 656	We understand that MSI shall be responsible for Supporting and coordinating with the ISP in facilitating ROW/Digging and network extension and the Charges required for ROW shall be paid by the Authority directly to various Municipal and Development Offices. Request your confirmation for same. Request to please elaborate on roles and responsibilities of the authorities providing RoW and how many authorities will be involved? For providing ROW permissions, we understand and request that this shall	As per RFP(MSI shall be responsible for Supporting and coordinating with the ISP in facilitating ROW/Digging and network extension and the Charges required for ROW shall be paid by the MSI & ISP respectively accordingly to individual scope directly to various Municipal and Development Offices. However The bandwidth provisioning scope is with ISP ; MSI cable laying scope remains as : 1. The connectivity of Camera from JB Switch	1. Larsen & Toubro Ltd 2. HPE



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			be the responsibility of CDAC and Delhi police to get RoW from various Authorities. Pls confirm this point. Also, any delay due to ROW shall not be penalised as LD to MSI	2. Connectivity of Power Meter from Pole to JB)	
42.	4.5.1 ff/201 (2)	Responsibility towards ISP work handshake: Supporting and coordinating with the ISP in facilitating ROW/Digging and network extension.	All the activities pertaining to ISP work should be responsibility of the ISP as MSI has no role in this activity.	As per RFP (YES, C-DAC will supervise coordination with ISP and MSI, But ISP has to coordinate with MSI for integration part in the field, like connectivity up to junction box and IP address has to been given by ISP, MSI has to take care for pole, junction Box, switch, UPS, civil work and camera deployment at field location in coordination with ISP.)	1. Presto 2. Presto Infosolutions Pvt. Ltd.
43.	4.5.2 Deployment of adequate Key Personnel and support Staff by MSI/204 (1)	It is very crucial for MSI to deploy adequate required manpower for the time bound success of project implementation along with sufficient helpdesk, Technical Support, training and facility staff to bring efficient outcomes of the system operability.	It is observed that, minimum qualification for the proposed resources are not mentioned in the RFP. Please clarify	As per RFP (As per the Job Description and Scope; MSI will propose the skilled manpower; however the SLA & Implementation Timeline has been mentioned according to the scope.)	1. Mahindra Defence Systems Ltd.
44.	4.5.2 Operation Power charges/205 (1)	205 of 656	We understand that for Field Equipments, Only One time power connections (electrical meters) charges will be paid by MSI and the recurring power charges will be borne by the Delhi Police from Go-Live phase respective to each phase. One time power connections (electrical meters) charges and recurring charges (3 years) for C4i, C3i, C2i, DC & Near DR	As per RFP (Only One time power connections (electrical meters) charges will be paid by MSI and the recurring power charges will be borne by the Delhi Police from Go-Live phase respective to each phase. Till Go-Live of respective phase; MSI has to bear the Power Charges.)	2. Larsen & Toubro Ltd



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			shall be in scope of Delhi Police. Kindly confirm.		
45.	4.5.2 d/205 (3)	High Attrition causing adverse impacts to Project flow: d. If in the first 6 month period from the Contract Effective Date in case of replacement of the projected man power resourcing, a penalty of INR 2,00,000 for first fifteen days and INR 10,000 per day can be imposed on the Bidder (for one replacement) till appropriate and Approved replacement is done. Bidder shall:	1. Penalty charges are too high. Kindly reconsider the same. 2. Please amend the clause as follow: If in the first 6 month period from the Contract Effective Date in case of replacement of the projected man power resourcing, a penalty of INR 50,000 for first fifteen days and INR 3,000 per day can be imposed on the Bidder (for one replacement) till appropriate and approved replacement is done	Kindly refer corrigendum	1. Presto (1) 2. Presto Infosolutions Pvt. Ltd. (1) 3. Mahindra Defence Systems Ltd. (2)
46.	4.5.2 Operation Power charges/205 (2)	The DG gen set, UPS will be installed at Delhi Police Head Quarter at approved site and the operational expenses of fuel consumed by DG gen set till the time of acceptance will be borne by MSI.	Kindly clarify if diesel for Generator to be borne by MSI or Purchaser during Operations and Maintenance period. Kindly clarify if diesel for Generator to be borne by MSI or Purchaser during Operations and Maintenance period.	As per RFP (Diesel for Generator to be borne by Delhi Police during Operations and Maintenance period. However the expenses of Diesel/Power at installation phase till Go-Live of respective phases has to be borne by MSI)	1. Honeywell 2. Honeywell Automation India Ltd.
47.	4.6.1/207 (9)	207 of 656 ii. The Video wall will comprise of 70" DLP Laser 4K technology	4K Video Wall in DLP is Specific to ONE OEM Only Request you to Mention the Video wall will comprise of 70" Full HD DLP Laser Technology so that other OEM Can Qualify for fair tendering process & Wider Participation	The video wall Specifications are changed .Please check the respective clause.	1. Marushika Technology Advisors Pvt. Ltd. 2. EFKON India Pvt. Ltd 3. Larsen & Toubro Ltd 4. Barco Electronic Systems Pvt. Ltd.



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			We understand Viewing Operators and Supervisors shall not be provided by MSI as this is not listed in d. Operations & Maintenance (Page 206 of 656). Please confirm if understanding is correct.		5. Transline Technologies Pvt. Ltd. 6. Tech Mahindra 7. Sterlite Technologies Limited 8. INTEC INFONET PVT. LTD.
48.	4.6.1 iii/207 (2)	iii. 16 Workstations are also installed for viewing cameras sequentially at Video wall. Applications from Data Center like VMS client, GIS, ICCO client, video wall controller software, Edge gateway integration, Unified Platform etc. will be deployed on wo..	Please confirm the no. of inputs to be quoted in each controller is 16 nos. & that there are 3 controllers in total. Point no. 8 in controller specs on pg 305 mentions minimum 16 inputs of DP/HDMI supporting 4K-UHD resolution	As per RFP (One workstation will be having 3 outputs (VGA/ HDMI/ DVI) which will connect to 3 inputs of video wall controller. Accordingly, there will be 16 number of workstations; each controller will be connected to one video wall and each workstation and 4 th Controller is on stand by mode)	1. Delta Electronics India Pvt. Ltd 2. Telecommunications Consultants India Limited
49.	4.6.1 vi/207 (2)	vi. 04 Video Wall Controllers will be used, One Controller for 15 nos. 70" display units/modules.	Please clarify this point. 4x4 matrix is mentioned on pg 592 (BOQ) & 3 sets of video wall is asked	Yes 3 video wall with 16 each has asked. With 4x4 matrix and 4 th Controller is on stand by mode	1. Delta Electronics India Pvt. Ltd 2. Telecommunications Consultants India Limited
50.	4.6.3/210 (1)	Police Station location (C2i) -182 locations	1.Kindly share the latitude and longitude of all 182 No. of Police Station (C2i) locations.	C-DAC will share the data after NDA signing.	1. Sterlite Technologies Limited
51.	4.6.3 v/211 (6)	v. The Police station is monitoring old/existing CCTV's as well as new CCTV's and the future viewing shall be adequately provisioned in scalable and modular fashion.	Kindly explain how the monitoring of existing and new CCTVs will happen in the new system at each police station. Will it be through the Edge Gateway appliances?	Yes , As per RFP	1. Matrix Security & Surveillance Pvt Ltd 2. Videonetics Technologies Pvt Ltd. 3. PruTech Solutions India Pvt. Ltd.



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		Existing/Proposed project viewing will be available on need basis.			4. Tech Mahindra 5. Johnson Controls 6. Bodhtree
52.	4.7.2/214 (2)	Functional Architecture Framework for Delhi Safe City Project	"Figure: Essential Functional Components of Delhi Safe City Project" shows "Integration of 32 Databases", but it seems that there are 30 items only. What are the remaining 2 Databases?	Details of all the 32 databases will be shared with the selected MSI.	1. NEC Corporation India Pvt. Ltd.
53.	4.7.2/214 (2)	Functional Architecture Framework representing the Network Infra with "Public WiFi" whereas Complete project's feeds will travel over the private MPLS cloud.	This clause is contradictory with the essence of RFP. Please suggest.	Kindly Refer Corrigendum Clarification :Public Wifi is not required, ISP has to decide what is feasible.	1. Presto Infosolutions Pvt. Ltd. 2. presto
54.	4.8.1 i/215 (2)	The Integrated Command & Control Center (ICCC) will be an enterprise class IP enabled centralized application, will support the seamless unification of various Public Safety elements including Video Management System (VMS), Integrated Video Analytics System, Automatic Number Plate Recognition system (ANPR), Facial Detection & Recognition System (FRS), Picture Intelligence Unit, Incident management, Emergency Response System, Criminal tracking, Community Surveillance,	1. Can we request the platform to have web-based application support with GIS capabilities along with plotting of camera thumbnails on the GIS to enable police team to easily geo locate an alert popping up and immediately locate the 1st responders by drawing a polygon and automatically calculating distance between alert location and nearest police stations or 1st responders? The client -server architecture can cause single point of failure and web based application provides ease of access across geographies through secured connection. Also the Failover supported at OS/ Hypervisor layer and application	As per RFP (MSI are free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP.) CDAC cannot comment on the API's and integration methodology as it would vary from OEM to OEM. Bidder to work on comprehensive solution meeting the minimum requirements and specifications outlined in the RFP. C-DAC will give the API and SDK for integrations of Data sets.	1. Hitachi Vantara India Pvt Ltd 2. Hitachi Vantara



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		Record management and integration with other Govt. databases on a single platform. The ICCC user interface (UI) applications shall present a unified security interface for the management, configuration, monitoring, co-relation, intelligence and reporting of various embedded systems and associated edge devices.	layer to avoid single point of failure 2. IT is assumed that all these data sources will give API/SDK access as per the industry standard protocols and provide testing environment to develop and test these integrations. 3. Hitachi Vantara: To integrate with 32 Databases, would there be a study and development phase to understand these systems integration capabilities? If these 32 systems does not have API / Microservices protocols then their might be development effort required in 32 systems to enable integration capabilities.		
55.	4.8.1 ii/215 (1)	The ICCC platform must be a true unified management experience for critical infrastructure, simplifying control room operation and system integration, minimizing total cost of ownership, and increasing operational efficiency critical to rapid decision-making.	Can we request the ICCC platform uses web based client instead of thick client, as thick client uses workstation grade compute and additional licenses	As Per RFP (Bidder can propose web based client meeting the functional and technical requirements outlined in the RFP).	1. Hitachi Vantara India Pvt Ltd
56.	4.8.1 v/215 (1)	The ICCC platform will support various sensors like Cameras, GPS, Voice devices, Storage devices,	Additionally can we also request the dashboard combined with Map layers, which will expand when clicked on individual KPIs for ease of management	As per RFP (The requested change is already covered under the C4i specifications sub section C.)	1. Hitachi Vantara India Pvt Ltd



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		Sensor inputs from other Utility applications/ systems. The ICCC platform will provide a dashboard functionality to manage workflows by integrating information from different agencies and systems to facilitate responsive decision making in City.	and operations, and inherent GIS layers like ESRI, Google maps, etc. out of the box without additional licenses.		
57.	4.8.1 vi/215 (1)	The ICCC platform will provide a cross-agency collaboration tool to support instant communication between various user groups and authorities. It will facilitate an Intelligent Fusion Centre to conduct all Big Data Co-relation among various integrated datasets for interoperability.	Can we please request addition to this the platform has inbuilt Big data capabilities form the same OEM for seamless integrations along with Business Intelligence layer and Predictive analytics capabilities and drag and drop functionalities for data integrations and SOP, This will help the police personnel to easily operate system without the need of expert capabilities during distress.	As per RFP (The requested change is already covered under the C4i specifications sub section F.)	1. Hitachi Vantara India Pvt Ltd
58.	4.8.1 f/216 (1)	Integration with 32 datasets of existing application of different projects of Delhi Police	Is there a requirement to enable SSO (single sign on) to access these 32 systems from a common portal?	As per RFP (SSO is required to access overall system and these 32 databases are not accesible to users directly)	1. Hitachi Vantara India Pvt Ltd
59.	4.8.1 f/216 (1)	--	IT is assumed that all these data sources will give API/SDK access as per the industry standard protocols and provide testing environment to develop and test these integrations.	As per RFP (Yes, C-DAC will provide the required APIs for integration.)	1. Larsen & Toubro Ltd



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60.	4.8.1 A 1/218 (1)	The Unified Command & Control Platform (UC&C) shall be an enterprise class IP-enabled Cloud ready application	There is no mention of Cloud in the tender. What is meant by "Cloud Ready". Please explain the features desired in the Application which point to "Cloud Ready".	As per RFP (The proposed solution should be able to run in a VM environment)	1. Verint Situational Intelligence Solutions
61.	4.8.1 A 2/218 (2)	The platform must be Cloud ready from day 1 and must have the ability to host either in total or some of the modules in a private cloud environment approved by Meity.	Please share the details of the "Private Cloud" as there is no mention in the RFP. Who is the Bandwidth provider, Where will data be shared in case of private cloud? It is suggested to clarify since this particular clause refers to a particular OEM. Hence this cloud should be changed to an alternate data center for clarity. Requesting to remove "native failover with no dependency on external virtualized or clustered application" as this is an OEM restrictive clause, every OEM has different ways to support failover.	As per RFP(virtualization will provide Private cloud environment at Data centre)	1. Verint Situational Intelligence Solutions 2. Larsen & Toubro Ltd
62.	4.8.1 A 3/218 (10)	The platform must have native failover with no dependency on external virtualized or clustered applications. The failover must support both local & over geographical redundancy for all the modules outlined under the UC & C platform.	1. Additionally the platform must support OS / Hypervisor layer redundancy on geographical locations. Every component in the platform should have its own HA pair and can be easily deployed as a VM/ Container or Micro services for ease of installation and support during O&M phases 2. Every OEM has a different solution approach to provide the scalability, high availability using readily available options. Hence request you to modify to "The platform must have native or external supported failover or High	Kindly Refer Corrigendum	1. Hitachi Vantara India Pvt Ltd(1) 2. NEC Corporation India Pvt. Ltd.(2) 3. Quantela (4) 4. Qognify(3) 5. Marushika Technology Advisors Pvt. Ltd.(5) 6. IQuantela Technologies Pvt (4) 7. Transline Technologies Pvt. Ltd.(4)



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			Availability with/without dependency on external virtualized or clustered applications." 3. Request to remove the clause Clarification: Support for Native and off-the-shelf failover for hardware is usually not supported by UC&C 4. Requesting to remove "native failover with no dependency on external virtualized or clustered application" this is giving leverage to specific OEM, every OEM has different ways to support failover. 5. Requesting to remove "native failover with no dependency on external virtualized or clustered application" this is giving leverage to specific OEM, every OEM has different ways to support failover. Highly restrictive favoring single OEM. 6. This clause is proprietary to the same above OEM. Worldwide redundancy applications are virtualised from major OEM's like Vmware etc. Restricting the same to native or forcing the vendor to offer the redundancy solution from the same make will restrict participation of all VMS providers except one.		8. Larsen & Toubro Ltd(4) 9. INTEC INFONET PVT. LTD.(5) 10. Verint Situational Intelligence Solutions(6)
63.	4.8.1 A 7/218 (1)	UC&C shall be open architecture based, highly scalable and able to	Additionally can we also request the platform proposed should be able to integrate lighting, traffic, etc. data	As per RFP	1. Hitachi Vantara India Pvt Ltd



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		integrate multiple disparate systems seamlessly on a common platform	sources in the future, should there be a need to integrate such sources through easy drag and drop capabilities instead of extensive development needed. This will save a lot of time to the Police team to add any 3rd party data sources easily		
64.	4.8.1 A 8/218 (1)	UC&C system shall provide a real time Common Operating Picture (UC&C) of the area involving all agencies using a simple Operator / User friendly interface.	Additionally can we request the platform to have tools like creating geo polygon, KPI management, SOP, geo fencing to help the police locate the incident location immediately and take decisions to dispatch and SOP by automatically locating the nearest police stations, police on petrol or 1st responders? This will help in very fast decision making and real time incident management capabilities	As per RFP (MSI are free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP.)	1. Hitachi Vantara India Pvt Ltd
65.	4.8.1 A General/218 (1)	218 of 656	Kindly provide the number of Operator License Quantity for C4i Platform	Kindly refer SoR and BoQ	1. Larsen & Toubro Ltd
66.	4.8.1 A General Additional/219 (2)	The platform should have been implemented for Crisis management of pandemics	Request to add this capability: The platform should have been implemented for Crisis management of pandemics Request to add this capability: The platform should have been implemented for Crisis management of pandemics	As per RFP	1. IQuantela Technologies Pvt 2. Quantela
67.	4.8.1 A 12/219 (16)	The ICCC software should have biometric authentication facility for operators using the software	1. Please delete this Clause. 2. Please delete this Clause. Requesting to please remove this clause. This is specific and restricting the participation for fair competition.	Kindly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd. (2) 2. Sterlite Technologies Limited (3) 3. Johnson Controls



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			3. In order to ensure wider OEM participation, request you to remove this clause. This is a proprietary clause. Requesting to kindly remove this clause for maximum participation. 4. This is a proprietary clause and hence will restrict the competition. Please consider the removal of this clause for maximum participation. Please Modify it as: The ICCC software should integrate with AD / LDAP services for biometric authentication facility for operators using the software. 5. This is OEM specific. Instead can we request this to be : The ICCC should have secured login / Authentication capabilities like SSO/ LDAP etc. and will be workstation specific that supports biometric capabilities 6. Request to modify the clause as below: The ICCC software should have two-factor authentication facility for operators using the software. Clarification: Biometric authentication for software platform is not usual requirement.		4. Techspire Services Pvt. Ltd. (1) 5. NEC Corporation India Pvt. Ltd. (7) 6. IQuantela Technologies Pvt (6) 7. HFCL Limited Hexagon (4) 8. SCS TECH INDIA PVT. LTD.(4) 9. Transline Technologies Pvt. Ltd. (1) 10. Hitachi Vantara India Pvt Ltd(5) 11. Quantela(6) 12. Larsen & Toubro Ltd (6) 13. INTEC INFONET PVT. LTD. (2) 14. Samsung SDS India Pvt Ltd. (4) 15. Online Micro Services Private Limited (1)



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			Two-factor authentication is reasonable. 7. Please define biometric authentication. Can bidder go with fingerprint based authentication? 8. Please define biometric authentication. Can bidder go with fingerprint based authentication?		
68.	4.8.1 B 2/219 (4)	The Application shall protect against potential database server failure and continue to run through standard off-the-shelf solutions.	1. Request to modify the clause as below: The Application shall protect against potential database server failure and continue to run. Clarification: In case of failure, solution cannot run with any other standard off-the-shelf solutions 2. As database is separate component and have own configuration to support High Availability and UC&C Application will not have control to protect database server failure. This will be handled by Implementation approach and methodology. Hence request you to remove this from UC&C specification. 3. ICCC application will run on of its own database. But if the DC database is on failure, it should connect to DR database as per policy. ICCC application will run on its own database but not dependent on external integrations. Potential database	As per RFP (Clarification: It is responsibility of OEM to maintain the databases in high availability mode. Databases independent of ICCC will be taken care by respective MSI/Service Provider)	1. IQuantela Technologies Pvt (1) 2. Quantela (1) 3. NEC Corporation India Pvt. Ltd. (2) 4. Larsen & Toubro Ltd(1)



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			server failure should be handled by DR connection.		
69.	4.8.1 B 3/219 (7)	The Application shall support up to one thousand instances of Clients connected at the same time. However, an unrestricted number of Clients can be installed at any time	1. The number of connections does impact overall performance of the system. This is very much dependent on the scope of the specific system deployed, so request to change the support up to 200 instances of clients connected at the same time. 2. The ICCC should show number of client connection in the UI. If there are 1000 users connected and all of them accessing the multiple videos, it can choke the bandwidth. 3. Generally ICCC should be access via web browser and should be client based as client based application will have software installation requirements and can be licensed. Web based application can be accessed by anyone through secured URL connection	As per RFP	1. Marushika Technology Advisors Pvt. Ltd. (1) 2. Hitachi Vantara India Pvt Ltd (2,3) 3. Larsen & Toubro Ltd (1,2,3) 4. Transline Technologies Pvt. Ltd. (1) 5. VMS and ICCC (1) 6. INTEC INFONET PVT. LTD. (1)
4.	4.8.1 B 4/219 (1)	The Application shall support an unrestricted number of logs and historical transactions (events and alarms) with the maximum allowed being limited by the amount of hard disk space available.	The system shall indicate when the disk utilisation is above 80% , so that the operators knows that the logs are using the space and can take actions to save them for evidence purposes on a different media. To add additional security layer can we request logs with chain of custody that will be accessed by admin to verify and filter illegal access to the logs to delete entries?	As per RFP (The requested change is already covered under the C4i specifications sub section K of the RFP. MSI are free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP.)	1. Hitachi Vantara India Pvt Ltd
70.	4.8.1 B 5/219 (3)	The UC&C Application shall support native and off-the-shelf failover options	Request to modify the clause as below: The UC&C Application shall support failover at Application level.	As per RFP.	1. IQuantela Technologies Pvt 2. Quantela



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		without any dependency on external application for both Hardware and Application level fail over.	Clarification: Support for Native and off-the-shelf failover for hardware is usually not supported by UC&C		3. Larsen & Toubro Ltd
71.	4.8.1 B 5/219 (1)	The UC&C platform should provide a cross-agency collaboration tool to support instant communication between various user groups and authorities	Can we request the Platform should have min 4-5 collaboration tools like SMS, Call, Digital display, social media whatsapp to communicate 1 to many communications during incidents in the city like riots, floods, or criminal activities that can help the operators to communicate to multiple stake holders at one go through configurable SOPs using GUI	As per RFP	1. Hitachi Vantara India Pvt Ltd
72.	4.8.1 C 1/219 (5)	The GIS MAP shall support the following file format PDF, JPG, PNG Web Map Service (WMS) defined by the Open Geospatial Consortium (OGC).	1. It would be recommended to remove PDF as it can be converted into supported format and replace PDF with other format like ESRI ArcGIS REST Services, MPK (Map Package), TPK (Tiled Map Package), TIFF, WMTS, and Open Street Map. 2. The PDF file will be a big challenge that will not be practically possible for the desired support as the images or scanned formats used in PDFs will not be compatible to the system. It is submitted that PDF support should not be included. 3. Kindly clarify if PDF, JPG and PNG support is for exporting map.	Kindly Refer Corrigendum.	1. Marushika Technology Advisors Pvt. Ltd. (1,2) 2. Esri India Technologies Private Limited (3) 3. Transline Technologies Pvt. Ltd. (1) 4. VMS and ICC (1) 5. INTEC INFONET PVT. LTD.(1,2)
73.	4.8.1 C 10/219 (2)	The GIS MAP shall provide the following search capabilities:	Search capabilities for Map should have capabilities to search, based on:- Sorting and grouping results.	As per RFP	1. Esri India Technologies Private Limited



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			Map-based spatial search. Text-based spatial search. Map scale and spatial search. Multi-layer search b/w multiple GIS Layers		2. Prakhar Software Solutions
74.	4.8.1/220 (1)	Authentication facility for operators using the software.	Understand from this specs that C4I has the ability to select a location on a map and call up any cameras whose field of view (as configured by an admin) intersects the location selected. PTZ presets may be automatically initiated based on rules tied to events in the system. Additionally, markers (icons) may be placed on locations on the map, and these can be defined to activate an action to move a PTZ to an assigned preset when they are clicked. Please elaborate if our understanding is wrong.	As per RFP	1. Marushika Technology Advisors Pvt. Ltd.
75.	4.8.1/220 (2)	The UC&C platform must be able to establish two way communication with Field Officer mobile application	Request to add this capability: The UC&C platform must be able to establish two way communication with Field Officer mobile application Clarification: This is usual requirement to ensure right collaboration between command centre and the field resources.	As per RFP	1. IQuantela Technologies Pvt 2. Quantela
76.	4.8.1 C 12/220 (3)	Drag and drop entities from the UC&C to the map to centre their location.	1. Clarification Sought: Kindly list out the entities. 2. Request to remove the clause 3. Clarification: Too specific navigation detail	As per RFP	1. IQuantela Technologies Pvt (1) 2. Quantela (2.3) 3. Larsen & Toubro Ltd (2)



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77.	4.8.1 C 13/220 (2)	Map to support event-based response actions for decision making in case of any emergency critical situation	GIS Engine in consideration should support multiple input and output connectors to provide alerts using GIS Model mechanism to ensure this can be achieved through configuration rather than need to develop multiple connectors	As per RFP (MSI is free to propose better solution)	1. Esri India Technologies Private Limited 2. Prakhar Software Solutions
78.	4.8.1 C 7/220 (13)	The GIS MAP shall offer a smart selection tool to access the video. By clicking the location, the user wants to see, the GIS MAP will automatically select the cameras that can see this location and move the PTZ towards that location. This smart selection tool shall take obstacles into consideration and not display cameras that cannot see the location because of a wall.	1. The requirement holds true for a closed area surveillance and not for a large project like Delhi City. Moreover, the clause is specific to an OEM. We request you to kindly delete the clause. 2. Request to modify the clause as below: The GIS MAP shall offer a smart selection tool to access the video. By clicking the Camera icon, the user wants to see, the GIS MAP will automatically Pop-up live thumbnail video stream and activate the PTZ controls to move towards that location. This smart selection tool shall take obstacles into consideration and not display cameras that cannot see the location because of a wall. 3. Understand from this specs that C4I has the ability to select a location on a map and call up any cameras whose field of view (as configured by an admin) intersects the location selected. PTZ presets may be automatically initiated	As per RFP (GUI interface, cotomization and configuration will be implemented as per SoPs and rule engine defined by end user.)	1. Matrix Security & Surveillance Pvt Ltd (1,3) 2. IQuantela Technologies Pvt (2) 3. Transline Technologies Pvt. Ltd. (3) 4. Hitachi Vantara India Pvt Ltd (4) 5. Quantela (6,3) 6. Videonetics Technologies Pvt Ltd. (1) 7. PruTech Solutions India Pvt. Ltd.(1) 8. Tech Mahindra (1) 9. VMS and ICC (3) 10. Larsen & Toubro Ltd (6) 11. INTEC INFONET PVT. LTD. (3) 12. Bodhtree (1)



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			based on rules tied to events in the system. Additionally, markers (icons) may be placed on locations on the map, and these can be defined to activate an action to move a PTZ to an assigned preset when they are clicked. Please elaborate if our understanding is wrong. 4. Additionally can we also request the platform to have automated capabilities to slew the PTZ cameras that are in the vicinity in particular direction to help easily track the incident and create synched video's on the map to help navigate incidents very faster 5. The ICCC should have 1 to many collaboration tools part of the system (Mins 5 sources of communication like SMS, Call, Group Call, WhatsApp, Social media, Digital displays etc.) which are fully configurable from the GUI of the platform. This will give true powerful real time incident management capabilities to operator to get support / help from multiple channels and play important role in the women safety 6. Request to remove the clause Clarification: This is not possible unless the video management		



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			system OEM can provide the view or tampering alerts in such case - This smart selection tool shall take obstacles into consideration and not display cameras that cannot see the location because of a wall.		
79.	4.8.1 C 8/220 (2)	It shall be possible to select a location by drawing a zone of interest on the GIS MAP, and to display all the entities that are part of that zone of interest at once	Additionally can we request the map to have features to draw a polygon and visualise all city assets with in the polygon like nearest police stations, schools, women hostes, police patrolling , along with on demand ability to locate the distance from the point of interest and least possible arrival time. This will help the operators / Police to locate, track and take decision on incidents with minimal steps Additionally can we request, the the ability in the ICCC to send an URL along with SMS / WhatApps messages to acknowledge by the Police personnel or 1st responder and this acknowledgement is shown in ICCC as the person who had acknowledged the incident and is responding. If the mobile app notification or SMS doesn't acknowledge then escalate automatically depending on the criticality of the event to next level like nearest police stations, inspectors, commissioners etc. The system should support all these configuration with in the UI without the need for complex development	As per RFP (The facility of spatial search and geofencing must be available all the cameras , alarms in the areas will automatically come up on the map for quick investigations)	1. Hitachi Vantara India Pvt Ltd



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80.	4.8.1 D 11/220 (7)	The ability to create alarm-related instructions shall be supported through the display of one or more HTML pages following an alarm event. The HTML pages shall be user-defined and can be interlinked.	1. Request to modify the clause as below: The ability to create alarm-related instructions shall be supported through the display of an alarm event. 2. As the ICCC system is a fully integrated system, creating multiple HTML pages will create a lot of overhead and confusions to the operator. The instructions, audit info, collaboration configurations should all support on single HTML page as requested in earlier specs of creating consistent user experiences. IF entire configuration happens on single tab or single page then its very easy to operate and correlate. HTML is anyways a old technology and security prone 3. Additionally, C4I can support HTML pages as needed for Incident and Task forms. 4. Alarm related instructions can be handled dynamically using Content Management System. We don't need to build new HTML to display various instructions. Based on rules / policies with Content Management System dynamics can be handled. No need of new HTML.	Kindly Refer Corrigendum	1. IQuantela Technologies Pvt (1) 2. Hitachi Vantara India Pvt Ltd (2) 3. Quantela (1) 4. Larsen & Toubro Ltd (1) 5. Transline Technologies Pvt. Ltd. (3) 6. VMS and ICCC (3) 7. Marushika Technology Advisors Pvt. Ltd. (3) 8. INTEC INFONET(4)



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			5. We recommend to have additionally launching from control room client application in context to an incident, instructing the operator(s) on the steps needed to address the situation. Additionally, C4I can support HTML pages as needed for Incident and Task forms.		
81.	4.8.1 D 3/220 (1)	Assign a time schedule or a coverage period to an alarm. An alarm shall be triggered only if it is a valid alarm for the current period.	Please advise how will the system decide if it's a valid alarm, will this not create situations like missing an important alarm due to the rules set for valid alarms? Can we request this to be added with book marking capabilities for easier search and filter capabilities to show alarms show during that configured time period	As per RFP	1. Hitachi Vantara India Pvt Ltd
82.	4.8.1 D 5/220 (8)	Define whether to display live or recorded video, still frames or a mix once the alarm is triggered.	1. Request to remove the clause Clarification: Too specific detail Clarification Sought: live or recorded video, still frames or a mix are defined Use-Case based for example ANPR- snapshot, Intrusion-recorded video, accident-Live video. Request to remove the clause 2. Kindly amend the clause to "Define whether to display live or recorded video, still frames / create snapshot or a mix once the alarm is triggered". This will allow the operator to review the video and select the appropriate frame to	Kidly Refer Corrigendum	1. Quantela (1) 2. IQuantela Technologies Pvt (1) 3. Larsen & Toubro Ltd (2,1) 4. Transline Technologies Pvt. Ltd. (3) 5. VMS and ICC (3) 6. Larsen & Toubro Ltd(2,1) 7. INTEC INFONET PVT. LTD. (3) 8. Marushika Technology Advisors Pvt. Ltd. (3)



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			show the content which is in context to the incident. 3. We recommend changing this requirement to remove "still frame" for display, and replace it with the ability for the operator to create a snapshot (or still frame) from the live or recorded video displayed. This will allow the operator to review the video and select the appropriate frame to show the content which is in context to the incident. Still frames can only be created by the operator from the video stream. Henceforth, it may be considered for 'created still frames'.		
83.	4.8.1 D 6/220 (7)	Provide the ability to display live and recorded video within the same video tile using picture-in-picture (PiP) mode.	1. Live and recorded video comes from VMS and the underlying VMS SDK should support fetching the recorded video from ICC. Can we additionally request to make the system more robust, the ICC automatically pulls 20 second + and 20 seconds - video of the incident and shows them with the alerts using a URL or a thumbnail? 2. It seems OEM specific functionality. As per user requirement, operator should understand current situation (through live video) and incident time situation (through pre-post recorded video). Hence request you to modify clause to	Kindly Refer Corrigendum	1. Hitachi Vantara India Pvt Ltd (1) 2. NEC Corporation India Pvt. Ltd. (2) 3. Transline Technologies Pvt. Ltd. (3) 4. VMS and ICC (3) 5. Larsen & Toubro Ltd(3) 6. INTEC INFONET PVT. LTD. (3) 7. Marushika Technology Advisors Pvt. Ltd. (3)



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			"Provide the ability to display live and recorded video within the same video tile using picture-in-picture (PiP) mode or display live and recorded video in different video tile side by." 3. Use cases can be define based on the display live and recorded video in video panes, so requesting to remove "video tile using PIP mode".		
84.	4.8.1 D 16/221 (1)	ICCP platform should support to deliver message to a set of subscribers. The Notification service should support min two types of notification methods: a. Email notification b. Short Messaging Service (SMS) notification	Can we please request it to have min 5 notification options without any charges for additional licensing or additional integrations needed with drag and drop kind of GUI based configurations that will help operator immensely to drive suitable workflow.	As per RFP (MSI are free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP.)	1. Hitachi Vantara India Pvt Ltd
85.	4.8.1 E 3/221 (2)	The IM MODULE shall be seamlessly compatible with the UC&C and any of its components including VMS, ALPR, Big Data Co relation tool and external SDK integrations with 3rd party systems	C&C application should be agnostic to any sub-system. Key Sub-systems like VMS should definitely not be an integral part of C&C application to achieve open architecture. Kindly consider C2, VMS, ALPR etc. from different OEMs.	Kindly Refer Corrigendum	1. BHARAT ELECTRONICS LIMITED 2. Johnson Controls
86.	4.8.1 E 4/221 (7)	The IM MODULE shall offer the following native operational tools: a. Incident management b. Document management c. Rules Engine	1. Need more info on what is required for Document management. UC&C does support attachments to Incidents, but more info is needed to determine if this meets this requirement.	Kindly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd. (1) 2. Hitachi Vantara India Pvt Ltd (2)



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		d. Workflow automation e. Standard operating procedures f. Incident monitoring operator interface g. Incident reports	Document Management system as a native feature is restrictive. A DMS can be integrated with UC&C which can serve the objective. Requesting to keep Document Management System as one desired activity rather than native file system of C4i. 2. This will need to create SOP and run, but during emergency situations testing and then taking actual actions will delay the response and can cause irrecoverable damage in certain situations. Hence request this clause be deleted. 3. Is Delhi Police looking for a comprehensive Document management system at the backend which would be storing all the documents/files generated in proper indexed format? Is Delhi Police also looking out for a proven workflow management system, which is highly configurable, flexible in terms of making changes in the existing workflows, adding new workflows, changing routing rules, introducing new business rules, handling and managing exceptions as a pro exception handler etc.? So our recommendation basis past experiences is that the department		3. Newgen Software Technologies(3) 4. Transline Technologies Pvt. Ltd. (1) 5. VMS and ICC (1) 6. INTEC INFONET PVT. LTD. (1)



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			needs COTS based Business Process Management (BPM) platform, having the capabilities of graphically modelling the processes or workflows, in built Form designer, Business Rules Management system, configurable Business Activity Monitoring tool (Dashboards) and integrated Document Management System for storing documents. Our suggestion would be that Workflow platform should conform to industry benchmarks, such as BPMN, BPEL and WFMC. Please confirm."		
87.	4.8.1 E 4 b/221 (4)	Document management	1. Request to remove the clause from UC&C platform capability Clarification: Document Management is not usually part of IM Module 2. Request to modify the clause as below: Document Management/Content Management system. And also we request you to incorporate that the OEM for Management Document System is present in the Analyst magic quadrants for Gartner/Forrester reports in the last 3 years for maintaining highest quality standards for Document management system.	Kindly Refer Corrigendum	1. Larsen & Toubro Ltd (1) 2. IQuantela Technologies Pvt (1,2) 3. Newgen Software Technologies (2) 4. Quantela (1)



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88.	4.8.1 E 4 b/221 (1)	General Queries: User Count for Document Management System & Workflow management system	Request Delhi Police to please provide the clarity about the following. This is required to size the hardware and infrastructure. 1. Total user volume of DMS & workflow (users accessing the proposed DMS & workflow system) 2. Concurrent user volume	As per RFP (Kindly refer SoR and BoQ for clarification)	1. Newgen Software Technologies
89.	4.8.1 E 11/222 (3)	3. Incident category. Incident category shall allow an operator to organize incident types in a logical tree	1. Clarification Sought: Request you to provide the clarification Incident type do it refers to severity or Domain based. 2. Request to remove the clause Clarification: Too specific navigation detail Request to remove the clause	As per RFP (Functional requirement is clearly defined.)	1. IQuantela Technologies Pvt (1) 2. Quantela (2) 3. Larsen & Toubro Ltd (2)
90.	4.8.1 E 11/222 (1)	An incident shall be the holistic description of the situation and support the following attributes: a. Visual: • Colour • Icon. b. Incident management shall provide the ability to customize incident types using a set of imported icons. c. Sound d. Incident category. Incident category shall allow an operator to organize incident types in a logical tree	OEM Specific, can we request to rearrange the clause to IM should support creating incidents using color, Icon, sound and ability to create an SOP on the incidents?	As per RFP (Functional requirement is clearly defined.)	1. Hitachi Vantara India Pvt Ltd



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		e. The location can be an entity (camera, door, zone, area) or a geographical coordinate. f. A priority level g. A description h. States i. Standard operating procedures. j. History of activities. k. Attach Entities. Entities related to the source of events triggering the incident shall be automatically associated to the incident. l. Attached documents. Documents and URLs providing more information or guidance on the incident and its management.			
91.	4.8.1 E 12/222 (3)	The Incident management shall provide management of incident ownership. It shall be possible to explicitly request or release the ownership of an incident. Ownership of an incident shall be provided immediately to an operator who starts working on an incident.	Request to modify the clause as below: The Incident management shall provide management of incident ownership. It shall be possible to explicitly assign or dismiss an incident. Ownership of an incident shall be provided immediately to an operator who starts working on an incident. Request to modify the clause as below: The Incident management shall provide management of incident ownership. It shall be possible to explicitly assign or dismiss an	As per RFP	1. IQuantela Technologies Pvt 2. Larsen & Toubro Ltd 3. Hitachi Vantara India Pvt Ltd



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			incident. Ownership of an incident shall be provided immediately to an operator who starts working on an incident. Can we request this to change to the incidents are assigned to a users through RBAC and ownership can be configured through GUI from the system admin or incident is auto assigned to an operator with privileges depending on the geolocation?		
92.	4.8.1 E 13/222 (3)	A supervisor shall be able to view all incidents that are under his supervision and see the ownership of each incident. In the same view, the supervisor shall also be provided with real-time information about who is currently monitoring an incident.	Request to modify the clause as below: A supervisor mobile app shall be able to view all incidents that are under his supervision and see the ownership of each incident. In the same view, the supervisor shall also be provided with real-time information about who is currently monitoring an incident. Request to remove the clause - Too specific navigation detail Request to remove the clause Clarification - Too specific navigation detail.	As per RFP	1. IQuantela Technologies Pvt 2. Quantela 3. Larsen & Toubro Ltd
93.	4.8.1 E 14/222 (3)	The IM MODULE shall notify the supervisor when an operator skips a step in the standard operating procedure (SOP).	1. Instead of informing a supervisor, if the Operator is notified , the error can be corrected immediately and minimises time to respond and decision making 2. Request to remove the clause -Too specific navigation detail	As per RFP	1. Hitachi Vantara India Pvt Ltd (1) 2. Quantela (2) 3. Larsen & Toubro Ltd(1)
94.	4.8.1 E 23/222 (1)	The Incident management shall provide management of incident ownership. It	Request to modify the clause as below: The Incident management shall provide management of incident	As per RFP	1. Quantela



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
		shall be possible to explicitly request or release the ownership of an incident. Ownership of an incident shall be provided immediately to an operator who starts working on an incident.	ownership. It shall be possible to explicitly assign or dismiss an incident. Ownership of an incident shall be provided immediately to an operator who starts working on an incident.		
95.	4.8.1 E 16/223 (1)	16. Operators shall be able to perform the following actions: 1. Change the incident state. 2. Forward the incident. 3. Transfer the incident.	Please clarify the difference between Forward and Transfer the incident.	As per RFP (Clarification: Tranfer means change of ownership while forward means ownership remains with the operator.)	1. NEC Corporation India Pvt. Ltd.
96.	4.8.1 E 16/223 (2)	2. Forward the incident.	Request to remove the clause -Too specific navigation detail	As per RFP	1. Larsen & Toubro Ltd 2. Quantela
97.	4.8.1 E 16/223 (2)	6. Link related incidents.	Request to remove the clause -Too specific navigation detail	As per RFP	1. Larsen & Toubro Ltd 2. Quantela
98.	4.8.1 E 17/223 (2)	The IM MODULE shall provide the ability to dispatch an incident to a user or group of users. Dispatching an incident to a restricted number of users will secure the access to information	1. ICCC is a very powerful systems and it should not limit the incidents to be sent to restricted number of users, It should give ability to an operator to choose any numbers of users depending on the criticality of the system to get full advantage of connected systems like ICCC.	As per RFP	1. Larsen & Toubro Ltd 2. Hitachi Vantara India Pvt Ltd
99.	4.8.1 E 21/223 (1)	It shall be possible to query the incident history filtering by: a. Incident type b. Incident state c. Location d. Priority	The system should not limit the user to search filters, IT should any combination of available data to search incidents easily instead of limiting the search to only 7 parameters. Can we please request this to be changed?	Kindly Refer Corrigendum	1. Hitachi Vantara India Pvt Ltd



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		e. Trigger time range f. Incident owner d. Description			
100.	4.8.1 E 22/223 (1)	The result of a report query shall provide a list of incidents as well as a visual of these incident locations on the map. When more than one incident is reported at the location, the GUI will cluster these incidents on the map	ICCC being a powerfully integrated system shouldn't limit the user in terms of query and should be robust enough to create any combination of reports.	As per RFP (MSI are free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP.)	1. Hitachi Vantara India Pvt Ltd
101.	4.8.1 E 23/223 (9)	For closed incidents, the incident shall be in read-only mode with the exception of adding links to related incidents.	1. We recommend to change this requirement as "For closed incidents, the incident shall be in read-only mode with the exception of adding links to related closed incidents". 2. Request to modify the clause as below: For closed incidents, the incident shall be in read-only mode It is requested to consider 'related closed incident's' only. 3. Can we request this to be changed to adding any relevant data that can be used as evidence through pictures, URL, video, or any data that can be used as evidence for the incident? The system shouldn't limit adding only URL link as for various reasons the links doesn't work, will hinder the operations and causes delay in decision	1. As per RFP (For closed incidents, the incident shall be in read-only mode with the exception of adding links to related closed incidents which gets matured and expansive with machine learning.) 2. As per RFP (Suggested change is already covered in C4i specifications under section G. Bidders are free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP.) 3. As per RFP	1. Transline Technologies Pvt. Ltd. (1) 2. VMS and ICCC (1) 3. Quantela (2) 4. Larsen & Toubro Ltd (2,1) 5. INTEC INFONET PVT. LTD.(1) 6. Marushika Technology Advisors Pvt. Ltd. (1) 7. IQuantela Technologies Pvt (2) 8. Hitachi Vantara India Pvt Ltd (3) 9. Larsen & Toubro Ltd (2,1)



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			making. The system should securely allow the user to upload valid evidential data for a closed incident which can be part of crime		
102.	4.8.1 E 28/223 (2)	A document shall be automatically attached to an incident if the document properties match the incident properties. The following properties shall be available: a. Incident type b. Schedule c. Location. Location can be an entity or an area. d. User or user group of the operator monitoring the incident.	Request to remove the clause from UC&C platform capability Clarification: Document Management is not usually part of IM Module	As per RFP	1. Quantela 2. Larsen & Toubro Ltd
103.	4.8.1 Reporting Additional/224 (1)	--	Request to add this capability g. Analytics to be able to create site suitability analytics and urban indicator analytics	As Per RFP	1. Quantela
104.	4.8.1 C Native Map module Additional/219 (2)		Request to add this capability g. Map: Add map as a widget with standard capabilities including multiple layers, showing dynamic sensors on maps, heat maps and zooming.	As Per RFP	1. Quantela 2. IQuantela Technologies Pvt
105.	4.8.1 Real Time Dashboard Additional/224 (2)		Request to add this capability The dashboard must be exportable from one account to another	As Per RFP	1. Quantela 2. IQuantela Technologies Pvt
106.	4.8.1 Real Time Dashboard		Request to add this capability	As Per RFP	1. Quantela



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	Additional/224 (2)		The dashboard must be shareable as public URL		2. IQuantela Technologies Pvt
107.	4.8.1 A General Additional/224 (2)		Request to add this capability The UC&C platform must have in-built content management system through which content to the mobile applications can be dynamically created.	As Per RFP	1. Quantela 2. IQuantela Technologies Pvt
108.	4.8.1 A General Additional/224 (2)		Request to add this capability UC&C Platform shall have inbuilt Video Analytics capability	As Per RFP	1. Quantela 2. IQuantela Technologies Pvt
109.	4.8.1 E 26/224 (6)	The IM MODULE shall support the following report formats: a.HTML b.PDF c.XML d. Custom format	1. In addition to HTML and PDF, request to add more supported format i.e. MHT, RTF, XLS, XLSX, CSV, Text, and Image (BPM, GIF, JPEG, PNG, TIFF, EMF, WMF) formats. 2. Please define 'Custom' format as various general formats used by operators are already mentioned except xls & csv. Can we request not to put limits on the formats, it can be excel, CSV, word etc. as exports. What if there are huge data and exporting as excel might help the data to be searched easily.	Kindly Refer Corrigendum	1. Transline Technologies Pvt. Ltd. (1) 2. VMS and ICCV (1) 3. INTEC INFONET PVT. LTD. (1) 4. NEC Corporation India Pvt. Ltd. (2) 5. Hitachi Vantara India Pvt Ltd (2) 6. Marushika Technology Advisors Pvt. Ltd. (1)
110.	4.8.1 E 27/224 (4)	27. The IM must have native document management tool and UC&C platform shall provide the ability to dynamically index documents to an incident in order to improve the	1. As per our understanding from the RFP, is it that Delhi Police requires an integrated and natively available workflow platform along with DMS tool? Our recommendation would be that all the three scanning, DMS and workflow solution should be	As per RFP (The specification is outlined with minimum requirement, bidder to choose the appropriate system to meet the functional requirement of the solution proposed.)	1. Newgen Software Technologies (1) 2. NEC Corporation India Pvt. Ltd. (2) 3. Larsen & Toubro Ltd (3)



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		efficiency of access to information for an operator.	from same OEM so as to provide an integrated solution right from capture to archival of documents to automating response of incidents logged in. Is our understanding correct? 2. Please elaborate on 'Document Management Tool'. We assume that the documents attached as part of Incident Management and SOP, should be produced in sequential order. Please confirm our understanding. 3. Request to remove the clause from UC&C platform capability Clarification: Document Management is not usually part of IM Module 4. Request to remove the clause from UC&C platform capability Clarification: Document Management is not usually part of IM Module		4. IQuantela Technologies Pvt (3)
111.	4.8.1 E 28/224 (2)	A document shall be automatically attached to an incident if the document properties match the incident properties. The following properties shall be available: a. Incident type b. Schedule	This will become a flaw in the system as the sensors, cameras etc. are geolocated and cannot have an accuracy of millimeters. What if same location has multiple incident and monitored by multiple operators across geographies. The ability to add evidences (not only limited to documents), it can be body worn cameras, USBs, CD drives, or mobile	As per RFP (The incident properties mentioned are minimum requirements. The specification outlined is to link any related incidents which might be relevant to the specific alarm qualified in to an incident and further investigated, such related incident linking must act as an reference point for the operator wherever needed with historical data on how a similar incident was handled and	1. Hitachi Vantara India Pvt Ltd 2. IQuantela Technologies Pvt



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		c. Location. Location can be an entity or an area. d. User or use	apps data to add evidences of incidents and operator to decide which case it goes to as a wrong placement of document or record can cause catastrophic issues in handling an incident or a case or an FIR Request to remove the clause from UC&C platform capability Clarification: Document Management is not usually part of IM Module	managed. The specification specified is to achieve the above mentioned use case.)	
112.	4.8.1 E 30/224 (8)	Document Management shall provide a file system to store all documents as well as the document URLs for the use of third-party file systems.	- The document or evidence management should not limit the 3rd party file systems, it should have inherent capabilities to add any type of data, documents, videos, pictures, snapshots etc. in a secured manner with chain of custody to prevent unauthorised access of this data and comes with tight integration with ICCC to geolocate the incident easily and search using many parameters or combination of parameters. - Request to remove the clause from UC&C platform capability Clarification: Document Management is not usually part of IM Module - UC&C makes use of standard Microsoft Windows supported file systems (i.e. file sharing, SharePoint, OneDrive, etc). It does not have it's own native file system.	As per RFP (The specification is outlined with minimum requirement, bidder to choose the appropriate system to meet the functional requirement of the solution proposed.)	- Hitachi Vantara India Pvt Ltd (1) - Quantela (2) - Larsen & Toubro Ltd (2) - Marushika Technology Advisors Pvt. Ltd. (3,4) - IQuantela Technologies Pvt (2) - INTEC INFONET PVT. LTD. (3,4) - Transline Technologies Pvt. Ltd. (3) - VMS and ICCC (3)



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			If the customer is seeking a separate document management platform, it may be possible to integrate that with UC&C. However, more discovery would be required to verify use cases and requirements. 4. Document Management system as a native feature is restrictive. A DMS can be integrated with UC&C which can serve the objective. Requesting to keep Document Management Sysyem as one desired activity rather than a native file system of C4i.		
113.	4.8.1 E 30/224 (2)	The IM must have native document management tool and UC&C platform shall provide the ability to dynamically index documents to an incident in order to improve the efficiency of access to information for an operator.	The IM module should have inbuilt Digital Evidence Management capabilities with RBAC and chain of custody to securely upload, and transfer incident data and securely retrieve it to be produced in court of law with algorithms that doesn't allow the incident documents to be tampered. The application should give ability to the operator to add details to the cases, incidents, FIRs securely and give access to operators to add them through any means. This can create a robust ICCC system that can be used for keeping all evidences securely not limiting to documents alone Request to remove the clause from UC&C platform capability	As per RFP (The specification is outlined with minimum requirement, bidder to choose the appropriate system to meet the functional requirement of the solution proposed.)	1. Hitachi Vantara India Pvt Ltd 2. Quantela



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			Clarification: Document Management is not usually part of IM Module		
114.	4.8.1 E 32/224 (2)	Configuring the Rules Engine shall be graphical without need for a script.	Writing a script for a rule engine is a old way of doing it. It should be drag and drop capabilities without any complex mechanisms to facilitate ease of operations from any resource	Kindly Refer Corrigendum	1. Hitachi Vantara India Pvt Ltd 2. Larsen & Toubro Ltd
115.	4.8.1 E 34/224 (2)	It shall also be possible to script the rules in advance and import them into the system later.	S.No.34 clause contradicts with s.No 32 where it says rules without scripts. Kindly revisit the clause this sentence contradicts with s.No 32 where it says rules without scripts. The system should be simple and can be used by operator like drag and drop or other mechanisms	As Per RFP	1. Larsen & Toubro Ltd 2. Hitachi Vantara India Pvt Ltd
116.	4.8.1 E 38/224 (4)	The IM Workflow Engine tool shall provide a framework to create custom activities that allow integration into a global business process.	This requirement is not clear. We would need more details to assess	As Per RFP	1. VMS and ICCC 2. INTEC INFONET PVT. LTD. 3. Marushika Technology Advisors Pvt. Ltd. 4. Transline Technologies Pvt. Ltd.
117.	4.8.1 E 40/224 (2)	The IM Module shall provide the ability to skip a step of the SOP and request a justification for skipping the step.	Request to modify the clause as below: The IM Module shall provide the ability to have SOP defined logically	As Per RFP	1. Quantela 2. Larsen & Toubro Ltd
118.	4.8.1 E 40/224 (1)	The SOP shall be interactive and offer an operator-acknowledgement audit for each SOP step.	Along with operator acknowledgement the system shall have push notifications which will get acknowledgement form the Police or concerned authorities to make system more fool proof and ownership of the incident and response also involves	As per RFP	1. Hitachi Vantara India Pvt Ltd



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			police personnel or concerned authorities. The SOP will save each step of an operator as a log for an executable SOP		
119.	4.8.1 G/224 (2)	Widgets shall be mini-applications or mini-groupings in the Monitoring UI dashboard that let the operator perform common tasks and provide them with fast access to information and actions. ICCC software should have drag and drop facility for all widgets for user to move the required alerts and other windows on priority basis.	1. Request to add this capability Based on actions on one widget, other widgets on the same dashboard shall show relevant information to give a full unified view. 2. Can we request for the widget functionality should be adhoc and can be used to create any Widget for any application part of ICCC and fully configurable in ICCC on what will Widget have to display depending on the requirement and operator	As Per RFP	1. Quantela 2. IQuantela Technologies Pvt 3. Hitachi Vantara
120.	4.8.1 E 42/225 (5)	The IM Module shall provide the ability to skip a step of the SOP and request a justification for skipping the step.	1. UC&C allows for Tasks to be defined as Mandatory, which would prevent an operator from closing an Incident until that task is completed. This is the recommended approach for addressing tasks which should not be skipped. We would highly recommend altering this requirement to requiring this capability (assigning tasks as mandatory) instead of justification for skipping. Additionally, specific Actions (i.e. notification) may be applied to Tasks for when an operator Cancels, Fails, or Reassigns one. However, UC&C does not request a	As per RFP	1. Transline Technologies Pvt. Ltd. (1) 2. VMS and ICCC (1) 3. INTEC INFONET PVT. LTD. (1) 4. Marushika Technology Advisors Pvt. Ltd. (1) 5. IQuantela Technologies Pvt (2)



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			justification for skipping an optional task. Though UC&C does require an operator to enter a comment when closing an Incident. 2. Request to modify the clause as below: The IM Module shall provide the ability to have SOP defined logically		
121.	4.8.1 E 43/225 (4)	Each step shall be optionally associated to a document in the form of a URL, or a document in a supported format (such as Word, PDF, or HTML)	1. Request to modify the clause as below: Each step may be optionally associated to a document in the form of a URL 2. Please advise on the usage of this requirement as it says optionally associate to a document. As we are keeping audit logs at each level exact usecase for this requirement is uncertain	As Per RFP (The functional requirement outlined is to have a document attached in any step of the SOP and since such requirements are not needed for every SOP or SOP step, it is mentioned optionally and on needed basis.)	1. Quantela (1) 2. Larsen & Toubro Ltd (1) 3. Hitachi Vantara India Pvt Ltd (2) 4. IQuantela Technologies Pvt (1)
122.	4.8.1 E 46/225 (3)	A maximum delay shall be allowed for a user to initiate the procedure. Automated actions associated with this time to response threshold shall be configurable.	Request to modify the clause as below: Automated actions associated with time to response threshold shall be configurable.	As per RFP	1. Larsen & Toubro Ltd 2. IQuantela Technologies Pvt 3. Quantela
123.	4.8.1 E 47/225 (7)	A minimum time shall be allocated for a user to complete the procedure. Closing the incident before passing this time to resolution threshold shall trigger automated actions.	1. Request to change from minimum to maximum time shall be allocated for a user to complete the procedure. 2. Request to modify the clause as below:	Kindly Refer Corrigendum	1. Transline Technologies Pvt. Ltd. (1) 2. VMS and ICC (1) 3. INTEC INFONET PVT. LTD. (1)



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			Closing the incident before passing the time to resolution threshold shall trigger automated actions.		4. Larsen & Toubro Ltd (2) 5. Marushika Technology Advisors Pvt. Ltd. (1) 6. IQuantela Technologies Pvt(2) 7. Quantela (2)
124.	4.8.1 F 2/225 (2)	The BDCR must have a native Correlation engine which can assesses both temporal and geospatial data from multiple data sets like CCTNS, Court management, Dial 112 / emergency call system, Video Analytics, VMS, ANPR systems, GIS, Vehicle location systems, , FRS and any other public safety or crime intelligence tools.	1. Page No. 32 indicates 32 databases. Please share the software details of the system deployed for each of the applications. 2. The platform must have native BDCR and tightly integrated with the UC & C and preferably from the same OEM for minimising license and operational issues. Can we request the system should also have inbuilt GIS based crime analytics to predict crimes , which will help Delhi Police proactively work on crime reduction and help predictive policing.	1. Details of all the 32 databases will be shared with the selected MSI. 2. As per RFP	1. Verint Situational Intelligence Solutions (1) 2. Hitachi Vantara India Pvt Ltd (2)
125.	4.8.1 F 5/225 (1)	The tool must provide relevant information during any incident Based on geospatial and temporal criteria, by detecting and displaying all relevant information from cameras, people, vehicles, and events that would be interest to specific incident or crime	1. The system or inbuilt tool should support multi geo spatial or multi temporal data analytics to arrive at a heat map based system to predict crimes with colour coding like dark red for higher possibility of crime happening and so on and ability to create a geo fencing to help the operator locate and take right actions through workflow engine	As per RFP	1. Hitachi Vantara India Pvt Ltd 2. L&T



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			2. Please confirm the typo in the use of UC&C platform. This should have been VMS platform. The scope of community surveillance module is limited to the Edge Gateways mentioned in the BoQ (and further increase there of). Kindly confirm		
126.	4.8.1 F 6/225 (1)	g. Analytics to be able to create site suitability analytics and urban indicator analytics	Request to add this capability	As per RFP	1. IQuantela Technologies Pvt
127.	4.8.1 F 6/225 (4)	The tool must support native following Crime analytics and Insights module for proactive policing, Authority may want to activate this module on need basis when the needed technology platforms like centralized data lake etc. are available – Prediction can	1. Request to modify the clause as below: The tool must integrate with Crime analytics and Insights module for proactive policing, Authority may want to integrate this module on need basis when the needed technology platforms like centralized data lake etc. are available – Prediction can happen for the following entities (indicative) 2. Can we please request The Tool or application should support Natural Language processing (NLP) to search through various forms of data in local languages which will enhance the capability of the system to mani folds and can search through various social media too to arrive at max data inputs for an incident	As per RFP (MSI are free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP.)	1. Larsen & Toubro Ltd (1) 2. Quantela (1) 3. Hitachi Vantara India Pvt Ltd (2) 4. IQuantela Technologies Pvt (1)
128.	4.8.1 G 1/226 (1)	The UC&C shall support report generation (database reporting) for	1. The system should not limit the reports parameters./ The system shall have any combinations of	As per RFP (MSI are free to propose better solutions over and above the	1. Hitachi Vantara India Pvt Ltd



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		various systems Unified into the platform access control, ALPR, video, and intrusion.	report generation and visualization and should be able to generate ad-hoc reporting as and when needed	minimum requirements and specifications outlined in the RFP.)	
129.	4.8.1 G 10/226 (5)	The user shall be able to customize the predefined reports and save them as new report templates. There shall be no need for an external reporting tool to create custom reports and report templates. Customization options shall include setting filters, report lengths, and timeout period. The user shall also be able to set which columns shall be visible in a report. The sorting of reported data shall be available by clicking on the appropriate column and selecting a sort order (ascending or descending).	1. We recommend to open this requirement to the creation of custom reports, instead of requiring or save them as new report templates. 2. Can we please request this clause be changed as the system should be so robust, it should not have any requirements for predefined reports and the data management tools should be so robust to create any ad-hoc reports using any combinations of data available in the system to generate reports?	As per RFP (The user shall be able to customize the predefined reports and save them as new report templates with all original data unaltered.)	1. Transline Technologies Pvt. Ltd. (1) 2. VMS and ICCV (1) 3. Hitachi Vantara India Pvt Ltd (2) 4. INTEC INFONET PVT. LTD. (1) 5. Marushika Technology Advisors Pvt. Ltd. (1)
130.	4.8.1 G 8/226 (9)	G Reporting: System Health activity and health statistics reports for proactive maintenance.	1. This is the functionality of EMS application which is already a part of RFP Scope. C4I platform will integrate with EMS to provide the functionality. Request you to kindly remove the functionality from C4I Scope. 2. We understand ICCV will integrate with EMS/NMS solution for generating reports related to System Health and statistic. Please confirm.	Kindly Refer Corrigendum	1. Hexagon (1) 2. SCS TECH INDIA PVT. LTD. (2) 3. Transline Technologies Pvt. Ltd. (3) 4. Techspire Services Pvt. Ltd. (3) 5. Larsen & Toubro Ltd (2,3,4) 6. INTEC INFONET PVT. LTD. (3,4)



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			3. Request you to please delete this clause as it is provided via EMS / NMS tools 4. Requesting to please remove this clause. This feature is already covered in EMS and NMS, adding to GIS will burden upon the costing part unnecessarily. Also, will not facilitate a fair competition. 5. Can we request this clause to be changed to "the report should be able to take any data set within the system from any format and create ad-hoc reports as needed by an operator through easy to use GUI. The whole idea of UC&C system is to use it for various purposes and reporting being the important parameter, there shouldn't be any restrictions and it should be fully customizable		7. Online Micro Services Private Limited (3) 8. Marushika Technology Advisors Pvt. Ltd.(3,4) 9. Hitachi Vantara India Pvt Ltd (5)
131.	4.8.1 G 6/228 (5)	It shall be possible to extend the widgets of a dashboard using the SDK. This will provide the ability to develop custom widgets to the system	1. It would be recommended to change this requirement from "using the SDK" to "through the creation of custom HTML-based content" (which can be displayed in Forms Gadget). 2. SDK/ HTML based content is suggested. HTML based approach is easier to execute and will meet the objectives in highly customized form quickly. 3. It would be recommended to change this requirement from "using the SDK" to "through the creation of custom HTML-based	Kindly Refer Corrigendum	1. Transline Technologies Pvt. Ltd. (1) 2. VMS and ICC (1) 3. INTEC INFONET PVT. LTD. (1,2) 4. Marushika Technology Advisors Pvt. Ltd. (1) 5. Hitachi Vantara India Pvt Ltd (4)



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			content” (which can be displayed in Forms Gadget). 4. The SDK to expose Widget functionality means extending the data form the DB of the ICCC/ C4i. The widget is an integral part ofteh C4i / ICCC / UC&C and hence the ability to create widgets should be made fully available within the systems only and ICCC / C4i / UC&C should provide APIs to 3rd party applications that can be used to generate any custom dashboard or reports.		
132.	4.8.1 H 1/228 (3)	The Configuration UI application shall allow the administrator or users with appropriate privileges to change the system configuration.	1. Request to modify the clause as below: The Configuration UI application shall allow the administrator to change the application configuration.	As Per RFP (An Administrator can assign equivalent privileges to another user as a proxy admin or a super user)	1. Larsen & Toubro Ltd 2. Quantela 3. IQuantela Technologies Pvt
133.	4.8.1 H 2/228 (7)	The configuration of all embedded systems shall be accessible via the Configuration UI.	1. UC&C is not intended to replace the sub-systems configuration tools. The configuration for these subsystems is to be done within the native system's UI due to the variance in types of configuration entities available from sub-system to sub-system. However, UC&C does have the ability to configure how sensors and events from subsystems are to be displayed within C4I. Also, UC&C allows for command and control of sensors for connected sub-systems (i.e. unlock door, disarm sensor, etc). UC&C does have the ability to	Kindly Refer Corrigendum	1. Transline Technologies Pvt. Ltd. (1) 2. VMS and ICCC (1) 3. INTEC INFONET PVT. LTD. (1) 4. Larsen & Toubro Ltd (2) 5. Quantela (2) 6. Marushika Technology Advisors Pvt. Ltd. (1) 7. IQuantela Technologies Pvt (2)



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			create Quick Launch icons which may be configured to launch 3rd party applications and configuration tools. It would be recommended to clarify in this requirement that configuration pertains to the configuration of how the sensors and sub-system entities are represented within the UC&C, and if any configuration is required for the sub-system, itself, that the platform would just require the ability to launch that sub-system's configuration tool if installed on the same client workstation. 2. Request to modify the clause as below: The configuration of all embedded systems shall be integrated and accessible via the Configuration UI.		
134.	4.8.1 H 9/228 (1)	9. Incidents reports shall have facility for generating escalation matrix for alerts and incidents.	Normally Reports doesn't need escalation matrix and should be part of Incident Management. Please confirm.	As per RFP	1. NEC Corporation India Pvt. Ltd.
135.	4.8.1 H 4/229 (7)	4. The Configuration UI shall include a variety of tools such as troubleshooting utilities, import tools, and a unit discover tool, amongst many more.	1. What is meant by troubleshooting utilities? UC&C for instance has an Audit Events tool in the Administration portion of the Control Room application, which allows an administrator to audit events and actions which have occurred within UC&C. It would be recommended to clarify that this is related to auditing, as well as built-	As per RFP	1. Transline Technologies Pvt. Ltd. (1) 2. VMS and ICC (1) 3. Larsen & Toubro Ltd (2) 4. INTEC INFONET PVT. LTD. (1) 5. Marushika Technology



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			in tests and logging tools. 2. Kindly elaborate on Troubleshooting utilities 3. OEM specific, can we please delete this clause? Instead this can be termed as C4i platform should have various tools to manage and operate the system with ease. 4. We assumed troubleshooting of various components mentioned here, is referring to the health of edge components connected to respective system and to UC &C system. Please confirm.		Advisors Pvt. Ltd. (1) 6. Hitachi Vantara India Pvt Ltd (3) 7. NEC Corporation India Pvt. Ltd. (4)
136.	4.8.1 H 7/229 (6)	The application must have single user unified interface for configurations of all the systems of Video, ANPR and Emergency response.	1. Please define what configurations is expected out here. For Device On-boarding, User Management for Various system such VMS, ANPR and Emergency response is possible at ICCV however detailed configurations are native feature of independent application not through unified interface. Please clarify. 2. C&C application should be agnostic to any sub-system. Key Sub-systems like VMS should definitely not be an integral part of C&C application to achieve open architecture.	As per RFP (The configuration /Integration of all the systems of Video, ANPR and Emergency response systems operational parameters through a single user interface)	1. Matrix Security & Surveillance Pvt. Ltd. (1) 2. Honeywell Automation India Ltd. (1) 3. Larsen & Toubro Ltd (1) 4. Johnson Controls (2) 5. HFCL Limited (2) 6. Hitachi Vantara India Pvt Ltd (3)



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			3. Request to remove the requirement as the UC&C integrates with disparate data sources like VMS, ANPR and Emergency response and configurations are done by native application form OEMs. Can we request this to change to the application must have unique integration with other data sources to visualise data and create actions on the incoming data as on need basis? 4. Please define what configurations is expected out here. For Device Onboarding, User Management for Various system such VMS, ANPR and Emergency response is possible at ICCC however detailed configurations are native feature of independent application not through unified interface. Please clarify.		
137.	4.8.1 H 8/229 (1)	There should not be any limitation on the number of end client licenses for the UC & C application.	If the browser based UC&C is used there won't be any need for any licensing for client applications and no need for client application specific compute	As per RFP (MSI can propose web based client meeting the functional and technical requirements outlined in the RFP.)	1. Hitachi Vantara India Pvt Ltd
138.	4.8.1 I 1/229 (1)	The UC&C shall support mobile apps for various off-the-shelf smartphones and tablets. The mobile apps shall communicate with the Mobile Server of the UC&C over any WIFI or mobile network connection	The ICCC should be robust enough to support mobile application connectivity from its compute rather than having to spend additional licensing on Mobile server and apps. Can we request the this to be added that mobile Apps shouldn't come with	Kindly Refer Corrigendum	1. Hitachi Vantara India Pvt Ltd



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			additional licenses and should be inherent part of UC&C application?		
139.	4.8.1 I 2/229 (1)	All the communication between the mobile apps and UC&C platform will be on HTTP and by adding TLS encryption on https.	1. Connection over HTTP is not secured should be avoided at all cost and can lead to security issues. Can we request this to be changed to Mobile app to UC&C application is secured using industrial standards of encryption like TLS or equivalent? 2. In addition to this can we request the entire APIs / SDKs for the UC&C software are openly published on OEM's website with detailed usage instructions along with testing environment / Sandbox that can be used by any ISV or programmer and create their own applications without the need to disturb production systems or need to create a separate test set up 3. For making robust authentication the system along with AD should have single sign on capabilities and can be integrated with any widely used SSO options like Key cloak.	Kindly Refer Corrigendum	1. Hitachi Vantara India Pvt Ltd
140.	4.8.1 J 1/229 (4)	Ability to logon/logoff the UPS using an authorized use profile of the system. Ability to change the picture or the password of the user of the mobile app.	1. Suggested Mobile Responder App Specifications: The QR module provides first responders and emergency response teams the ability to collect live data at the scene of the incident for direct input and interaction with the security control room.	Kindly Refer Corrigendum	1. Johnson Controls (1,2,3,4) 2. BHARAT ELECTRONICS LIMITED (1,2,3,4) 3. Hitachi Vantara India Pvt Ltd



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		Ability to view the current Threat Level of the system.	2. The QR mobile is to be an android app based loaded onto a android smart phone or tablet the smart phone is to be connected to the integrated security management platform for secure connection to the QR via a firewalled web server. 3. The app is to allow the first responders to raise an incident directly within the integrated security management platform and enter live data from the scene of the incident, the app is to include the ability to upload of audio and photographs direct from the mobile device. The location of a QR mobile device is to be geopositioned on the mapping system along with identification of the user logged in to the QR app. 4. The QR system must have the ability for control room operators to push incident data to first responders and emergency response teams, mobile QR and the Command & Control Software platform operators can interact from the security control room and incident scene. Qognify 5. For security reasons, we suggest removing this requirement and leave user management		



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			administration tasks to the primary client application.		
141.	4.8.1 J 1/229 (1)	Ability to view below minimum edge devices Unified with the UC&C platform: ·Cameras ·ii. ALPR cameras ·GIS and Offline Maps ·Iv. Ability to navigate the system hierarchical view of the edge devices & entities with ability to search entities in the sys	We assume that Mobile App should display the cameras, ALPR cameras over map display along with alert indication and there is no need to provision video viewing in Mobile app. Please confirm.	Kindly Refer Corrigendum	1. NEC Corporation India Pvt. Ltd.
142.	4.8.1 J 1/229 (12)	b. Ability to change the picture or the password of the user of the mobile app. c. Ability to view the current Threat Level of the system. (4) e. Ability to execute hot actions configured in the user profile. (4) GIS and Offline Maps(4)	1. For security reasons, we suggest removing this requirement and leave user management administration tasks to the primary client application. 2. This feature should be remotely driven through the prime C4i application only considering the secured exposure of the platform through the mobile devices Qognify. 3. For security reasons, we suggest removing this requirement and leave user management administration tasks to the primary client application. Qognify.	Kindly Refer Corrigendum	1. Transline Technologies Pvt. Ltd. 2. VMS and ICC 3. INTEC INFONET PVT. LTD. 4. Marushika Technology Advisors Pvt. Ltd. 5. Qognify
143.	4.8.1 J 2/229 (2)	2. It shall be possible to download the mobile apps from the Central application store (Apple	1. Suggested Change -It shall be possible to have the app installed on Android or Apple devices Windows Mobile OS is not used	Kindly Refer Corrigendum	1. Johnson Controls 2. NEC Corporation India Pvt. Ltd. 3. Hitachi Vantara



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		iTunes App Store, Google Play, Windows Store).	nowadays. Please allow Mobile App for Apple Store & Google Play. 2. Shall Progressive Web App (PWA) technique be considered in developing mobile app? It does not need any dependencies on Apple, Google or Windows server. PWA can be considered for modern mobile app with its pros and cons matching ICCC requirements.		
144.	4.8.1 K 3/230 (1)	Health events shall be accessible via the SDK (can be used to create SNMP traps with external EMS / NMS systems).	Any data from ICCC should be made available in Open API standards. Building an SDK on ICCC platform should be avoided as it will drive towards high maintenance cost.	Kindly Refer Coorigendum	1. Hitachi Vantara India Pvt Ltd
145.	4.8.1 L 4/230 (4)	The UC&C shall support the generation of user activity trails. User activity trails shall consist of logs of operator activity on the UC&C such as login, camera viewed, badge printing, video export, and more.	1. These would need to be printed via the Access Control system, or other application intended for this function. It would be recommended to remove this item from the spec for UC&C. 2. This feature of badge printing is fulfilled by the Access Control System. Making it a specific feature of UC&C will make it restrictive incurring unnecessary cost measures.	As per RFP (Badge printing is a native functionality of ACS. However; the UC&C shall have seamless integration with Access Control System to have access to user activity trails.)	1. INTEC INFONET PVT. LTD. (1,2) 2. Transline Technologies Pvt. Ltd. (1,2) 3. VMS and ICCC (1,2) 4. Marushika Technology Advisors Pvt. Ltd. (1,2)
146.	4.8.1 M 1/230 (1)	Directory service like MS – AD or Similar integration shall permit the central user management of the UC&C users, user groups and other Access control groups	For making robust authentication the system align with AD should have single sign on capabilities and can be integrated with any widely used SSO options like Keycloak.	As per RFP (Clarification: AD/ LDAP integration is already asked in the RFP)	1. Hitachi Vantara India Pvt Ltd



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147.	4.8.1 M 2/230 (1)	The UC&C shall support multiple approaches to integrating third party systems and other Safe City application. These shall include: Software Development Kits (SDKs), Driver Development Kits (DDKs), REST-based Web Service SDK and RTSP Service SDKs	Multiple third party systems should expose their system data in Open API standards which enable seamless and faster integrations with ICC. SDK would lead to complex interdependencies across multiple systems.	Kindly Refer Corrigendum	1. Hitachi Vantara India Pvt Ltd
148.	4.8.1 M 4/230 (2)	The SDK shall enable end-users to develop new functionality (user interface, standalone applications, or services) to link the UC&C to third party business systems and applications such as Badging Systems, Human Resources Management Systems (HRMS), and Enterprise Resource Planning (ERP) systems.	These are proprietary SDK requirements. Please remove to keep it generic. The C&C shall be able to link with various HRMS, ERP systems etc. using their APIs & SDKs These are proprietary SDK requirements. Please remove to keep it generic. The C&C shall be able to link with various HRMS, ERP systems etc. using their APIs & SDKs	Kindly Refer Corrigendum	1. Johnson Controls 2. Sterlite Technologies Limited
149.	4.8.1 M 3/230 (3)	A UC&C SDK shall be available to support custom development for the platform.	Request to modify the clause as below: A UC&C APIs/SDK shall be available to support custom development for the platform.	Kindly Refer Corrigendum	1. Quantela 2. IQuantela Technologies Pvt 3. Larsen & Toubro Ltd
150.	4.8.1 M 4/230 (5)	The SDK shall enable end-users to develop new functionality (user interface, standalone applications, or services) to link the UC&C to third party business systems and	1. Scope of the mentioned requirement is not clear to provide or integrate Badging System, HRMS and ERP, Moreover this should be separate project or need to clearly defined the MSI role with existing or proposed features	Kindly Refer Corrigendum	1. Presto Infosolutions Pvt. Ltd. (1) 2. Larsen & Toubro Ltd (2) 3. Quantela (2)



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		applications such as Badging Systems, Human Resources Management Systems (HRMS), and Enterprise Resource Planning (ERP) systems.	required. Need detailed scope of Badging System, HRMS and ERP. Moreover this should be separate project. 2. Request to modify the clause as below: The APIs/SDK shall enable end-users to develop new functionality (user interface, standalone applications, or services) to link the UC&C to third party business systems and applications such as Badging Systems, Human Resources Management Systems (HRMS), and Enterprise Resource Planning (ERP) systems.		4. IQuantela Technologies Pvt (2)
151.	4.8.1 M 5/230 (3)	The SDK shall provide an extensive list of programming functions to view and/or configure core entities such as: users and user groups, alarms, custom events, and schedules, and more.	1. Request to modify the clause as below: The APIs/SDK shall provide an extensive list of programming functions to view and/or configure core entities such as: users and user groups, alarms, custom events, and schedules, and more.	Kindly Refer Corrigendum	1. Larsen & Toubro Ltd 2. IQuantela Technologies Pvt 3. Quantela
152.	4.8.1 N 1/230 (1)	The UC&C Application shall be an IP enabled solution. All communication between the Servers, Clients and external systems shall be based on standard TCP/IP protocol and shall use TLS encryption with digital certificates to secure the communication channel.	2. The need for having client -server architecture can be fully avoided with UC&C's ability to support using web browser. This will save additional cost and multiple layers of failure with server and client compute. The web-based secured architecture will create secured and encrypted data flow between systems and applications	As per RFP (MSI can propose web based client meeting the functional and technical requirements outlined in the RFP.)	1. Hitachi Vantara India Pvt Ltd



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153.	4.8.1 N 2/231 (3)	The Application shall limit the IP ports in use and shall provide the Administrator with the ability to configure these ports.	1. Request to modify the clause as below: The Application deployment setup shall limit the IP ports in use and shall provide the server administrator with the ability to configure these ports.	As per RFP (This can be setup during deployment)	1. Quantela 2. Larsen & Toubro Ltd 3. IQuantela Technologies Pvt
154.	4.8.1 N 3/231 (5)	The VMS system Unified with the UC&C application shall support only secured media stream requests, unless explicitly configured otherwise. Secured media stream requests shall be secured with strong certificate-based authentication leveraging RTSPS (aka RTSP over TLS). Client authentication for media stream requests is claims based and may use a limited lifetime security token.	1. This is a proprietary clause. VMS should be a standalone application instead of a part of C&C application. Hence this is not applicable. Please remove. 2. This is a proprietary clause. VMS can be from 3rd party OEM which can be integrated with C&C application. We request you to remove this clause. 3. The technology had evolved and server client architecture has become obsolete. The current architectures are containers based and micro services based secured multi-tier architecture. Can we request this requirement should be changed to support Micro-services based container architecture which is fast, secured and super scalable and all integrations and data sharing happens through REST 2.0 secured APIs with secured encrypted tokens?	As per RFP (VMS and ICCC can be from different or same OEM, but MSI has to integrate all mention subsystems, whereas VMS and ICCC communication with secure channel is most important)	1. Sterlite Technologies Limited (1) 2. Johnson Controls (2) 3. HFCL Limited (1) 4. BHARAT ELECTRONICS LIMITED (2) 5. Hitachi Vantara India Pvt Ltd (3)
155.	4.8.1 N 4/231 (2)	All other needed best practices for best Cyber Security Standards must be	Repeated clause. Please remove.	As per RFP	1. Johnson Controls



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		followed and adopted in the development, deployment and adoption phases of the project.			2. Sterlite Technologies Limited
156.	4.8.1 N 5/231 (10)	The OEM of UC&C application shall have an online or offline Cyber Security emergency response centre to update on latest vulnerabilities and provide needed assistance during any cyberattacks on the system. Details of response centre must be available on the OEM global website.	1. This is a proprietary clause. Request to remove the requirement. 2. We would seek to exclude this requirement for platforms which are not hosted by the OEM. UC&C is a software platform, which is to be installed on a customer-provided server environment. Therefore, the customer/MSI would be responsible for meeting Cyber Security requirements for that environment. 3. In order to ensure wider OEM participation, request you to remove this clause. 4. This is a proprietary clause. Please remove. 5. Clause is related to specific OEM and hence we request to delete this clause. We would seek to exclude this requirement for platforms which are not hosted by the OEM. UC&C is a software platform, which is to be installed on a customer-provided server environment. Therefore, the customer/MSI would be responsible for meeting Cyber Security requirements for that environment.	Kindly Refer Corrigendum	1. HFCL Limited (1) 2. Transline Technologies Pvt. Ltd. (2) 3. VMS and ICC (2) 4. Sterlite Technologies Limited (3) 5. Johnson Controls (4) 6. INTEC INFONET PVT. LTD.(2) 7. EFKON India Pvt. Ltd (5) 8. Marushika Technology Advisors Pvt. Ltd. (2) 9. Hitachi Vantara India Pvt Ltd (6) 10. Larsen & Toubro Ltd (6)



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			6. There should not be any publishing of security vulnerabilities till the OEM comes out with a security fix. IF this info is publicly available then it can be used by any hacker to create anomalies in the systems and can cause serious data privacy and other issues. Request you to kindly delete this clause.		
157.	4.8.2 iii/232 (2)	iii. The Master Server will have manual and automatic mode for assigning cameras to the available recorder servers as per District or PHQ requirements. In automatic mode, the cameras will be assigned based on the compute capability of the recorder server.	Different OEMs have different ways of achieving this requirement. Please change to: iii. The Master Server will have manual or automatic mode for assigning cameras to the available recorder servers as per District or PHQ requirements. In automatic mode, the cameras will be assigned based on the compute capability of the recorder server. In manual mode, the system will allow the operator to assign the cameras.	As per RFP (Both are required)	1. Honeywell Automation India Ltd. 2. Honeywell
158.	4.8.2 iv/232 (1)	The Post Data Analyses will be provisioned with video summarization tool and methodologies by reducing timeframe of actual video substantially. This video synoptic and summarization methodology will support Police Personal in investigation studies with mi	The Video Analytics And Artificial Intelligence Tools / Video Summarisation tools are classified as separate application (as per Functional Architecture Framework for Delhi Safe City Project) with separate KPI's as defined for each. Please clarify if our interpretation is correct.	As per RFP (Video Analytics And Artificial Intelligence Tools / Video Summarisation tools are a separate applications)	1. Mistral Solutions Pvt Ltd
159.	4.8.2 i/233 (2)	The Video Management Server will provide	This is OEM specific point. Please change to:	Kindly Refer Corrigendum	1. Honeywell



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		centralized management of all IP cameras in the city. The database will support more than 20000 cameras / IP end points in a single server.	The Video Management Server will provide centralized management of all IP cameras in the city. The database will support more than 20000 cameras / IP end points in a single server/multiple servers with distributed video architecture.		2. Honeywell Automation India Ltd.
160.	4.8.2 vi/233 (2)	The VMS will periodically check the gaps in live recording of the cameras based on broken time periods of continuous feeds and will check with the on-board storage of the camera. In case of a gap, the VMS will synchronize the video recording on the on-board storage with the VMS storage through ONVIF Profile G standards.	This is OEM specific point. Please change to: The VMS when require will check the gaps in live recording of the cameras based on broken time periods of continuous feeds and will check with the on-board storage of the camera. In case of a gap, the VMS will synchronize the video recording on the on-board storage with the VMS storage through ONVIF Profile G standards.	As per RFP (This is basic requirement)	1. Honeywell 2. Honeywell Automation India Ltd.
161.	4.8.2 i/234 (1)	i. In the centralized scheme of solution, the Video Recording Servers will be running centrally in the best possible efficient environment in DC. Each Video Recording Server Host will be able to handle at least 960 Mbps of Video bandwidth in virtualized or physical environment to meet the project requirement.	1. Please confirm if we could adopt an hybrid design of both Virtulisation and Physical machines for DC and DR.	As per RFP	1. NEC Corporation India Pvt. Ltd.
162.	4.8.2 ii /234 (1)	DC & nDR will have storage capacity of 30 days and 7 days respectively	1. We understand nDR is only 5% of DC in Capacity (Compute & Storage) and hence, the storage	As per RFP (Yes, 2 PB storage enough for flag Data and 250 critical camera)	1. EFKON India Pvt. Ltd (1)



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			requirement would be kept at DC only. Please confirm if understanding is correct. 2. We understand that the following needs to be stored at DR. 1. 7 days data of all the cameras. 2. Flagged Data to be stored for 90/180 days. 3. As per the Storage BOQ mentioned for DR (Pg 129, S.No-11) is only 2 PB. This storage is only for replicating the 2PB storage which is deployed in DC for flagged data. There is no provision in the BOQ for storing the 7 Days data of all Cameras. Please clarify.		2. Matrix Security & Surveillance Pvt Ltd (2,3)
163.	4.8.2 iii/234 (9)	There will be 10% additional servers to handle the interim storage / database /failover requirements.	1. Are these 10% additional servers considered in the BoQ mentioned for the recorder servers in the RFP? Kindly confirm 2. We understand that these 10% additional servers are considered in the SOR BoQ mentioned for the recorder servers in the RFP. If not , request you to revise the BoQ	As per RFP (Additional servers are already considered. MSI has to match the VMS server calculations on benchmark asked in RFP)	1. Matrix Security & Surveillance Pvt Ltd (1) 2. Sterlite Technologies Limited (2) 3. Videonetics Technologies Pvt Ltd. (1) 4. PruTech Solutions India Pvt. Ltd.(1) 5. Tech Mahindra (1) 6. Johnson Controls (1) 7. NEC Corporation India Pvt. Ltd. (8. Larsen & Toubro Ltd (1)



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					9. Bodhtree (1)
164.	4.8.2 i/234 (3)	Storage requirement for Camera Video Streams In the centralized scheme of solution, there will be centralized storage for all cameras at DC. The centralised storage has been planned at DC to store all camera feeds for 30 days 24/7 at 4MP resolution or at the highest resolution available from the camera at 25 FPS with H.265 video compression.	1. It is understood from Point no. 8 in controller specs on pg 305 that minimum 16 inputs of DP/HDMI supporting 4K-UHD resolution is to be offered. Hence, decoding of cameras is in customer scope. Please confirm. Video wall will be used to display the camera streams. 2. We would like to your kind notice as per the specifications mentioned in the B.3. Outdoor Fixed ANPR Camera with IR Illuminator- 2MP the resolution of the camera is only 2 MP. Request you to clarify which type of cameras needs recording 24/7 @25 FPS.	1. As per RFP	1. Telecommunication Consultants India Limited (1) 2. Matrix Security & Surveillance Pvt Ltd (2) 3. Delta Electronics India Pvt. Ltd (1)
165.	4.8.2 iv/234 (2)	Functional Requirements of VMS CCTV Monitoring requirement at C4i, C3i and C2i iv. At C4i, 10% of 10,000 cameras that is approx. 1000 cameras to be monitored live. Considering 16 cameras in one 70" screen, 48 screens will be displaying 768 cameras live o	1. It is understood from Point no. 8 in controller specs on page 305 that minimum 16 inputs of DP/HDMI supporting 4K-UHD resolution is to be offered. Hence, decoding of cameras is in customer scope. Please confirm. Video wall will be used to display the camera streams.	As per RFP	1. Matrix Security & Surveillance Pvt Ltd 2. Delta Electronics India Pvt. Ltd
166.	4.8.2 a/235 (1)	50 edge gateway devices will be procured as an integral part of the Project Solution. It will be used for	1. Please provide the detailed information about the Edge Gateway devices and also provide	As per RFP (Edge gateway Detailed specification has already been provided in RFP.)	1. ESSI Integrated Technologies Pvt. Ltd.



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		connecting the feeds of existing cameras reporting to Police Stations/ Police District offices/ NDMC Control Room. The Edge Gateway appliances will connect the external set of cameras that will be used as per need basis.	the clarity on its integration with VMS software		
167.	4.8.2 ii/234 (1)	Storage requirement for Camera Video Streams. ii. 5% critical camera location will travel to near DR	1. We request you to kindly provide details of which 500 location cameras are "Critical cameras ". This is required for the service provider to provide the required connectivity to the DR.	As per RFP (details shall be shared with the successful / qualified bidder)	1. Matrix Security & Surveillance Pvt Ltd
168.	4.8.2 ii/234 (1)	Storage requirement for Camera Video Streams. 5% of Analytics and ANPR feeds	2. We request you to kindly provide details of which 5% location video analytics & ANPR are "cameras feeds" to be stored at DR. This is required for the service provider to provide the required connectivity to the DR	As per RFP (details shall be shared with the successful / qualified bidder)	1. Matrix Security & Surveillance Pvt Ltd
169.	4.8.2 d/235 (7)	d. The gateway will have an ability to stream at least 200 cameras from each of the deployment site live into the Command centers or any other locations where the C4i / VMS application is made available	1. We assume the camera stream would be 2 MP minimum with H.264 compression and 4 Mbps bitrate. Kindly confirm the understanding for the system design 2. It is assumed as Delhi Police has GIS already implemented with relevant licensing and OEM needn't add any GIS licensing in their platform. C4i OEM should only do integrations of Dial 112 and GIS. Kindly confirm	1. As per RFP (The video feeds not necessary would be of the same specification all across, the edge gateway should be able to stream CCTV video feeds to C4i interface on need basis) 2. Kindly Refer clause no 4.8.9 (Enterprise GIS) .	1. Matrix Security & Surveillance Pvt Ltd 2. Videonetics Technologies Pvt Ltd. 3. PruTech Solutions India Pvt. Ltd. 4. Tech Mahindra 5. Sterlite Technologies Limited 6. Johnson Controls 7. Bodhtree 8. L&T



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170.	4.8.2 g/235 (6)	g. The gateway will have the native intelligence to stream live video with dependency only on the network infrastructure of the 3rd party system and under no circumstances the solution should depend / intervene on the 3rd party solution deployed except accessing the live video feeds from the CCTV cameras deployed at sites.	If we understand the requirement properly, the edge gateway will access the video streams from the cameras directly without any dependence on the NVRs. Kindly confirm	As per RFP (YES , Edge gateway has to place near to NVRs network to fetch camera feeds)	1. Matrix Security & Surveillance Pvt Ltd 2. Videonetics Technologies Pvt Ltd. 3. PruTech Solutions India Pvt. Ltd. 4. Tech Mahindra 5. Larsen & Toubro Ltd 6. Bodhtree
171.	4.8.2 VMS Additional/237 (1)	--	Functional Specifications To get proven solution from industry we request authority to add clause: "The proposed solution should possess ISO 27034 certification for application security management"	As per RFP	1. Mindarray Systems Pvt Ltd (Motadata)
172.	4.8.2 VMS A 1/237 (4)	Licenses: 10,000 camera licenses + 1000 (floating licensing for integration of 15000 Existing cameras of Delhi Police	1. We understand 15000 are existing cameras of which only 1000 existing cameras are to be integrated. Kindly confirm. There seems to be a typo error. As per the price Bid there are only 11000 VMS licenses to be procured by MSI. Please confirm if understanding is correct. 2. We assume the necessary bandwidth is available to integrate such cameras, the cameras support additional stream for viewing/recording functions and	As per RFP	1. Honeywell Automation India Ltd. 2. EFKON India Pvt. Ltd 3. Honeywell 2. Sterlite Technologies Limited 3. Videonetics Technologies 4. BECIL



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			the cameras are ONVIF compliant. Kindly clarify 3. Request you to please elaborate on your understanding of the floating licenses for integration of 15000 existing cameras.		
173.	4.8.2 A 10/237 (4)	The Application shall offer a plug and play type hardware discovery service with the following functionalities:	1. We request to add below specs for smooth functioning and reducing the chances of failure. "VMS shall support Automatic rollback function in case of failing software updates" 2. We request to add below function for smooth operation and reducing the chances of failure. "VMS shall support Automatic rollback function in case of failing software updates" 3. It's submitted to include the feature- VMS shall support Automatic rollback function in case of failing software updates as a recommendation to ensure reduced chances of failure.	As per RFP	1. Transline Technologies Pvt. Ltd.(1) 2. VMS and ICC (2) 3. INTEC INFONET PVT. LTD. (1,3) 4. Marushika Technology Advisors Pvt. Ltd. (1,3)
174.	4.8.2 A 3/237 (3)	The VMS application provider must support at least 50 + brands of Cameras and the list of integrations must be listed on the global web site of the application provider.	1. This is OEM specific point. Please change to: The VMS application provider must support any Onvif profile Cameras and the list of integrations must be listed on the global web site of the application provider.	Kindly Refer Corrigendum	1. Honeywell Automation India Ltd. (1) 2. EFKON India Pvt. Ltd (2) 3. Honeywell (1)



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			2. The clause is single OEM oriented. Hence we request to delete this clause to allow open competition and allow Indian OEMs to participate in this project. 3. Kindly Consider: The VMS shall be based on a true open enterprise architecture that shall allow the use of non-proprietary workstation and server hardware, non-proprietary network infrastructure and nonproprietary storage. The VMS application provider must support at least 50 + brands of Cameras and the list of integrations must be shared by OEM.		
175.	4.8.2 A 5/237 (2)	VMS General requirements: The Security application shall offer a complete and scalable video surveillance solution which allows cameras to be added on a unit-by unit basis. The database shall support more than 50000 cameras / IP end points in a single Hardware machine.	4. Pt i of Pg 233 & are contradictory. On Pg233 database is asked for 20000 Cameras and here it is 50000 cameras. Looking at requirement, request to please make it 20000 cameras.	Kindly Refer Corrigendum	1. Honeywell Automation India Ltd. 2. Honeywell
176.	4.8.2 A 6/237 (1)	The Proposed VMS Solution Shall support native Fail over with in application with no dependency on any external application for both hardware and application redundancy. The native fail over	This is a proprietary specs related to one specific OEM. We request you to please include windows clustering and third party high availability tool to achieve the same functional requirement	As per RFP	1. ESSI Integrated Technologies Pvt. Ltd.



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		architecture must be for both management and recording servers.			
177.	4.8.2 A 6/237 (6)	The Proposed VMS Solution Shall support native Fail over with in application with no dependency on any external application for both hardware and application redundancy. The native fail over architecture must be for both management and recording servers.	1. This is a proprietary specs related to one specific OEM. We request you to please include windows clustering and third party high availability tool to achieve the same functional requirement 2. Every OEM has different methodology to support the failover. We would recommend to change the native failover to failover for fair and open competition. 3. In order to ensure wider OEM participation, request you to amend the clause as follows: "The Proposed VMS Solution Shall support native Fail over within application with no dependency on any external application for both hardware and application redundancy. The native fail over architecture must be for both management and recording servers." 4. This is restrictive. Please relax native failover to 'failover' only and let it be under the responsibility of the OEM to maintain the SLA terms.	As per RFP	1. ESSI Integrated Technologies Pvt. Ltd. (1) 2. Transline Technologies Pvt. Ltd. (2) 3. VMS and ICC (2) 4. Sterlite Technologies Limited (3) 5. INTEC INFONET PVT. LTD. (2,4) 6. Marushika Technology Advisors Pvt. Ltd. (2,4)



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178.	4.8.2 A 7/237 (1)	7. The Fail over and Fall-back management and recording Server shall be on hot standby, ready to take over during the primary management server fails. No manual action from the user shall be required. The fail over time should not be beyond 1 Min and there should not be any loss in the Live video and recorded video.	This depends on network and hardware features also. How can an ideal test or parameter of 1 min. can be applied in this case. This will lead to greater inaccuracy once Primary servers are physically apart in different Data centers. This failover does not mention location of primary servers.	As per RFP	1. Verint Situational Intelligence Solutions
179.	4.8.2 A 15/238 (1)	The Application shall support Direct Multicast from Camera. For network topologies that restrict the Application from sending multicast UDP streams, the application shall redirect audio/video streams to active viewing clients on the network using multicast UDP directly from cameras and the architecture should not use Multicast streaming via recording servers or any other servers and increase the overall compute capacity of Recording servers.	1. We request you to please include multicast from recording servers to client and multiple third party systems	As per RFP (MSI is free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP, whereas it has to be cater on camera, switch and network level.)	1. ESSI Integrated Technologies Pvt. Ltd.
180.	4.8.2 A 19/238 (10)	19. The proposed software shall be scalable to support live viewing and automatic transfer of video recorded	1. We think the mention of the UC & C user interface is a typo. The requirement should be fulfilled	Kindly Refer Corrigendum	1. Matrix Security & Surveillance Pvt Ltd (1)



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		to the cloud on demand basis from UC&C user interface, based on the age of the video for future scalability and the hosted Cloud Platform must be among the approved vendors as per the MeITY approved GI Cloud initiative from Govt of India. The proposed application must provide a single interface to monitor, collaborate and action for both on premises and cloud devices like cameras, ANPR devices etc.	through the VMS interface. Kindly confirm. 2. We recommend to remove this function from VMS as it can be achieved through the UC&C application. 3. As per RFP, we understand that, the mentioned functionality will be achieved using UC& C platform. Kindly remove it from VMS and add the same in UC&C.		2. Videonetics Technologies Pvt Ltd. (1) 3. PruTech Solutions India Pvt. Ltd.(1) 4. Transline Technologies Pvt. Ltd. (2) 5. VMS and ICCC (2) 6. Larsen & Toubro Ltd (1,3) 7. INTEC INFONET PVT. LTD. (2) 8. Marushika Technology Advisors Pvt. Ltd. (2) 9. Bodhtree (1)
181.	4.8.2 A 20/238 (1)	20. The Application shall be capable to handle both IP v4 and IP v6 Unicast and Multicast traffic with both PIM - SM and PIM - DM support.	The tender envisages integration of community cameras and existing system which will make integration impossible if VMS is on ipv6. Hence it is suggested that VMS should be ipv4/v6.	As per RFP	1. Verint Situational Intelligence Solutions
182.	4.8.2 A 22/238 (1)	There should not be any dependency on the end point MAC address for licensing for ease of operations.	This is a proprietary specs related to one specific OEM. Kindly consider MAC ID based, Server based and other license policies as well. Request you to please make it flexible. MAC address based binding systems also enables customer to do parallel recording on single license	As per RFP	1. ESSI Integrated Technologies Pvt. Ltd.
183.	4.8.2 B 6/239 (1)	The Client Viewer shall have the capability to receive multicast streams if a pre-set number of clients	Request you to consider unlimited unicast streams from recording server to client in case of multicast failure	As per RFP (whole system is on multicast network, in case of network failure it should automatically switch to unicast	1. ESSI Integrated Technologies Pvt. Ltd.



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		are requesting the same live view camera. The system shall have the capability to detect if the network becomes unreliable and to automatically switch to unicast to ensure that the operator is able to receive video.		network as per requirement for operator to view.)	
184.	4.8.2 C 6/239 (2)	The Monitoring UI shall support multiple display tile patterns (e.g. 1 display tile (1x1 matrix), 16 tiles (8x8 matrix), and multiple additional variations).	We understand matrix requirement (16 Tiles) is of Video Wall and on one display max 16 cameras to be viewed (Pg561: Video Viewing: Min. 16 Camera Flow View). Please confirm.	Kindly Refer Corrigendum	1. Honeywell Automation India Ltd. 2. Honeywell
185.	4.8.2 C 8/239 (3)	8- The Monitoring UI shall provide an interface to support the following tasks and activities common to Various systems. 9- Monitoring the events from a live security system 10- Generating reports, including custom reports. 11- Monitoring and acknowledging alarms.	1. Understand these are the requirements/functions shall be comply by ICCC client application. We recommend to remove these function from VMS and add the same in UC & C. 2. Understand these are the requirements/ functions shall be comply by ICCC client application. We recommend to remove these function from VMS for fair and open competition.	Kindly Refer Corrigendum	1. Larsen & Toubro Ltd 2. VMS and ICCC 3. Qognify
186.	4.8.2 C 14/240 (1)	14- The live video viewing capabilities of the Monitoring UI shall include: 15- The ability to display all cameras attached to the system both Public, Collaborative monitoring	1. Understand these are the requirements/functions shall be comply by ICCC client application. We recommend to remove these function from VMS for fair and open competition.	Kindly Refer Corrigendum	1. VMS and ICCC 2. L&T



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		and Cloud based entities. 16- The ability to drag and drop a camera into a display tile for live viewing.	2. Understand these are the requirements/functions shall be comply by ICCC client application. We recommend to remove these function from VMS and add the same in UC & C.		
187.	4.8.2 C 28/240 (1)	Tools for exporting video sequences in standard video formats, such as ASF, MP4	Such an open standard like .avi is missing and should be the added as a primary format.	As per RFP (Exported video shall support any open/standard video formats)	1. Verint Situational Intelligence Solutions
188.	4.8.2 D 1/241 (2)	Cyber Security requirement: The VMS shall support only secured media stream requests, unless explicitly configured otherwise. Secured media stream requests shall be secured with strong certificate-based authentication leveraging RTSPS (aka RTSP over TLS). Client authentication for media stream requests is claims-based and may use a limited lifetime security token.	We understand requirement can be met using Windows media format with .wmv extension or native format with .asf extension. Please confirm our understanding. We understand requirement can be met using Windows media format with .wmv extension or native format with .asf extension. Please confirm our understanding.	As per RFP (Yes)	1. Honeywell 2. Honeywell Automation India Ltd.
189.	4.8.2 D 13/241 (10)	The proposed VMS platform must have international recognized Certifications to prove the Cybersecurity standards adaption. Bidders to submit the certifications along with the technical bid.	1. The RFP asks for VAPT certification from the CERT-IN empanelled auditors. We believe the VAPT / Encryption / security certificate from CERT-IN empanelled auditors should be acceptable. Kindly confirm. 2. Kindly consider cyber security or GDPR compliant VMS which is also	Kindly Refer Corrigendum.	1. Matrix Security & Surveillance Pvt Ltd (1) 2. ESSI Integrated Technologies Pvt. Ltd. (2) 3. Videonetics Technologies Pvt Ltd. (1)



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			meant for data protection and data security 3. We hereby request you to please Amend this Clause as "The proposed VMS platform must have international recognized / Indian Recognized certifications to prove the Cybersecurity standards / Information Security System adaption. Bidders to submit the certifications along with the technical bid."		4. PruTech Solutions India Pvt. Ltd. 5. Tech Mahindra (1) 6. i2V Systems Pvt. Ltd (3) 7. Johnson Controls (3) 8. PruTech Solutions India Pvt. Ltd.(1) 9. Larsen & Toubro Ltd (1) 10. Bodhtree (1,3)
190.	4.8.2 D 2/241 (3)	2. The VMS shall offer the ability to encrypt the media stream, including video, audio, and metadata with authenticated encryption. Media stream encryption shall be done at rest and in transit and be a certificate-based AES 128-bit encryption.	128 bit encryption is very old and it is recommended to upgrade the same to 256 bit. Different OEMs have different ways of achieving this requirement. Please change to: Cyber Secuty requirement: The VMS shall offer the ability to encrypt the media stream, including video, audio, and metadata with authenticated encryption. Media stream encryption shall be done at rest and in transit and be a certificate-based AES 128-bit encryption / Digital Signature.	Kindly Refer Corrigendum	1. Verint Situational Intelligence Solutions 2. Honeywell Automation India Ltd. 3. Honeywell
191.	4.8.2 D 4/241 (8)	Cyber Security requirement: Provide up to 20 different certificates for different groups of users who have been granted access to decrypted streams.	This is OEM specific requirement. Please remove. Please elaborate, who will provide the certificate?	As per RFP (VMS OEM has to provide the digital certificates)	1. Honeywell Automation India Ltd. 2. Honeywell 3. Transline Technologies Pvt. Ltd. 4. VMS and ICCC



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					5. Sterlite Technologies Limited 6. Larsen & Toubro Ltd 7. INTEC INFONET PVT. LTD. 8. Marushika Technology Advisors Pvt. Ltd.
192.	4.8.2 D 5/241 (2)	Cyber Security requirement: Use Secure RTP (SRTP) to encrypt the payload of a media stream in transit and allow multicast and unicast of the encrypted stream.	We understand requirement can be met using Windows media format with .wmv extension or native format with .asf extension. Please confirm our understanding.	As per RFP (Yes)	1. Honeywell Automation India Ltd. 2. Honeywell
193.	4.8.2 D 9/241 (3)	Cyber Security requirement: The Application shall support digitally sign recorded video using 2048-bit RSA public/private key cryptography.	1. Different OEMs have different ways of achieving this requirement. Please change to: Cyber Security requirement: The Application shall support digitally sign recorded video using 2048-bit RSA public / private key cryptography / Digital Signature. 2. 2048-bit public/private key cryptography is proprietary and should be defined as per the guidelines of Indian IT security provisions.	Kindly Refer corrigendum	1. Honeywell Automation India Ltd. (1) 2. Verint Situational Intelligence Solutions (2) 3. Honeywell (1)
194.	4.8.2 F 1/242 (4)	The mobile app should a COTS based app from the VMS provider being made available from the day 1 and must be easily be	General: We understand to avoid duplicity in features, combination of ICCV/VMS/Other software can be considered to meet overall functional	Kindly Refer Corrigendum	1. Honeywell 2. Honeywell Automation India Ltd.



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		downloadable from IOS and Android stores online. b. Ability to display a geographic map with VMS entities geo-located on the map.	and technical requirements of Video management software, please confirm that our understanding is correct		
195.	4.8.2 G 1/243 (9)	Community surveillance camera connected via Public cloud network and further connected to the Command center UC & C platform and VMS module.	1. Please confirm the typo in the use of UC&C platform. This should have been VMS platform. The scope of community surveillance module is limited to the Edge Gateways mentioned in the BoQ (and further increase there of). Kindly confirm 2. Recommended the integration of existing/other cameras only with standard protocol. If any customization required, then it should be thoroughly discussed to evaluate the commercials and execution plan. Kindly suggest. 3. General: We understand to avoid duplicity in features, combination of ICCV/VMS/Other software can be considered to meet overall functional and technical requirements of Video management software, please confirm that our understanding is correct	As per RFP (Feeds can come through edge gateway, camera entry in VMS database and viewing through ICCV client.)	1. Matrix Security & Surveillance Pvt Ltd.(1) 2. Videonetics Technologies Pvt Ltd.(1) 3. PruTech Solutions India Pvt. Ltd.(1) 4. Presto Infosolutions Pvt. Ltd. (2) 5. Honeywell Automation India Ltd.(3) 6. Larsen & Toubro Ltd 7. Presto (2) 8. Honeywell (3) 9. Bodhtree
196.	4.8.2 G 2/243 (7)	The UC&C and VMS module must be flexible to adapt all the possible architectures outlined above and the operators must get a unified view of the CCTV feeds irrespective of the	1. Kindly correct the typo. The requirement is for the VMS system / platform and not the module of the UC & C platform. 2. General: We understand to avoid duplicity in features, combination	As per RFP (The operators must get a unified view of the CCTV feeds through UC&C platform of the community camera feeds which are extended to Police network. VMS system must be flexible to adapt above mentioned architecture.)	1. Videonetics Technologies Pvt Ltd. (1) 2. PruTech Solutions India Pvt. Ltd.(1)



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		architecture through which the community camera feeds are extended to Police	of ICCV/VMS/Other software can be considered to meet overall functional and technical requirements of Video management software, please confirm that our understanding is correct		3. Honeywell Automation India Ltd. (2) 4. Honeywell (2) 5. Larsen & Toubro Ltd (1) 6. Bodhtree (1) 7. Matrix Security & Surveillance Pvt Ltd (1)
197.	4.8.3 /243 (1)	20 of 656	As we understand the detection of the potential threat to women's safety, especially physical / sexual harassment targeting women has to be detected with the help of the analytics mentioned in the scope and the C4i system, whereas such requirement is not mentioned in the AI based Video analytics (4.8.3). Kindly clarify?	As per RFP (At the starting of the project, we have considered minimum Analytics, later we can add more VA into the system related to women safety as project proceeds. MSI is free to propose VA use cases about women's safety)	1. Larsen & Toubro Ltd
198.	4.8.3/243 (7)	There should be provision of 2 use cases (minimum) per camera.	The mentioned requirement is open ended. The scope of the supply of analytics is as per the BoQ. Is there any maximum value envisaged? Kindly confirm.	As per RFP (Clarification: We are taking 5000 VA licences considering 2 use cases per camera but we can change per camera use cases as per the requirement.)	1. Matrix Security & Surveillance Pvt Ltd 2. Videonetics Technologies Pvt Ltd. 3. PruTech Solutions India Pvt. Ltd. 4. Tech Mahindra 5. Sterlite Technologies Limited 6. Johnson Controls 7. Bodhtree
199.	4.4.8 vii/244 (2)	- Detection Rate (> 99%) - True Positive Rate + True Negative Rate (>95%) - False Positive Rate (<5%)	1. AI based Video Analytics use cases works on machine learning which enables the system to continuously learn & improvise it's output over	As per RFP (The MSI will be provided 90 days gestation period for initial training of the data sets)	1. vehant TECHNOLOGIES



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		False Negative Rate (<5%)	a period of time. Hence required accuracy levels are not possible at the beginning of the deployment & shall be removed. 2. AI based video analytics system is at developing stage currently and achieving different levels of maturity through continuous learning process based on various Machine Learning techniques. Achieving desired accuracy levels will not be possible practically by any software vendor/ OEM and can be achieved over a period of time. Hence, we request you to remove the desired accurate parameters from the scope in the RFP.		
200.	4.4.8 vii/244 (4)	vii. Performance Indicators for the Video Analytics:		As per RFP (The MSI will be provided 90 days gestation period for initial training of the data sets)	- Videonetics Technologies Pvt Ltd. - PruTech Solutions India Pvt. Ltd. - Matrix Security & Surveillance Pvt Ltd - Bodhtree
201.	4.8.4 i/244 (7)	Each of the video analytics use case shall be able to run on a unified video intelligence platform of the system. Where the platform shall have the capability to support several multi-vendor/OEM video analytics applications that can be deployed on any	The Video analytics is still in a nascent state. There are no standardizations in the industry and in India. There are no guidelines from the GoI for such cross platform standardizations. The clause is more of a theoretic clause than the practical use of it. Since Delhi Police is asking for an end to end delivery of analytics from one OEM, we request you to	As per RFP (The Unified Video Intelligence platform , Video analytics use cases including the FRS and ANPR applications can be from same or different OEM's and the VA use cases can be integrated with central application/Unified video Intelligence platform. However the delivery of all these use cases including FRS and ANPR shall be done from the same Unified Video	- Matrix Security & Surveillance Pvt Ltd (1) - Videonetics Technologies Pvt Ltd. (1) - PruTech Solutions India Pvt. Ltd. - Tech Mahindra (1)



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		camera or video-feed seamlessly.	kindly delete the requirement. 2. It can be understood from the various sections of the RFP that the unified Intelligence platform & video analytics use case can be from same or different OEM and the VA use cases can be integrated with central application/Unified video Intelligence platform using SDK/API. Please confirm. 3. This functionality of interoperability and multi-vendor, cross-system integration is done at the C4i level, whose prime functionality is to integrate multiple system & sub-systems and provide a holistic GUI of the complete system. Another layer of Video Analytics platform is not providing any value-addition and just benefitting few FOREIGN vendors and putting stress on public exchequer money at the cost of DOMESTIC vendors/ suppliers by flouting DIPP, MOHUA & MEITY guidelines. Hence, we request you to kindly remove the scope of multi-vendor/OEM video analytics applications support/ integration with "unified video intelligence platform" and include the same in C4i scope.	Intelligence platform without compromising and taking into consideration all the functional and technical requirements of the platform as mentioned in clause 4.8.4 page 244 onwards.)	5. vehant TECHNOLOGIES (2,3) 6. Bodhtree (1)



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202.	4.8.4 iv/244 (5)	iv. System will ingest Petabytes of Data in Storage Repository.....	As we understand, various requirements mentioned under this section are to be accomplished through various systems such as GIS, C4i and Video Analytics systems together and not through the Video Analytics alone. Kindly confirm if our understanding is correct.	As per RFP (Yes , the understanding is correct; This is the minimum usable storage requiremnet, however If there are any gaps in the calculation of storage size according to OEMs calculation VS actual storage as per SOR, the OEM must consider the appropriate space availabilty in concurrence with the bidder and the required/adequate storage shall be offered by the bidder.)	1. Matrix Security & Surveillance Pvt Ltd 2. Videonetics Technologies Pvt Ltd. 3. PruTech Solutions India Pvt. Ltd. 4. Tech Mahindra 5. Bodhtree
203.	4.8.4 KPI- Video Analytics/245 (5)	Video Analytics will be performed on metadata fields on a data lake of the envisaged system. The data will also be gathered from different datasets to be integrated. Big Data solution with its built Artificial Intelligence (AI) and Machine Learning (ML) a...	Requirements such as Predictive measures are envisaged to be accomplished through various systems running in tandem such as GIS, C4i and Video Analytics systems. Kindly confirm if our understanding is correct.	As per RFP	1. Matrix Security & Surveillance Pvt Ltd 2. Videonetics Technologies Pvt Ltd. 3. PruTech Solutions India Pvt. Ltd. 4. Tech Mahindra 5. Bodhtree
204.	4.8.4 a/245 (6)	Based on the trend evaluations for the defined area on the criminal and suspicious activities, predictive analyses should be performed for effective forecasting towards possible threat bearing activities towards Women and Children	It is not possible to detect or predict or forecast threats towards women and children through the use of People Detection alone. We request you to kindly reconsider the requirement. This can be accomplished through various systems such as GIS, C4i and Video Analytics.	As per RFP	1. Matrix Security & Surveillance Pvt Ltd 2. Videonetics Technologies Pvt Ltd. 3. PruTech Solutions India Pvt. Ltd. 4. Tech Mahindra 5. Johnson Controls 6. Bodhtree
205.	4.8.4 Vehicular analytics/246 (4)	Additional Suggestion	Kindly also mention the Speed Detection of the vehicles as this use case will not require any additional compute and would provide Delhi	As Per RFP (Minimum specifications are mentioned MSI is free to propose better)	1. Matrix Security & Surveillance Pvt Ltd



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			Police additional parameter to search a vehicle or enforce speed safety regulation by penalising the offenders. This would help in hit and run cases detection as well.		2. Videonetics Technologies Pvt Ltd. 3. PruTech Solutions India Pvt. Ltd. 4. Bodhtree
206.	4.8.4 a/246 (1)	4.1 Executive Summary d. Missing Number Plate Detection • The system should be able to detect if there is any vehicle in the camera view without a properly installed number plate or no number plate at all.	Please suggest, What's the use of detecting a Vehicle without No. plate? also, to detect such vehicles in real-time need video analytics will further load the processing power. Is this additional processing considered while factoring the no. of the server to process daily ANPR.	As per RFP (It is users requirement, and Compute is already considered.)	1. DAK Infosoft (P) Ltd
207.	4.8.4 a/246 (1)	Classify the vehicles in categories such as four-wheeler light and heavy motor vehicles, three wheelers, auto rickshaws and two wheelers. Detect colour of the vehicle (in day time)	Classification is a feature of ATCC and it should not be part of ANPR system. Hence we request to delete this.	As per RFP	1. EFKON India Pvt. Ltd
208.	4.8.4 a/246 (7)	Read and convert the license plate number into a text string of the vehicle with 95% detection accuracy.	Kindly confirm the OCR accuracy expectations from the detected number plates.	Kindly Refer Corrigendum	1. Matrix Security & Surveillance Pvt Ltd 2. Videonetics Technologies Pvt Ltd. 3. PruTech Solutions India Pvt. Ltd. 4. Tech Mahindra 5. Johnson Controls 6. Larsen & Toubro Ltd 7. Bodhtree



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209.	4.8.4 c/246 (6)	The analytics will ensure suspicious behaviour activity for women in isolation/ deserted area or possibly when traced surrounded by men in such identified places Also, the women raising and waving hand in such aforementioned situations will be tracked and	The use cases are not mentioned under the scope of the video analytics use cases. Kindly confirm if such use cases should be considered under the scope. If yes, what quantity to consider. Kindly confirm.	As per RFP (MSI can consider the requirement and propose the best available solution within the scope)	1. Matrix Security & Surveillance Pvt Ltd 2. Videonetics Technologies Pvt Ltd. 3. PruTech Solutions India Pvt. Ltd. 4. Tech Mahindra 5. Johnson Controls 6. Bodhtree
210.	4.8.4 d/246 (2)	The system should be able to detect if there is any vehicle in the camera view without a properly installed number plate or no number plate at all.	It is very difficult to define improperly installed number plates & Hence detect them. This feature is practically not possible to deploy & will unnecessarily increase the compute requirement multi fold without much usable information. Also as per CMVR (Central Motor Vehicle Rule), Alpha Numeric standard number plates shall only be used for marking various violations. Hence, it is our humble request to dilute this clause.	As Per RFP	1. vehant TECHNOLOGIES
211.	4.8.4 Health monitoring of Field Cameras and Network/247 (6)	View Obstruction, Camera Status, Camera connectivity, illumination, scene change.....	Most of the analytics are available on the camera by default and yield good results. We request you to consider these analytics on-camera. Delhi police would be able to use the compute for other functional use cases.	As Per RFP	1. Matrix Security & Surveillance Pvt Ltd 2. Videonetics Technologies Pvt Ltd. 3. PruTech Solutions India Pvt. Ltd. 4. Tech Mahindra 5. Johnson Controls 6. Bodhtree



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212.	4.8.4 Health monitoring of Field Cameras and Network/248 (1)	Event/Alarm Response Planning	1. The VMS shall have a rule-based engine with powerful analytics capabilities that provides the following actions as responses to events and behaviours, including events that occur on one site and responses triggered on another site: i. Automatic event notification. ii. Video distribution. iii. Process activation. 2. Event source(s) shall be of the following types: i. Dry contact – state: On or Off. ii. Motion Detection – state: Start or Stop. iii. Video Analog Signal Change – state: Signal Loss or Signal Detected. iv. Video Analytics Rule Violation – rule: Name or Face Recognition. v. Custom Event – allowing 3rd party devices to trigger events in the system. 3. Event Filters: i. Support for state change detection. 4. Event Attachment i. Support image snapshot from the video stream of an associated camera. Image snapshot can be sent via e-mail. 5. Triggering responses shall be addressed on the following: i. When an event occurs. ii. When two events occur within a specific time span. iii. When two identical and consecutive events occur without another specific event occurring between the two. iv. When one event occurs without	As per RFP	1. Verint Situational Intelligence Solutions



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			another event within a specific time span. 6. The automated responses to behaviours shall be: i. Trigger an alarm with 20 different alarm's priority, assigned to different users or monitors. ii. E-mail notification. iii. Assign a camera to a monitor. iv. Change output relay state. v. Call a camera preset. vi. Run a camera pattern. vii. Record on event. viii. Invoke an external application. ix. Generate Web feed item. 7. The system shall allow setting-up multiple triggering rules per event type. 8. The system shall allow setting up rules with complex triggering conditions, including multiple occurrences of an event within a timeframe, and dependencies between event occurrences. 9. The system shall allow the enabling or disabling of rules in real-time. 10. The system shall allow the creation of multiple actions to be executed in parallel when rule conditions are met. 11. The system shall enable the development of custom rule logic, and the implementation of this logic for alarm planning.		



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213.	4.8.4 Video Analytics (Use-Cases) Additional/248 (4)	Feature Addition	The detection of unattended object does not give actionable input unless coupled with finding out who left the object in the scene. We request Delhi Police to kindly consider the requirement to enhance the practicality of the use case.	As per RFP (MSI is free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP.)	1. Matrix Security & Surveillance Pvt Ltd Videonetics 2. Technologies Pvt Ltd. 3. PruTech Solutions India Pvt. Ltd. 4. Bodhtree
214.	4.8.4 Video Analytics (Use-Cases) Additional/248 (1)	Investigation management	1. Investigation Management capabilities shall include: i. The ability to create an investigation depending on access rights. ii. The ability to include the following attachment types in the investigation binder: a) Live and recorded video. b) Alarm video. c) External files. d) Still images. e) Video currently playing in the workspace. f) Existing investigations. iii. The ability to include explanatory notes in the investigation binder. iv. The ability to access and edit Investigations, depending on access right permissions. v. The ability to perform Investigation Management searches. vi. The ability to export Investigations and their attachments. 2. The VMS shall provide a default digital certificate for signing exported video clips. 3. The system shall allow protecting exported investigation by user selected	As per RFP	1. Verint Situational Intelligence Solutions



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			password. 4. The VMS shall export an image in Windows Bitmap format. 5. The VMS shall export an image in JPEG (Joint Photographic Experts Group) format.		
215.	4.8.4 Video Analytics (Use-Cases) Additional/248 (7)	It is envisaged to have a unique state-of-art multi-dimensional analytics solution for women and child safety in Delhi. The solution combines, Telecom CDRs, videos & facial.....	As we understand, this is a separate tool which also takes input from the Video Management and Video Analytics apart from other information sources. Kindly confirm if our understanding is correct.	Yes. (We can start with minimal which is asked and further will process as requirement arises as per project scope is concern, Video Analytics, FRS, CDR are different applications integrated at UC&C Platform as sub-systems)	1. Matrix Security & Surveillance Pvt Ltd. 2. Videonetics Technologies Pvt Ltd. 3. PruTech Solutions India Pvt. Ltd. 4. Tech Mahindra 5. Johnson Controls 6. Larsen & Toubro Ltd 7. Bodhtree
216.	4.8.4 Video Analytics (Use-Cases) Additional/248 (1)	Mobile Communication and notification to ICC.	i. The system shall allow automatic system-initiated dispatch requests. ii. The system shall allow manual operator-initiated dispatch requests on alarms. iii. The system shall report upon successful dispatch request. iv. The system shall allow the request of dispatch mission abort. v. The system shall update alarm records on all dispatch system reports, including dispatch ongoing status, responder allocation and ongoing mission-handling reports. vi. The system shall support responder-initiated alarms (e.g., panic alarm). vii. The system shall automatically close the dispatch mission upon closure from all responders and fulfillment of the dispatch rule.	As per RFP	1. Verint Situational Intelligence Solutions



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			viii. The system shall validate the completion of an active dispatch upon alarm acknowledgement. ix. The system shall allow the viewing of live and recorded stream video coming from responders.		
217.	4.8.4 Video Analytics (Use-Cases) Additional/248 (1)	Mobile Video Monitoring Application	1. The VMS mobile video monitoring application shall allow VMS users familiar capabilities, including: i. Live or playback video viewing (one of more cameras). ii. Camera selection using filters and favourites. iii. Digital zooming. iv. Alarm's notifications (from single or multiple sites). v. Badge count of alarm notifications.	As per RFP	1. Verint Situational Intelligence Solutions
218.	4.8.4 Video Analytics (Use-Cases) Additional/248 (1)	General query	1. Verint is a US based Software Company providing Video Management Software, Video Analytics, Command and Control Software (C4i) application. Our software is being used in multiple Safe City Projects in India including India's largest Safe City Project Mumbai, Pune, Surat etc. 2. We thought of providing pre-bid queries but the specifications for Video Management software and C4i application are brazenly favoring a single Original Equipment Software. We feel for such a big tender the specifications should have been	As per RFP	1. Verint Situational Intelligence Solutions



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			open but they seems to be biased in favor of a Company who doesn't even have an office in India. 3. We request you to please change the specifications so that other Software OEM's can participate in the tender. 4. We look forward to your response.		
219.	4.8.4 a/248 (1)	a. Call Detail Record (CDR)– On request Basis: This will cover the following features:	We understand this platform is already available and MSI of this project shall only be responsible for integration with this platform (ERSS/ Dial 112 application). Please confirm, id understanding is correct.	Kindly Refer Corrigendum	1. EFKON India Pvt. Ltd
220.	4.8.4 1/249 (6)	Each of the video analytics use case shall be able to run on a unified video intelligence platform. Where the system shall have the capability to support several multi-vendor/OEM video analytics applications that can be deployed on any camera or video-fee	1. The Video analytics is still in a nascent state. There are no standardizations in the industry and in India. There are no guidelines from the GoI for such cross-platform standardizations. The clause is more of a theoretic clause than the practical use of it. Since Delhi Police is asking for an end to end delivery of analytics from one OEM, we request you to kindly delete the requirement. 2. This functionality of interoperability and multi-vendor, cross-system integration is done at the C4i level, whose prime functionality is to integrate multiple system & sub-systems and provide a holistic GUI of the complete system. Another layer of Video Analytics platform is not	As per RFP (The Unified Video Intelligence platform , Video analytics use cases including the FRS and ANPR applications can be from same or different OEM's . However the delivery of all these use cases including FRS and ANPR shall be done from the same Unified Video Intelligence platform without compromising and taking into consideration all the functional and technical requirements of the platform as mentioned in clause 4.8.4 page 244 onwards.)	1. Matrix Security & Surveillance Pvt Ltd 2. Videonetics Technologies Pvt Ltd. 3. PruTech Solutions India Pvt. Ltd. 4. Tech Mahindra 5. Bodhtree 6. Vehant TECHNOLOGIES



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			providing any value-addition and just benefitting few FOREIGN vendors and putting stress on public exchequer money at the cost of DOMESTIC vendors/ suppliers by flouting DIPP, MOHUA & MEITY guidelines. Hence, we request you to kindly remove the scope of multi-vendor/OEM video analytics applications support/ integration with "unified video intelligence platform" and include the same in C4i scope. It can be understood from the various sections of the RFP that the unified Intelligence platform & video analytics use case can be from same or different OEM and the VA use cases can be integrated with central application/Unified video Intelligence platform using SDK/API. Please confirm.		
221.	4.8.4 13/253 (7)	13 Web based Interface The User interface of the system shall be a web interface that can be accessed from any system in the local area network with login credentials. It shall allow multiple users to log in at the same time, and receive real-time alerts and notifications.	1. The requirement is one OEM specific. We request you to kindly mention Web/System interface. There are many OEM solutions which provide VMS and VA as a unified product. Since there are many OEM solutions which provide VMS and VA as a unified product hence in order to ensure wider OEM participation, we request that the	Kindly Refer Corrigendum	1. Matrix Security & Surveillance Pvt Ltd (1) 2. Sterlite Technologies Limited (2) 3. Videonetics Technologies Pvt Ltd. (1) 4. PruTech Solutions India Pvt. Ltd.(1) 5. Tech Mahindra(1) 6. Johnson Controls (1) 7. Bodhtree (1)



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			clause is amended as follows: "Web/System based Interface: The User interface of the system shall be a web/system interface that can be accessed from any system in the local area network with login credentials. It shall allow multiple users to log in at the same time, and receive real-time alerts and notifications". 2. The requirement is one OEM specific. We request you to kindly mention Web/System interface. There are many OEM solutions which provide VMS and VA as a unified product.		
222.	4.8.4 15/253 (6)	The configuration page shall allow a user to choose any of the available AI models to detect and classify objects within the image. The description of the models shall clearly specify performance and hardware requirements of each of the model.	1. The requirement of object classification is not mentioned. Kindly remove the requirement.	Kindly Refer Corrigendum	1. Matrix Security & Surveillance Pvt Ltd 2. PruTech Solutions India Pvt. Ltd. 3. Tech Mahindra 4. Johnson Controls 5. Bodhtree 6. Videonetics Technologies Pvt Ltd.
223.	4.8.4 16/253 (6)	Once the camera is calibrated, each detected object should also be assigned real-world coordinates with respect to the Camera GPS coordinates. This functionality should be	We are not clear of using the real world coordinates with respect to the use cases mentioned in the RFP. Kindly clarify. Each detected object has geo-reference WRT the camera coordinates and the image also shows the visual endpoints on the marked object. This use case would require additional	As Per RFP (Camera calibration is the core requirement as mentioned in the RFP)	1. Matrix Security & Surveillance Pvt Ltd 2. Videonetics Technologies Pvt Ltd. 3. PruTech Solutions India Pvt. Ltd. 4. Tech Mahindra 5. Johnson Controls 6. Bodhtree



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		available for each camera added in the VA system	compute. We request you to kindly remove the requirement.		
224.	4.8.4 17/253 (6)	The configuration user interface shall allow adjusting various sensitivity and confidence parameters to adjust each video-analytics use-case's performance with respect to the physical deployment of the camera.	The best possible sensitivity should be auto-adjusted by the VA platform internally to provide the accurate results. Moreover, it is not possible to set such a setting for 2500 cameras for Delhi City.	As Per RFP	1. Matrix Security & Surveillance Pvt Ltd 2. Videonetics Technologies Pvt Ltd. 3. PruTech Solutions India Pvt. Ltd. 4. Tech Mahindra 5. Johnson Controls 6. Bodhtree
225.	4.8.4 28/257 (1)	Accuracy may be evaluated using following KPIs: a. Detection Rate (> 99%) b. True Positive Rate + True Negative Rate (>95%) c. False Positive Rate (<5%) d. False Negative Rate (<5%)	As video analytics technology, particularly the AI-based algorithms, requires training and learning on the field to improve accuracy, We request that a time-window of at least 4-5 months be provided as a improvement window for accuracy achievement	As per RFP (The MSI will be provided 90 days gestation period for initial training of the data sets.)	1. Awidit Systems Private Ltd (Awiros)
226.	4.8.4 28/257 (5)	Accuracy requirements.	The accuracy requirements mentioned are not practical expectations from day one. Each analytic accuracy expectations mentioned on Pages 210 and onward are more realistic. Kindly remove this requirement.	As per RFP (The detection / accuracy and false/true negative/positive rates are not expected from day one. It can be trained over the implementation and testing phase. The OEM needs to confirm the accuracy rate can be achievable from day one and the desired results can be achieved.)	1. Matrix Security & Surveillance Pvt Ltd 2. Videonetics Technologies Pvt Ltd. 3. PruTech Solutions India Pvt. Ltd. 4. Tech Mahindra 5. Bodhtree
227.	4.8.4 28/257 (6)	There should have feature to improve the accuracy overtime with further continuous learning and also based on the input received from the field officer's incident reports (captured	The requirement is not clear. Kindly elaborate the input from the Field Officer requirement.	As per RFP	1. Matrix Security & Surveillance Pvt Ltd 2. Videonetics Technologies Pvt Ltd. 3. PruTech Solutions India Pvt. Ltd. 4. Tech Mahindra



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		by the system and matrix generated through the system rather than the manual exercise) and improvement of AI models. The OEM should take this feedback and upgrade the algorithm to show accuracy improvement quarterly basis.			5. Larsen & Toubro Ltd 6. Bodhtree
228.	4.8.4 A 9/257 (1)	AI based Crowd Estimation and Management, Point 9; Heat Maps:- The CEM system shall have an option of generating real time heat maps of crowd density.	The GIS Engine should provide dynamic heat maps based on scale based resolution. As the scale changes the heat maps should be automatically updated. These maps should support Point density heat map, Weighted measure heat map types to make it more user friendly	As per RFP	1. Esri India Technologies Private Limited 2. Prakhar Software Solutions
229.	4.8.4 d 3/260 (8)	App Specification: Evaluation Parameters - This app should raise an alert if any pedestrian is Jay walking. - The app should provide zone wise data of both the pedestrian movements at zebra crossings and jay walking with a minimum of hourly granularity	1. The functionality use case is to detect the collapsed person. Whereas the description mentions Jaywalking detection. We believe this is a typo mistake since the Jaywalking detection use case is not part of the RFP scope. Kindly verify / confirm the requirement. 2. This appears to be a typographic error, as in the person collapsing use-case, the evaluation parameters seem to convey "Jaywalking detection". Request your clarification on the same.	Kindly Refer Corrigendum	1. Matrix Security & Surveillance Pvt Ltd (1) 2. Videonetics Technologies Pvt Ltd. (1) 3. PruTech Solutions India Pvt. Ltd.(1) 4. Tech Mahindra (1) 5. Sterlite Technologies Limited 6. Johnson Controls (1) 7. Awidit Systems Private Ltd (Awiros) 8. Bodhtree (1)
229 a	4.8.4 E/260	Intrusion detection	--	Kindly Refer Corrigendum:	--



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				Specification – AI Based Advance Intrusion Detection S.No. Key Description 1. App detection The app should be able to detect an act of intrusion. Intrusion herein refers to the instance of an individual crossing a pre-defined virtual fence defined by the user. 2. Configurable parameters The user should be able to configure the length and orientation of the virtual fence. She should also be able to define the direction in which crossing the line would be considered as intrusion.	
230.	4.8.5/260 (1)	Video Summarization and Analysis	1. While all video feeds can be summarized when required, a natural processing time would be required to do the synopsis processing for cameras. Please specify how many floating camera streams are required to be processed in real-time for Video Summarisation and Analysis. Only these camera stream would be summarized in real-time and synopsisized video available for review immediately on demand. For the remaining cameras, Video Synopsis processing would be done on need, and generally would	As per RFP (Video Summarization and Analysis is on demand activity and post event investigation purpose, So MSI can consider minimum 100 video cameras required to be process in real time and this can be reviewed and updated as per solution requirement.)	1. Mistral Solutions Pvt Ltd



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			require a processing time (this processing time would be dependent on the processing resources available) 2. Video Summarisation and Analysis would be used actively by users at C3i and C2i, please advise if one operator access to the Video Summarisation Server at each location of C3i and C2i would suffice.		
231.	4.8.5 4/261 (1)	Shall support Video File exports from all kind of 3rd Party VMS and even the video files recorded from a Mobile Or any other kind of Analog Camera.	Please note, best results are guaranteed for videos files with stable backgrounds.	As per RFP	1. Mistral Solutions Pvt Ltd
232.	4.8.5 11/262 (7)	11. Shall provide a web-browser (Preferably Google Chrome) interface to upload the video files, generate the Summarization & for the management of multiple investigation cases	1. Every OEM has different way of achieving the functional use case. The mentioned requirements are too specific and may apply to a single OEM. We request you to kindly relax / restructure the requirement to make it generic. 2. Every OEM has different way of achieving the functional use case. The mentioned requirements are too specific and may apply to a single OEM. We request you to kindly modify the clause as "web/system interface".	Kindly Refer Corrigendum	1. Matrix Security & Surveillance Pvt Ltd 2. Sterlite Technologies Limited 3. Videonetics Technologies Pvt Ltd. 4. PruTech Solutions India Pvt. Ltd. 5. Tech Mahindra 6. Johnson Controls 7. Bodhtree 8. Sterlite Technologies Limited
233.	4.8.6 ii/263 (9)	ii. There will be 370 cameras across all the cameras	1. We hope the Client understands that the camera mounting	Kindly Refer Corrigendum	1. Matrix Security & Surveillance Pvt Ltd (1)



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		identified for FRS application at any point of time. The licenses/ channels acquired for FRS application will be used to randomly select any camera out of 6121 cameras (for Video Analytics) to run FRS limited to 2 cameras per Police Station (370 Nos.) cameras simultaneously.	requirement for FRS as mentioned in the subsequent clauses need to be considered while selecting the cameras for FRS deployment in a random / floating manner. 2. We understand that the videos provided by the department will be as per below mentioned prerequisite for smooth functioning of work i.e. Resolution - 720p; Height - around 6-10 ft; angle - +30 to -30; IOD - 30-40 pixels; FPS - 20; moderate light conditions, etc. 3. While floating licenses can be provided to reuse any of the selected cameras - when selecting / using a camera for Facial Recognition the field of view needs to focus on the faces – to capture the minimum recommended number of pixels on the face to be optimal for facial feature extraction. Suggest this note to be added here by changing this to: “There will be 370 cameras across all the cameras identified for FRS application at any point of time. The licenses/ channels acquired for FRS application will be used to randomly select any camera out of 6121 cameras (for Video Analytics) to run FRS limited to 2 cameras per Police Station (370 Nos.) cameras simultaneously by appropriate changes in field of		2. Videonetics Technologies Pvt Ltd. (1) 3. PruTech Solutions India Pvt. Ltd. 4. Tech Mahindra (1) 5. Johnson Controls (1) 6. IDEMIA (2) 7. AnyVision (3) 8. PruTech Solutions India Pvt. Ltd.(1) 9. Bodhtree (1)



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			view of these cameras as desired for facial recognition."		
234.	4.8.6 iii(3)/263 (3)	Alone female /child present in a frame. Identified suspects or victim's identity can be searched through Enterprise search, and fed to social media analytics/CDR analytics for cross domain analytics	1. We request the department to We request the department to kindly elaborate on the said requirement " fed to social media analytics/CDR analytics for cross domain analytics" 2. This requirement is related to social media analytics and not facial recognition. Within facial recognition this can be drafted as below: "The facial recognition software shall allow suspects photos to be enrolled from various sources including social media for live alerting and forensic search" Request to amend appropriately..	Kindly Refer Corrigendum	1. PruTech Solutions India Pvt. Ltd. 2. IDEMIA (1) 3. AnyVision (2)
234 a	4.8.6 iii(2)/263 (1)	The solution will have many built in algorithms like detecting crowd movement in a particular direction, presence or absence in a frame alert, tracking movement of target/suspect or victim across multiple camera locations and raising alert.	Crowd detection, direction of movement are all special video analytics and not a part of Facial recognition. Suggest this to be removed from this section by changing this to: "The solution will have many built in algorithms presence in a frame alert, tracking movement of target/suspect or victim across multiple camera locations and raising alert"	Kindly Refer Corrigendum	1. AnyVision
235.	4.8.6 ii/264 (2)	FRS should be able to • integrate with CCTNS & other databases, • integrate with watch list • search on-line and off-line in video and images	For FRS integration, pl clarify how many database needs to be integrated.	As per RFP (Any database that provides facial picture shall be integrated with FRS)	1. PruTech Solutions India Pvt. Ltd. 2. IDEMIA



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236.	4.8.6 3/265 (7)	Simultaneous detection of multiple faces in crowd: All vendors will be provided with a crowded video and outcomes will be recorded.	Kindly clarify when the evaluation committee will provide the videos? Kindly also explain the size of the video and the format for the video.	C-DAC may provide the videos at the time of PoC. But MSI can also bring their own dataset.	1. Matrix Security & Surveillance Pvt Ltd 2. Sterlite Technologies Limited 3. Johnson Controls 4. Videonetics Technologies Pvt Ltd. 5. PruTech Solutions India Pvt. Ltd. 6. Tech Mahindra 7. Bodhtree
237.	4.8.6 iii 10/265 (2)	Privacy as per GDPR compliance	Kindly elaborate more details specific to Indian law.	As per RFP (The requirement is self-explanatory. Kindly refer the RFP document in detail.)	1. PruTech Solutions India Pvt. Ltd. 2. IDEMIA
238.	4.8.6 iii 12/265 (1)	KPI- Facial Recognition System Other essential KPIs: 12 Integration with any sensor	1. Pl confirm the type of sensors for Integration? 2. FRS is not UC&C platform and it will be only interfacing with only video cameras to process and detect Face. Hence request you to remove this specification.	As per RFP (Here, we are referring integration with Cameras only)	1. PruTech Solutions India Pvt. Ltd.(1) 2. IDEMIA(1) 3. NEC Corporation India Pvt. Ltd.(2)
239.	4.8.6 iii 9/265 (2)	Multiple detections to be collated using intuitive methods	Request you to kindly elaborate on the said requirement.	As per RFP	1. PruTech Solutions India Pvt. Ltd. 2. IDEMIA
240.	4.8.6 4/266 (9)	The system shall be able work to detect more than 20 faces in crowd on moderate face rotation either horizontal or vertical. It should support a yaw angle of -40 to +40 degrees, a pitch angle of -30 to +30 degrees and a roll angle of -30 to +30 degrees.	1. There is discrepancy in this clause and the evaluation parameter mentioned in the PoC script. The PoC script mentions "Recognition of Full-Face from varying angles." on page 143. Kindly confirm which specification to consider? And kindly modify the requirements. 2. Request you to consider "The system shall have the provision to	As Per RFP	1. Matrix Security & Surveillance Pvt Ltd (1) 2. Sterlite Technologies Limited (1) 3. Johnson Controls (1) 4. Videonetics Technologies Pvt Ltd. (1) 5. PruTech Solutions India Pvt. Ltd.(1) 6. Tech Mahindra (1)



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			take multiple samples of same face belonging to same person and simultaneously detect a minimum of 5 faces in any given frame in real time". Justification: As per FRS camera deployment, the camera has to focused to particular zone to achieve min. pixels required between eyes of people. With this setup, it will be hardly 5 people will be seen in a frame.		7. NEC Corporation India Pvt. Ltd. (2) 8. Larsen & Toubro Ltd (1) 9. Bodhtree (1)
241.	4.8.6 5/266 (2)	Detection of partial faces The FRS shall recognize partial faces with varying angles from multiple videos simultaneously from Video clips, Group Photographs and VMS Playback directly from FRS Client Interface. FRS shall be able to process uploaded pre-rec.....	We understand that FRS needs to only detect partial faces and not perform any recognition. Pl clarify.	As per RFP (The FRS shall recognize partial faces with varying angles from multiple videos as per specifications mentioned in the RFP)	1. PruTech Solutions India Pvt. Ltd. 2. IDEMIA
242.	4.8.6 6/266 (1)	The system shall be able to add photographs obtained from law enforcement agencies to the criminals' repositories tagged for sex, age, scars, tattoos etc. for future searches.	The system shall be able to add photographs obtained from law enforcement agencies to the criminals' repositories tagged for sex, age, ~~scars,~~ ~~tattoos etc.~~ for future searches. We request you to kindly amend the clause.	Kindly refer corrigendum.	1. IDEMIA
243.	4.8.6 13/267 (2)	Categories of database faces The system shall have capacity to create different categories of people with option to customize the matching threshold for different categories	Pl explain the categories of faces in database.	As per RFP	1. PruTech Solutions India Pvt. Ltd. 2. IDEMIA



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244.	4.8.6 14/267 (1)	4.8.5.3 FRS- Technical Requirements and Compliance Sheet for MSI (to provide compliance report with the bid) 14. Full HD Support - The system shall be able to work on full HD Camera video with maximum performance.	The project is asking to run FRS on 4MP cameras so please change this permitter from FULL HD to at least 4MP.	Kindly Refer Corrigendum	1. DAK Infosoft (P) Ltd
245.	4.8.6 16/267 (3)	16. OS Support: The FRS algorithm should be able to use proven open source tools and technologies like Linux to bring down the total cost of ownership of the solution. FRS running on any other OS should be supplied with Pre-Licensed Server based latest version OS like Microsoft Server 2016 and Microsoft SQL as needed by the application	1. World's top professional FRS algorithms run on Windows so please change it to Windows / Linux 2. As there has been very little Opensource required in this bid as most of the product from OS & virtualization technologies are called for are proprietary vendors. Request to make them open	As per RFP	1. DAK Infosoft (P) Ltd (1) 2. PruTech Solutions India Pvt. Ltd(2). 3. Bodhtree (2)
246.	4.8.6 18/268 (4)	Sr. No. 18: Algorithm Benchmarking The Vendor should have any performance benchmarking certificate. NIST certificate will be preferred.	This Clause is Restrictive & OEM Specific. We Hereby you to please Waive off this Clause in view of Max. OEM Participation. This shall also ensure that Adequate Competition & Level Playing field.	As per RFP	1. PruTech Solutions India Pvt. Ltd. 2. i2V Systems Pvt. Ltd 3. Johnson Controls 4. Bodhtree
247.	4.8.6 19/268 (1)	19. Performance: The system must perform a full 1: N search of the probe image in under 5 seconds against a database of up to 50 mn face records.	As per the latest NIST report of 1:N, most of the leading FRS algorithms can identify people with a speed of 50 Million in 01 seconds. So please update the specs.	As per RFP (Minimum is asked, MSI can quote above and ask)	1. DAK Infosoft (P) Ltd



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248.	4.8.6 20/268 (1)	20. Mobile Application Support FRS Software vendor shall have mobile application of the same FRS software to support iOS and android based smart field devices. Mobile application shall be capturing the face of suspect in field and sending back to the FRS	Handling & Streaming video is part of the VMS system. also what's the benefit of streaming from FRS mobile app if the streaming video cannot be recorded by VMS system.	As Per RFP (VMS and FRS are part of solution together, which should work together.)	1. DAK Infosoft (P) Ltd
249.	4.8.6 22/268 (1)	Simple Search UI that facilitates quick and easy access to the collection of events recorded by the system without the constant monitoring by operators and must perform a full 1: N search of the probe image in under 2 seconds against a database of up to 5-8 Million POIs	1. We understand that 5-8 million POI (watch list) will be considered for manual face verification request. Please confirm. 2. Please share the Real time watch database size for live video surveillance. In general, real time watch list database up to 20K. Request you to accept up to 20K for real time watch list for live video streaming process.	Kindly Refer Corrigendum	1. NEC Corporation India Pvt. Ltd.
250.	4.8.6 27/269 (2)	SDK/API for integration FRS shall provide an SDK/API for integration with any third-party software like C4I (Command, Control Communication & Compute Center). API must be available with a full set of documentation of each method with accompanying sample c code. All FRS function shall be fully accessible via API.	What all functionalities are required to provide through APIs? Kindly elaborate.	As per RFP (Integration with PIU or anyother software where face recognition required in the solution and Functionalities mentioned in clause no 4.8.6 (FRS) 22 and 23 of the RFP on page number 268,269)	1. PruTech Solutions India Pvt. Ltd. 2. IDEMIA



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251.	4.8.6 28/269 (2)	28. Video Alert FRS shall be able to play a short video clip of the moment of face detection without dependency on VMS which can be downloaded/exported/saved for evidence proof	Recording & storing tagged videos is the feature of the VMS system. Recording task will impact on FRS system resource requirement. So please remove this functional requirement from FRS section. As the storage of Video clips independent of the VMS may require additional storage which may be significant given the scale of the requirement. We request exact input on how many alerts/storages shall be provisioned for storing the video clips. Also, please specify the duration of the clip to be stored.	Kindly Refer Corrigendum	1. DAK Infosoft (P) Ltd 2. Awidit Systems Private Ltd (Awiros)
252.	4.8.6 31/270 (2)	Minimum hardware support FRS Application Engine must be able to run a minimum of 20 FRS Camera Channels per Server. (Server with 128 GB RAM, 3 NVIDIA Tesla T4 card with 40 cores.) Other optimized and better sizing shall be accepted	We understand that every OEM has a unique way of sizing the servers for number of cameras involved. Providing a cap on server configuration/quantity will not provide a level playing field for all the OEM's. The goal should be to achieve high performance and high accuracy, so we request the department to remove this clause.	Kindly Refer Corrigendum	1. PruTech Solutions India Pvt. Ltd. 2. IDEMIA
253.	4.8.7/270 (2)	The ANPR system should work on 95% accuracy parameters for capturing and 90% accuracy of OCR on the standard fonts.	Different accuracy for ANPR camera is mentioned in RFP at different locations. Kindly make it universal as 90% in all respective sections.	Kindly Refer Corrigendum	1. vehant TECHNOLOGIES
254.	4.8.7/270 (2)	The System shall store JPEG image of vehicle and license plate and enter the license	OEM of ANPR SW utilize various databases available other than PostgreSQL. Kindly allow the choice of	Kindly Refer Corrigendum	1. Awidit Systems Private Ltd (Awiros) 2. Tech Mahindra



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		plate number into PostgreSQL database along with date time stamp and site location details.	database as per the solution architecture requirements of the respective OEM's		
255.	4.8.7/270 (4)	vii. The system shall be able to process and read number plates of vehicles with speed up to 120 km/hr. or above.	We request you to kindly consider Speed detection for each ANPR camera which will give additional parameter for Delhi Police for investigation and speed enforcement	As per RFP	1. Videonetics Technologies Pvt Ltd. 2. PruTech Solutions India Pvt. Ltd. 3. Bodhtree 4. Matrix Security & Surveillance Pvt Ltd
256.	4.8.7. 16/272 (7)	The ANPR Platform shall be an IP enabled solution. All communication between the SSM and ANPR Platform shall be based on standard TCP/IP protocol and shall use TLS encryption with digital certificates to secure the communication channel.	Kindly clarify what is the meaning of SSM	Kindly Refer Corrigendum	1. Videonetics Technologies Pvt Ltd 2. PruTech Solutions India Pvt. Ltd. 3. Tech Mahindra 4. Sterlite Technologies Limited 5. Matrix Security & Surveillance Pvt Ltd 6. Larsen & Toubro Ltd 7. Bodhtree
257.	4.8.7. 32/273 (6)	ANPR Platform should integrate with Vaahan Database via C4I.	Kindly clarify. As we understand, the requirement can be accomplished through ANPR software or C4i software. Kindly clarify.	As Per RFP(Vahan & sarathi DB are integrated through DB integration & ANPR Platform)	1. Videonetics Technologies Pvt Ltd. 2. PruTech Solutions India Pvt. Ltd. 3. Tech Mahindra 4. Sterlite Technologies Limited 5. Matrix Security & Surveillance Pvt Ltd 6. Bodhtree
258.	4.8.7. 33/273 (9)	ANPR should have at least 1 Deployment in India in any Law Enforcement Project.	1. Kindly remove this clause from here and mention the same under the OEM PQ criteria. It contradicts	Kindly refer corrigendum.	1. Videonetics Technologies Pvt Ltd. (1) 2. PruTech Solutions India Pvt. Ltd.(1)



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		Necessary Document evidence to be provided	with the OEM PQ criteria mentioned. 2. The Pre Qualification of ANPR OEM has already been mentioned in the Para no 2.1.8 , E Sr No 11. Kindly clarify if the one mention in the Para no 2.1.8 has to be followed		3. Tech Mahindra (1,2) 4. Sterlite Technologies Limited (1) 5. Johnson Controls (1) 6. Awidit Systems Private Ltd (Awiros) (2) 7. Tech Mahindra (1,2) 8. Matrix Security & Surveillance Pvt Ltd (1) 9. Bodhtree (1)
259.	4.8.7. 34/273 (1)	Vehicle Search: Shall have an option to search vehicles by a. vehicle colour b. vehicle colour +license plate c. vehicle make and type d. date & time e. location f. type of Vehicle	ANPR cameras are meant to detect the number plates of the vehicles and these cameras are supposed to zoomed to capture the vehicle number plate. Hence detection od some of the features is not feasible with ANPR cameras. Hence we request to amend the clause as below: Vehicle Search: Shall have an option to search vehicles by a. vehicle colour b. vehicle number plate colour +license plate c. vehicle make and type d. date & time e. location f. type of Vehicle	As per RFP	1. EFKON India Pvt. Ltd
260.	4.8.8/274 (7)	General Query	We are not clear about the objective of the PIU. Kindly confirm what will be achieved through PIU? Various requirements of PIU overlap with the video analytics requirements. Objective of the PIU is not clear. Various requirements of PIU overlap with the video analytics requirements. Kindly confirm what will be achieved	The functional and technical requirements to be delivered out of PIU are clearly defined in the RFP. It can be achieved through inputs from integrated Databases, VA, FRS, Video Summarization etc.	2. Tech Mahindra 3. Sterlite Technologies Limited 4. Matrix Security & Surveillance Pvt Ltd 5. Videonetics Technologies Pvt Ltd. 6. PruTech Solutions India Pvt. Ltd.



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			through PIU? Or it is a part of video analytics.		7. Bodhtree
261.	4.8.8 c/274 (1)	c. Match a suspected Criminal face with Video Feeds of specific camera locations or with the feed received from private or other public organization's video feeds.	As per specifications, it is mentioned with FRS & VA capabilities, Please share the following inputs to size PIU hardware and commercials, 1. Number of FRS camera licenses 2. Number of VA licenses	As per RFP (MSI needs to consider the licenses)	1. NEC Corporation India Pvt. Ltd.
262.	4.8.8 d/274 (8)	d. Whenever there is a requirement at any of the Police team to check the identity of an individual, Police Station would make such a request to PIU, who in turn would search the databases available with it to match the individual. Such databases would either be accessed through web services or in a downloaded manner. Full audit trail of reports and data provided will be maintained.	Kindly confirm if the process of finding the suspect automatic or manual? Will there be an operator who would receive the request and perform the search against the databases?	As per RFP	1. Videonetics Technologies Pvt Ltd. 2. PruTech Solutions India Pvt. Ltd. 3. Tech Mahindra 4. Sterlite Technologies Limited 5. Johnson Controls 6. Matrix Security & Surveillance Pvt Ltd 7. Larsen & Toubro Ltd 8. Bodhtree
263.	4.8.8. B 2/279 (1)	B Experts in PIU Team 01 Facial Recognition Analyst (with min. 1 year of relevant experience) 01 video Analytic Analyst (with min. 1 year of experience in video analytics (other than facial recognition) 01 IT Forensic Expert (with min. 2 years of experi	Please clarify in which line item of BOQ this cost needs to be considered as we didn't see the Expert resource requirement in BOQ.	The technical manpower is already mentioned in RFP.	1. NEC Corporation India Pvt. Ltd.
264.	4.8.9/280 (1)	Geographical Information System (GIS)->Functional	Please provide detailed information of GIS maps to be provided by C-DAC such	As per RFP	1. Scanpoint Geomatics Ltd



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		Requirements & KPIs The GIS maps will be provided by C-DAC being used by team of ERSS 112 project.	as layers, no. of layer, type of attribute information, etc. and information about the image data if any. This would help us to estimate effort required for one time data migration/integration.		
265.	4.8.9/281 (10)	Different Layers for Camera Pole & Heights and other parameters need to be added as per safe city requirement in current updation. Different layers, which are proposed to be covered under GIS are as follows: a. CCTV Cameras b. Movement/Location of Prakhar	1. It is assumed as these different layers shall be made available by the department for updation on the GIS base map, no scope for fresh survey on ground. If fresh survey is required pls provide the Area of interest, nonspatial information to the collected for each layer. Kindly clarify. 2. These different layers shall be made available by the department for updation on the GIS base map or need to be freshly surveyed on ground. Kindly clarify.	As per RFP (The list of layers is indicative. More layers shall be provided MSI as per project requirement).	1. SCS TECH INDIA PVT. LTD. (2) 2. Transline Technologies Pvt. Ltd. (2) 3. Techspire Services Pvt. Ltd. (2) 4. NEC Corporation India Pvt. Ltd. (2) 5. Larsen & Toubro Ltd (1) 6. INTEC INFONET PVT. LTD. (2) 7. Samsung SDS India Pvt Ltd. (2) 8. Online Micro Services Private Limited (2) 9. Marushika Technology Advisors Pvt. Ltd. (2) 10. Scanpoint Geomatics Ltd
266.	4.8.9 a/281 (2)	281- Web GIS, a; It shall provide complete view of CCTV, facilities, and alarms in an easy-to-use and intuitive GIS-enabled graphical interface with a powerful workflow and business logic engine.	Alarm raised should be alert based, as per user roles and responsibilities and can be not only send on software but should be updated as SMS, Email etc. Alarm raised should be alert based, as per user roles and responsibilities and can be not only send on software but should be updated as SMS, Email etc.	As per RFP	1. Esri India Technologies Private Limited 2. Prakhar Software Solutions
267.	4.8.9 b/281 (1)	Web based GIS application features b. The map will define the boundaries of the jurisdiction limits of	It is assumed that boundary of the jurisdiction limits of respective police Stations and District Headquarters would be provided by C-DAC as a part of base map to achieve this functionality	As per RFP (yes)	1. Scanpoint Geomatics Ltd



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		respective police Stations and District Headquarters.	in Web based GIS application. Please confirm if our understanding is correct.		
268.	4.8.9 e/281 (2)	281- Web GIS, e; The system shall integrate with GIS and map information and be able to dynamically update information on the GIS maps to show status of resources.	The real time updates can be available as GPS, Web Services, SOAP Based Services or any other regular services. Software should support all these feeds as configuration rather than writing code to create new connection and update logics	As Per RFP	1. Esri India Technologies Private Limited 2. Prakhar Software Solutions
269.	4.8.9 1/282 (10)	Should be capable of maintaining data history, version management and conflict detection.	Since the web based enterprise GIS solution will be used for an operational / tectical picture by the officers / personnel on the field. It is requested that this functionality should be moved to desktop GIS with in control room. It is submitted it is a Desktop- GIS feature which needs to be deployed at the control room only at the central location. The web GIS will not be requiring these features. This will facilitate non- restrictive requirement.	As Per RFP (The functionality may be provided on Web based/ Desktop based system)	1. Hexagon SCS TECH INDIA PVT. LTD. 2. Marushika Technology 3. Advisors Pvt. Ltd. 4. Transline Technologies Pvt. Ltd. 5. Techspire Services Pvt. Ltd. 6. NEC Corporation India Pvt. Ltd. 7. Larsen & Toubro Ltd 8. INTEC INFONET PVT. LTD. 9. Samsung SDS India Pvt Ltd. 10. Online Micro Services Private Limited
270.	4.8.9 2/282 (9)	Should support database check in – check out / replication functionalities hence maintaining the parent child relationship of Master Database.	We assume this requirement is for Field users who are going to access the maps for online and offline. Kindly confirm.	As per RFP (Yes)	1. Transline Technologies Pvt. Ltd. 2. Techspire Services Pvt. Ltd. 3. Larsen & Toubro Ltd 4. Marushika Technology Advisors Pvt. Ltd. 5. SCS TECH INDIA PVT. LTD. 6. NEC Corporation India Pvt. Ltd.



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					7. INTEC INFONET PVT. LTD. 8. Samsung SDS India Pvt Ltd. 9. Online Micro Services Private Limited
271.	4.8.9 Enterprise GIS Software 3/282 (10)	Software should have inbuilt utility for checking availability of server software updates/patches	Since the custom developed functionalities are also part of software deployment and are dependent on build & version of the COTS software. Hence, if software gets updated automatically, the custom developed functionalities may hamper. Hence we request to rephrase this as: "MSI should provide the latest updates/patches whenever released by the OEM."	Kindly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. Hexagon 3. SCS TECH INDIA PVT. LTD. 4. Transline Technologies Pvt. Ltd. 5. Techspire Services Pvt. Ltd. 6. NEC Corporation India Pvt. Ltd. 7. Larsen & Toubro Ltd 8. INTEC INFONET PVT. LTD. 9. Samsung SDS India Pvt Ltd. 10. Online Micro Services Private Limited
272.	4.8.9 Enterprise GIS Software 4/282 (9)	4. Software should support Geo-data service and Geometry service	Please elaborate Geo-data & Geometry services. We assume that Geo-data & Geometry services are like an OGC compliant services which is interoperable. Kindly confirm.	As Per RFP (Yes, It should be OGC compliant)	1. Transline Technologies Pvt. Ltd. 2. Techspire Services Pvt. Ltd. 3. NEC Corporation India Pvt. Ltd. 4. Larsen & Toubro Ltd 5. Marushika Technology Advisors Pvt. Ltd. 6. Samsung SDS India Pvt Ltd. 7. SCS TECH INDIA PVT. LTD. 8. INTEC INFONET PVT. LTD. 9. Online Micro Services Private Limited



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273.	4.8.9 aa/282 (1)	Web based GIS application features aa. Multiple User Access – Allows multiple users to access the system with their unique user ids and passwords.	Please provide the number of users /Concurrent users for the GIS based web application to estimate the server sizing.	As per RFP (Sizing can be done as per the project requirement mentioned in the RFP)	1. Scanpoint Geomatics Ltd
274.	4.8.9 dd/282 (2)	282, dd. Shall allow show/hide different layers on GIS map as per need. i.e. If user wants to see only camera layer and hospital layer on base google map to see nearest hospital where incident happen.	GIS Engine solution in consideration should provide nearest POI with drive time distance as per present state of road conditions including live traffic, width of road, u-turns and more.	As per RFP	1. Esri India Technologies Private Limited 2. Prakhar Software Solutions
275.	4.8.9 u/282 (2)	282, Web GIS, u; Map Navigation: The application shall have a seamless navigation over the digitalized map	Should map interface also support 3D as it is important for policing to view data in 3D prospective and should be able to do geo-spatial 3d analytics	As Per RFP	1. Esri India Technologies Private Limited 2. Prakhar Software Solutions
276.	4.8.9 12/283 (9)	12. The application should provide an out-of-the-box, configurable mobile application that allows dynamic query and update server data remotely. The mobile application should be able to integrate with GPS devices.	Mobile application shall allow dynamic layer updation and query from server while working remotely. Is our understanding correct? Kindly confirm.	Kindly Refer Corrigendum	1. SCS TECH INDIA PVT. LTD. 2. Transline Technologies Pvt. Ltd. 3. Techspire Services Pvt. Ltd. 4. NEC Corporation India Pvt. Ltd. 5. Larsen & Toubro Ltd 6. INTEC INFONET PVT. LTD. 7. Samsung SDS India Pvt Ltd. 8. Online Micro Services Private Limited 9. Marushika Technology Advisors Pvt. Ltd.



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277.	4.8.9 16/283 (1)	The software should record various usage statistics for items, users and groups, and reports this in activity dashboards and access / usage reports to administrators and or select users.	Since this requirement is asking for reports which is not defined, hence request to allow this functional need to be met through customisation as well to ensure that it is delivered in line with user need rather than what is available in product.	As Per RFP (Any required customization to meet the functional requirement shall be made available by the MSI in the proposed ICCC solution)	1. Scanpoint Geomatics Ltd
278.	4.8.9 9/283 (9)	9. It should provide access to free Online 2D, 3D, Street, Base map, imagery Services for location reference.	We understand that all free online maps which needs to be accessed are OGC compliant. Kindly confirm.	As per RFP (Yes "all free online maps which needs to be accessed shall be OGC compliant")	1. Marushika Technology Advisors Pvt. Ltd. 2. OSGS TECH INDIA PVT. LTD. 3. Transline Technologies Pvt. Ltd. 4. Techspire Services Pvt. Ltd. 5. NEC Corporation India Pvt. Ltd. 6. Larsen & Toubro Ltd 7. INTEC INFONET PVT. LTD. 8. Samsung SDS India Pvt Ltd. 9. Online Micro Services Private Limited
279.	4.8.9 20/284 (10)	Software allows Users to sign in with built-in accounts and accounts managed in multiple SAML-compliant identity providers configured to trust one another to manage users that may reside within or outside your organization	1. MSI should be allowed to implement the single sign on for the overall system not limiting to SAML. 2. MSI should be given a choice / freedom to implement the best suitable security solution for the overall system rather than restricting to SAML.	Kindly Refer Corrigendum	1. Hexagon (1) 2. SCS TECH INDIA PVT. LTD. (2) 3. Transline Technologies Pvt. Ltd. (2) 4. Techspire Services Pvt. Ltd. (2) 5. NEC Corporation India Pvt. Ltd. (1) 6. Larsen & Toubro Ltd (1) 7. INTEC INFONET PVT. LTD. (2)



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					8. Samsung SDS India Pvt Ltd. (1) 9. Online Micro Services Private Limited (1) 10. Marushika Technology Advisors Pvt. Ltd. (2)
280.	4.8.9 24/284 (1)	Should support multiple number of Editing and viewing by desktop, web browser and mobile clients.	Multiple Editing in Desktop and Mobile client is not used generally as these devices are used by one user at a time. This specification would be restrictive for participation. Hence we request you to remove this requirement.	Kindly Refer Corrigendum	1. Scanpoint Geomatics Ltd
281.	4.8.9 26/284 (10)	Should have Web Editing Application Functionalities like simultaneous Feature editing, isolated editing in separate versions, Undo/Redo operations, snapping by layer, snapping to new geometry, settable snapping, modify, merge, split operations, specify an Exact X,Y location, modify and create attribute values, maintain attribute values through defined rules (Domain) etc.	1. Data creation / updation is an feature intensive work that should not be handled by tactical/ operational officers using Browsers, it is requested to move this editing functionalities into a Desktop software (trained professional) with in the control room Operations. the Field officers shall collect any missing information and share using redlining feature with out hampering the master data. Upon verification and handling different versions in the control room desktop software, the final updated master data shall be served in to the browser for tactical/ operational use. It is requested that this functionality should be moved to desktop GIS with in control room. 2. Since the web based enterprise GIS solution will be used for an	Kindly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd. (2) 2. SCS TECH INDIA PVT. LTD. (2) 3. Transline Technologies Pvt. Ltd. (2) 4. NEC Corporation India Pvt. Ltd. (2) 5. Larsen & Toubro Ltd (2) 6. INTEC INFONET PVT. LTD. (2) 7. Samsung SDS India Pvt Ltd. (1) 8. Online Micro Services Private Limited (2) 9. Hexagon (1) 10. Techspire Services Pvt. Ltd. (2)



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			operational / tectical picture by the officers / personnel on the field. It is requested that this functionality should be moved to desktop GIS with in control room.		
282.	4.8.9 36/285 (9)	The Server software should support Replication across multiple commercial databases in connected and disconnected environments	Should be inline with overall solution deployment architecture. MSI should be given a choice / freedom to implement the best practices. Kindly clarify.	Kindly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. SCS TECH INDIA PVT. LTD. 3. Transline Technologies Pvt. Ltd. 4. Techspire Services Pvt. Ltd. 5. NEC Corporation India Pvt. Ltd. 6. Larsen & Toubro Ltd 7. INTEC INFONET PVT. LTD. 8. Online Micro Services Private Limited 9. Samsung SDS India Pvt Ltd.
283.	4.8.9 41/285 (10)	The application server and database servers must be supported on both Windows & Linux platform.	Based on the overall solution and best practices of deployment MSI should be allowed to choose between Windows or Linux.	Kidly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. Hexagon 3. SCS TECH INDIA PVT. LTD. 4. Transline Technologies Pvt. Ltd. 5. Techspire Services Pvt. Ltd. 6. NEC Corporation India Pvt. Ltd. 7. Larsen & Toubro Ltd 8. INTEC INFONET PVT. LTD. 9. Samsung SDS India Pvt Ltd. 10. Online Micro Services Private Limited



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284.	4.8.9 44/285 (9)	Server Software should run as a native 64-bit application and should support Windows 64-bit and Linux operating systems 64-bit.	Based on the overall solution and best practices of deployment MSI should be allowed to choose between Windows or Linux.	Kindly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. SCS TECH INDIA PVT. LTD. 3. Transline Technologies Pvt. Ltd. 4. Techspire Services Pvt. Ltd. 5. NEC Corporation India Pvt. Ltd. 6. Online Micro Services Private Limited 7. Larsen & Toubro Ltd 8. INTEC INFONET PVT. LTD. 9. Samsung SDS India Pvt Ltd.
285.	4.8.9 50/285 (10)	Server administrator should be able to prevent unauthorized users from accessing cached pages by disabling of caching of service related information by the web browser	We understand that IT solution will cater the over all security of the system and GIS need to adhere to these security policies and implementation. So this requirement should be combine with overall security implementation and should be removed from GIS scope. Kindly clarify.	Kindly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. Hexagon 3. SCS TECH INDIA PVT. LTD. 4. Transline Technologies Pvt. Ltd. 5. Techspire Services Pvt. Ltd. 6. NEC Corporation India Pvt. Ltd. 7. Larsen & Toubro Ltd 8. INTEC INFONET PVT. LTD. 9. Samsung SDS India Pvt Ltd. 10. Online Micro Services Private Limited
286.	4.8.9 52/285 (10)	software should support to automatically generate diagrams and manage physical and logical network,	1. Schematic diagrams are brought in use to support engineering staff of the line departments. Kindly elaborate the use case for policing. It has a commercial impact on both	As per RFP	1. Marushika Technology Advisors Pvt. Ltd. (1) 2. SCS TECH INDIA PVT. LTD.(1)



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		Access, create, update, and edit Schematic Diagrams	solution and data preparation. Hence request your kind clarification in this regard. Kindly clarify. 2. This functionality is restrictive for participation. As such this function would not add any value for application related to safe city. Hence, we request to remove this.		3. Transline Technologies Pvt. Ltd. (1) 4. Techspire Services Pvt. Ltd. (1) 5. NEC Corporation India Pvt. Ltd. (1) 6. Larsen & Toubro Ltd (1) 7. INTEC INFONET PVT. LTD.(1) 8. Online Micro Services Private Limited (1) 9. Samsung SDS India Pvt Ltd.(1) 10. Scanpoint Geomatics Ltd
287.	4.8.9 68/286 (10)	Integrate with a SAML 2.0 Identity Provider (IdP) to provide Web Single Sign On	1. MSI should be given a choice / freedom to implement the best suitable security solution for the overall system rather than restricting to SAML 2.0. Kindly clarify. 2. MSI should be allowed to implement the single sign on for the overall system not limiting to SAML.	Kindly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd. (1) 2. Hexagon (2) 3. SCS TECH INDIA PVT. LTD. (1) 4. Transline Technologies Pvt. Ltd. (1) 5. Techspire Services Pvt. Ltd. (1) 6. NEC Corporation India Pvt. Ltd. (2) 7. Larsen & Toubro Ltd (2) 8. INTEC INFONET PVT. LTD. (1) 9. Samsung SDS India Pvt Ltd. (2) 10. Online Micro Services Private Limited (2)
288.	4.8.9 70/286 (1)	Log events of interest such as who is publishing services for the Logging and Auditing purposes. should support to	Specific mention of SAP HANA here seems to be out of context. Request you to remove the same.	Kindly Refer Corrigendum	1. Scanpoint Geomatics Ltd



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
		enable spatial database in SAP HANA			
289.	4.8.9 72/286 (10)	Should have an inbuilt web gateway option to be configured and option to use different gateways like HTTP load balancer and network router devices	Should be inline with overall solution deployment architecture. MSI should be given a choice / freedom to implement the best practices. Kindly clarify.	Kindly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. Hexagon 3. SCS TECH INDIA PVT. LTD. 4. Transline Technologies Pvt. Ltd. 5. Techspire Services Pvt. Ltd. 6. NEC Corporation India Pvt. Ltd. 7. Larsen & Toubro Ltd 8. INTEC INFONET PVT. LTD. 9. Samsung SDS India Pvt Ltd. 10. Online Micro Services Private Limited
290.	4.8.10/287 (6)	Enterprise Management System including SLA Management, Network Management, Asset Management, Incident & Work Flow Management, Privilege & Identity Management.	As per our understanding the EMS solution should be seamlessly integrate with PIM and Identity Management solution to strengthen the authentication and authorization process by providing users, quick and secure access to the resources they need. Kindly confirm if our understanding is correct.	As per RFP (Yes, The understanding is correct)	1. Micro Focus Software Solution India Private Limited (earlier Called as Hewlett Packard Software – HPE Software) 2. Madras Security Printers Pvt.Ltd 3. iValue InfoSolutions Pvt. Ltd. 4. PruTech Solutions India Pvt. Ltd. 5. iValue InfoSolutions Pvt. Ltd 6. Bodhtree
291.	4.8.10/287 (14)	Generic	1. An Industry-standard, COTS EMS that is certified on key international standards like ISO/IEC 27001 and ISO/IEC	1. As per RFP	1. RAH InfoTech (P) Ltd 2. BMC Software 3. Micro Focus Software Solution India Private



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			27034-1 and EAL (Evaluation Assurance Level) ensures and demonstrates that the implemented products include risk-driven security controls that can help protect your infrastructure and data against ever-changing cyber-threats and vulnerabilities. Thus, pls confirm if the understanding is correct that, "EMS products must be an industry standard solution from an OEM that is ISO/IEC 27001 and ISO/IEC 27034-1 certified". 2. There is no OEM support Level clause mentioned for Enterprise System Management solution/software in the RFP. We understand that Enterprise System Management solution/software is a critical function for the RFP requirements, especially for Helpdesk, SLA Management, Monitoring & reporting asks. Therefore we request to add the below clause in the Enterprise Management System so that Delhi Police gets better and prompt support from OEM during the support contract period. "All the components of the offered solution shall be covered under OEM support for the entire contract duration. The OEM support shall be provided 24X7X365 for the issues based on priority."	2. As per RFP (Warranty for software & hardware already asked) 3. As per RFP (MSI has to consider required licenses)	Limited (earlier Called as Hewlett Packard Software – HPE Software) 4. Madras Security Printers Pvt.Ltd 5. iValue InfoSolutions Pvt. Ltd. 6. PruTech Solutions India Pvt. Ltd. 7. Bodhtree(1,3) 8. PruTech 9. Integre



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			3. We recommend that the selected System integrator needs to integrate new EMS /NMS solution with existing EMS/NMS running at FHQ / I/C Data Center,Cyber Highway As you already have the base licenses - hence you just need to procure additional licenses as required - this will save your CAPEX and operational cost - Kindly confirm if our understanding is correct on integration with existing EMS/NMS licenses		
292.	4.8.10 3/287 (8)	The proposed solution must be featured in Gartner/IDC reports. Documentary proof must be provided at the time of submission.	1. Gartner/IDC certifications should be removed under the guidelines of MOUD-GOI As the RFP is included towards facilitating Make in India participation in line with Government Advisories, henceforth the Gartner/ IDC clauses will make it restrictive and contradictory to the intended idea. The Make in India participants can be made highly competitive in nature based upon the benchmarking of the desired qualifications not restricting the Indian Standards as per the RFP. 2. Request to please share more details on document proof documents 3. Request you to kindly remove this clause and prefer Make In India. 4. This clause favors a specific OEM. Not every software of all OEM is	Kindly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd. (1) 2. DAK Infosoft (P) Ltd (3) 3. RAH InfoTech (P) Ltd (4) 4. Transline Technologies Pvt. Ltd. (1) 5. INTEC INFONET PVT. LTD. (1) 6. BMC Software 7. Sterlite Technologies Limited (2) 8. Echelon Edge (5)



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			featured in Gartner/IDC reports. Many OEM opt to participate in various other analyst reports and not in Gartner/IDC reports. Therefore, we request to remove the clause. 5. We request to amend this clause to remove the requirement for Gartner/IDC Reports featuring, as there are many in India OEM with technology at par and on some parameter better than aforesaid Gartner/ IDC reports featured ones.		
292.a	4.8.10 10/288 (3)	All the required modules should be from same OEM and should be tightly integrated for single pane of glass view of enterprise monitoring.	1. As there specific OEMs for ServiceDesk/IT Service management, so we undersatnd that the OEM for proposed Servidcedesk can be different than the OEM of propsoed EMS/NMS, Kindly confirm. 2. This clause favors a specific OEM. Not every OEM has all the EMS software asked in the requirement. Therefore, it is restricting participation of many OEMs. Therefore we request to modify the clause to, "All the required modules should be integrated for single pane of glass view of enterprise monitoring."	Kindly Refer Corrigendum	1. Echelon Edge(1) 2. BMC Software(2) 3. RAH InfoTech (P) Ltd(2)
293.	4.8.10 14/288 (14)	Proposed NMS solution must have deployment reference of monitoring & managing 10,000+ network nodes in at	1. Request to please relax this clause to "deployment reference of monitoring & managing 5,000+ network nodes in at least 1 deployments across"	Kindly refer corrigendum.	1. Mindarray Systems Pvt Ltd 2. Motadata (3) 3. RAH InfoTech (P) Ltd(4)



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		least 3 deployments across Govt./PSU/Large Enterprise.	2. Since it's a Govt of India Project and hence requesting you to please rephrase clause as: "Proposed NMSsolution must have deployment reference of monitoring & managing 10,000+ network nodes in at least 3 deployments across Govt./PSU " . 3. This clause is favouring a particular OEM. Hence requesting the authority to relax this criteria and revise the clause as under: The proposed solution must provide comprehensive and integrated management of IT infrastructure components to maximize the availability of IT services and SLA performance & must have at least 3 deployments in Indian Government/ Public Sector, monitoring & managing 5,000 network nodes in each of such deployments. 4. This clause favors a specific OEM and restricts many other OEMs to participate in this RFP. Therefore, we request to remove the clause. OR We request department to consider the Global citations. 5. We request to consider 02 deployments as experience and humbly request to consider below so that other OEM can also participate for healthy competition "10,000+ network nodes in at least 2 deployments		4. Madras Security Printers Pvt.Ltd(2) 5. Micro Focus Software Solution India Private Limited (earlier Called as Hewlett Packard Software – HPE Software) (2) iValue InfoSolutions Pvt. Ltd. 6. Sterlite Technologies Limited (1) 7. iValue InfoSolutions Pvt. Ltd (2) 8. Larsen & Toubro Ltd(3) 9. BMC Software(4) 10. Mindarray Systems Pvt Ltd (Motadata)(3) 11. PruTech Solutions India Pvt. Ltd.(2) 12. Echelon Edge(5) 13. Bodhtree (2)



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			across Govt./PSU/Large Enterprise".		
294.	4.8.10 15/288 (2)	15. The Solution should provide all the modules as a single monitoring engine to correlate events in real-time from Networks, Servers and Applications	This clause favors a specific OEM. Most of the OEMs have multiple elementary managers and it consolidates it a Manager of Manager layer. Therefore, we request to remove the clause.	Kindly Refer Corrigendum	1. RAH InfoTech (P) Ltd 2. BMC Software
295.	4.8.10 15/288 (9)	The solution should be virtual appliance and deployable on Linux operating systems to reduce the overall TCO	- EMS is a pure software based solution and asking the same as an appliance based solution will attach an extra hardware component to it which will not only increase the cost but also restrict to very few OEMs. Our submission is that while asking the software to be deployable on Linux operating system which will for sure reduce the TCO, to keep the software free from locking to any appliance and giving the bidder to choose whether to go for virtual servers or appliances. Requesting you to please update the clause as follows: The solution should be deployable on virtual server or appliance and on Linux operating system to reduce the overall TCO. - This clause favors a specific OEM. There is no justification that virtual appliance on Linux reduces overall TCO. Most of the OEMs does not provide virtual appliance based solution. Therefore, it is restricting participation of many OEMs in this	Kindly refer corrigendum	- RAH InfoTech (P) Ltd - Madras Security Printers Pvt.Ltd - Micro Focus Software Solution India Private Limited (earlier Called as Hewlett Packard Software – HPE Software) - iValue InfoSolutions Pvt. Ltd - BMC Software - PruTech Solutions India Pvt. Ltd. - Echelon Edge(1) - Bodhtree - iValue Infosultions - Integre



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			RFP. We request to remove the clause. 3. This clause is specific to an OEM, Requesting you to kindly remove this clause as its retringing us as well as other OEMs to participate as the deployment architecture differs from OEM to OEM.		
296.	4.8.10 16/288 (2)	16. The solution should run without any propriety database license for datastore - Datastore must be bundled within EMS (E.g. popular time-series, no-sql, hbase based monitoring systems) to reduce the TCO	This clause favors a specific OEM. There is no justification that non-proprietary database reduce TCO. This clause restricts many other OEMs to participate. Therefore, we request to remove the clause.	As per RFP	1. RAH InfoTech (P) Ltd 2. BMC Software
297.	4.8.10/289 (1)	Element & Network Performance Management (EMS/ NMS/ NTA)	To measure the SLA of links between IP cameras to DC ,following Network Performance Module should be included under EMS/NMS module:	As per RFP (MSI has to considered the same)	1. DAK Infosoft (P) Ltd
298.	4.8.10 3/289 (1)	The solution should support single console for automated discovery of enterprise network components e.g. network device, servers, virtualization, cloud, application and databases	Request to please amend the clause as below: " The solution should support automated discovery of enterprise network components e.g. network device, servers, virtualization, cloud, application and databases"	As per RFP (clause is self explanatory)	1. Sterlite Technologies Limited
299.	4.8.10 10/290 (2)	10. The proposed solution must keep historical data at raw level without averaging for minimum of six month	This clause favors a specific OEM. We request to remove the clause.	Kindly Refer Corrigendum	2. RAH InfoTech (P) Ltd 3. BMC Software
300.	4.8.10/291 (1)	Generic - Fault Management	Request to please share the list of components to be monitored (for eg. Network, Applications, Web Servers, Databases etc.)	As per RFP (Kindly Refer RFP for details)	4. Sterlite Technologies Limited



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301.	4.8.10 3/292 (3)	3. The proposed solution should provide a minimum log compression of 8:1 for ensuring log compression to reduce overall log index storage space for the raw log format	1. This clause favors a specific OEM. We request to remove the clause. 2. This clause is proprietary and OEM Specific. Kindly remove and consider below to make it open: The proposed solution should provide a log compression to reduce overall log index storage space for the raw log format	As per RFP	1. RAH InfoTech (P) Ltd(1) 2. BMC Software(1) 3. Echelon Edge(1)
302.	4.8.10 2/293 (12)	The proposed helpdesk solution should have achieved Pink VERIFY certification on at least 6 available ITIL processes. Documentary proof must be provided at the time of submission.	1. As part of "Make in India" initiative, MoUD has advised that restrictive clauses that work against the Indian companies should be modified or removed. Such conditions include - requirement of foreign certifications such as ITIL gold/Pink Verify etc. We request that a level playing field must be provided to Indian companies to participate in the Government projects without requirement to foreign certification, and request to remove this clause 2. As per IndEA (India Enterprise Architecture) guidelines, the proposed architecture is as per IT4IT - We have seen the Indian Govt apps and IT infrastructure over a period of time... hence requesting you to kindly upgrade the clause as : " The proposed helpdesk solution should have achieved PinkVERIFY certification on at least 10+ available ITIL processes. Documentary proof must be	Kindly Refer Corrigendum	1. RAH InfoTech (P) Ltd(5) 2. Madras Security Printers Pvt.Ltd(2) 3. Micro Focus Software Solution India Private Limited (earlier Called as Hewlett Packard Software – HPE Software) (2) 4. iValue InfoSolutions Pvt. Ltd. (2) 5. PruTech Solutions India Pvt. Ltd.(2) 6. BMC Software(5) 7. DAK Infosoft (P) Ltd (3) 8. Sterlite Technologies Limited (4) 9. Echelon Edge (1) 10. Bodhtree (2)



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			provided at the time of submission." as you need latest technologies like Service level Management, Knowledge Management, Asset Management, Service Portfolio management along with 6 mentioned processes. Kindly confirm to this upgrade for better having the best practises at a part of your system. 3. Please make the required Pink Verify Certification to at least 10 available ITIL Processes to enable better regulation. 4. Request you to please relax the Pink VERIFY certification to get more participation from ITIL complied process driven solution. 5. We understand that Delhi Police is looking for best of breed ITSM solution in the market to cater their ITSM requirements. Therefore, we request to modify the clause to "The proposed helpdesk solution should have achieved Pink VERIFY certification on at least 10 available ITIL processes. Documentary proof must be provided at the time of submission."		
303.	4.8.10 21/293 (2)	21. The system shall be capable of operating at a sustained 5000 EPS per collection instance. The system shall provide the ability to scale to higher	This clause favors a specific OEM. We request to remove the clause.	As per RFP (Minimum Requirement is mentioned in RFP)	1. RAH InfoTech (P) Ltd 2. BMC Software



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		event rates by adding multiple collection instance			
304.	4.8.10/295 (12)	Infrastructure cabling and connection monitoring	1. The Specification shared are for an intelligent cabling system. However, the components mentioned on Page 603 (Bill of Material) are for Standard cabling system. The additional components are required to achieve the specification/functionalities for the system are missing in the BoQ. 2. We are assuming that the specification mentioned for Infrastructure cabling and connection monitoring are only part of EMS package and would be applicable for C4i Centre. Since these are costly as compared to normal passive infrastructure, the same specification would not apply to other passive components viz. Cable, LIU required for field equipment and police stations, please clarify. 3. We understand that "Infrastructure cabling and connection monitoring (ICCM)" is not part of EMS product as there are dedicated separate OEM of ICCM product. There is no separate line item of "Infrastructure cabling and connection monitoring" in BOQ, we request authority to make separate line item of ICCM in BOQ.	Kindly Refer Corrigendum	1. Mindarray Systems Pvt Ltd (Motadata) (3) 2. Motadata (3) 3. Presto (2) 4. RAH InfoTech (P) Ltd(4) 5. Globalrays Technologies (2) 6. Presto Infosolutions Pvt. Ltd. (2) 7. BHARAT ELECTRONICS LIMITED (2) 8. Triflex Solutions (2) Telecommunications Consultants India Limited (2) 9. BMC Software(4) 10. Mindarray Systems Pvt Ltd (Motadata) (3) 11. NEC Corporation India Pvt. Ltd. (1) 12. Presto 13. Birla Furukawa



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			4. We would request to remove "Infrastructure cabling and connection monitoring" from Enterprise System Management section as it not related to it. 5. We assume that the specification mentioned for Infrastructure cabling and connection monitoring are only part of EMS package and would be applicable for C4i Centre. Since these are costly as compared to normal passive infrastructure, the same specification would not apply to other passive components viz. Cable, LIU required for field equipment and police stations. 6. Please clarify whether the AIM software need to monitor passive solutions and Hub room environment like temperature/humidity etc.		
305.	4.8.10 35/297 (3)	Sound –in case of patching or removal of a cord between either intelligent panels or between intelligent panels to a switch.	1. Please clarify if sound indication should be at patchpanel side or at the Monitoring system side. 2. Please clarify if sound indication should be at patchpanel side or at the Monitoring system side.	Kindly Refer Corrigendum	1. Birla Furukawa Techspire Services Pvt. Ltd. 2. Online Micro Services Private Limited
306.	4.8.10 45/297 (3)	The intelligent panels should have the necessary intelligent hardware and light indicators integrated within the panels. Retrofits are not an option.	Please keep retrofit option for future upgradation to intelligent from non-intelligent solution.	Kindly Refer Corrigendum	1. Birla Furukawa 2. Techspire Services Pvt. Ltd. 3. Online Micro Services Private Limited
307.	4.8.10 58/298 (3)	The solution should provide the capability of monitoring	The Requirement of Infrastructure Cabling and Connection monitoring is	Kindly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd.



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		port availability status on network equipment including switches, patch panels and telecommunication outlets should be monitored in real time for the purpose of detecting unexpected or unauthorized	to provide complete management of Cabling and Connectivity alerts along with infrastructure management features, hence it's important to have a standalone server and system to manage the cabling infrastructure which consists of cables, connecting hardware, panels, and other closures, cabinets, frames, and its connectivity correlation to assets like servers, PDUs etc. Alerts should be integrated into the Integrated Command and Control Center application or any Ticketing System.		2. Larsen & Toubro Ltd 3. INTEC INFONET PVT. LTD.
308.	4.8.10 59/298 (3)	The intelligent management software should use standard database so that the solution should be able to communicate and exchange data with other systems using standard protocols and database formats. This is to provide easy integration and customi	Please add PostgreSQL 9.4 database as one of the formats for database.	Kindly Refer Corrigendum	1. Birla Furukawa 2. Techspire Services Pvt. Ltd. 3. Online Micro Services Private Limited
309.	4.8.10 61/299 (1)	The solution should be ready to connect to devices which control various parameters in the Datacenter / Hub room environment (temperature sensors, humidity sensors, door access sensors, etc.) and provide this information to the software in real time and h	Please clarify whether the AIM software need to monitor passive solutions and Hub room environment like temperature /humidity etc.	Kindly Refer Corrigendum	1. Birla Furukawa



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310.	4.8.10 74/299 (3)	The solution should have built in reports for all physical layer monitoring, and also for Data Center operations like power consumption, temperatures, rack status and various other sensors information.	Please clarify whether the AIM software need to monitor passive solutions and Hub room environment like temperature /humidity etc.	Kindly Refer Corrigendum	1. Birla Furukawa 2. Techspire Services Pvt. Ltd. 3. Online Micro Services Private Limited
311.	4.8.10 /300 (3)	Help Desk Management	In Help Desk Management there is no mention of Automatic Call Distribution (ACD) of incoming calls for support, only logging of calls on help desk software is mentioned. Please provide detail how calls will be routed to help desk team/incident management/service desk team or request to including following: Solution should include Automatic Call Distribution (ACD) of incoming calls to help desk support team using skill based routing for 10 Agents/helpdesk team and ACD, CTI should be from the same OEM as that of IPPBX for seamless integration.	As per RFP (The Bidder need to provide a compressive solution to meet the requirement)	1. Matrix Security & Surveillance Pvt Ltd 2. PruTech Solutions India Pvt. Ltd. 3. Bodhtree
312.	4.8.10 77/300 (3)	It should have the ability to connect and provide datacenter environment reports like power consumption in racks in real time, temperatures within racks, rack door closures, water level sensing etc.	Please clarify whether the AIM software need to monitor passive solutions and Hub room environment like temperature/humidity etc.	Kindly refer corrigendum	1. Birla Furukawa 2. Techspire Services Pvt. Ltd. 3. Online Micro Services Private Limited



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313.	4.8.10 Fiels UPS/302 (1)	--	Since, The Field UPS's are for outdoor locations & minimum project duration is 5-6years, we suggest to kindly change it as "Lithium Ion batteries for Field UPS Systems, which is the most suitable solution for outdoor type application. Few Smart City's i.e. DOP & GMDA, BAREILLY SMART CITY has already implemented/initaited Field UPS requirement with Lithium Ion batteries. NOIDA ITMS, BANGALORE SAFE CITY, MORADABAD SAFE CITY has already floated tender with Lithium Ion Batteries for field UPS requirements. Lithium Ion bateries comes with minimum 5years warranty & few Lithium Ion batteries manufacturers are "Exide, Amron, Panasonic, LG, Samsung, Okaya, Liv Guard, Coselight,Amptek etc. (A detailed comparison between SMF VRLA & Lithium Ion batteries is attached herewith for your kind reference.)	As per RFP	1. suttantra
314.	4.8.11/304 (2)	projection engine	1. Kindly amend to Active Led 1.25mm /1.5mm Pixel, as latest technology 2. We request you to Pls consider Active LED in place of OLD & End of life technology of Delta , Only One Brand is having this Solution , Globaly all leading Brands are stoped manufacturing this technology due to high AMC cost and spares , Delhi Police will not	1. As per RFP 2. HD resolution does not fulfil our resolution requirement which is why we cannot accept resolution lower than 4K-UHD. This is due to the large number of cameras which need to be simultaneously displayed on the video wall. . Our	1. LG 2. LG Electronics India Pvt. Ltd.



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			get healthy Competition with this specifications	requirement is to view 4MP	
315.	4.8.11/304 (1)		Kindly amend to Active Led 1.25mm /1.5mm Pixel , as latest technology	As per RFP	1. LG Electronics India Pvt. Ltd.
316.	4.8.11/304 (1)		We request you to Pls consider Active LED in place of OLD & End of life technology of Delta , Only One Brand is having this Solution , Globaly all leading Brands are stoped manufacturing this technology due to high AMC cost and spares , Delhi Police will not get healthy Competition with this specifications	As per RFP	1. LG Electronics India Pvt. Ltd.
317.	4.8.11 Video Wall Solution- 1/304 (2)	1. Display Wall Individual Cube Size 70"±5%	Kindly amend to Active Led 1.25mm /1.5mm Pixel , as latest technology	As per RFP	1. LG 2. LG Electronics India Pvt. Ltd.
318.	4.8.11 Video Wall Solution- 15/304 (2)	15. Power values are for 230V; 110V +5%)		Kindly Refer Corrigendum	1. LG Electronics India Pvt. Ltd. 2. LG
319.	4.8.11 Video Wall Solution- 2/304 (12)	2. Projection Technology DLP Rear Projection with each cube having 4K-UHD resolution	1. 4K Video Wall in DLP is Specific to ONE OEM Only Request you to Change Projection Technology: DLP Rear Projection with each cube having Full HD resolution so that other OEM Can Qualify for fair tendering process & Wider Participation 2. Kindly amend to Active Led 1.25mm /1.5mm Pixel , as latest technology 3. Request to Mention Projection Technology Laser Based FULL HD Video wall without Color Wheels as color wheels is outdated Technology	Kindly Refer Corrigendum	1. Sterlite Technologies Limited(1) 2. Marushika Technology Advisors Pvt. Ltd. (1) 3. Barco Electronic Systems Pvt. Ltd. (1,3) 4. Larsen & Toubro Ltd (1) 5. Barco Electronic Systems Pvt. Ltd. (1) 6. Transline Technologies Pvt. Ltd. (1) 7. Tech Mahindra 8. INTEC INFONET PVT. LTD. (1) 9. LG Electronics India Pvt. Ltd. (2) 10. LG (2)



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320.	4.8.11 Video Wall Solution- 3/304 (11)	3. Individual Video Wall Resolution 15360 x 8640	1. As per the RFP; the requirement is for 4x4 DLP Video Wall; For Full HD Video Wall Total resolution will be 1920x4=7680 X 1080x4=4320 For 4K UHD Video Wall Total Resolution will be 3840x4=15360 X 2160x4=8640 Individual Video Wall Resolution: 15360 x 8640 with 4x4 DLP Video wall is only achievable using 4K Video Wall and 4K Video Wall in DLP is Specific to ONE OEM Only Request you to Change Individual Video Wall Resolution: 7680x4320 so that other OEM Can Qualify for fair tendering process & Wider Participation 2. Kindly consider resolution of complete wall	HD resolution does not fulfil our resolution requirement which is why we cannot accept resolution lower than 4K-UHD. This is due to the large number of cameras which need to be simultaneously displayed on the video wall. . Our requirement is to view 4MP cameras which cannot viewed at full resolution on Full HD screen. Therefore, we have considered 4K video wall. .As per the RFP most of the cameras are 4MP hence for viewing the camera images without any loss in quality we need for 4MP or higher resolution. As per the present BOQ 1. Outdoor fixed camera-4MP- Qty.- 6121 (which comes total resolution 24484 MP) 2. Outdoor PTZ camera -4MP - Qty.-2246 (which comes total resolution 8984 MP) 3. Outdoor fixed ANPR camera -2MP-Qty.-1622- (which comes total resolution 3244 MP) 4. Hence the total resolution of the total cameras comes 24484+8984+3244=36712 MP 5. However 48 video wall we are buying	1. Tech Mahindra (1) 2. Sterlite Technologies Limited (1) 3. Marushika Technology Advisors Pvt. Ltd. (1) 4. Barco Electronic Systems Pvt. Ltd. (1) 5. Transline Technologies Pvt. Ltd. (1) 6. Barco Electronic Systems Pvt. Ltd (1) 7. Larsen & Toubro Ltd (1) 8. INTEC INFONET PVT. LTD. (1) 9. LG (2) 10. LG Electronics India Pvt. Ltd. (2)



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				=48*3840*2160=398 MP resolution only. 6. If we see only 1% camera at a time , then we will be requiring 367 MP resolution 7. Balance 31 MP left to see other various parameter	
321.	4.8.11 Video Wall Solution- 4/304 (10)	4. Cube Depth Less than 600 mm	1. 600mm cube depth in DLP Video Wall is specific to ONE OEM Only Every OEM has its own Architecture of Video Wall; Request you to please change Cube Depth as per OEM Architecture so that other OEM Can Qualify for fair tendering process 2. We request you to reduce the depth ,Now all brands are having 100mm or less except delta	Kindly Refer Corrigendum	1. Tech Mahindra (1) 2. Marushika Technology Advisors Pvt. Ltd. (1) 3. Barco Electronic Systems Pvt. Ltd. (1) 4. Sterlite Technologies Limited (1) 5. Transline Technologies Pvt. Ltd. (1) 6. Barco Electronic Systems Pvt. Ltd (1) 7. Larsen & Toubro Ltd (1) 8. INTEC INFONET PVT. LTD. (1) 9. LG (2) 10. LG Electronics India Pvt. Ltd. (2)
322.	4.8.11 Video Wall Solution- 5/304 (2)	5. Light Source Laser	Laser light source is not stable , We request you to consider LED light source	As per RFP	1. LG 2. LG Electronics India Pvt. Ltd.
323.	4.8.11 Video Wall Solution- 6/304 (9)	6. Light Output of projection engine: 2200 Lumens or more	1. 2200 Lumens is too high for indoor application of video wall and not safe for operators eyes in 24x7 surveillance application Request you to change Light Output of projection engine: 1800 Lumens or more	Kindly Refer Corrigendum	1. Transline Technologies Pvt. Ltd. (4) 2. Marushika Technology Advisors Pvt. Ltd. (4) 3. Barco Electronic Systems Pvt. Ltd. (1) 4. INTEC INFONET PVT. LTD.(4) 5. LG (2)



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			2. Kindly consider 800 Nits Calibrated Brightness Enough in LED technology 3. Laser light source is not stable , We request you to consider LED light source 4. Lumen is the unit used for measuring light output of Projectors. In Videowall, the relevant parameter is onscreen brightness which is measured in cd/m2. Request you to change Light Output of projection engine: 1800 Lumens or better along with Onscreen Brightness of 700 cd/m2 or better.		6. LG Electronics India Pvt. Ltd. (2)
324.	4.8.11 Video Wall Solution- 7/304 (2)	7. Brightness Uniformity 95%	It should be 97% as per new Industry standard	Kindly refer corrigendum	1. LG 2. LG Electronics India Pvt. Ltd.
325.	4.8.11 Video Wall Solution- 8/304 (2)	8. Dynamic Contrast ratio 100,000:1		NA	1. LG 2. LG Electronics India Pvt. Ltd.
326.	4.8.11 Video Wall Solution- 9/304 (2)	9. Dust Proof Projection Engine to be certified IP6X by a third-party laboratory to ensure prevention from ingress of dust ensuring long life of the video wall	Its should be IP30 (Front and Back), IP6X is very low	Kindly Refer Corrigendum	1. LG Electronics India Pvt. Ltd. 2. LG
327.	4.8.11 Video Wall Solution Addition/304 (2)	Not mentioned - To add for 24x7 Operations	As this Being Laser Based Video wall Compliance to Laser Standards Via Laser Notice No 50 as per International Guildeliness for Operators Safety should be There.	As per RFP	1. Barco Electronic Systems Pvt. Ltd.
328.	4.8.11 Video Wall Solution Addition	Lifetime		Kindly Refer Corrigendum	1. LG



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	12, 13/305 (1)				
329.	4.8.11 Video Wall Controllers (For C4i) -1/305 (7)	1. Display controller Each Controller to be able to control each PHQ video wall with a total resolution of 15360 x 8640	As per the RFP; the requirement is for 4x4 DLP Video Wall; For Full HD Video Wall Total resolution will be 1920x4=7680 X 1080x4=4320 For 4K UHD Video Wall Total Resolution will be 3840x4=15360 X 2160x4=8640 Individual Video Wall Resolution: 15360 x 8640 with 4x4 DLP Video wall is only achievable using 4K Video Wall and 4K Video Wall in DLP is Specific to ONE OEM Only Request you to Change Display controller Each Controller to be able to control each PHQ video wall with a total resolution of 7680 x 4320 so that other OEM Can Qualify for fair tendering process else it will lead to one OEM Monopoly which in turn will lead to Prices to be quoted more than market rates	Kindly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. Barco Electronic Systems Pvt. Ltd. 3. Tech Mahindra 4. Sterlite Technologies Limited 5. INTEC INFONET PVT. LTD. 6. Transline Technologies Pvt. Ltd.
330.	4.8.11 Video Wall Controllers (For C4i) -8/305 (2)	8. Inputs- Each of the two Controllers should be equipped with minimum 16 inputs of DP/HDMI supporting 4K-UHD resolution	Please confirm the no. of controllers to be offered with each video wall section of 4x4. In price bid format on pg 592 of the tender, video wall asked is 3 nos. of 4x4 therefore a total of 48 nos. Controller quantity is mentioned as 4 nos. Video wall software is mentioned as 1 no. Please confirm the exact quantity of controller & software	Kindly Refer Corrigendum	1. Delta Electronics India Pvt. Ltd 2. Telecommunications Consultants India Limited
331.	4.8.11 Video Wall Solution- 10/305 (5)	10. Dual Redundant Power Supply Built in inside the cubes	As UPS itself dual Redundant In Nature along with Dual Controllers there is no point in adding Extra Power Supply which will up increase the prices. Request you to delete the same It is submitted that dual redundant power	As per RFP	1. Marushika Technology Advisors Pvt. Ltd. 2. INTEC INFONET PVT. LTD. 3. Barco Electronic Systems Pvt. Ltd.



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			supply in each cube will add additional, exorbitant cost which is not essentially the need, since already UPS with dual and redundant power supply has been factored in the RFP. This requirement is very specific to an OEM restricting the participation.		4. Transline Technologies Pvt. Ltd. 5. Barco Electronic Systems Pvt. Ltd
332.	4.8.11 Video Wall Solution -11/305 (7)	11. Half Gain viewing angle Horizontal $\pm 36^\circ$, Vertical $\pm 34^\circ$	High Vertical and Horizontal half gain viewing angle is only achievable in Glass Screens; Glass screens are highly reflective in nature which cause difficult in reading the content on video wall Request you to change Half-Gain Viewing Angle Horizontal to Full Viewing angle of 178 degree or better for wider Participation	Kindly refer corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. Barco Electronic Systems Pvt. Ltd. 3. Transline Technologies Pvt. Ltd. 4. INTEC INFONET PVT. LTD. 5. LG 6. LG Electronics India Pvt. Ltd.
333.	4.8.11 Video Wall Solution- 12/305 (3)	12. Lifetime Normal mode: 60 000h	Life time in full mode should be 100,000 Hours ,60,000 Hrs is very low by seeing huge investment in Project	Kindly Refer Corrigendum	1. LG Electronics India Pvt. Ltd. 2. LG
334.	4.8.11 Video Wall Solution- 13/305 (2)	13. Lifetime Eco mode: 90,000 Hours	Eco mode is not applicable in Control Room	Kindly Refer Corrigendum	1. LG 2. LG Electronics India Pvt. Ltd.
335.	4.8.11 Video Wall Solution- 14/305 (10)	14. Inputs 1 x Display Port 1.2, 1 x HDMI 2.0	1. Every OEM has its own architecture to achieve the required asked solution Request you to change Inputs: 1 x Display Port 1.2/ 1 x HDMI 2.0/ 1x DVI 2. In order to ensure wider OEM participation, request you to amend the clause as follows: Inputs: 1 x Display Port 1.2/ 1 x HDMI 2.0/ 1x DVI	Kindly refer coorigendum	1. Marushika Technology Advisors Pvt. Ltd. (1) 2. Barco Electronic Systems Pvt. Ltd. (1) 3. Transline Technologies Pvt. Ltd. (1) 4. Tech Mahindra (1) 5. Larsen & Toubro Ltd (1) 6. INTEC INFONET PVT. LTD. (1_) 7. LG



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					8. LG Electronics India Pvt. Ltd. 9. Sterlite Technologies Limited (2)
336.	4.8.11 Video Wall Solution- 15/305 (2)	15. 100 - 240 VAC, 60 - 50Hz, (below		NA	10. LG Electronics India Pvt. Ltd. LG
337.	4.8.11 Video Wall Solution- 16/305 (4)	16. Normal mode Less than 350 Watt	1. 350 Watt is too High power Consumption .Request you to mention Power less than 200 Watt (Eco Mode) & 280 Watt (Normal Mode) for Getting Green Products without Lead components 2. Power consumption should be 150 Watt per cabinet of Active led Wall	Kindly refer corrigendum	1. Barco Electronic Systems Pvt. Ltd. (1) 2. LG (2) 3. LG Electronics India Pvt. Ltd.(2)
338.	4.8.11 Video Wall Solution- 17/305 (2)	17. Normal mode Less Than 1200 BTU/h		NA	1. LG Electronics India Pvt. Ltd. LG
339.	4.8.11 Video Wall Solution- 17/305 (2)	Heat Disippation 1200 BTU/Hr	1200 BTU/Hr is too Much heat generation .Request to mention Heat Disippation of Cube to be less than 1000 BTU/Hr (Normal Mode) so as to get Green Prioduct which complies Enviornment Standards	MSI is free to offer Video Wall with lower heat dissipation	1. Barco Electronic Systems Pvt. Ltd.
340.	4.8.11 Video Wall Solution- 18/305 (2)	18. Operating conditions 5 Degrees to 35 Degrees C		NA	1. LG Electronics India Pvt. Ltd. 2. LG
341.	4.8.11 Video Wall Solution- 25/305 (8)	25. Screen to Screen Gap: 0.2 mm or lower at temperatures between 20~25 deg C.	Screen to Screen gap 0.2mm is only achieveable in Glass Screens Which gives lot of reflections & are difficult in reading the content on video wall Request you to change Screen to Screen Gap: 0.8 mm or lower at temperatures between 20~25 deg C.	Kindly refer corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. Barco Electronic Systems Pvt. Ltd. 3. Transline Technologies Pvt. Ltd. 4. Tech Mahindra



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					5. Sterlite Technologies Limited 6. Larsen & Toubro Ltd 7. INTEC INFONET PVT. LTD.
342.	4.8.11 Video Wall Solution- 27/305 (5)	27. Screen Half-gain Viewing Angle Ver: ± 34 degrees	High Vertical half gain viewing angle is only achievable in Glass Screens; Glass screens are highly reflective in nature which cause difficult in reading the content on video wall Request you to change Half-Gain Viewing Angle Vertical To Full Viewing angle of 178 degree or better for Wider Participation	Kindly refer corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. Barco Electronic Systems Pvt. Ltd. 3. Transline Technologies Pvt. Ltd. 4. Barco Electronic Systems Pvt. Ltd 5. INTEC INFONET PVT. LTD.
343.	4.8.11 Video Wall Solution Addition/305 (5)	Not mentioned - To add for 24x7 Operations	1. Additional Suggestion :Content of Main Video wall should be pushed or pulled to war Room / Training Room / Conference room over IP for 24x7 Crissis Management Operations . 2. Request you to mention: Content of Main Video wall should be pushed or pulled to war Room / Training Room / Conference room over IP for 24x7 Crissis Management Operations .	As per RFP	1. Marushika Technology Advisors Pvt. Ltd.(1) 2. Barco Electronic Systems Pvt. Ltd.(1) 3. Transline Technologies Pvt. Ltd.(1) 4. INTEC INFONET PVT. LTD.(1)
344.	4.8.11 Video Wall Controllers (For C4i) -12/306 (1)	12. The controller shall be designed for 24 x 7 operation	There are 4 No's of controllers mentioned in BOQ for the 3 Video Walls. However since, 24x7 operations is required, kindly revise the quantity of controllers to 6 No's to provide High Availability.	As per RFP	1. Larsen & Toubro Ltd
345.	4.8.11 Video Wall Controllers (For C4i) -14/306 (2)	14. OEM Certification All features and functionality should be certified by the OEM.	Kindly remove this term , Only one OEM is having this solution , Its stops good brands to participate in Open tender , Only delta can meet this Term	As per RFP	1. LG 2. LG Electronics India Pvt. Ltd.



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
346.	4.8.11 LED Monitor- 55 Display- 10/308 (1)	10. Duty Cycle : 12/7	We request to consider 24/7 duty cycle.since this display is going to use for monitoring for 24 hrs. Pls ask for 24/7 Duty cycle. 12/7 is use in consumer display	Kindly Refer Corrigendum	1. LG
347.	4.8.11 LED Monitor- 55 Display- 11/308 (5)	11. Certifications: UL/EN/CE/IEC/BIS certification for Safety and CE/FCC Certifications for EMC & Immunity.	1. Certification : Pls make mandatory UL/NTRL for Safety, FCC for Electromanetic Test & BIS approval(CE is very basic test having only with Chinese Makes) Justifications: The CE certification is very basic and should not be kept at par with other required or mentioned certification such as UL/NTRL for Safety, FCC for Electromanetic Test & BIS approval. As per the clause mentioned in the RFP, the CE certification will dilute the sanctity and importnace of other clauses henceforth it is requested that CE certification can be asked separately in addition to these mentioned certifications. 2. We request you to consider only standard Certificates like UL/NRTL,FCC,BIS , Note CE is very generic Test all low grade products are having this	Kindly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd. (1) 2. LG (2) 3. Transline Technologies Pvt. Ltd. (1) 4. LG Electronics India Pvt. Ltd. (2) 5. INTEC INFONET PVT. LTD. (1)
348.	4.8.11 LED Monitor- 55 Display- 5/308 (1)	5. Brightness : 350 cd/m2 (typical)	We request to consider 500 cd/m2 brightness for more clarity since 350 cd/m2 is use in consumer display series	Kindly Refer Corrigendum	1. LG
349.	4.8.11 LED Monitor- 55	6. Contrast Ratio: 4000:1 (typical)	1. Change requested: 1. 4000(Typical/ Dyanamic Contrast) to allow IPS & VA Technology panels	Kindly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd. (1) 2. LG (2)



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	Display- 6/308 (5)		Justification: It is requested to consider dynamic contrast as well along with typical contrast which will enable better calibration of the display output at all the offices. 2. We request you to consider (Typical/Dynamic Contrast) , Contrast is based on Panel Technology of OEMS , IPS & VA , Both are having different USP's , All Major Brands are using IPS technology(1100:1 or Higher for IPS & 500,000:1 Dynamic Contrast , 4000 :1 for VA technology & 50,000:1 Dynamic Contrast)		3. Transline Technologies Pvt. Ltd.(1) 4. LG Electronics India Pvt. Ltd. (2) 5. INTEC INFONET PVT. LTD. (1)
350.	4.8.11 LED Monitor- 55 Display- 8/308 (5)	8. Input: 2 x HDMI 2.0 1 x Display Port 1 x VGA 2 x USB Ports	1. 2. Inputs: Pls amend USB-1 or Above & Remove VGA due to End of life Port (VGA-Analog Port is not available in UHD/4K Panels) Justifications: The VGA Port is outdated and would not fulfill the End of Life criteria of this RFP henceforth it may be noted this port is not being manufactured by the OEMs. Therefore it is submitted to discard the port among the requirement. It is submitted that USB port can be limited to 1 no. since all the other advance types of ports such HDMI:-2, DP:-1, have been asked for. It may also be noted the requirement of 2 USB ports will facilitate Chinese player to qualify and supersede the leading OEMs.	Kindly refer corrigendum:	1. Marushika Technology Advisors Pvt. Ltd. (1) 2. LG (2_) 3. Transline Technologies Pvt. Ltd. (1) 4. LG Electronics India Pvt. Ltd. (2) 5. INTEC INFONET PVT. LTD. (1)



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			2. We request you to consider HDMI-2,DVI-1,DP-1 ,USB-1 & DP-1 Out to share display if required in future , Note - VGA Port is End of life port , Some chinese Brands are still manufacturing , But not available in any Reputed Brands in India		
351.	4.8.11 Video Wall Software- 20/308 (2)	20. The Display Modules, Display Controller & Software should be from a single OEM.	Kindly remove this term , Only one OEM is having this solution , Its stops good brands to participate in Open tender , Only delta can meet this Term	As per RFP	1. LG Electronics India Pvt. Ltd. 2. LG
352.	4.8.11 Workstation for LED Monitors - 5/308 (2)	5. Chipset: Intel Workstation Chipset 400 Series or higher	1. AMD 500 Chipset / AMD WRX80 Chipset / Intel Workstation Chipset 400 Series or higher 2. AMD Ryzen / Intel Xeon Processor, 8 Cores, 16MB Cache, 3.6Ghz base frequency or better	Kindly refer corrigendum	1. AMD India Pvt. Ltd
353.	4.8.11 Workstation for LED Monitors - 12/309 (6)	12. Expansion Slots: Minimum "1" PCIe x16 Gen3; "2" PCIe x4/x8 Gen3 and "1" M.2 or more	1. There are certain cards in the industry which fits on the Legacy PCI slot, hence request you to kindly incorporate PCI slot also in the requirement. Kindly change the clause as following - "Expansion Slots: Minimum "1" PCIe x16 Gen3; "2" PCIe/PCI x4/x8 Gen3 and "1" M.2 or more" 2. Minimum "2" PCIe x16 Gen4; "1" PCIe x1 Gen3; "2" M.2 Slot PCIe Gen4 or more	Kindly refer corrigendum	1. Samsung SDS India Pvt Ltd. 2. Dell Technologies 3. Elkosta Security Systems India 4. Telecommunications Consultants India Limited 5. Tech Mahindra 6. NEC Corporation India Pvt. Ltd. 7. AMD India
354.	4.8.11 Workstation for LED Monitors - 14/309 (2)	14. I/O: USB 3.1 1 - USB 3.1 Type C 1 - Audio Jack/ Microphone & Headphone	1. 5 - USB 3.1 Type-A / Type-C or more 1 - Audio Jack/ Microphone & Headphone 4 - DisplayPort 2 - RJ45 Network Connector	Kindly refer Corrigendum:	1. AMD India Pvt.Ltd



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		4 - DisplayPort 2 - RJ45 Network Connector			
355.	4.8.11 Workstations with 3 nos 24 UHD touch -2/309 (1)	2. Processor: Intel Xeon Processor, 8 Cores, 16MB Cache, 3.8Ghz base frequency, 4.7Ghz Turbo frequency or higher processor	AMD Ryzen / Intel Xeon Processor, 8 Cores, 16MB Cache, 3.6Ghz base frequency or better	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd
356.	4.8.11 Workstations with 3 nos 24 UHD touch -10/310 (6)	Workstations with 3 nos. 24" UHD Touch Monitors for C4I application at multiple rooms on 6th & 7th Floor (EoC) Mike + webcam +speaker along with operator workstation	In the subject it is mentioned as 24" UHD Touch Monitors, where as in Sr. No. 10 and Monitor specifications mentioned seperately says FHD. We understand that the requirement is FHD. Please clarify.	Kindly refer corrigendum	1. NEC Corporation India Pvt. Ltd. 2. Dell Technologies 3. Elkosta Security Systems India 4. Telecommunications Consultants India Limited 5. Tech Mahindra 6. Samsung SDS India Pvt Ltd.
357.	4.8.11 Workstations with 3 nos 24 UHD touch -12/310 (1)	12. Expansion Slots: Minimum "1" PCIe x16 Gen3; "2" PCIe x4/x8 Gen3; "1" M.2 or more	Minimum "2" PCIe x16 Gen4; "1" PCIe x1 Gen3; "2" M.2 Slot PCIe Gen4 or more	Kindly refer corrigendum	1. AMD India Pvt.Ltd
358.	4.8.11 Workstations with 3 nos 24 UHD touch -5/309 (1)	5. Chipset: Intel Workstation Chipset 400 Series or higher	AMD 500 Chipset / AMD WRX80 Chipset / Intel Workstation Chipset 400 Series or higher	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd
359.	4.8.11 Workstations with 3 nos. 24 UHD Touch-10/311 (6)	10. Monitor: Should be able to support min 3x 24" Full HD Monitor (min 23.8" diagonal screen size). Monitor should be of same make as of workstation.	In the subject it is mentioned as 24" UHD Touch Monitors, where as in Sr. No. 10 and Monitor specifications mentioned seperately says FHD. We understand that the requirement is FHD. Please clarify.	Kindly refer corrigendum	1. Dell Technologies 2. Elkosta Security Systems India 3. Telecommunications Consultants India Limited 4. Tech Mahindra



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					5. NEC Corporation India Pvt. Ltd. 6. Samsung SDS India Pvt Ltd.
360.	4.8.11 Workstations with 3 nos. 24 UHD Touch-12/311 (1)	12. Expansion Slots: Minimum "1" PCIe x16 Gen3; "2" PCIe x4/x8 Gen3; "1" M.2 or more	Minimum "2" PCIe x16 Gen4; "1" PCIe x1 Gen3; "2" M.2 Slot PCIe Gen4 or more	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd
361.	4.8.11 Workstations with 3 nos. 24 UHD Touch-14/311 (1)	14. I/O: 4 - USB 3.1 1 - USB 3.1 Type C 1 - Audio Jack/ Microphone & Headphone 4 - DisplayPort 2 - RJ45 Network Connector	5 - USB 3.1 Type-A / Type-C or more 1 - Audio Jack/ Microphone & Headphone 4 - DisplayPort 2 - RJ45 Network Connector	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd
362.	4.8.11 Workstations with 3 nos. 24 UHD Touch-2/311 (1)	2. Processor: Intel Xeon Processor, 8 Cores, 16MB Cache, 3.8Ghz base frequency, 4.7Ghz Turbo frequency or higher processor	AMD Ryzen / Intel Xeon Processor, 8 Cores, 16MB Cache, 3.6Ghz base frequency or better	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd
363.	4.8.11 Workstations with 3 nos. 24 UHD Touch-5/311 (1)	5. Chipset: Intel Workstation Chipset 400 Series or higher	AMD 500 Chipset / AMD WRX80 Chipset / Intel Workstation Chipset 400 Series or higher	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd
364.	4.8.11 Workstation for Video wall without Monitor-12/312 (1)	12. Expansion Slots: Minimum "1" PCIe x16 Gen3; "2" PCIe x4/x8 Gen3; "1" M.2 or more	Minimum "2" PCIe x16 Gen4; "1" PCIe x1 Gen3; "2" M.2 Slot PCIe Gen4 or more	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd
365.	4.8.11 Workstation for	14. I/O:	5 - USB 3.1 Type-A / Type-C or more 1 - Audio Jack/ Microphone &	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd



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	Video wall without Monitor-14/312 (1)	4 - USB 3.1 1 - USB 3.1 Type C 1 - Audio Jack/ Microphone & Headphone 4 - DisplayPort 2 - RJ45 Network Connector	Headphone 4 - DisplayPort 2 - RJ45 Network Connector		
366.	4.8.11 Workstation for Video wall without Monitor-2/312 (1)	2. Processor: Intel Xeon Processor, 8 Cores, 16MB Cache, 3.8Ghz base frequency, 4.7Ghz Turbo frequency or higher processor	AMD Ryzen / Intel Xeon Processor, 8 Cores, 16MB Cache, 3.6Ghz base frequency or better	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd
367.	4.8.11 Workstation for Video wall without Monitor-5/312 (1)	5. Chipset: Intel Workstation Chipset 400 Series or higher	AMD 500 Chipset / AMD WRX80 Chipset / Intel Workstation Chipset 400 Series or higher	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd
368.	4.8.11 Workstations with 3 nos. 24 UHD Touch-12/312 (6)	12. Expansion Slots: Minimum "1" PCIe x16 Gen3; "2" PCIe x4/x8 Gen3 and "1" M.2 or more	There are certain cards in the industry which fits on the Legacy PCI slot, hence request you to kindly incorporate PCI slot also in the requirement. Kindly change the clause as following - "Expansion Slots: Minimum "1" PCIe x16 Gen3; "2" PCIe/PCI x4/x8 Gen3 and "1" M.2 or more"	Kindly Refer Corrigendum	1. Tech Mahindra 2. Dell Technologies 3. Elkosta Security Systems India 4. Telecommunications Consultants India Limited 5. NEC Corporation India Pvt. Ltd. 6. Samsung SDS India Pvt Ltd.
369.	4.8.11 IP Phones/314 (3)	IP Phones (IP Phones Specification)	IP Phones Specification mentioned for C4i (under Hardware equipment at C4i) will be registered to IPPBX system mentioned in Data Center and also specification of IP PHONE TYPE 1&2 as given below ref: Page - 431-441 (h. IPPBX) Page - 437 (j: IP PHONE TYPE 1) Page - 437 (K: IP PHONE Type 2)	Kindly refer corrigendum	1. Bodhtree 2. Matrix Security & Surveillance Pvt Ltd 3. PruTech Solutions India Pvt. Ltd.



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			These two specifications are different but since these IP Phones will work with IPPBX, Hence request to mention that IP Phones Specification mentioned in this section should comply to the specification mentioned under IPPBX section IP PHONE TYPE 1, for seamless working of IP Phones with IPPBX		
370.	4.8.11 IP Phones- 1/314 (2)	1. Protocols/Standards : SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, TELNET, TFTP, NTP, STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, IPV6	Telnet and PPPoE protocols are not supported due to changing technologies and removal of the same will not impact the desired functionality. Hence in order to have broader participation, kindly change the clause as "Protocols/Standards : SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, TFTP, NTP, STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, IPV6"	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
371.	4.8.11 IP Phones- 12/314 (3)	12. Power: Input:100-240V; Output: +12V, 0.5A. Integrated Power-over-Ethernet (802.3af), Max power consumption: 6.4W (power adapter) or 6.49W (PoE)	The Phone draws 6.5 W PoE, hence kindly modify the clause as "Input:100-240V; Output: +12V, 0.5A. Integrated Power-over-Ethernet (802.3af), Max power consumption: 6.4W (power adapter) or 6.5W (PoE)"	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
372.	4.8.11 IP Phones- 5/314 (3)	5. Feature Keys 8-line keys with up to 4 SIP accounts 4. Bluetooth Yes, integrated	4 SIP accounts are not supported and not required because of security reasons as each IP phone should be defined with single SIP account and single extension only. Hence request for below changes: Feature Keys 4-line keys with 1 SIP account Bluetooth optional/not required	Kindly refer corrigendum	1. Bodhtree 2. Matrix Security & Surveillance Pvt Ltd 3. PruTech Solutions India Pvt. Ltd.



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373.	4.8.11 IP Phones- 6/314 (3)	6. Video Codec : Support for G.729A/B, G.711μ/a-law, G.726, G.722(wide-band), in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)	The Codecs mentioned are Audio Codecs and not the Video Codecs. Kindly clarify. Further, G.726 is also not supported due to changing technologies an removal of the same will not impact the desired functionality, hence we request you to please remove G.726 from the clause and modify the clause as "Audio Codec : Support for G.729A/B, G.711μ/a-law, G.722(wide-band), in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)"	Kindly refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
374.	4.8.11 IP Phones- 8/314 (3)	8. Telephony Features : Hold, transfer, forward, 4-way conference, call park, call pickup, shared-call appearance /bridged-line-appearance, downloadable phonebook, call waiting, call log XML	The phone supports 3-way conference, hence for broader participation, please change the clause as "Telephony Features : Hold, transfer, forward, 3-Way conference, call park, call pickup, shared-call appearance /bridged-line-appearance, downloadable phonebook, call waiting, call log XML"	Kindly refer corrigendum	3. Cisco 4. Matrix Security & Surveillance Pvt Ltd
375.	4.8.11 Racks 42U with Smart PDU- 1/315 (1)	1. General - 42 U X 600mm X 1200mm (H x W x D) rack should have metal frame supporting more than 1300 Kgs of static load and more than 1000 kg of dynamic load.	It is recommended to have 800mm width racks for mounting High end servers . 800mm width allows additional space for space & cooling management.	As per RFP (Minimum Requirement is Specified in the RFP MSI can propose better solution)	1. WQ INDIA
376.	4.8.11 Racks 42U with Smart PDU- 7/316 (2)	7 . Certification:-Rack shall have EIA, UL, RoHS, REACH certified	1. Kindly amend the clause as " Rack shall have EIA,RoHS,certified. Justification:- certifications such as REACH and UL should not be necessary for racks. 2. Please allow for products from ISO certified plant instead of UL.	Kindly refer corrigendum:	1. Schneider Electric 2. NEC Corporation India Pvt. Ltd.



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377.	4.8.11 Racks 42U with Smart PDU- 9/316 (1)	9. Power Distribution Unit: PDU shall have Input and Breaker level current monitoring. Local high visibility LED display.	Please change the display to LCD display.	Kindly Refer Corrigendum	1. Schneider Electric
377a	4.8.11 Racks 42U with Smart PDU- 9/316 (1)	9. Power Distribution Unit: PDU shall have Phase (A) Monitoring (kWh, W, VA, PF, V, A) Power Measurements Compliant with ANSI C12.1 and IEC 62053- 21 at 1% Accuracy Class Requirements and Circuit / Breaker Monitoring (A)	Please change the same to "iPDU should provide following measurement parameters: Current (A), voltage (V), real power (W) and consumption (kWh), Having nearby accuracy up to +/- 3%".	Kindly Refer Corrigendum	1. Schneider Electric
377 b	4.8.11 Racks 42U with Smart PDU- 9/316 (1)	9. Power Distribution Unit: The PDU shall have locking outlets - cable locking mechanism so that it should not require the locking cable to secure the cables connected to the PDU	Please allow for lockable Power Cables.	As per RFP	1. Schneider Electric
377 c	4.8.11 Racks 42U with Smart PDU- 9/316 (1)	9. Power Distribution Unit: The PDU shall support the mobile app for the power monitoring and should be easy to be shared in various formats	Please change the same to "The PDU shall support power monitoring over IP, through SNMP protocols."	As per RFP	1. Schneider Electric
	4.8.11 Racks 42U with Smart PDU- 9/316 (1)	9. Power Distribution Unit: Circuit/Breaker Current Measurements Independently Tested and Verified at 2% Accuracy.	Please change the same to "Having nearby accuracy up to +/- 3%"	Kindly Refer Corrigendum	1. Schneider Electric
378.	4.8.11 Layer 2 Network Switch- 24 Ports -10/317 (3)	10. Should have Flow based QoS, DiffServ, port based QoS, WRR, strict queue scheduling	Every OEM has different approach to meet the desired QoS, Therefore request you to kindly change the clause as	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd



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			"Should have Flow based QoS or equivalent, DiffServ, port based QoS, WRR, strict queue scheduling"		
379.	4.8.11 Layer 2 Network Switch-24 Ports -11/317 (5)	11. Should support UDLD, STP, RSTP, MSTP.	1. Request to include MACSec It is submitted that the RFP demands a highly complex network topology wherein the data flow has to be secured through adequate preventive measure for middle way attack in the data carrying media. MAC to MAC binding of the ports through MAC Sec protocol will ensure the data dycryption and accessability will happen at the defined destination only within the DC and the outside public environment. In the desired public deployment the security parameters the breach of authorized accessability (MITM) is highly probable through middle way attacks which is not only to be monitored however prevented. Henceforth, it is recommended to consider MAC Sec protocol on all ports of the switches in project interest. 2. Request to include MACSec MACSec is important to prevent man-in-the middle attack	1. As per RFP (Should support UDLD or equivalent , STP, RSTP, MSTP) 2. As per RFP (Minimum is ask, MSI can propose better solution)	1. Alcatel Lucent Enterprise (1) 2. iValue InfoSolutions Pvt. Ltd. (2) 3. Techspire Services Pvt. Ltd (1) 4. Online Micro Services Private Limited (1)
380.	4.8.11 Layer 2 Network Switch-24 Ports -14/317 (3)	14. Should support SFPs for 10km, 80km distance	Should support SFPs for 10km, 70km distance 70Km is the LH standard distance support. Request to modify the specification as requested	Kindly refer corrigendum	1. HPE 2. Matrix Security & Surveillance Pvt Ltd 3. HPE



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381.	4.8.11 Layer 2 Network Switch- 24 Ports -2/317 (3)	2. Should have 24 x 10/100/1000 Base-T ports & 2xSFP+ ports. 2x single mode 1GbE transceivers to be provided in switch	2. Should have 24 x 10/100/1000 Base-T ports & 2x10G Ethernet and 2xSFP+ ports. 2x single mode 1GbE transceivers to be provided in switch Copper 10G ports are beneficial to as both option copper & fiber ports available for uplink and as per requirement we can use it. Please specify the type of 2x single mode 1GbE transceivers i.e. LX (10 Kms) or EX (40 Kms)?	Kindly refer corrigendum	1. Globalrays Technologies 2. Sterlite Technologies Limited 3. Triflex Solutions
382.	4.8.11 Layer 2 Network Switch- 24 Ports -3/317 (12)	3. Should have min. 190Watt PoE budget. Stacking cables to be included in each switch.	1. 3. Should have min. 370Watt PoE budget. Stacking cables to be included in each switch. 193W/130W PoE not as per standard (802.3af/802.3at) for 24 Ports PoE Switch, so please revise Min 370W/740W PoE Budget 2. Current trends in PoE technology is PoE+ or higher and PoE switch may not cater the power need of future devices. Also, stacking bandwidth is also requires to be defined in order to have latest generation switches which will have longer support duration and will be beneficial for project in longer run. Kindly modify the clause as "Should have min. 350Watt PoE+ budget and dedicated slot for modular stacking, in addition to asked uplink ports. Should support for minimum 48 Gbps of stacking throughput with 8 switch in single stack."	Kindly Refer Corrigendum	1. Cisco (2) Alcatel Lucent (3) 2. Enterprise Globalrays Technologies(1) 3. iValue InfoSolutions Pvt. Ltd. (3) 4. Larsen & Toubro Ltd (4) 5. Matrix Security & Surveillance Pvt Ltd (2) 6. Cisco (2) 7. Triflex Solutions (1) 8. Sterlite Technologies Limited (2) 9. Techspire Services Pvt. Ltd. (3) 10. Online Micro Services Private Limited (3) 11. iValue InfoSolutions Pvt. Ltd.



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			3. This contradicts Point 19 (130w) Request to increase the power budget to 380w. It is submitted that the future devices will fetch power from the switch ports only. There will be minimal requirement of AC supply so as to not incur recurring power charges. The PoE budget for L2 switch at DC is requested to be kept at 380W to cater to the scalable and future needs on this new Data Center infrastructure to meet the long term requirements. 4. Points 3 and 19 contradicting each other. Kindly clarify what is the minimum PoE budget to be considered 5. This contradicts Point 19 (130w) Request to increase the power budget to 380w. All future devices will be PoE powered and not AC powered. So this is mandatory requirement		
383.	4.8.11 Layer 2 Network Switch- 24 Ports -6/317 (2)	6. Should have 1GB Flash & 1GB CPU memory	1. As per current trends, the memory ask may not be able to meet the future demand or load requirement and can lead to poor network performance, hence for project beneficial in longer run, please change the clause as "Should have min 2GB Flash & min 2GB CPU Memory" 2. Remove this Clause As all the OEMs having different Flash & DRAM requirement as per	Kindly Refer Corrigendum	1. Cisco (1) 2. Globalrays Technologies (2) 3. Tejas Networks (3) 4. Matrix Security & Surveillance Pvt Ltd (1) 5. Cisco (1) 6. Triflex Solutions (2) 7. Tejas Networks Ltd (3)



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			Hardware Architecture so Kindly delete this clause for larger participation. 3. RAM and Flash dimensioning are OEM design specific implementation of its OS on hardware and should not be specified in clause by putting the figure which is favourable to few and restrictive for many OEMs.		
384.	4.8.11 Layer 2 Network Switch-24 Ports -8/317 (2)	8. Should have dual firmware images on board. USB port for easy config & firmware image upload	Suggestive Input/Change Request: Should have dual firmware images on board. Justification: Since this is switch will be deploy at end user location, where are unsupervised location. When a USB or any other portable device is used in an unsupervised way on your network, it can lead to data theft or the introduction of viruses. Hence for security point of view USB port should not required. Request you to kindly remove USB port for switch.	Kindly refer corrigendum	1. HPE
385.	4.8.11 Layer 2 Network Switch-24 Ports -7/317 (5)	7. Should support 64 LAG, load balancing, double VLAN tagging.	1. 7. Should support 32 LAG, load balancing, double VLAN tagging. For larger participation, Leverage will allow all the vendors to participate with the specifications and department will be benefited by getting very competitive product in terms of technology & pricing. 2. Should support 32 LAG, load balancing, double VLAN tagging or VxLAN encapsulation." For a 24-Port switch, 64 LAG groups are not	Kindly refer corrigendum.	1. HPE (3) 2. Matrix Security & Surveillance Pvt Ltd (2) 3. Globalrays Technologies (1) 4. Triflex Solutions (1) HPE



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			desired. Also, VxLAN is the latest technology to create multiple virtual networks. Request to modify the specification as requested 3. Suggestive Input/Change Request Should support 32 LAG, load balancing, double VLAN tagging or VxLAN encapsulation." Justification For a 24-Port switch, 64 LAG groups are not desired. Also, VxLAN is the latest technology to create multiple virtual networks. Request to modify the specification as requested		
386.	4.8.11 Layer 2 Network Switch- 24 Ports -8/317 (1)	8. Should have dual firmware images on board. USB port for easy config & firmware image upload	Should have dual firmware images on board. Since this is switch will be deploy at end user location, where are unsupervised location. When a USB or any other portable device is used in an unsupervised way on your network, it can lead to data theft or the introduction of viruses. Hence for security point of view USB port should not required. Request you to kindly remove USB port for switch.	Kindly refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd
387.	4.8.11 Layer 2 Network Switch- 24 Ports -9/317 (3)	9. Should support Time Based ACLs, MAC based ACLs from day 1.	1. Should support Time Based ACLs via RADIUS, MAC based ACLs from day 1. Time based and context based access policies are deployed via AAA/RADIUS integration in any large network. Request to modify the specification as requested	As per RFP (MSI & OEM can implement time based ACLs via AAA/RADIUS)	1. HPE (2) 2. Matrix Security & Surveillance Pvt Ltd (1)



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			2. Suggestive Input/Change Request Should support Time Based ACLs via RADIUS, MAC based ACLs from day 1 Justification Time based and context based access policies are deployed via AAA/RADIUS integration in any large network. Request to modify the specification as requested		
388.	4.8.11 Racks 42U with Smart PDU-10/317 (1)	10. Both rack and PDU should come with 5 years of default warranty	Rack shall come with 5 years and PDU shall have 2 years default warranty.	As per RFP	1. Schneider Electric
389.	4.8.11 Racks 42U with Smart PDU-9/317 (1)	9. Power Distribution Unit: PDU shall have colored outlets to differentiate the outlets based on the breakers.	Please remove this clause as anyways for redundancy there would be two separate PDU's in each rack.	As per RFP	1. Schneider Electric
390.	4.8.11 Racks 42U with Smart PDU-9/317 (1)	9. Power Distribution Unit: The PDU shall be upgrade ready so that it can be changed to monitored PDU without downtime, by simply changing the Field replaceable IMD unit.	The iPDU is a metered PDU, hence please clarify as no upgradation is possible on it.	As per RFP (This should be replaced or can be upgraded ; there should not be compatibility issue when the PDU goes faulty)	1. Schneider Electric
391.	4.8.11 Racks 42U with Smart PDU-9/316 (1)	9. Power Distribution Unit: The PDU should be CE certified.	~~Please change the same to "The PDU shall be EN 55022 Class A, EN 55024, EN 61000-3-2, EN 61000-3-3 & VDE compliance".~~	Kindly Refer Corrigendum	1. Schneider Electric
392.	4.8.11 Joystick for PTZ camera at Workstation-2/318 (2)	2. Technology: Six-degrees-of-freedom (6DoF) sensor - Intuitively and precisely navigate digital models or	1. Flexible 4-axis technology is supported by the joystick. Thus, requesting to please amend the clause as - Technology: Flexible 4-axis Joystick.	Kindly refer corrigendum	1. Lookman Electroplast Industries Ltd (2) 2. Radius Infotech (P) LTD. (1)



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		camera positions in 3D space.	2. We request the deletion of this clause as the same is OEM restrictive and also deleted from the on going RFP of Delhi Police for 6630 CCTV after pre bid meeting.		
393.	4.8.11 Joystick for PTZ camera at Workstation- 5/318 (1)	5. Function Keys: Easy access to 4 application commands for an optimized workflow.	Joystick usually do not supported this feature. Thus, requesting to please delete the clause.	As per RFP	1. Radius Infotech (P) LTD.
394.	4.8.11 Joystick for PTZ camera at Workstation- 6/318 (5)	6. Display: Provides a visual reminder of function key assignments on your computer screen	2. 6. Display: Provides a visual reminder of function key assignments on your computer screen Request you to clear whether required the output on Joystick display or on the computer. 3. Joystick usually do not supported this feature. Thus, requesting to please delete the clause. 4. Request you to clear whether required the output on Joystick display or on the computer.	Kindly refer corrigendum	1. Globalrays Technologies (2) 2. Triflex Solutions (4) 3. Radius Infotech (P) LTD. (3) 4. Bodhtree (2) 5. PruTech Solutions India Pvt. Ltd.(2)
395.	4.8.11 Joystick for PTZ camera at Workstation- 7/318 (5)	7. Modifier: Fingertip access to Ctrl, Shift, Alt and Esc keys saves time by reducing the need to move your hand between mouse and Joystick	1. 7. Modifier: Fingertip access to Ctrl/Shift/Alt/Enter and Esc/Clear keys saves time by reducing the need to move your hand between mouse and Joystick Request you to change the specification as requested as every OEM have their own design & functionality. Also clear the use of these buttons. 2. Joystick usually do not supported this feature. Thus, requesting to please delete the clause.	Kindly refer corrigendum	1. Globalrays Technologies (1) 2. Triflex Solutions (1) 3. Radius Infotech (P) LTD. (2) 4. Bodhtree (1) 5. PruTech Solutions India Pvt. Ltd.(1)



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396.	4.8.11 Joystick for PTZ camera at Workstation- 8/318 (5)	8. Numpad: Allows direct numerical input into your application using your standard mouse rather than the Joystick	8. Numpad: Allows direct numerical input into your application using your standard mouse rather than the Joystick Request you to clear this as the numeric value inputs wither we can take through Joustick or through VMS with the help of mouse. - Joystick is only supported for this feature not standard mouse. Thus, requesting to please delete the clause. - Request you to clear this as the numeric value inputs wither we can take through Joustick or through VMS with the help of mouse.	Kindly refer corrigendum	- Globalrays Technologies (1) - Triflex Solutions (3) - Radius Infotech (P) LTD. (2) - Bodhtree (1) - PruTech Solutions India Pvt. Ltd.(1)
397.	4.8.11 Joystick for PTZ camera at Workstation- 9/318 (1)	9. System flexibility: The Joystick must be part of an integrated system and shall be configured so any number can be added to the system. When combined with user interfaces (UIs), network storage managers (NSM's), encoders, IP cameras, and video consoles	Joystick do not support integration to 3rd party. Thus, requesting to please delete the clause.	As per RFP	Radius Infotech (P) LTD.
398.	4.8.11 Layer 2 Network Switch- 24 Ports -19/318 (10)	19. Switch should have min. 130Watt PoE budget	19. Should have min. 370Watt PoE budget. 193W/130W PoE not as per standard (802.3af/802.3at) for 24 Ports PoE Switch, so please revise Min 370W/740W PoE Budget - This clause is in contradiction to clause 3, hence request you to	Kindly refer corrigendum:	- Cisco (2) - Globalrays Technologies (1) - Alcatel Lucent Enterprise (3) - Techspire Services Pvt. Ltd. (3) - Triflex Solutions (1)



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			kindly modify the same as "Should have min 350Watt PoE+ budget" 3. This contradicts Point 3 (130w) Request to increase the power budget to 380w. All future devices will be PoE powered and not AC powered. So this is mandatory requirement Techspire Services 4. This contradicts Point 3 (130w) Request to increase the power budget to 380w. It is submitted that the future devices will fetch power from the switch ports only. There will be minimal requirement of AC supply so as to not incurr recurring power charges. The PoE budge for L2 switch at DC is requested to be kept at 380W to cater to the scalable and future needs on this new Data Center infrastructure to meet the long term requirements.		6. Matrix Security & Surveillance Pvt Ltd (2) Cisco (2) 7. iValue InfoSolutions Pvt. Ltd (3) 8. Online Micro Services Private Limited (3) 9. Techspire Services
399.	4.8.11 Layer 2 Network Switch-24 Ports -20/318 (10)	20. RoHS, Energy Efficient Ethernet, REACH compliance. FCC Class A; NRTL UL; FDA 21 CFR, EN 61000-4-5: Surge	1. 20. RoHS, Energy Efficient Ethernet, RoHS /REACH compliance. FCC Class A; NRTL UL or UL; FDA 21 CFR, EN 61000-4-5: 6KV Surge Protection For larger participation, Leverage will allow all the vendors to participate with the specifications and department will be benefited by getting very competitive product in terms of technology & pricing. otherwsie only single OEM will qualify for this Bid.	Kindly refer corrigendum	1. Cisco (2) 2. HPE (5) 3. Globalrays Technologies (1) 4. HPE (5) 5. Matrix Security & Surveillance Pvt Ltd (4,2) 6. Tejas Networks (3) 7. Triflex Solutions(1)



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			2. Every OEM will go for IEC/FCC/CISPR or its equivalent certification, hence in order to have participation from leading OEM, kindly modify the clause as "RoHS, Energy Efficient Ethernet, REACH compliance. FCC Class A; NRTL UL or equivalent; FDA 21 CFR, EN 61000-4-5: Surge or equivalent" 3. REACH is an European Union regulation certification for the production and use of chemical substances and FDA21 CFR is US regulation for governing Food and Drugs. Both of these standards are foreign regulatory standards and restrictive for Indian OEMs to participate. We request for deletion of REACH and FDA21 CFR. Please amend the clause as "RoHS, Energy Efficient Ethernet, FCC Class A; NRTL UL; EN 61000-4-5: Surge". kindly confirm. 4. RoHS, Energy Efficient Ethernet, REACH compliance. FCC Class A; NRTL UL; FDA 21 CFR, EN 61000-4-5: Surge or equivalent safety and emissions standards The certified safety and emission standards vary between OEMs. Request to accept equivalent safety and emissions standards 5. Suggestive Input/Change Request:RoHS, Energy Efficient Ethernet, REACH compliance. FCC		



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			Class A; NRTL UL; FDA 21 CFR, EN 61000-4-5: Surge or equivalent safety and emissions standards. Justification: The certified safety and emission standards vary between OEMs. Request to accept equivalent safety and emissions standards		
400.	4.8.11 Layer 2 Network Switch- 24 Ports -21/318 (2)	21. The switch & transceivers should be from the same OEM	Leading L2/L3 Switch OEMs procure the SFPs from 3rd Party OEMs for SFPs. Subject clause is restrictive against participation by most of Switch OEMs , especially Domestic OEMs. BECIL: Leading L2/L3 Switch OEMs procure the SFPs from 3rd Party OEMs for SFPs. Subject clause is restrictive against participation by most of Switch OEMs , especially Domestic OEMs. As per IEEE guidelines, SFPs are required to be MSA complied. Hence, we request you to amend the clause " All the Transceivers/Modules of the Switches should be MSA complied"	Kindly refer corrigendum	1. Tejas Networks Ltd 2. BECIL
401.	4.8.11 Joystick for PTZ camera at Workstation- 10/319 (1)	10. Input Connector type (power Supply): Universal Inter changeable	12V Power supply is supported by Joystick. Thus, requesting to please amend the clause as - Input Connector type (power Supply): 12V	As Per RFP	1. Radius Infotech (P) LTD.
402.	4.8.11 C4i Design and Standards- 1/320 (4)	1. This facility being the first of its kind, scale & prestige it is mandatory for the bidder to provide Designer Control Room Solutions without compromising on the safety	As per the CVC OM No. 12-02-1-CTE-6 Dated 17th Dec 2002, "The prequalification criteria is a yardstick to allow or disallow the firms to participate in the bids. A vaguely defined PQ criteria results in stalling	Kindly refer corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. Transline Technologies Pvt. Ltd. 3. Cosmos-Manufacturers 4. INTEC INFONET PVT. LTD.



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		and functionality of the facility. Materials having the adverse impact on the environment and nature shall be deemed unacceptable. To ensure an integrated solution, to qualify as per the international control room design & safety norms; main bidder shall bring one single professional Control Room Interior Solution Provider on board with an experience of designing, manufacturing and installing at least five control rooms interiors with control desks. Supporting work orders and completion / appreciation certificates to be enclosed along with the bid.	the process of finalizing the contract or award of the contract in a non-transparent manner. It has been noticed that organizations, at times pick up the PQ criteria from some similar work executed in the past, without appropriately amending the different parameters according to the requirements of the present work. Very often it is seen that only contractors known to the officials of the organization and to the Architects are placed on the select list. This system gives considerable scope for malpractices, favouritism and corruption. It is, therefore, necessary to fix in advance the minimum qualification, experience and number of similar works of a minimum magnitude satisfactorily executed in terms of quality and period of execution". This RFP is clear violation of the CVC circular because no company other than Pyrotech Workspace Solutions Pvt. Ltd. will be able to qualify. This RFP is made such that only Pyrotech Workspace can qualify only.		
403.	4.8.11 C4i Design and Standards-2/320 (4)	2. The scope of the project includes designing; engineering, supply & installation of 24X7 mission critical Control Center Interiors. As this is a project of National repute, this state-of-the art facility & all its	As per the CVC OM No. 12-02-1-CTE-6 Dated 17th Dec 2002, "The prequalification criteria is a yardstick to allow or disallow the firms to participate in the bids. A vaguely defined PQ criteria results in stalling the process of finalizing the contract or award of the contract in a non-	Kindly refer corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. Transline Technologies Pvt. Ltd. 3. Cosmos-Manufacturers 4. INTEC INFONET PVT. LTD.



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		components viz Frameless glass partition, modular ceiling, flooring, control desk, modular paneling, ceiling luminaries' and its wiring etc. shall be treated as a part of one single solution. Main bidder to submit MAF (Manufacturer's Authorization Form) from professional Control Room Interior Solution. The professional control room solution provider must have experience of supplying a cumulative value of atleast 1000 square meter of metal wall paneling & 1000 square meter of designer metal false ceiling for control room application in past three financial years, the professional control room agency must have experience of designing, manufacturing and installing at least five police control rooms interior projects with control desks	transparent manner. It has been noticed that organizations, at times pick up the PQ criteria from some similar work executed in the past, without appropriately amending the different parameters according to the requirements of the present work. Very often it is seen that only contractors known to the officials of the organization and to the Architects are placed on the select list. This system gives considerable scope for malpractices, favouritism and corruption. It is, therefore, necessary to fix in advance the minimum qualification, experience and number of similar works of a minimum magnitude satisfactorily executed in terms of quality and period of execution". This RFP is clear violation of the CVC circular because no company other than Pyrotech Workspace Solutions Pvt. Ltd. will be able to qualify. This RFP is made such that only Pyrotech Workspace can qualify only.		
404.	4.8.11 C4i Design and Standards- 3/320 (4)	3. The entire design proposal must be modular, Flexible, Dynamic, Scalable, Expandable and re-deployable to accommodate any technological changes / future needs which are not envisaged now. Modularity	As per the CVC OM No. 12-02-1-CTE-6 Dated 17th Dec 2002, "The prequalification criteria is a yardstick to allow or disallow the firms to participate in the bids. A vaguely defined PQ criteria results in stalling the process of finalizing the contract or award of the contract in a non-	Kindly refer corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. Transline Technologies Pvt. Ltd. 3. Cosmos-Manufacturers 4. INTEC INFONET PVT. LTD.



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		enables in quick and easy up-gradation. It is mandatory for the main bidder that the control room interior solution provider supplies all elements & executes all the activities like ceiling, flooring, control desks, paneling, partitions & illumination to avoid interface & Quality related issues.	transparent manner. It has been noticed that organizations, at times pick up the PQ criteria from some similar work executed in the past, without appropriately amending the different parameters according to the requirements of the present work. Very often it is seen that only contractors known to the officials of the organization and to the Architects are placed on the select list. This system gives considerable scope for malpractices, favouritism and corruption. It is, therefore, necessary to fix in advance the minimum qualification, experience and number of similar works of a minimum magnitude satisfactorily executed in terms of quality and period of execution". This RFP is clear violation of the CVC circular because no company other than Pyrotech Workspace Solutions Pvt. Ltd. will be able to qualify. This RFP is made such that only Pyrotech Workspace can qualify only.		
405.	4.8.11 C4i Design and Standards-4/320 (4)	4. Control room solution provider with an experience of doing at-least Two control room studies will be preferred. Control room solution provider declaration and reference PO copies to be submitted.	As per the CVC OM No. 12-02-1-CTE-6 Dated 17th Dec 2002, "The prequalification criteria is a yardstick to allow or disallow the firms to participate in the bids. A vaguely defined PQ criteria results in stalling the process of finalizing the contract or award of the contract in a non-transparent manner. It has been noticed that organizations, at times	Kindly refer corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. Transline Technologies Pvt. Ltd. 3. Cosmos-Manufacturers 4. INTEC INFONET PVT. LTD.



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			pick up the PQ criteria from some similar work executed in the past, without appropriately amending the different parameters according to the requirements of the present work. Very often it is seen that only contractors known to the officials of the organization and to the Architects are placed on the select list. This system gives considerable scope for malpractices, favouritism and corruption. It is, therefore, necessary to fix in advance the minimum qualification, experience and number of similar works of a minimum magnitude satisfactorily executed in terms of quality and period of execution". This RFP is clear violation of the CVC circular because no company other than Pyrotech Workspace Solutions Pvt. Ltd. will be able to qualify. This RFP is made such that only Pyrotech Workspace can qualify only.		
406.	4.8.11 C4i Design and Standards- 5/320 (5)	5. Modular Paneling - Self inter lockable metal panels with front sheet of Preformed Textured galvanized sheet with a coating to avoid rust.	Add on point in existing creteria As Delhi falls under seismic zone 4 it is must to ensure safety in the final product i.e Metal Paneling, Metal Ceiling & control desks, so it is recommended to use below mentioned information:- 1. Earthquake Safety: Seismic safety of user & control room equipment is a prime concern area. The metal ceiling, metal panelling & control desks must sustain the seismic vibrations as per design spectrum IS	As per RFP	1. Marushika Technology Advisors Pvt. Ltd. 2. Pyrotech Workspace Solutions Private Limited 3. Transline Technologies Pvt. Ltd. 4. Cosmos-Manufacturers 5. INTEC INFONET PVT. LTD.



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			1893 for zone 4 vibrations. The test must be carried out by authorized government agency. Test Report to be submitted along with the technical bid.		
407.	4.8.11 C4i Design and Standards-10/321 (4)	10. Tiles Perforation – UL/NABL/Government approved test laboratory certified audited certified design feature on modular wall paneling tile having clean perforations and providing smooth finish on front fascia of tiles. Valid UL audit certificate to be submitted along with the Technical bid.	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particur vendor.	Kindly refer corrigendum	1. Cosmos-Manufacturers 2. Marushika Technology Advisors Pvt. Ltd. 3. Intec Infonet 4. INTEC INFONET PVT. LTD. 5. Transline Technologies Pvt. Ltd. 6. Intec Infonet



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408.	4.8.11 C4i Design and Standards- 11/321 (8)	11. UL/NABL/Government approved test laboratory certified audited certified design feature of Load bearing capacity of Paneling - Paneling structure shall have load carrying capacity of 300 Kg to hold any display unit on clamp having minimum length of 750mm. Valid UL audit Certificate / NABL / Government approved test laboratory certified audited certified to be submitted along with the technical bid.	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particular vendor.	Kindly refer corrigendum	1. Cosmos-Manufacturers 2. INTEC INFONET PVT. LTD. 3. Marushika Technology Advisors Pvt. Ltd. 4. Transline Technologies Pvt. Ltd.
409.	4.8.11 C4i Design and Standards- 13/321 (4)	13. The control room solution provider shall propose three colour options in advance during approval stage and shall change the approved colour scheme in future at no cost.	--	As per RFP	1. Marushika Technology Advisors Pvt. Ltd. 2. Cosmos-Manufacturers 3. INTEC INFONET PVT. LTD. 4. Transline Technologies Pvt. Ltd.
410.	4.8.11 C4i Design and Standards-	14. Paneling/cladding tiles shall be designed to achieve shape and design as per the	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s	As per RFP (This clause reads about the design feature to get an aesthetically appealing	1. Marushika Technology Advisors Pvt. Ltd. 2. Cosmos-Manufacturers



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	14/321 (4)	design consultant with the combination of acrylic panels with lights, designed to enhance visual feel, with provision for easy installation and maintenance.	Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particular vendor.	control room with proper installation and maintenance facilities. This is an open requirement and is not proprietary to any single OEM/company.)	3. INTEC INFONET PVT. LTD. 4. Transline Technologies Pvt. Ltd.
411.	4.8.11 C4i Design and Standards- 16/321 (4)	16. Factory made acoustic modular metal false ceiling of powder coated panels. Make shall comprising of perforated and non-perforated metal panels made through CNC laser Cutting, bending & punching. Customized 3-D metal ceiling as per the enclosed control room image	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particular vendor.	Kindly refer corrigendum	1. Cosmos-Manufacturers 2. INTEC INFONET PVT. LTD. 3. Marushika Technology Advisors Pvt. Ltd. 4. Transline Technologies Pvt. Ltd.
412.	4.8.11 C4i Design and Standards-	17. Ceiling in viewing gallery: The baffle ceiling shall be made of GI/MS sheet or	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s	As per RFP (This clause reads about the design feature to get an aesthetically appealing	1. Transline Technologies Pvt. Ltd.



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	17/321 (5)	extruded Aluminum. The ceiling baffles planks shall have integrated illumination channel which shall be processed on Machine to have dimensions to suit control room illumination requirement.	Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particur vendor.	control room to suit control room illumination requirement facilities.)	2. Marushika Technology Advisors Pvt. Ltd. 3. Cosmos-Manufacturers 4. INTEC INFONET PVT. LTD.
413.	4.8.11 C4i Design and Standards- 6/321 (4)	6. Control Room Interior shall be Green guard gold Certified (Modular Metal Ceiling, Flooring & Modular Metal wall paneling).	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particur vendor.	Kindly refer corrigendum	1. Cosmos-Manufacturers 2. INTEC INFONET PVT. LTD. 3. Marushika Technology Advisors Pvt. Ltd. 4. Transline Technologies Pvt. Ltd.
414.	4.8.11 C4i Design and Standards-	7. Integrated Ceiling & Paneling: UL / NABL / Government approved test	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s	Kinldly refer corrigendum	1. Cosmos-Manufacturers 2. INTEC INFONET PVT. LTD.



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	7/321 (4)	laboratory certified audited certified design feature of Modular Metal Ceiling & Paneling for integrated look of interior application	Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particur vendor.		3. Marushika Technology Advisors Pvt. Ltd. 4. Transline Technologies Pvt. Ltd.
415.	4.8.11 C4i Design and Standards- 8/321 (4)	8. The Modular Metal Paneling, Modular Control Desks and Designer Metal Ceiling shall be RoHS certified to ensure restriction of hazardous substance so that the final product does not contaminate the environment. Valid RoHS Certificate to be submitted along with the technical bid by NABL/ Government approved test laboratory.	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particur vendor.	Kindly refer corrigendum	1. Cosmos-Manufacturers 2. Marushika Technology Advisors Pvt. Ltd. 3. INTEC INFONET PVT. LTD. 4. Transline Technologies Pvt. Ltd.
416.	4.8.11 C4i Design and Standards-	9. Sound transmission class (STC) value should be 35 for	--	As per RFP	1. Cosmos-Manufacturers 2. Marushika Technology Advisors Pvt. Ltd.



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	9/321 (4)	Wall Paneling & Partition test report from reputed agency			3. INTEC INFONET PVT. LTD. 4. Transline Technologies Pvt. Ltd.
417.	4.8.11 C4i Design and Standards-18/322 (4)	18. Modular perforated metal plank false ceiling should have Noise absorption coefficient (NRC) value 0.60 per IS:8225-1987, test report from reputed agency to be submitted	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particur vendor.	Kindly refer corrigendum	1. Transline Technologies Pvt. Ltd. 2. Cosmos-Manufacturers 3. INTEC INFONET PVT. LTD. 4. Marushika Technology Advisors Pvt. Ltd.
418.	4.8.11 C4i Design and Standards-19/322 (4)	19. The non-uniform gaps (up to 750mm) between the designer metal Ceiling and the adjacent walls / partition shall be covered with calcium silicate ceiling.	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no.	As per RFP (It is very generic clause which reads about material of construction and its finish. This is an open requirement)	1. Marushika Technology Advisors Pvt. Ltd. 2. Transline Technologies Pvt. Ltd. 3. Cosmos-Manufacturers 4. INTEC INFONET PVT. LTD.



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			14/4/07 dated 30th April 2007, issued against usage of standard specification of any particur vendor.		
419.	4.8.11 C4i Design and Standards- 20/322 (5)	20. False Flooring: Top surface shall finish with Carpet flooring. Top surface should be finished with durable & environment friendly acoustic carpet pasted with special glue.	1. It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attaract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particur vendor. 2. Please share the detailed specifications of False floor to be offered	As per RFP (It is very generic clause which reads about material of construction and its finish. This is an open requirement) C-DAC will share the false floor diagram after NDA signing.	1. Marushika Technology Advisors Pvt. Ltd.(1) 2. Transline Technologies Pvt. Ltd. 3. Cosmos-Manufacturers 4. INTEC INFONET PVT. LTD.(1) 5. Schneider Electric(2)
420.	4.8.11 C4i Design and Standards- 21/322 (4)	21. Carpet flooring- Minimum 4 mm thick acoustic carpet flooring shall meet the requirement of EN 1307 (shall have Impact sound of minimum Lw = 19 dB as per (ISO 717-2)).	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special	As per RFP (It is very generic clause which reads about material of construction and its finish. This is an open requirement, for Certification Indian government certificate is also asked)	1. Marushika Technology Advisors Pvt. Ltd. 2. Transline Technologies Pvt. Ltd. 3. Cosmos-Manufacturers 4. INTEC INFONET PVT. LTD.



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		Flooring shall be decorative type of approved shade, pattern, texture and design and	certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particur vendor.		
421.	4.8.11 C4i Design and Standards- 22/322 (4)	22. Metal Doors (with OR without Vision Panel): - With door hinges and locking arrangements and both way handle. Prepare with rigid thermo fused film metal panels. Specification: 0.6mm thick Metal panel sheets, cavity filled with honeycomb inside adequate	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particur vendor.	As per RFP (It is very generic clause which reads about material of construction and its finish. This is an open requirement)	1. Marushika Technology Advisors Pvt. Ltd. 2. Transline Technologies Pvt. Ltd. 3. Cosmos-Manufacturers 4. INTEC INFONET PVT. LTD.
422.	4.8.11 C4i Design and Standards- 23/322 (4)	23. 12mm thick frameless tempered clear glass door: - With door spring and locking arrangements and both way handle and patch fittings.	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special	As per RFP (It is very generic clause which reads about material of construction and its finish. This is an open requirement)	1. Marushika Technology Advisors Pvt. Ltd. 2. Transline Technologies Pvt. Ltd. 3. Cosmos-Manufacturers 4. INTEC INFONET PVT. LTD.



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			certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particur vendor.		
423.	4.8.11 C4i Design and Standards- 24/322 (4)	24. Illumination: - Control Room illumination shall be designed as per ISO 11064 norms. To ensure an integrated solution, to qualify as per the international control room design & safety norms; main bidder shall bring one single professional Control Room Interior Solution Provider on board with an experience of designing, manufacturing and installing at least twenty control rooms interiors with control desks. These packages should have been executed on or before Bid release date. Supporting work orders and completion / appreciation certificates to be enclosed along with the bid.	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particur vendor.	Kindly refer corrigendum	1. Transline Technologies Pvt. Ltd. 2. Cosmos-Manufacturers 3. INTEC INFONET PVT. LTD. 4. Marushika Technology Advisors Pvt. Ltd.



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424.	4.8.11 C4i Design and Standards- 25/322 (8)	25. Table-top: - The material of the working surface should be minimum 25 mm thick MDF with High Pressure ANSI/NEMA LD3 certified scratch-resistant Laminate. The EPD (Environmental product declaration) of control desk must be verified in accordance with ISO 14025 for Impacts on Environment by Console. Valid document must be submitted along with the bid. to be audit certified by NABL/Government approved test laboratory.	1. Add on point in existing criteria this being a state-of-the-art facility in the national capital, it is recommended to add the below feature 1. Each operator desk shall have touch panel having five modules. The first functional module shall be used to power on/off the Task Light, next two modules to adjust the intensity of task light and the balance module for any further customization. 2. It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particular vendor.	Kindly refer corrigendum	1. Transline Technologies Pvt. Ltd. 2. Cosmos-Manufacturers 3. INTEC INFONET PVT. LTD. 4. Marushika Technology Advisors Pvt. Ltd. 5. Pyrotech Workspace Solutions Private Limited



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			3. Please add UL/Reputed along with NABL/Government approval test laboratory.		
425.	4.8.11 C4i Design and Standards- 26/322 (5)	26. Console Structure - To allow future extension and expansion, a weld free system shall be proposed. Interconnecting joints shall not be visible. The structure shall allow easy assembly of Hinged Shutters, Slat wall, Gland Plate, Monitor arms in extremely rigid manner.	1. Add on point in existing creteria To ensure safety in the final product i.e control desk it is recommended to use below mentioned information:- 1. Earthquake Safety: Seismic safety of user & control room equipment is a prime concern area. Control Desk shall be tested and qualified to sustain Seismic vibrations as per design spectrum IS 1893 for zone 4 vibrations with monitor mounted on monitor arms of the console. Seismic test report of bare control desk shall be deemed unacceptable. This test must be carried out by authorised government agency. Test report with images of control desk seismic test should be submitted along with the bid. 2. It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech	1. As per RFP: (Minimum specifications are provided, MSI has to considered as per the requirements) 2. As per RFP (This is projects requirement and this being the project of national reput we are looking for state of the art design. This is an open requirement and is not proprietary to any single OEM/company.)	1. Marushika Technology Advisors Pvt. Ltd.(2) 2. Transline Technologies Pvt. Ltd. 3. Cosmos-Manufacturers 4. INTEC INFONET PVT. LTD. 5. Pyrotech Workspace Solutions Private Limited(1)



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			Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particular vendor.		
426.	4.8.11 C4i Design and Standards- 27/322 (4)	27. The Console OEM should be an FSC Certified manufacturer from a reputed certifying agency. The professional agency should have valid Trademark registration issued by Government of India for the console offered. Valid Trademark certificate should be attached along with the technical bid.	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particular vendor.	Kindly refer corrigendum	1. Transline Technologies Pvt. Ltd. 2. Cosmos-Manufacturers 3. INTEC INFONET PVT. LTD. 4. Marushika Technology Advisors Pvt. Ltd.
427.	4.8.11 C4i Design and Standards- 28/323 (4)	28. The Control Desk cable manager opening, and rear edge of desktop shall be protected from minimum 5mm high no spill edge, it shall come above desktop surface to prevent liquid from spilling inside the	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports	Kindly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. Transline Technologies Pvt. Ltd. 3. Cosmos-Manufacturers 4. INTEC INFONET PVT. LTD.



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		CPU/Equipment Cabinet. Material of edge shall be Po Polyurethane.	asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particur vendor.		
428.	4.8.11 C4i Design and Standards- 29/323 (4)	29. Monitor Arm: - UL/NABL/Government approved test laboratory certified design feature of monitor arm assembly shall have auto lock, push & remove feature for quick release of VESA mounts and modular arm extensions	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particur vendor.	Kindly refer corrigendum	1. INTEC INFONET PVT. LTD. 2. Transline Technologies Pvt. Ltd. 3. Cosmos-Manufacturers 4. Marushika Technology Advisors Pvt. Ltd.
429.	4.8.11 C4i Design and Standards- 30/323 (4)	30. Slat Wall: The slat wall shall have provision to install acrylic sheet / glass panel above it. This sheet / panel shall bear laser cut company logo on the upper left corner and shall be programmable to indicate illuminated	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports	Kindly refer corrigendum	1. INTEC INFONET PVT. LTD. 2. Transline Technologies Pvt. Ltd. 3. Cosmos-Manufacturers 4. Marushika Technology Advisors Pvt. Ltd.



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		emergency indication feature	asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particur vendor.		
430.	4.8.11 C4i Design and Standards- 31/323 (4)	31. Modular metal wall panels (at a height of 1.2 meters from floor) and peripheral metal ceiling tiles shall have integrated illuminated indicators. These indicators can be changed to different colours like blue, green and red during different control ro	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particur vendor.	As per RFP	1. Marushika Technology Advisors Pvt. Ltd. 2. INTEC INFONET PVT. LTD. 3. Transline Technologies Pvt. Ltd. 4. Cosmos-Manufacturers
431.	4.8.11 C4i Design and Standards- 32/323 (5)	32. Provide live data of Humidity & temperature of the control room.	1. It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd.	As per RFP	1. Marushika Technology Advisors Pvt. Ltd.(1) 2. Transline Technologies Pvt. Ltd.



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			(Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particular vendor. 2. Since it is a mission critical control room hence it is recommended that the supervisor/main operator desk shall have a dynamic touch screen with following features: - 1. Provide live data of Humidity & temperature of the control room. 2. Control the indicators to change the colours like blue, green and red during different control room scenarios viz. VIP visits, shift change and emergency respectively.		3. Cosmos-Manufacturers (1) 4. Pyrotech Workspace Solutions Private Limited (2) 5. INTEC INFONET PVT. LTD.
432.	4.8.11 C4i Design and Standards-33/323 (4)	33. Two exhaust fans shall be provided in every cabinet. Both the fans shall automatically start upon crossing the threshold temperature.	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job	Kindly refer corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. Transline Technologies Pvt. Ltd. 3. Cosmos-Manufacturers 4. INTEC INFONET PVT. LTD.



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			of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particular vendor.		
433.	4.8.11 C4i Design and Standards- 34/323 (5)	34. Interactive Desk: One touch table of 55" (diagonal size) shall be provided in viewing gallery for visitor's interface with the control room environment for process understanding of control room. The horizontal touch screen shall become vertical at a touch of a button for multi-purpose use.	1. Add on point in existing criteria To ensure safety of the operators, it is recommended to use below mentioned information:- The Control Room entrance shall feature a concealed screening kiosk. This CE certified device shall check & reduce the risk of spread of Coronaviruses in an easy, practical & methodical way. The unit shall be touchless for instant measurement & recording of body temperature & SpO2 levels. The device shall have sensor operated hand sanitizing unit and an integrated touch-less UV-C Box to disinfect bag, cell phone and keys. UV-C Box shall kill 99% Viruses and Bacteria within 10 seconds on the exposed surface of the belongings. Physical test report for virus disinfection (including coronavirus) on UVC box through UV-C light to be submitted for	Kindly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd. (2) 2. Transline Technologies Pvt. Ltd. (2) 3. Cosmos-Manufacturers (2) 4. INTEC INFONET PVT. LTD. (2) 5. Pyrotech Workspace Solutions Private Limited (1)



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			project level approval. Device shall have built-in PC to record all data (in encrypted format) and can be accessed by authorized personnel through USB/LAN networks. The kiosk data can be retrieved/accessed/monitored on the touch screen which is installed on the supervisor/main operator desk. 2. It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particular vendor.		
434.	4.8.11 C4i Design and Standards- 35/323 (4)	35. A prototypical design approach must be adopted for design of control centers & consoles so, it must be	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd.	Kindly refer corrigendum	1. Transline Technologies Pvt. Ltd. 2. Cosmos-Manufacturers 3. INTEC INFONET PVT. LTD.



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		prepared in strict compliance to ISO 11064 i.e. Ergonomic Design of control centers. Professional control room interior solution provider to submit an ergonomic study report including control room & desk along with the bid. The study must cover, Lux level reports as per industry acceptable illumination levels, spatial arrangement for efficient & safe movement of operators within the control room during normal and emergency situations, Ideal viewing angles (of operators) to ensure little head movement and minimal eye movement. All these considerations must be shown in the drawings during bid submission and the report must be signed by an ergonomist who has an experience of doing at-least Two projects of control room ergonomic study.	(Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particur vendor.		4. Marushika Technology Advisors Pvt. Ltd.
435.	4.8.11 C4i Design and Standards-36/323 (4)	36. The requirements must be elaborated via a smart virtual-reality module with auto-recommendation during design approval stage before commencement of job.	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special	Kindly refer Corrigendum	1. Transline Technologies Pvt. Ltd. 2. Cosmos-Manufacturers 3. INTEC INFONET PVT. LTD. 4. Marushika Technology Advisors Pvt. Ltd.



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			certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particur vendor.		
436.	4.8.11 C4i Design and Standards- 37/324 (4)	37. To achieve acoustics without deteriorating the aesthetical appeal of the control room it is necessary that the wall paneling tiles have clean micro-perforations all over the surface.	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particur vendor.	As per RFP	1. Transline Technologies Pvt. Ltd. 2. Cosmos-Manufacturers 3. INTEC INFONET PVT. LTD. 4. Marushika Technology Advisors Pvt. Ltd.
437.	4.8.11 C4i Design and Standards- 38/324 (4)	38. To ensure operator's well-being it is mandatory that the wall paneling/claddings, modular metal ceilings, false floor finishes & control desk emit low VOCs (within	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special	Kindly refer Corrigendum	1. Transline Technologies Pvt. Ltd. 2. Cosmos-Manufacturers 3. INTEC INFONET PVT. LTD. 4. Marushika Technology Advisors Pvt. Ltd.



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		permissible limits) hence, these shall be tested & certified as per standard method for.....	certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particur vendor.		
438.	4.8.11 C4i Design and Standards-39/324 (4)	39. The modular metal paneling, modular control desks and designer metal ceiling must comply to the lead-free directive to ensure restriction of hazardous substances so that the final product does not contaminate the environment. The final product i.e. de	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particur vendor.	Kindly refer Corrigendum	1. Transline Technologies Pvt. Ltd. 2. Cosmos-Manufacturers 3. INTEC INFONET PVT. LTD. 4. Marushika Technology Advisors Pvt. Ltd.
439.	4.8.11 C4i Design and Standards-40/324 (4)	40. Console should have certificate of safety for commercial furnishings along with 200 kg of load carrying capacity on the working surface.	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special	As per RFP	1. Transline Technologies Pvt. Ltd. 2. Cosmos-Manufacturers 3. INTEC INFONET PVT. LTD. 4. Marushika Technology Advisors Pvt. Ltd.



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			certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particular vendor.		
440.	4.8.11 C4i Design and Standards-41/324 (4)	41. Material like wall paint, gypsum, wood, laminate cladding and fabric should not be used in control room interiors. Conventional office interior shall be deemed unacceptable. From fire safety point of view the metal ceiling tile & metal wall paneling tiles shall be class A fire rated as per the norms of comparative measurements of surface flame spread and smoke density measurements with that of select grade red oak and fiber-cement board surfaces under the specific fire exposure conditions. Valid document to be submitted along with the bid.	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particular vendor.	Kindly refer corrigendum	1. Transline Technologies Pvt. Ltd. 2. Cosmos-Manufacturers 3. INTEC INFONET PVT. LTD. 4. Marushika Technology Advisors Pvt. Ltd.
441.	4.8.11 C4i Design and Standards-42/324 (4)	42. It is mandatory for the main bidder that the control room interior solution provider supplies all	As per the CVC OM No. 12-02-1-CTE-6 Dated 17th Dec 2002, "The prequalification criteria is a yardstick to allow or disallow the firms to	As per RFP	1. Transline Technologies Pvt. Ltd. 2. Cosmos-Manufacturers 3. INTEC INFONET PVT. LTD.



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		elements & executes all the activities like ceiling, flooring, control desks, paneling, partitions & illumination to avoid interface & quality related issues.	participate in the bids. A vaguely defined PQ criteria results in stalling the process of finalizing the contract or award of the contract in a non-transparent manner. It has been noticed that organizations, at times pick up the PQ criteria from some similar work executed in the past, without appropriately amending the different parameters according to the requirements of the present work. Very often it is seen that only contractors known to the officials of the organization and to the Architects are placed on the select list. This system gives considerable scope for malpractices, favouritism and corruption. It is, therefore, necessary to fix in advance the minimum qualification, experience and number of similar works of a minimum magnitude satisfactorily executed in terms of quality and period of execution". This RFP is clear violation of the CVC circular because no company other than Pyrotech Workspace Solutions Pvt. Ltd. will be able to qualify. This RFP is made such that only Pyrotech Workspace can qualify only.		4. Marushika Technology Advisors Pvt. Ltd.
442.	4.8.12 Workstations with 3 nos. 24 Monitors- 12/325 (1)	12. Expansion Slots: Minimum "1" PCIe x16 Gen3; "2" PCIe x4/x8 Gen3; "1" M.2 or more	Minimum "2" PCIe x16 Gen4; "1" PCIe x1 Gen3; "2" M.2 Slot PCIe Gen4 or more	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd



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443.	4.8.12 Workstations with 3 nos. 24 Monitors- 14/325 (1)	14. I/O: 4 - USB 3.1 1 - USB 3.1 Type C 1 - Audio Jack/ Microphone & Headphone 4 - DisplayPort 2 - RJ45 Network Connector	5 - USB 3.1 Type-A / Type-C or more 1 - Audio Jack/ Microphone & Headphone 4 - DisplayPort 2 - RJ45 Network Connector	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd
444.	4.8.12 Workstations with 3 nos. 24 Monitors- 2/325 (1)	2. Processor: Intel Xeon Processor, 8 Cores, 16MB Cache, 3.8Ghz base frequency, 4.7Ghz Turbo frequency or higher processor	AMD Ryzen / Intel Xeon Processor, 8 Cores, 16MB Cache, 3.6Ghz base frequency or better	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd
445.	4.8.12 Workstations with 3 nos. 24 Monitors- 5/325 (1)	5. Chipset: Intel Workstation Chipset 400 Series or higher	AMD 500 Chipset / AMD WRX80 Chipset / Intel Workstation Chipset 400 Series or higher	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd
446.	4.8.12 LED Monitor- 55" Display- 11/326 (1)	11. Duty Cycle : 12/7	We request to consider 24/7 duty cycle. since this display is going to use for monitoring for 24 hrs. Pls ask for 24/7 Duty cycle. 12/7 is use in consumer display	Kindly refer corrigendum	1. LG
447.	4.8.12 LED Monitor- 55" Display- 12/326 (2)	12. Certifications UL/EN/CE/IEC/BIS certification for Safety and CE/FCC Certifications for EMC & Immunity.	We request you to consider only standard Certificates like UL/NRTL,FCC,BIS , Note CE is very generic Test all low grade produces are having this We request you to consider only standard Certificates like UL/NRTL,FCC,BIS , Note CE is very generic Test all low grade produces are having this	Kindly Refer Corrigendum	1. LG Electronics India Pvt. Ltd. LG



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453.	4.8.12 LED Monitor- 55" Display- 5/326 (1)	5. Brightness : 350 cd/m2 (typical)	We request to consider 500 cd/m2 brightness for more clarity since 350 cd/m2 is use in consumer display series	Kindly Refer Corrigendum	1. LG
454.	4.8.12 LED Monitor- 55" Display- 6/326 (2)	6. Contrast Ratio 4000:1 (typical)	We request you to consider (Typical/Dynamic Contrast), Contrast is based on Panel Technology of OEMS , IPS & VA , Both are having different USP's , All Major Brands are using IPS technology(1100:1 or Higher for IPS & 500,000:1 Dynamic Contrast , 4000 :1 for VA technology & 50,000:1 Dynamic Contrast)	Kindly Refer Corrigendum	1. LG Electronics India Pvt. Ltd. 2. LG
455.	4.8.12 LED Monitor- 55" Display- 9/326 (2)	2 x HDMI 2.0 1 x Display Port 1 x VGA 2 x USB Ports	We request you to consider HDMI-2,DVI-1,DP-1 ,USB-1 & DP-1 Out to share display if required in future , Note - VGA Port is End of life port , Some chinese Brands are still manufacturing , But not availabe in any Reputed Brands in India	Kindly Refer Corrigendum	1. LG Electronics India Pvt. Ltd. 2. LG
456.	4.8.12 Workstations to Display Wall inputs- 2/326 (1)	2. Processor: Intel Xeon Processor, 8 Cores, 16MB Cache, 3.8Ghz base frequency, 4.7Ghz Turbo frequency or higher processor	AMD Ryzen / Intel Xeon Processor, 8 Cores, 16MB Cache, 3.6Ghz base frequency or better	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd
457.	4.8.12 Workstations to Display Wall inputs- 5/327 (1)	5. Chipset: Intel Workstation Chipset 400 Series or higher	AMD 500 Chipset / AMD WRX80 Chipset / Intel Workstation Chipset 400 Series or higher	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd
458.	4.8.12 Workstations to Display Wall	12. Expansion Slots: Minimum "1" PCIe x16 Gen3;	Minimum "2" PCIe x16 Gen4; "1" PCIe x1 Gen3; "2" M.2 Slot PCIe Gen4 or more	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd



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	inputs- 12/327 (1)	"2" PCIe x4/x8 Gen3; "1" M.2 or more			
459.	4.8.12 Workstations to Display Wall inputs- 14/327 (1)	14. I/O: 4 - USB 3.1 1 - USB 3.1 Type C 1 - Audio Jack/ Microphone & Headphone 4 - DisplayPort 2 - RJ45 Network Connector	5 - USB 3.1 Type-A / Type-C or more 1 - Audio Jack/ Microphone & Headphone 4 - DisplayPort 2 - RJ45 Network Connector	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd
460.	4.8.12 IP Phones/328 (3)	IP Phones (IP Phones Specification)	IP Phones Specification mentioned for C3i (under Infrastructure at C3i) will be registered to IPPBX system mentioned in Data Center and also specification of IP PHONE TYPE 1&2 as given below ref: Page - 431-441 (h. IPPBX) Page - 437 (J: IP PHONE TYPE 1) Page - 437 (K: IP PHONE Type 2) These two specifications are different but since these IP Phones will work with IPPBX, Hence request to mention that IP Phones Specification mentioned in this section should comply to the specification mentioned under IPPBX section IP PHONE TYPE 1, for seamless working of IP Phones with IPPBX	Kindly refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd 2. PruTech Solutions India Pvt. Ltd. 3. Bodhtree
461.	4.8.12 IP Phones- 1/328 (3)	1. Protocols/Standards : SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, TELNET, TFTP, NTP, STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, IPV6	Telnet and PPPoE protocols are not supported due to changing technologies and removal of the same will not impact the desired functionality. Hence in order to have broader participation, kindly change the clause as "Protocols/Standards : SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, TFTP, NTP, STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, IPV6"	Kindly refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco



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462.	4.8.12 IP Phones- 5/328 (3)	5. Feature Keys 8-line keys with up to 4 SIP accounts 4. Bluetooth Yes, integrated	4 SIP accounts are not supported and proprietary to single OEM and not required because of security reasons as each IP phone should be defined with single SIP account and single extension only. Hence request for below changes: Feature Keys 4-line keys with 1 SIP account Bluetooth optional/not required	Kindly refer corrigendum	1. PruTech Solutions India Pvt. Ltd. 2. Matrix Security & Surveillance Pvt Ltd 3. Bodhtree
463.	4.8.12 IP Phones- 6/328 (3)	6. Video Codec : Support for G.729A/B, G.711μ/a-law, G.726, G.722(wide-band), in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)	The Codecs mentioned are Audio Codecs and not the Video Codecs. Kindly clarify. Further, G.726 is also not supported due to changing technologies an removal of the same will not impact the desired functionality, hence we request you to please remove G.726 from the clause and modify the clause as "Audio Codec : Support for G.729A/B, G.711μ/a-law, G.722(wide-band), in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)	Kindly refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
464.	4.8.12 IP Phones- 12/329 (3)	12. Power: Input:100-240V; Output: +12V, 0.5A. Integrated Power-over-Ethernet (802.3af), Max power consumption: 6.4W (power adapter) or 6.49W (PoE)	The Phone draws 6.5 W PoE, hence kindly modify the clause as "Input:100-240V; Output: +12V, 0.5A. Integrated Power-over-Ethernet (802.3af), Max power consumption: 6.4W (power adapter) or 6.5W (PoE)	Kindly refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
465.	4.8.12 IP Phones- 8/329 (3)	8. Telephony Features : Hold, transfer, forward, 4-way conference, call park, call pickup, shared-call appearance /bridged-line-appearance, downloadable	The phone supports 3-way conference, hence for broader participation, please change the clause as "Telephony Features : Hold, transfer, forward, 3-Way conference, call park, call pickup, shared-call appearance /bridged-	Kindly refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco



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		phonebook, call waiting, call log XML	line-appearance, downloadable phonebook, call waiting, call log XML"		
466.	4.8.12 Secured Network Devices(SD WAN) -General 1/330 (20)	1. General: Proposed vendor must be placed in Leader and Challengers Quadrant in Gartner SD-WAN or leader Gartner quadrant for Enterprise Firewall. NSS recommended vendor shall be preferred.	1. SDWAN being a new technologies, Hence request you to please amend this clause as for wider participation: Proposed vendor must be placed in Leader and Challengers Quadrant in Gartner SD-WAN or leader/Visionary Gartner quadrant for Enterprise Firewall or shall be NSS recommended vendor 2. For Make in India OEM this clause has to be eliminated	Kindly refer corrigendum	1. Hewlett Packard Enterprise India Private Limited 2. HPE 3. Matrix Security & Surveillance Pvt Ltd 4. Presto Infosolutions Pvt. Ltd. 5. Cisco 6. iValue InfoSolutions Pvt. Ltd. 7. Sterlite Technologies Limited 8. Larsen & Toubro Ltd 9. presto 10. Forcepoint 11. Infinity lab 12. RAH InfoTech (P) Ltd 13. Forcepoint 14. Infinity Lab
467.	4.8.12 Secured Network Devices(SD WAN) -SDWAN Architecture 1/330 (5)	1. Proposed SDWAN solution should have management-based architecture and if management appliances/solution goes offline the SDWAN solution should keep on functioning without any issues. Must support build in GUI as well for any onsite changes if required	OEM specific clause, hence request you to please amend this clause as All configuration, management, and reporting functions should be accessible Centrally located in DC and if management solution goes offline then SDWAN Edge device should keep on functioning without any issues and should have local access to appliance for changing the local IP, Management IP and port, if required	Kindly Refer Corrigendum	1. Forcepoint 2. iValue InfoSolutions Pvt. Ltd. 3. RAH InfoTech (P) Ltd



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468.	4.8.12 Secured Network Devices(SD WAN) -SDWAN Architecture 2/330 (10)	SDWAN Architecture 2. The bidder shall propose at least one management solution as asked above.	Clarification sought - The Management Plane should be native to the solution and must support configuring, monitoring and troubleshooting WAN, Application and security policies. Is our understanding correct? Kindly clarify.	Kindly refer corrigendum Yes (The Management Solution to support the SDWAN must be provided)	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco 3. Forcepoint 4. iValue InfoSolutions Pvt. Ltd. 5. Sterlite Technologies Limited 6. Larsen & Toubro Ltd 7. RAH InfoTech (P) Ltd
469.	4.8.12 Secured Network Devices(SD WAN) -General 1/330 (10)	The SDWAN device should be supplied with hot swappable Fan tray and redundant hot swappable Power supplies and shall support IPv6 like application identification, Zone protection, management etc. from Day-1	1. Suggestive Input/Change Request The SDWAN device should be supplied with redundant hot swappable Power supplies and shall support IPv6 like traffic forwarding from Day-1 Justification Appliances are deployed in redundancy hence request to remove fan tray redundancy from each appliance. IPv6 traffic forwarding is critical for SDWAN and the features asked for are Firewall features which are addressed using dedicated NGFW appliances. Request to modify the specification accordingly 2. The devices can be in High availability mode, so please allow field replaceable instead of hot swappable. 3. The SDWAN device should be supplied with redundant hot swappable Power supplies and shall support IPv6 like traffic forwarding from Day-1 Appliances are deployed in redundancy hence request to remove fan tray redundancy from each	Kindly refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd (1) 2. Cisco (1) 3. Hewlett Packard Enterprise India Private Limited (1) 4. Versa Networks (2) 5. HPE(1)



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			appliance. IPv6 traffic forwarding is critical for SDWAN and the features asked for are Firewall features which are addressed using dedicated NGFW appliances. Request to modify the specification accordingly		
470.	4.8.12 Secured Network Devices(SD WAN) -SDWAN Architecture 3/330 (4)	SDWAN Architecture 3. Management architecture should have option to be deployed in HA if required in future.	Looking at the network criticality, it is suggested to have HA from Day 1. Request you to please modify the clause as: "The Solution should have active/active HA support at all level - Control Plane, routers at DC/DR."	As per RFP	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco 3. Sterlite Technologies Limited 4. Cisco
471.	4.8.12 Secured Network Devices(SD WAN) -SDWAN Architecture 4/330 (4)	4. Management architecture should support on premise Model as well as have option of hosting on cloud	Suggestive Input/Change Request Management architecture should support on premise Model or have option of hosting on cloud Justification Management model for different OEMs vary. Request to accept on-premise or cloud management and modify the specification accordingly	Kindly Refer Corrigendum	1. Hewlett Packard Enterprise India Private Limited 2. HPE 3. Matrix Security & Surveillance Pvt Ltd
472.	4.8.12 Secured Network Devices(SD WAN) -SDWAN Architecture 6/330 (8)	6. Management architecture should support Virtual firewall/ multi-tenancy and the proposed device shall minimally have Common Criteria and Internet Computer Security Association (ICSA) Certification and should not have any wireless code in the offered device or its family in hardware or software. No work around this will be	1. Suggestive Input / Change Request Management architecture should support Virtual Firewall/multi-tenancy and the proposed device or solution shall minimally have Common Criteria or Internet Computer Security Association (ICSA) Certification or FIPS 140-2) validation and should not have any wireless code in the offered device. No work around this will be accepted. Justification	Kindly Refer Corrigendum	1. Hewlett Packard Enterprise India Private Limited (1) 2. HPE 3. Matrix Security & Surveillance Pvt Ltd (1,2) 4. Cisco 5. Tech Mahindra 6. Larsen & Toubro Ltd 7. Fortinet 8. Versa Networks (4)



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		accepted.	2. Request to include FIPS 140-2 validation to ensure the security hardening capability of the appliance. Wireless code should not be on the offered device, hence request to remove the hardware/software family 3. This clause is restriction enterprise network vendors to participate - wireless is the next trend in networking. There are customers who require wireless for LAN connections and therefore different model in same series may have wireless functionality. For Delhi police there will not be wireless functionality on the proposed model. Request you to please modify the clause as: "Management architecture should support Virtual Firewall/multi-tenancy and the proposed device shall minimally have Common Criteria or Internet Computer Security Association (ICSA) Certification." or FIPS 140-2) validation and should not have any wireless code in the offered device. No work around this will be accepted. Request to include FIPS 140-2 validation to ensure the security hardening capability of the appliance. Wireless code should not be on the offered device, hence request to remove the hardware/software family 4. Please allow NSS Recommended for security and Gartner Magic Quadrant		9. Sterlite Technologies Limited 10. Fortinet 11. L&T 12. Tech Mahindra



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			for SD-WAN as additional criterias, as these are well known and globally accepted security capability certifications or research firms. This clause is restriction enterprise network vendors to participate - wireless is the next trend in networking. There are customers who require wireless for LAN connections and therefore different model in same series may have wireless functionality. For Delhi police there will not be wireless functionality on the proposed model. 5. Clarification: All OEMs have their own architecture to deliver the required performance. We understand that objective is to ensure that proposed solution should comply to the performance & functional parameters asked in RFP. Any OEM should not be restricted to participate based on the architecture it follows. Fortinet provides best of performance & features among all competitors and hold a leading position in Security Effectiveness, Ability to Execute, Completeness of Vision (as highlighted in third party evaluation reports by GARTNER, NSS etc). Fortigate delivers the platform architecture which directly translates to more optimized solution offering		



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			with lower TCO. This clause is restricting participation of a leading OEM from bidding. This point has no significance in deriving solution. Suggesting changes so that all 4 OEMs participate equally. Suggestive Clause: Management architecture should support Virtual firewall/ multi-tenancy and the proposed device shall minimally have Common Criteria/ Internet Computer Security Association (ICSA) Certification and should not have any enabled wireless code in the offered device . 6. Suggestive Clause: Management architecture should support Virtual firewall/ multi-tenancy and the proposed device shall minimally have Common Criteria/ Internet Computer Security Association (ICSA) Certification and should not have any enabled wireless code in the offered device. Tech Mahindra: Clarification: All OEMs have their own architecture to deliver the required performance. Suggestive Clause: Management architecture should support Virtual firewall/ multi-tenancy and the proposed device shall minimally have Common Criteria/ Internet Computer Security		



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			Association (ICSA) Certification and should not have any enabled wireless code in the offered device .		
473.	4.8.12 Secured Network Devices(SD WAN) -SDWAN Architecture 9/330 (10)	9. Licensing of SD-WAN solution must be based on device capacity not on bandwidth capacity / restriction	1. Suggestive Input/Change Request Licensing of SD-WAN solution must be based on device capacity or on bandwidth capacity / restriction. Required licenses shall be offered from Day 1 2. Every OEM has it's own business model we don't support the asked model. Further this is favouring to specific vender and restricting most of the leading OEMs to participate. Request you to please delete this clause. 3. Benefit of SD-WAN is flexibility to scale up and pay as you grow model and very limited OEMs support this model, so request is to include bandwidth capacity based license as well 4. This is favouring to specific vender and restricting most of the leading OEMs to participate.	Kindly Refer Corrigendum	1. Hewlett Packard Enterprise India Private Limited (1) 2. HPE 3. Matrix Security & Surveillance Pvt Ltd (2,1) 4. Cisco (2) 5. Larsen & Toubro Ltd (2) 6. Versa Networks (1) 7. Sterlite Technologies Limited (3)
474.	4.8.12 Secured Network Devices(SD WAN) -Security 6/331 (1)	6. Proposed solution must support creation of logical separate sub-domain within single physical devices to separate different kind of networks	Suggestive Input/Change Request Proposed solution must support creation of logical separate sub-domain or logical segments within single physical devices to separate different kind of networks Justification Traffic segmentation, multi-tenancy etc. are achieved using different methods by different OEMs. Request to modify the specification accordingly	Kindly Refer Corrigendum	1. Hewlett Packard Enterprise India Private Limited



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475.	4.8.12 Secured Network Devices(SD WAN) - Operations 1/331 (1)	Operations: 1. It should support multi-cast Network	Please provide details about about multi-cast requirement such as PIM-SM, SSM, IGMP Version, Replication and RP support.	As per RFP	1. Versa Networks
476.	4.8.12 Secured Network Devices(SD WAN) - Operations 5/331 (13)	Operations: 5. System must support Diverse WAN including T1, E1, LTE, PPPoE, DSL, Fibre and Ethernet	1. Suggestive Input/Change Request System must support Diverse WAN including T1, E1, LTE, PPPoE, DSL, Fibre and Ethernet natively or using external converters Justification Legacy WAN technology interfaces are going obsolete. If any of these need to be used, it can be supported using external converters. Request to modify the specification accordingly 2. Please clarify is the primary mode of connectivity shall be Ethernet on Copper(RJ-45) and no legacy interfaces will be used. 3. System Must support diverse WAN like LTE/ PPOE / DSL/ Fiber/ Ethernet T1/E1 like connection will be part of Voice gateway not SD-WAN gateway however Infint SD-WAN gateway can operate with Voice gateway. By removing you will allowing us a chance to participate.	Kindly refer corrigendum	1. Hewlett Packard Enterprise India Private Limited (1) 2. HPE(1) 3. RAH InfoTech (P) Ltd (2) 4. Paloaltonetworks(2) Telecommunications Consultants India Limited (3) 5. Tech Mahindra (2) 6. NEC Corporation India Pvt. Ltd (2,1) 7. INTEC INFONET PVT. LTD. (2) 8. Marushika Technology Advisors Pvt. Ltd. (2) 9. Infinity lab (1) 10. Matrix Security & Surveillance Pvt Ltd (1)
477.	4.8.12 Secured Network Devices(SD WAN) -SDWAN	SDWAN Architecture - 10. Architecture must support zero touch deployment, so that	SDWAN offers the software defined branch for the enhanced application performance, improved application availability through multiple links and basic security features.	As per RFP	1. Check Point Software Technologies(I) Pvt Ltd 2. iValue InfoSolutions Pvt. Ltd.



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	Architecture 10/331 (3)	minimum effort is required to deploy the solution	For the robust, scalable & secure SDWAN architecture networking and security capabilities must be from different OEM's. NGFW must be deployed as VNF along with networking edge to meet the overall SDWAN requirements. Moreover this architecture promise the consistent security with unified management which can help department to spot anomalies and security incidents from the cyber security dashboard. SDWAN Architecture - Architecture must support zero touch deployment, so that minimum effort is required to deploy the solution. NGFW must be deployed as VNF along with networking edge to meet the overall SDWAN requirements. SDWAN networking and security capabilities must be from different OEM's		
478.	4.8.12 Secured Network Devices(SD WAN) -Security 1/331 (4)	Security: 1. Solution should support build in NGFW feature (Anti Spyware, IPS, Anti-Virus and application control) to protect network against threats or external NGFW solution can be quoted separately	Request to remove this NGFW specification from SD-WAN Gateway Router Justification DC Security has been asked separately and request to consider the NGFW features on those dedicated devices and not on SD-WAN Gateway Router	As per RFP	1. Hewlett Packard Enterprise India Private Limited 2. HPE 3. Matrix Security & Surveillance Pvt Ltd
479.	4.8.12 Secured Network Devices(SD WAN) -Security 10/331 (8)	Security: 10. SDWAN solution shall have built in feature to protect CPU under DoS/DDos attacks	Proposed Change : SDWAN solution shall have built in feature to protect CPU under DoS/DDos attacks to the extent of min 1.5 Million pps/fps	Kindly refer corrigendum	1. HPE 2. RAH InfoTech (P) Ltd 3. paloaltonetworks Telecommunications Consultants India Limited



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					4. NEC Corporation India Pvt. Ltd. 5. INTEC INFONET PVT. LTD. 6. Marushika Technology Advisors Pvt. Ltd. 7. Infinity lab 8. Matrix Security & Surveillance Pvt Ltd
480.	4.8.12 Secured Network Devices(SD WAN) -Security 6/331 (6)	Security: 6. Proposed solution must support creation of logical separate sub-domain within single physical devices to separate different kind of networks	Suggestive Input/Change Request Proposed solution must support creation of logical separate sub-domain or logical segments within single physical devices to separate different kind of networks Justification Traffic segmentation, multi-tenancy etc. are achieved using different methods by different OEMs. Request to modify the specification accordingly	As per RFP((The proposed solution must be able to support creation of logical segments for separation of different networks)	1. HPE 2. RAH InfoTech (P) Ltd 3. paloaltonetworks Telecommunications Consultants India Limited 4. NEC Corporation India Pvt. Ltd. 5. INTEC INFONET PVT. LTD. 6. Marushika Technology Advisors Pvt. Ltd. 7. Infinity lab 8. Matrix Security & Surveillance Pvt Ltd
481.	4.8.12 Secured Network Devices(SD WAN) - Management 1/332 (9)	Management: 1. Management solution should be appliance / VM which must support around 300 SDWAN devices at Day 1 scalable to 1000. If VM option is quoted than server should be given along with all the necessary licenses	1. Suggestive Input/Change Request Management solution should be appliance/VM/cloud-based which must support around 300 SDWAN devices at Day 1 scalable to 1000. If VM option is quoted than server should be given along with all the necessary licenses Justification Management model for different	Kindly Refer Corrigendum	1. Hewlett Packard Enterprise India Private Limited (1) 2. HPE(1) 3. RAH InfoTech (P) Ltd (1) 4. Forcepoint (1) 5. iValue InfoSolutions Pvt. Ltd. (1)



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			OEMs vary. Request to accept on-premise or cloud management and modify the specification accordingly 2. All OEM's have different solution or method for the management hence request you to please amend this as clause as : Management solution should be appliance/VM/Software which must support around 300 SDWAN devices at Day 1 scalable to 1000. If VM/Software option is quoted than server or any associated OS should be given along with all the necessary licenses 3. Management solution should be appliance/VM/cloud-based which must support around 300 SDWAN devices at Day 1 scalable to 1000. If VM option is quoted than server should be given along with all the necessary licenses Management model for different OEMs vary. Request to accept on-premise or cloud management and modify the specification accordingly		6. Matrix Security & Surveillance Pvt Ltd (1)
482.	4.8.12 Secured Network Devices(SD WAN) -Security 5/331 (5)	Security: 5. PACKET REDISTRIBUTION must be supported even over IPSec tunnel and it should support sub second path failover and recovery	1. Please clarify the ask here, what do you mean by sub second or amend the clause as : PACKET REDISTRIBUTION must be supported even over IPSec tunnel and it should support path failover and recovery	Kindly Refer Corrigendum	1. Forcepoint
483.	4.8.12 Secured Network Devices(SD WAN) -Routing	Routing and QoS: 10. SDWAN device solution must support Auto VPN	Please elaborate on this requirement	As per RFP	1. Versa Networks



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	and QoS 10/332 (1)				
484.	4.8.12 Secured Network Devices(SD WAN) -Routing and QoS 3/332 (5)	Routing and QoS: 3. SDWAN solution should support performance SLA based on latency, packet loss, jitter or all 3 combined	Request you to please amend this clause for wider participation as: SDWAN solution should support performance SLA/ Application aware routing based on latency, packet loss, jitter, link Reliability or all 4 combined	As per RFP	1. RAH InfoTech (P) Ltd 2. Forcepoint 3. iValue InfoSolutions Pvt. Ltd.
485.	4.8.12 Secured Network Devices(SD WAN) -Routing and QoS 6/332 (5)	Routing and QoS: 6. SDWAN Solution should support rule creation based on Application or source address or destination address and each rule should have option to use different performance SLA	Request you to please amend this clause for wider participation as: SDWAN Solution should support rule creation based on Application or source address or destination address and each rule should have option to use different performance SLA/Application sensitivity based on latency, packet loss, jitter, link Reliability or all 4 combined	As per RFP	1. Forcepoint 2. iValue InfoSolutions Pvt. Ltd. 3. RAH InfoTech (P) Ltd
486.	4.8.12 Secured Network Devices(SD WAN) -Routing and QoS 7/332 (4)	Routing and QoS 7. SDWAN should support QoS based on application	Request you to please change the clause as follows: "SDWAN should support QoS based on application and tunnel-based QoS." It is suggested you to please incorporate the tunnel based QoS as well. Using this mechanism central site detect the other side bandwidth and adopt the QoS policy accordingly to avoid congestion at remote end. In a traditional application based QoS, it has been observed that the remote site link is overloaded from the DC site traffic that has more bandwidth.	As per RFP	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd 3. Sterlite Technologies Limited
487.	4.8.12 Secured Network Devices(SD WAN) -Routing	Routing and QoS: 8. SDWAN device should support FEC (Forward Error correction) and DSCP matching.	SDWAN device should support FEC/ DSCP matching. , This will help us to participate in this opportunity. SDWAN device should support FEC/ DSCP matching.	As per RFP	1. Infinity lab 2. Telecommunications Consultants India Limited



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	and QoS 8/332 (3)		This will help us to participate in this opportunity. SDWAN device should support FEC/ DSCP matching.		3. NEC Corporation India Pvt. Ltd.
488.	4.8.12 Secured Network Devices(SD WAN) -Security 11/332 (5)	Security 11. SDWAN architecture should support application identification at layer-7 and should able to identify minimum 3000 applications natively or minimum throughput as mentioned above. It should also allow to define custom application as per requirement.	Every OEM has its own capability to identify an application and if application is not automatically identified, there should be option to define the application in the SD-WAN solution. Therefore request you to please modify the clause as: "SDWAN architecture should support application identification at layer-7 and should able to identify minimum 3000 applications natively or It should allow to define custom applications as per requirement."	Please refer corrigendum:	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco 3. Sterlite Technologies Limited 4. Larsen & Toubro Ltd
489.	4.8.12 Secured Network Devices(SD WAN) -Logging & Reporting 1/333 (17)	Logging & Reporting: 1.The Logs and Reporting platform must be a dedicated same OEM appliance and VM/software running on server will not be accepted.	1. Justification: Logs and reporting solution for different OEMs vary. Request to allow the OEMs to offer their recommended logs/reporting solution meeting the data retention requirements 2. As part of the solution - we have data, control and management component native to the solution we don't need monitoring capability separately. However the solution has capability to integrate with 3rd Party reporting solution - therefore this clause is restricting participation. Request you to kindly delete the clause for us to participate. 3. OEM Specific clause, Hence request you to please amend this clause as:	Kindly Refer Corrigendum	1. Hewlett Packard Enterprise India Private Limited (1) 2. HPE 3. Matrix Security & Surveillance Pvt Ltd(2,1) 4. RAH InfoTech (P) Ltd (3) 5. Cisco (2) 6. Forcepoint (3) 7. iValue InfoSolutions Pvt. Ltd. (3) 8. Telecommunications Consultants India Limited (1) 9. NEC Corporation India Pvt. Ltd. 10. Larsen & Toubro Ltd (2) 11. Infinity lab 12. Versa Networks (4)



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			The Logs and Reporting platform must be a dedicated solution from the same OEM. If VM/Software option is quoted than server or any associated OS should be given along with all the necessary licenses 4. This is proprietary in nature and supported by limited OEM. As SD-WAN leverages x86 platform to provide horizontal scalability without the sprawl of proprietary hardware, request to allow use of Bare metal x86 servers for this. 5. Logs & Reporting platform should be separated from the SD-WAN gateway, either it should be hardware or VM based.		13. Johnson Controls
490.	4.8.12 Secured Network Devices(SD WAN) -Logging & Reporting 3/333 (5)	Logging & Reporting: 3. Should have minimum 10 TB of Hard Drive Capacity in RAID 1, for logging and reporting if provided as separate management as from firewall	1. Suggestive Input/Change Request Should have sufficient storage capacity with redundancy, for logging and reporting Justification Logs and Reporting solution for different OEMs vary. Request to allow the OEMs to offer their recommended logs/reporting solution meeting the data retention requirements 2. Should have sufficient storage capacity with redundancy, for logging and reporting Logs and Reporting solution for different OEMs vary. Request to allow the OEMs to offer their recommended logs/reporting solution meeting the data retention requirements This is proprietary in nature and	Kindly Refer Corrigendum	1. Hewlett Packard Enterprise India Private Limited(1) 2. HPE(1) 3. Matrix Security & Surveillance Pvt Ltd (1) 4. Versa Networks (2)



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			supported by limited OEM. As SD-WAN leverages x86 platform to provide horizontal scalability without the sprawl of proprietary hardware, request to allow use of Bare metal x86 servers for this.		
491.	4.8.12 Secured Network Devices(SD WAN) -Logging & Reporting 6/333 (6)	Logging & Reporting: 6. The logging Appliance should support multiple types of report format PDF, HTML, CSV and XML	PDF and HTML as commonly supported report formats and CSV is used for log exports. Hence request you to please amend this clause as : The logging Appliance should support multiple types of report format PDF and HTML for reporting, and CSV for log exports	Kindly refer corrigendum	1. RAH InfoTech (P) Ltd 2. Forcepoint 3. iValue InfoSolutions Pvt. Ltd. 4. NEC Corporation India Pvt. Ltd.
492.	4.8.12 Layer 2 Network Switches/334 (2)	--	1. Delhi Police Tender No. 579/CSA (Q1A)/DCP/P&L/2019. 2. As per IEEE guidelines, SFPs are required to be MSA complied.Hence, we request you to amend the clause " All the Transceivers/Modules of the Switches should be MSA complied"	As per RFP (Clarification: All the Transceivers/Modules of the Switches should be as per the requirement for the project. Its up to MSI to provide MSA complied Transrecievers/Modules)	1. Tejas Networks Ltd
493.	4.8.12 Layer 2 Network Switches - 24 Ports -Design & Performance 2/334 (4)	Design & Performance: 2. Should be equipped with minimum 1GB RAM and 1GB flash	1. We request you to delete the clause. Kindly confirm. 2. As per current trends, the memory ask may not be able to meet the future demand or load requirement and can lead to poor network performance, hence for project beneficial in longer run, please change the clause as "Should have min 2GB Flash & min 2GB CPU Memory"	As per RFP	1. Tejas Networks Ltd(1) 2. Cisco(2) 3. Matrix Security & Surveillance Pvt Ltd(2)
494.	4.8.12 Layer 2 Network Switches - 24 Ports -Interface	Interface requirements: 1. Minimum of 24 ports 10/100/1000 Base-T and 4x 10G SFP+ ports	Please specify the type and quantity of 4x 10G SFP+ transceivers i.e. LR (10 Kms) or ER (40 Kms)?	Kindly Refer Corrigendum	1. Sterlite Technologies Limited



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	requirements 1/334 (1)				
495.	4.8.12 Secured Network Devices(SD WAN) - Performance Parameter 5/334 (1)	Performance Parameter: 5. Minimum 2 Gbps of Application Control Throughput on SDWAN device the device should have Redundant Power Supplies and hot swappable fan tray.	Suggestive Input/Change Request Minimum 2 Gbps of Application Control Throughput on SDWAN device the device should have Redundant Power Supplies Justification Appliances are deployed in redundancy hence request to remove fan tray redundancy from each appliance.	Kindly Refer Corrigendum	1. Hewlett Packard Enterprise India Private Limited 2. HPE 3. Matrix Security & Surveillance Pvt Ltd
496.	4.8.12 Secured Network Devices(SD WAN) - Performance Parameter 1/334 (10)	Performance Parameter: 1. The SDWAN device at C3i should have minimum 10x 1GE RJ45 ports and 4x 1G SFP or better and 4X10 SFP+ Optical ports to cater to connectivity from multiple service providers. Additional HA ports, Console and OOB should be provided extra SFPs Transceivers should be populated as per solution requirement from Day1.	1. Suggestive Input/Change Request: The SDWAN device at C3i should have minimum 10x 1GE RJ45 ports and 4x 1G SFP or better and 4X10 SFP+ Optical ports to cater to connectivity from multiple service providers. These 1G/10G ports can be offered natively or using additional Ethernet switches to terminate links. Additional HA ports, Console and OOB should be provided extra. SFPs Transceivers should be populated as per solution requirement from Day1. 2. Justification: SDWAN Gateway Router onboard interfaces vary between OEMs and will always be limited. WAN link terminations are recommended through dedicated Ethernet switches. Request to accept additional Ethernet switches to terminate the WAN links modifying the specification accordingly As there are only 2x WAN links at remote site. Request you to please adjust the number of interface	Kindly Refer Corrigendum	1. Hewlett Packard Enterprise India Private Limited(1) 2. Cisco 3. HPE 4. Larsen & Toubro Ltd 5. Matrix Security & Surveillance Pvt Ltd(1,2) 6. Versa Networks 7. Sterlite Technologies Limited 8. Matrix Security



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			accordingly with spare into consideration. 3. As there are only 2x WAN links at remote site. Request you to please adjust the number of interface accordingly with spare into consideration. Please modify the clause as follows: "The SDWAN device should have minimum 4x 1GE RJ45 ports Ethernet/Optical ports and scalable to 6 to cater to connectivity from multiple service providers. Console and OOB should be populated as per solution"		
497.	4.8.12 Secured Network Devices(SD WAN) - Performance Parameter 4/334 (4)	Performance Parameter: 4. SDWAN device should support minimum 2 Gbps of Threat Protection Throughput including Firewall, IPS, Application Control and antivirus Protection enabled with mix/application mix production traffic	Request to remove this NGFW specification from SD-WAN Gateway Router Justification DC Security has been asked separately and request to consider the NGFW features/performance on those dedicated devices and not on SD-WAN Gateway Router. Request to remove these NGFW specifications from SD-WAN Gateway Router	Kindly refer corrigendum	1. Hewlett Packard Enterprise India Private Limited 2. HPE 3. Matrix Security & Surveillance Pvt Ltd
498.	4.8.12 Layer 2 Network Switches - 24 Ports -Design & Performance 3/335 (3)	Design & Performance 3. Should have LED indicator for per port status, FAN, PSU and Management Status	This is favouring to one OEM and restrict leading OEM participation. Kindly modify the clause as "Should have LED indicator for per port status, PSU and Management Status"	Kindly refer corrigendum.	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
499.	4.8.12 Layer 2 Network Switches - 24	Design & Performance: 4. 0°C to 50°C operating	1. Enterprise switches come with 0°C to 45°C operating temperature range. Please asked the same in non-	Kindly refer corrigendum.	1. Elkosta Security Systems India (1)



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	Ports -Design & Performance 4/335 (18)	temperature and 10% to 95% relative humidity	Industrial grade Swiches. Kindly modify clause as" 0°C to 45°C operating temperature and 10% to 95% relative humidity" 2. Architectire differs from OEM to OEMs. Commonly 15% to 95% relative humidity is standard and supporting all leading OEMs. Request to kinly ammend so that all leading OEM can participate. Request to change to 0° C to +45° C 3. Industry standard for L2 switch is 0 to 45. Request to change to 0° C to +45° C 4. It is ubmitted that operating temperature at DC or air conditioned racks does not demand capablities till 50 deg. This is above the general practice and will be a restrictive term not facilitating a fair competition. It is requested to please consider operating temperature till 45 deg particularly in the desired indoor environment. We understand these switch will be placed in closed room with necessary cooling facilities. Hence kindly revise the same to to 0° C to +40° C Request to change to 0° C to +45° C		2. Telecommunications Consultants India Limited (1) 3. NEC Corporation India Pvt. Ltd. (1) 4. Samsung SDS India Pvt Ltd. (1) 5. Hewlett Packard Enterprise India Private Limited 6. iValue InfoSolutions Pvt. Ltd (3) 7. Techspire Services Pvt. Ltd. (4) 8. Larsen & Toubro Ltd (4) 9. Online Micro Services Private Limited (4) 10. Matrix Security & Surveillance Pvt Ltd (1,2) 11. Alcatel Lucent Enterprise (4) 12. HPE 13. Cisco 14. Dell Technologies (1)
500.	4.8.12 Layer 2 Network Switches - 24 Ports - Switching / Routing	Switching/ Routing: 11. Should have traffic rate limiting with Configurable bandwidth granularity of 8 KBps	As per industry standards & application used cases, the traffic rate limiting granularity is 64Kbps. Specifying granularity as 8Kbps is only giving an unfair advantage to one OEM only and restrictive for domestic manufacturers. We request you for amendment of the	Kindly refer corrigendum	1. Tejas Networks 2. Tejas Networks Ltd



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	11/335 (2)		clause as "Should have traffic rate limiting with Configurable bandwidth granularity of 64 KBps		
501.	4.8.12 Layer 2 Network Switches - 24 Ports - Switching /Routing 1/335 (7)	Switching/ Routing 1. Should have 16 K MAC Address, 4000 active Vlans	Suggestive Input/Change Request Should have 16 K MAC Address, 2000 active Vlans Justification 4000 VLAN is very high for 24 Ports Layer 2 access switch. 2K VLAN is sufficient and supporting all leading OEMs. Request you to kindly ammend so that leading OEM can participate. VLAN ask is on very higher side and restrict broader participation. Further reducing from 4000 to 1000 active VLANs will suffice the solution functionality. Hence, in order to enable leading OEM participation, kindly modify the clause as "Should have 16K MAC Address, 1000 active VLANs"	Kindly refer corrigendum.	1. Hewlett Packard Enterprise India Private Limited 2. Matrix Security & Surveillance Pvt Ltd 3. HPE 4. Cisco
502.	4.8.12 Layer 2 Network Switches - 24 Ports - Switching /Routing 11/335 (1)	Switching/Routing: 11. Should have traffic rate limiting with Configurable bandwidth granularity of 8 KBps	As per industry standards & application used cases, the traffic rate limiting granularity is 64Kbps. Specifying granularity as 8Kbps is only giving an unfair advanatge to one OEM only and restrictive for domestic manufacturers. We request you for ammendment of the clause as "Should have traffic rate limiting with Configurable bandwidth granularity of 64 KBps"	Kindly Refer Corrigendum	1. Tejas Networks Ltd
503.	4.8.12 Layer 2 Network Switches - 24 Ports - Switching	Switching / Routing: 15. Should have basic dynamic routing protocols like RIP from day	1. Request to change clause as "Should have basic dynamic routing protocols like RIP from day one and be upgradeable to OSPF, VRRP" Protocol Independent Multicast (PIM)	Kindly refer corrigendum	1. Alcatel Lucent Enterprise (1) 2. Techspire Services Pvt. Ltd. (1)



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	/Routing 15/335 (5)	one and be upgradeable to OSPF, PIM, VRRP	is a highly restrictive feature incedently favoring an OEM. It is requested to please remove PIM as the upgradable feature. 2. PIM is OEM specific in L2 switch. There is no functionality for this value in the design		3. Online Micro Services Private Limited (1) 4. iValue InfoSolutions Pvt. Ltd. (1,2)
504.	4.8.12 Layer 2 Network Switches - 24 Ports - Switching /Routing 2/335 (5)	Switching/Routing: 2. Should support 10 K ARP entries	1. Request you to change clause as "Should support 1024 ARP entries" Industry standard is 1024 for L2 switch. There is no functionality for this value in the design 2. It is submitted that this clause is highly restrictive. The project archiecture and opertions does not require this much entries at C3i level. Please allow fair and non-restrictive participation to fulfill project needs. Request you to change clause as "Should support 1024 ARP entries"	Kindly refer corrigendum	1. iValue InfoSolutions Pvt. Ltd. (1,2) 2. Techspire Services Pvt. Ltd. (1,2) 3. Online Micro Services Private Limited (1,2) 4. Alcatel Lucent Enterprise (1,2)



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505.	4.8.12 Layer 2 Network Switches - 24 Ports - Switching /Routing 6/335 (7)	Switching/Routing: 6. Should support G.8032 standard based protocol for ring backbone	- The requirement ask is not implemented within the campus/building environment and is implemented in large manufacturing plants or such environment. Hence, you are requested to kindly remove this clause. - Suggestive Input/Change Request Request you to kindly remove the clause. Justification These switches will not deployed in ring, hence G.8032 (Ethernet Ring Protection Protocol) will not required. Request you to kindly remove so that leading OEM can participate.	Kindly refer corrigendum	- Matrix Security & Surveillance Pvt Ltd (1) - Hewlett Packard Enterprise India Private Limited (2) - HPE(2) - Cisco (1)
506.	4.8.12 Layer 2 Network Switches - 24 Ports - Switching /Routing 7/335 (8)	Switching/Routing: 7. Should have Port based VLAN, MAC based VLAN, private vlan and 802.1 AK for dynamic VLAN propagation	- The 802.1ak is superseded by 802.1q, hence request you to kindly change the clause as "Should have Port based VLAN, MAC based VLAN, private vlan and 802.1 AK/VTP or equivalent for dynamic VLAN propagation" - Request to change clause as "Should have Port based VLAN, MAC based VLAN, private vlan and 802.1 AK/MVRP for dynamic VLAN propagation" Alcatel use MVRP to achieve the same functionality - Request to change clause as "Should have Port based VLAN, MAC based VLAN, private vlan and 802.1	Kindly refer corrigendum	- Matrix Security & Surveillance Pvt Ltd (1) - iValue InfoSolutions Pvt. Ltd. (2) - Techspire Services Pvt. Ltd. (3) - Online Micro Services Private Limited (3) - Cisco (1) - Alcatel Lucent Enterprise (3)



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			AK/MVRP for dynamic VLAN propagation" Please allow MVRP (Multiple VLAN Registration Protocol) as an option for dynamic VLAN propoagation to facilitate healthy participation and competition		
507.	4.8.12 Layer 2 Network Switches - 24 Ports - Certification 1/336 (7)	Certification 1. Model should have safety and standards certifications as below: IEC & CISPR certificates as below : IEC61000-4-6:2008/EN61000-4-6:2009, IEC61000-4-8:2009/EN61000-4-8:2010 , EN 55022:2010 Class A, CISPR 22:2008 Class A, CISPR24:201 OClassA	1. The certified safety and emission standards vary between OEMs. Request to accept equivalent safety and emissions standards 2. Justification The certified safety and emission standards vary between OEMs. Request to accept equivalent safety and emissions standards Every OEM will go for IEC/FCC/CISPR or its equivalent certification and CE2.0 is specifically for carrier ethernet services which is not the case here, hence in order to have participation from leading OEM, kindly modify the clause as "Model should have safety and standards certifications as below: IEC & CISPR certificates as below : IEC61000-4-6:2008/EN61000-4-6:2009, IEC61000-4-8:2009/EN61000-4-8:2010 or equivalent, EN 55022:2010 Class A, CISPR 22:2008 Class A, CISPR24:2010 Class A, Radiated Immunity 10V/criteria, UL60950-1 2ndEd"	Kindly Refer Corrigendum	1. HPE (1,2) 2. Cisco (2) 3. Matrix Security & Surveillance Pvt Ltd (1,2) 4. Hewlett Packard Enterprise India Private Limited (1,2)
508.	4.8.12 Layer 2 Network Switches - 24	Management: 7. Should be SDN capable with Open stack support and OpenFlow API	IEEE 802.1Qaz is supporting protocol for Data centre bridging (DCB) technique deployed by Data centre high-capacity	Kindly Refer Corrigendum	1. Tejas Networks 2. Tejas Networks Ltd 3. BECIL



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	Ports - Management/36 (2)	support. Should support IEEE P802.1Qaz	switches. IEEE 802.1Qaz on layer 2 switch is restrictive to Indian OEMs. We request to amend the clause as" Should be SDN capable with Open stack support and OpenFlow API support". kindly confirm		
509.	4.8.12 Layer 2 Network Switches - 24 Ports - Management 4/336 (4)	Management: 4. Should have L2 Traceroute, L2 Ping and Multicast Traceroute	Should have IPv4 and IPv6 traceroute and ping.network. Request to modify the specification as requested Justification These protocols are OEM specific request you to kindly ammend so that all OEMs can participate.	Kindly Refer Corrigendum	1. HPE 2. Hewlett Packard Enterprise India Private Limited 3. Matrix Security & Surveillance Pvt Ltd
510.	4.8.12 Layer 2 Network Switches - 24 Ports - Management 7/336 (16)	Management: 7. Should be SDN capable with Open stack support and OpenFlow API support, should support IEEE P802.1Qaz	1. Should be SDN capable with Open stack or OpenFlow or REST API support. Justification Request to accept REST APIs for software programmability, which can be used by upper layer controllers/management systems. Also for Virtual bridge LAN networks, accept the latest VXLAN standard support. IEEE P802.1Qaz (ETS) protocol is for datacenter switches. It is required for FCoE, hence IEEE 802.1Qaz is not require in access switches. 2. IEEE P802.1Qaz is data center technology known as ETS(Enhanced transmission selection) which provides customized bandwidth allocation to 802.1p classes of traffic. Assign different amounts of bandwidth to Ethernet, FCoE, or iSCSI traffic classes that require different bandwidth, latency, and best-effort	Kindly refer corrigendum	1. HPE (1) 2. Dell Technologies (2) 3. Tech Mahindra (2) 4. Alcatel Lucent Enterprise (3) 5. iValue InfoSolutions Pvt. Ltd. (3) 6. Elkosta Security Systems India (2) 7. Telecommunications Consultants India Limited (2) 8. iValue InfoSolutions Pvt. Ltd (3) 9. Techspire Services Pvt. Ltd. (3) 10. NEC Corporation India Pvt. Ltd. (2) 11. Samsung SDS India Pvt Ltd.(2) 12. Online Micro Services Private Limited (3)



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			treatment during network congestion in Data center. Kindly allow IEEE802.1P for L2 switch to comply. Kindly modify clause as" Should be SDN capable with Open stack support and OpenFlow API support, should support IEEE P802.1Qaz or IEEE 802.1P" 3. It is submitted that IEEE P802.1Qaz is a L3 feature which specifies enhancement of transmission selection to support allocation of bandwidth amongst traffic classes. This feature at L2 switch will not facilitate a fair competition in terms of ideal features and the related costs of an L3 switch. The leading OEMs with L3 switch for this feature will be restricted to participate if this feature is asked at L2 level. Requesting to remove this feature at L2 switch does require at the L3 switches available at DC. Request to change clause as "Should be SDN capable with Open stack support and OpenFlow API support" This is a L3 feature 4. The Switch shall support SDN OpenFlow v1.3 for ease of management SDN OpenFlow v1.3 is an open standard for network management		13. Hewlett Packard Enterprise India Private Limited(1) 14. Matrix Security & Surveillance Pvt Ltd (3) 15. Transline Technologies Pvt. Ltd. (4)
511.	4.8.12 Layer 2 Network Switches - 24	Security 1. Local authentication database for RADIUS	We do support local authentication database which is used when RADIUS server is not reachable and centralised	As per RFP (The suggestion are inline with the RFP)	1. Cisco



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	Ports -Security 1/336 (3)	Authentication for 802.1x login	authentication database such as LDAP, AD, etc. are also supported. Please confirm our understanding on this clause is in-line to your requirement.		2. Matrix Security & Surveillance Pvt Ltd
512.	4.8.12 Layer 2 Network Switches - 24 Ports -Security 3/336 (4)	Security: 3. Should have SSH-2, SCP, SFTP for secure management	Suggestive Input/Change Request Should have SSH-2, SCP/SFTP for secure management Justification Since SCP and SFTP both are equivalent for secured file transfer protocol. The protocols varies between OEMs. Request you to kindly ammend so that leading OEM can participate.	Kindly Refer Corrigendum	1. HPE 2. Hewlett Packard Enterprise India Private Limited 3. Matrix Security & Surveillance Pvt Ltd
513.	4.8.12 Layer 2 Network Switches - 24 Ports -Security 4/336 (12)	Security: 4. Should have dynamic arp inspection, DHCP snooping, Private VLAN, SYN attack protection, GARP protection	1. Request to change clause as "Should have dynamic arp inspection, DHCP snooping, Private VLAN, SYN attack protection, GARP protection/ARP Poison Detection" It is requested to ARP poisoning (spoofing) as an option with GARP protection. SYN attack/DDoS are initiated by the outside network to inside. Access layer do not support these protocol and needs to be removed from the clause. Also, in a production environment, advertisement of router IPs are not encouraged by the access switches, therefore we may not require the GARP protection but ARP is very much required. Request you to kindly modify the clause to protect ARP traffic which will meet the desired functionality. Kindly modify the clause as "Should have dynamic arp inspection,	Kindly Refer Corrigendum	1. HPE (1,2) 2. Cisco (1) 3. Matrix Security & Surveillance Pvt Ltd (1,2) 4. Alcatel Lucent Enterprise (1,2) 5. iValue InfoSolutions Pvt. Ltd.(1) 6. Techspire Services Pvt. Ltd.(1) 7. Online Micro Services Private Limited(1) 8. Hewlett Packard Enterprise India Private Limited (1,2)



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			DHCP snooping, Private VLAN, ARP protection" 2. Justification SYN attack protection and DoS attack protection are common and similar. Request you to kindly ammend. Should have dynamic arp inspection, DHCP snooping, Private VLAN, SYN attack protection or CPU DoS protection, GARP protection SYN attack protection and DoS attack protection are common and similar. Request you to kindly ammend.		
514.	4.8.12 Layer 2 Network Switches - 24 Ports -Security 6/336 (9)	Security: 6. Should have minimum 1 K ACL entry support and Time-Based ACL	1. Time based and context based access policies are deployed via AAA/RADIUS integration in any large network. Request to modify the specification as requested Justification SYN attack protection and DoS attack protection are common and similar. Request you to kindly ammend. 2. Request to change clause as "Should have minimum 256 ACL entry support and Time-Based ACL" 1K ACL is high value for L2 switch. It is submitted that this clause is highly restrictive. Please allow fair and non-restrictive participation to fulfill project needs. It is requested to keep it 256 ACL for a L2 switch which is appropriate and industry standard feature. 3. Should have minimum 1 K ACL entry support and Time-Based ACL via RADIUS	Kindly refer corrigendum	1. HPE (1) 2. Alcatel Lucent Enterprise (2) 3. iValue InfoSolutions Pvt. Ltd. (2) 4. Techspire Services Pvt. Ltd. (2) 5. Online Micro Services Private Limited (2) 6. Hewlett Packard Enterprise India Private Limited (1) 7. Matrix Security & Surveillance Pvt Ltd (3)



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			Time based and context based access policies are deployed via AAA/RADIUS integration in any large network. Request to modify the specification as requested		
515.	4.8.12 Layer 2 Network Switches - 24 Ports - Switching /Routing - 16/336 (2)	Switching/ Routing: 16. Must Support RFC 3619 for sub 50 ms failover and it should seamlessly integrate with Core and Distribution	It is an industry practice to refer to ITU-T G.8032 for sub 50 ms protection switching and widely accepted & deployed standard worldwide. RFC 3619 protocol is proprietary implementation of single OEM and restrictive for domestic OEM participation. We request you to amend clause as" Must Support ITU-T G.8032 for sub 50 ms failover" Kindly confirm.	Kindly Refer Corrigendum	1. Tejas Networks 2. Tejas Networks Ltd
516.	4.8.12 Layer 2 Network Switches - 24 Ports - Switching /Routing 16/336 (13)	Switching/Routing: 16. Must Support RFC 3619 for sub 50 ms failover and it should seamlessly integrate with Core and Distribution	- Request you to kindly remove the clause. Justification Since this feature is relevant with BFD (Bidirectional Forwarding Detection) and this will work in Layer-3. Hence this feature not required in Layer-2 access switch. - RFC 3619 support asked is contributed by one OEM only and not the standard RFC to be used for. There are standard RFCs are available for the requirement which can be used for the same. Also, The requirement ask is not implemented within the campus/building environment and is implemented in large manufacturing plants or such environment, hence request you to kindly remove this clause. - Request you change clause as "Must Support sub 50 ms failover and it	Kindly Refer Corrigendum	- HPE(1) - Cisco (2) - Matrix Security & Surveillance Pvt Ltd (1,2) - Alcatel Lucent Enterprise (3,4) - iValue InfoSolutions Pvt. Ltd. (4) - Techspire Services Pvt. Ltd. (3,4) - Online Micro Services Private Limited (3,4) - Hewlett Packard Enterprise India Private Limited (1) - Tejas Networks Ltd (5) - Matrix Security & Surveillance Pvt Ltd



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			should seamlessly integrate with Core and Distribution". 4. RFC 3619 is highly restrictive feature being specific to an OEM. It is requested to remove this feature to enable fair competition. RFC 3619 is OEM specific. (https://tools.ietf.org/html/rfc3619) 5. It is an industry practice to refer to ITU-T G.8032 for sub 50 ms protection switching and widely accepted & deployed standard worldwide. RFC 3619 protocol is proprietary implementation of single OEM and restrictive for domestic OEM participation. We request you to amend clause as "Must Support ITU-T G.8032 for sub 50 ms failover" Kindly conf		
517.	4.8.12 Layer 2 Network Switches - 24 Ports - Switching /Routing /336 (1)	General	End to end convergence design is not clear as some switches have been asked with STP while others are asked with G.8032. Further, no clarity has been given on how the same will be done over SDWAN for all traffic including Multicast, which is the critical traffic. Kindly clarify the same.	As per RFP (Clarification: Multi cast traffic will be terminated on the L3 switch , The SDWAN overlay will be created over the MPLS network)	1. Cisco
518.	4.8.12 Layer 2 Network Switches - 24 Ports - Switching /Routing 17/336 (3)	Switching/ Routing: 17. Should have Configurable multicast session limit per port	We do support multicast route limits and IP IGMP limits. Please confirm if our understanding is in-line to your requirement and kindly share the use case for the asked requirement.	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
519.	4.8.12 10KVA UPS with 30	General	The specs are vendor specific. Please allow to propose other vendor solution as well.	As per RFP	1. Schneider Electric



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	min battery backup at 80% load/337 (1)				
520.	4.8.12 10KVA UPS with 30 min battery backup at 80% load -2/337 (1)	2. Technology: IGBT (Rectifier & Inverter both); ECOMode required Inbuilt Input Isolation Transformer	The older generation Single Phase UPS used to come with inbuilt transformer due to the limitation of DC bus voltage whereas the latest generation Single Phase UPS are transformerless and designed with 0.9 output PF as asked in the tender. Please confirm.	As per RFP (The latest along with IGBT (Rectifier & Inverter both) requirement is specified.)	1. Schneider Electric
521.	4.8.12 10KVA UPS with 30 min battery backup at 80% load -2/337 (1)	2. Technology: Inbuilt Input Isolation Transformer asked in specification	The older generation Single Phase UPS used to come with inbuilt transformer due to the limitation of DC bus voltage whereas the latest generation Single Phase UPS are transformerless IGBT Inverter and IGBT Rectifier. Please confirm.	As per RFP (IGBT Rectifier & Inverter both are mentioned in RFP)	1. Schneider Electric
522.	4.8.12 Network Racks 16U/337 (2)	Additional	As the field switches are going to be the most critical component of the city surveillance network and field camera will be getting connected to it, hence security features like MACsec-128, static Inter-VLAN routing, etc. will help in strengthening security at access/field level. It is suggested to kindly add the following clause under field switches as "Shall support MACsec-128 bit encryption, Static Inter-VLAN routing"	As per RFP (Minimum Requirement is Specified MSI can propose better solution)	1. Cisco
523.	4.8.12 Network Racks 16U - 1/337 (1)	1. Rack Mount Depth: Standard Depth: 29" (736 mm)	Rack depth required 1200 mm Servers/Storage needs min 1200D	As per RFP (Minimum Requirement is Specified MSI can propose better solution)	1. INTEC INFONET PVT. LTD.
524.	4.8.12 Network Racks 16U - 10/337 (4)	10. Included Hardware: (2) keys	1. (2) Keys electromagnatic handle with 9 digit keypad lock and rear steel door with emergency auto door opening system. Along with 2 Nos. 16 A 1PH	As per RFP	1. Elkosta Security Systems India 2. Marushika Technology Advisors Pvt. Ltd.



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			PDU with 6 IEC C13, 4 IEC C19 and 6 no 5/15 A sockets with 2 mtr. cord , Lock, Auto door,cooling unit, monitoring, fire safety, PDU should be from one OEM for better SLA 2. As per the remarks submitted above in the Point for the Inside cabinet temperature (AC requirment for cooling) in the Outdoor JB's, if you wish to go ahead with AC based cooling in the JB's then the lock and handle should be provisioned as under: 3. electromegnatic handle with 9 digit keypad lock and rear steel door with emergency auto door opening system. Along with 2 Nos. 16 A 1PH PDU with 10 IEC C13 , 4 IEC C19 and 6 5/15 A sockets with 2 mtr. cord , Lock, Auto door, Pdu should be from one OEM for better SLA IN AC Rack air will leak with normal Lock		3. Marushika 4. BECIL
525.	4.8.12 Network Racks 16U - 11/337 (3)	11. Hole Type: EIA 3/8" square holes	EIA 3/8" square holes	As per RFP	1. Elkosta Security Systems India 2. Marushika Technology Advisors Pvt. Ltd.
526.	4.8.12 Network Racks 16U - 12/337 (4)	12. Rack Post Shape: L Shape	1. L Shape 2. L Shape 19" angle Alzn Please clarify what is the this and it's application.	Kindly refer correngidum	1. Elkosta Security Systems India (1) 2. Marushika Technology Advisors Pvt. Ltd. (2) 3. Schneider Electric (1)
527.	4.8.12 Network Racks 16U -	13. Rack Ventilation: 80% perforation on doors.	1. 80% perforation on doors. Zero U side mounted integrated cooling system	As per RFP	1. Transline Technologies Pvt. Ltd. (1)



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	13/337 (11)		with inverter rotary compressor of 3.500 watts with door mounted controller should be provide with front glass door and rear steel door. AC rack can not have perforated door as air will leak and cooling will not happend design needs to be revalidated and add suggested changes 2. Technicall perforated door not possible in AC Racks request you to rephrase to 80% perforation on doors. :- Zero U side mounted integrated cooling system with inverter rotary compressor of 3500 watts with door mounted controller should be provide with front glass door and rear steel door. 3. The cooling feature has been asked for air conditioning within the rack, however it may be noted that the 80% perforation requirment on the rack is on contrary to it and appears to be typographical error. It is submitted that the perforation can be removed which does not go side by side with the AC provisioning & Zero U side mounted integrated cooling system shall be available which will not consume the rack usabel space within. 4. Technically perforated doors are not possible in Inbuilt Cooling Racks.Request you to remove this clause or Mention to be provided with Glass Doors.	As per RFP (Glass door can be accepted)	2. INTEC INFONET PVT. LTD. (1) 3. Elkosta Security Systems India (2) 4. Marushika Technology Advisors Pvt. Ltd. (1) 5. Schneider Electric (1) 6. Transline Technologies Pvt. Ltd. (1) 7. INTEC INFONET PVT. LTD. (1) 8. WQ INDIA (3_ 9. Larsen & Toubro Ltd (2) 10. Intec Infonet Pvt Ltd. 11. Transline Technologies 12. Transline Technologies 13. BECIL



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528.	4.8.12 Network Racks 16U - 14/337 (8)	14. Rack Doors: Removable, Lockable and Reversible.	Removable, Lockable and Reversible.	As per RFP	1. Transline Technologies Pvt. Ltd. 2. INTEC INFONET PVT. LTD. 3. Elkosta Security Systems India 4. Marushika Technology Advisors Pvt. Ltd. 5. WQ INDIA
529.	4.8.12 Network Racks 16U - 15/337 (7)	15. Rack Sides: Removable and Lockable	1. Removable and Lockable/ screw with poly urethane (PU) gasket. Gasket is required in side panel to avoid air leakage	As per RFP (MSI is free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP.)	1. Transline Technologies Pvt. Ltd. 2. INTEC INFONET PVT. LTD. 3. Elkosta Security Systems India 4. Marushika Technology Advisors Pvt. Ltd. 5. WQ INDIA
530.	4.8.12 Network Racks 16U - 17/337 (13)	17. Cooling Options : 500W or more	1. 500W or more, 3500 watts zero U side mounted in rack cooling system with inverter driven rotatry compressor with min. 2 fans, compressor should be fitted in ODU. Indoor/ outdoor unit dim. (105W x 850D x 805H) mm/ (255W x 762D x 540H) mm. Cooling unit controller and HMI display should be mounted on front door for easy operation 500W is undersize cooling requets to accept suggetsed specs on 3.5kW 2. In order to avoid air leakage and ensure efficient cooling with longer life, the Rack doors and sides should be equipped with removable and lockable feature including screws	As per RFP (MSI is free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP.)	1. Transline Technologies Pvt. Ltd. (1) 2. INTEC INFONET PVT. LTD. (1) 3. Elkosta Security Systems India (1) 4. Marushika Technology Advisors Pvt. Ltd. (1) 5. WQ INDIA 6. BECIL



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			essentially with PU (Poly urethane) Gasket. 3. The current solutuon is with 500W cooling at police station is highly undersized and surely will not be suitable for application. Following improvement in specs is suggested for application requirement 4. 3500 watts zero U side mounted in rack cooling system with inverter driven rotatry compressor with min. 2 fans, compressor should be fitted in ODU.Cooling unit controller and HMI display should be mounted on front door for easy operation and monitoring for unmanned sites		
531.	4.8.12 Network Racks 16U - 16/337 (1)	16. Smart closet feature: Integrated Solution having Cooling, Biometric Secure, Safety & Security and Monitoring at Rack level.	1. To monitor the rack at Command control centre, monitoring software will require hence kindly add in SOR/BOQ. 2. Integrated Solution having Cooling, Biometric Secure electromegnatic handle with 9 digit keypad lock Safety & Security and Monitoring at Rack door level and remote monitoring on IP. Rack should have HMI display for single window monitoring of rack temp., humidity, smoke, WLD, UPS, front door access, rear door opening. Temperature, Humidity and access control reader should be monitored in single monitoring system. Rack should have 19" mount 1U integrated NOVEC 1230 propellant gas cartridge fire suppression system VDS tested with 2 optical sensor and 2 alarm threshold	As per RFP (These are minimum features asked for protection, MSI is free to propose better solutions)	1. Sterlite Technologies Limited 2. Marushika 3. Intec Infonet 4. L&T 5. Transline Technologies 6. BECIL 7. ELKOSTA



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			with 4 hrs builtin emergency power along with early smoke detection, System should be integrated on single monitoring hardware with remote monitoring feature on IP SNMP 3. L&T: Kindly Provide the detailed requirement. 4. Request you to add min specs and clarity in specs to avoid wrong/undersize solution		
532.	4.8.12 Network Racks 16U - 2/337 (7)	2. Adjustment Range: 6" to 30" in 1" increments (152 - 762 mm)	1. Alzn 19" angle and depth support channel should be Adjustment Range: 6" to 30" in 1" increments (152 - 762 mm). 2. Appropriate angle and channel depth should be provided to ensure the required adjustable range. This is worth mentioning because it is specically asked for rated capacity on levelling feet without casters. 3. As per Weather Department Delhi Ambient Temperature is 48-50 degree, to achieve 40 degree inside JB is only possible using Airconditioned Junction Box, please confirm should we consider AC unit with each JB to maintain desired Temperature 4. For earthing angles has to be Alzn 1. The mentioned name in specs are vendor specific. Please allow to propose other vendor solution as well. 2. Please allow for Keypad Lock. To monitor the rack at Command control centre, monitoring software	As per RFP	1. Transline Technologies Pvt. Ltd. (1,2,4) 2. INTEC INFONET PVT. LTD. (1,2,4) 3. Elkosta Security Systems India (1) 4. Marushika Technology Advisors Pvt. Ltd. (1,2,4) 5. Schneider Electric 6. Sterlite Technologies Limited 7. Larsen & Toubro Ltd 8. Transline Technologies



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			will require hence kindly add in SOR/BOQ. Kindly Porvide the detailed requirement. Transline Technologies 5. Alzn 19" angle and depth support channel should be Adjustment Range: 6" to 30" in 1" increments (152 - 762 mm). for earthing angles has to be Alzn		
533.	4.8.12 Network Racks 16U - 6/337 (7)	6. Weight Capacity: 1200 lbs. (544 kgs)	1. 1200 lbs. (544 kgs) Rack should have static load bearing capacity 1300-1400 Kg 2. 544 KG is very less as rack self weight will be 200Kg + G Force and Equipments min suggested 1400kG 3. ~~1200 lbs. (544 kgs)~~ Rack should have load bearing capacity 1400 Kg. 544 KG is very less as rack self weight will be 200Kg + G Force and Equipments min suggested 1400kG 4. Rack should have static load bearing capacity 1300-1400 Kg	As per RFP (MSI is free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP.)	1. Elkosta Security Systems India (1) 2. Marushika Technology Advisors Pvt. Ltd. (1,2) 3. Schneider Electric Transline Technologies Pvt.(1,2) 4. INTEC INFONET PVT. LTD. (1,2) 5. INTEC INFONET PVT. LTD. 6. BECIL
534.	4.8.12 Network Racks 16U - 7/337 (7)	7. Weight Capacity: Rated capacity on leveling feet	1. Levelling feet can not support more then 150kg suggest change to Plinth 2. Rated capapcity on levelling feet on appropriate plinth wherever required should be considered particularly in the Police Station with heavy UPS of 10KVA Ratings.	As per RFP (MSI is free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP.)	1. INTEC INFONET PVT. LTD. (1,2) 2. Transline Technologies Pvt. Ltd. (2,3) 3. Elkosta Security Systems India (2) 4. Marushika Technology Advisors Pvt. Ltd. (1,2)



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			3. Levelling feet can not support more then 150kg and will create vibration dueing AC operations suggest change to Plinth 4. Levelling feet can not support more then 150kg suggest change to Plinth 5. Rated capacity on plinth .		5. Larsen & Toubro Ltd (2,3) 6. INTEC INFONET PVT. LTD. 7. BECIL
535.	4.8.12 Network Racks 16U - 8/337 (8)	8. Rack Outside Dimensions: 40" x 24" x 36.58" (1016 x 607 x 930 mm) D x W x H	1. OEM Specific Dimension 2. Rack inside and outside sizes are not matching please clarify. 40" x 24" x 36.58" (1016 x 607 x 930 mm) Mentioned Dimensions are OEM specific please include Indsutry standard diemnsion for equal participation Suggested : 40" x 24" x 36.58" (1016 x 607 x 930 mm), 1200mmx800mmx (24U) 1200H mm 3. ~~40" x 24" x 36.58" (1016 x 607 x 930 mm)~~ , 47.24" x 31.49" x 55.11" (1200x800x (29U) 1400H) mm OEM Specific Dimension 4. ~~40" x 24" x 36.58" (1016 x 607 x 930 mm)~~ , 47.24" x 31.49" x 55.11" (1200x800x (29U) 1400H) mm OEM Specific Dimension Transline Technologies 5. 40" x 24" x 36.58" (1016 x 607 x 930 mm), 47.24" x 31.49" x 55.11" (1200x800x (29U) 1400H) mm	As per RFP (MSI is free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP.)	1. Transline Technologies Pvt. Ltd. (1,2) 2. Elkosta Security Systems India (2) 3. Marushika Technology Advisors Pvt. Ltd. 4. Schneider Electric 5. WQ INDIA 6. Larsen & Toubro Ltd (2) 7. Marushika 8. Intec Infonet 9. Transline Technologies 10. BECIL



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			OEM Specific Dimension Transline Technologies 6. 40" x 24" x 36.58" (1016 x 607 x 930 mm), 47.24" x 31.49" x 55.11" (1200x800x (29U) 1400H) mm OEM Specific Dimension 7. 1200mmx800mmx (24U) 1200H mm		
536.	4.8.12 Network Racks 16U - 8/337 (4)	D x W x H	D x W x H	As per RFP	1. Elkosta Security Systems India 2. Marushika Technology Advisors Pvt. Ltd. 3. Intec Infonet
537.	4.8.12 Network Racks 16U - Rack Mount Depth 1/337 (7)	1. Rack Mount Depth: Standard Depth: 29" (736 mm)	1. Rack depth required 1200 mm Servers/Storage needs min 1200D 2. Please allow for Cabinet Depth as per industry standard i.e. 800mm.	As per RFP (MSI is free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP.)	1. Transline Technologies Pvt. Ltd. (1) 2. Elkosta Security Systems India (1,2) 3. Marushika Technology Advisors Pvt. Ltd. (1) 4. Schneider Electric(2)
538.	4.8.12 Network Racks 16U - Rack Mount Depth 3/337 (7)	3. Rack Mount Depth: Internal Space: 37.25" (946 mm)	1. Min specific dimensions are OEM Specific design and will not allow other OEM to Participate. Kindly remove to provide better solution Min. Internal Space: 37.25" (946 mm) add min else it will be OEM Specific 2. It is submitted to please consider minimum 37.25" (946mm) to allow open competition. Since this specific requirement is restricting the competition.	Kindly Refer Corrigendum	1. Larsen & Toubro Ltd(1) 2. INTEC INFONET PVT. LTD.(1) 3. Transline Technologies Pvt. Ltd. 4. Marushika Technology Advisors Pvt. Ltd.(2) 5. Elkosta Security Systems India(1) 6. Schneider Electric(3)



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			Min. Internal Space: 37.25" (946 mm) add min else it will be OEM Specific 3. As the Cabinet height is only 16U this much of internal space is not possible both vertically and horizontally.		
539.	4.8.12 Network Racks 16U - Rack Mount Depth 4/337 (5)	Rack Mount Depth: 4. Front Space: 1.5" (38 mm) *	1. Min specific dimensions are OEM Specific design and will not allow other OEM to Participate. Kindly remove to provide better solution Min. Front Space: 1.5" (38 mm) * add min else it will be OEM Specific 2. Min. Front Space: 1.5" (38 mm) * add min else it will be OEM Specific It is submitted to please consider minimum Front Space: 1.5" (38 mm) to allow open competition. Since this specific requirement is restricting the competition.	Kindly Refer Corrigendum	1. Larsen & Toubro Ltd Transline Technologies Pvt. 2. Elkosta Security Systems India 3. Marushika Technology Advisors Pvt. Ltd. 4. Intec Infonet
540.	4.8.12 Network Racks 16U - Rack Mount Depth 5/337 (2)	5. Rack Mount Depth: Rear Space: 6.75" (171 mm) *	1. Min specific dimensions are OEM Specific design and will not allow other OEM to Participate. Kindly remove to provide better solution 2. Min. Rear Space: 6.75" (171 mm) * add min else it will be OEM Specific It is submitted to please consider minimum Rear Space: 6.75" (171 mm) to allow open competition. Since this specific requirement is restricting the competition.	Kindly Refer Corrigendum	1. Larsen & Toubro Ltd 2. Elkosta Security Systems India 3. Intec Infonet
541.	4.8.12 10KVA UPS with 30 min battery backup at 80%	10. Output Voltage: 220/230/240Vac shall be available with +/-1% regulation	The output for a 10 KVA Rating UPS shall be Three Phase for better stability of operations on Mains, Bypass and DG Set. Ex: A Three Phase Input and single Phase	Kindly refer corrigendum	1. Eaton Power Quality Pvt.Ltd. 2. Modi Infosol Pvt. Ltd.



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	load -10/338 (5)		output UPS when operated on bypass mode during emergency situations make complete system unstanble. This is due to the fact that full 10 KVA 1 Phase Power comes on one phase of Incomer. The DG Set and the input Transformer both will get Overload. We request you to change to Three Phase output.		3. Telecommunications Consultants India Limited 4. Tech Mahindra 5. Elkosta Security Systems India
542.	4.8.12 10KVA UPS with 30 min battery backup at 80% load -22/338 (2)	22. Battery backup: 10KVA UPS with 30 min battery backup at 80% load (9984 VAH or more)	VAH SHOULD BE 12480 on 7.2KW Load VAH calculation as per Battery Manufacturer is given.	As per RFP (MSI is free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP.)	1. Telecommunications Consultants India Limited 2. SWITCHING AVO ELECTRO POWER LTD
543.	4.8.12 10KVA UPS with 30 min battery backup at 80% load -24/338 (1)	24. Battery Flexibility: 32 to 40 Battery Flexibility required	1. Since different OEM has different DC BUS design. We request you to kindly ammend this clause as "as per manufacturer design" & oblige. 2. Since different OEM has different DC BUS design also in small ratings UPS systems large DC BUS is not advisable considering small charring profile. We request you to kindly amend this clause as "as per manufacturer design" & oblige. The DC bus voltage are different for different OEM's. Thus number of batteries which can be connected depends on OEM design. Please confirm.	Kindly Refer Corrigendum	1. Larsen & Toubro Ltd (2) 2. Suttantra (2) 3. Microtek International Pvt. Ltd (1) 4. NEC Corporation India Pvt. Ltd. (2) 5. Schneider Electric
544.	4.8.12 10KVA UPS with 30 min battery backup at 80%	24. Battery Flexibility: 32 to 40 Battery Flexibility required	Since different OEM has different DC BUS design. We request you to kindly ammend this clause as "as per manufacturer design"	Kindly Refer Corrigendum	1. Larsen & Toubro Ltd 2. Suttantra 3. Microtek International Pvt. Ltd



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	load -24/338 (5)		& oblige. Since different OEM has different DC BUS design also in small ratings UPS systems large DC BUS is not advisable considering small charring profile. We request you to kindly amend this clause as "as per manufacturer design" & oblige. The DC bus voltage are different for different OEM's. Thus number of batteries which can be connected depends on OEM design. Please confirm.		4. NEC Corporation India Pvt. Ltd. 5. Schneider Electric
545.	4.8.12 10KVA UPS with 30 min battery backup at 80% load -29/339 (1)	29. Product: CE certification asked	CE marking is an administrative marking for products that are sold within the European Economic Area whereas as per government of India, for UPS upto 10 kVA - BIS i.e. Bureau of Indian Standards is mandatory and applicable that are sold in India. Please confirm	Kindly Refer Corrigendum	1. Schneider Electric
546.	4.8.12 Edge Gateway for Community Surveillance- 1/340 (1)	1. General: Operating Temperature 0-50 Degrees	Since these gateways for Community Surveillance will be placed in Police Stations or any other indoor places only. We request you to kindly change the Operating Tempearture to 5-35 Degree or better.	Kindly Refer Corrigendum	1. Dell Technologies
547.	4.8.13 Workstations with 3 nos. 24" Monitors for C4I application Mike + webcam +speaker along with operator workstation -	12. Expansion Slots: Minimum "1" PCIe x16 Gen3; "2" PCIe x4/x8 Gen3; "1" M.2 or more	Minimum "2" PCIe x16 Gen4; "1" PCIe x1 Gen3; "2" M.2 Slot PCIe Gen4 or more	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd



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	12/342 (1)				
548.	4.8.13 Workstations with 3 nos. 24" Monitors for C4I application Mike + webcam +speaker along with operator workstation - 14/342 (1)	14. I/O: USB 3.1 1 - USB 3.1 Type C 1 - Audio Jack/ Microphone & Headphone 4 - DisplayPort 2 - RJ45 Network Connector	5 - USB 3.1 Type-A / Type-C or more 1 - Audio Jack/ Microphone & Headphone 4 - DisplayPort 2 - RJ45 Network Connector	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd
549.	4.8.13 Workstations with 3 nos. 24" Monitors for C4I application Mike + webcam +speaker along with operator workstation - 2/342 (1)	2. Processor: Intel Xeon Processor, 8 Cores, 16MB Cache, 3.8Ghz base frequency, 4.7Ghz Turbo frequency or higher processor	AMD Ryzen / Intel Xeon Processor, 8 Cores, 16MB Cache, 3.6Ghz base frequency or better	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd
550.	4.8.13 Workstations with 3 nos. 24" Monitors for C4I application Mike + webcam +speaker along with operator workstation - 5/342 (1)	5. Chipset: Intel Workstation Chipset 400 Series or higher	AMD 500 Chipset / AMD WRX80 Chipset / Intel Workstation Chipset 400 Series or higher	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd



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551.	4.8.13 LED Monitor- 55" Display - 10/343 (1)	10. Duty Cycle : 12/7	We request to consider 24/7 duty cycle.since this display is going to use for monitoring for 24 hrs. Pls ask for 24/7 Duty cycle. 12/7 is use in consumer display	Kindly refer corrigendum	1. LG
552.	4.8.13 LED Monitor- 55" Display - 11/343 (2)	11. Certifications UL/EN/CE/IEC/BIS certification for Safety and CE/FCC Certifications for EMC & Immunity.	We request you to consider only standard Certificates like UL/NRTL,FCC,BIS , Note CE is very generic Test all low grade products are having this We request you to consider only standard Certificates like UL/NRTL,FCC,BIS , Note CE is very generic Test all low grade products are having this	Kindly Refer Corrigendum	1. LG 2. LG Electronics India Pvt. Ltd.
553.	4.8.13 LED Monitor- 55" Display -5/343 (1)	5. Brightness : 350 cd/m2 (typical)	We request to consider 500 cd/m2 brightness for more clarity since 350 cd/m2 is use in consumer display series	Kindly Refer Corrigendum	1. LG
554.	4.8.13 LED Monitor- 55" Display -6/343 (2)	6. Contrast Ratio 4000:1 (typical)	We request you to consider (Typical/Dynamic Contrast) , Contrast is based on Panel Technology of OEMS, IPS & VA , Both are having different USP's , All Major Brands are using IPS technology(1100:1 or Higher for IPS & 500,000:1 Dynamic Contrast , 4000 :1 for VA technology & 50,000:1 Dynamic Contrast)	Kindly Refer Corrigendum	1. LG 2. LG Electronics India Pvt. Ltd.
555.	4.8.13 LED Monitor- 55" Display -8/343 (2)	8. Input: 2 x HDMI 2.0 1 x Display Port 1 x VGA 2 x USB Ports	We request you to consider HDMI-2,DVI-1,DP-1,USB-1 & DP-1 Out to share display if required in future , Note - VGA Port is End of life port , Some chinese Brands are still manufacturing , But not available in any Reputed Brands in India	Kindly Refer Corrigendum	1. LG 2. LG Electronics India Pvt. Ltd.
556.	4.8.13 Workstations for Display LED without Monitor -	12. Expansion Slots: Minimum "1" PCIe x16 Gen3; "2" PCIe x4/x8 Gen3; "1" M.2 or more	Minimum "2" PCIe x16 Gen4; "1" PCIe x1 Gen3; "2" M.2 Slot PCIe Gen4 or more	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd 2. AMD India Pvt Ltd.



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	12/344 (1)				
557.	4.8.13 Workstations for Display LED without Monitor - 14/344 (1)	14. I/O: USB 3.1 1 - USB 3.1 Type C 1 - Audio Jack/ Microphone & Headphone 4 - DisplayPort 2 - RJ45 Network Connector	5 - USB 3.1 Type-A / Type-C or more 1 - Audio Jack/ Microphone & Headphone 4 - DisplayPort 2 - RJ45 Network Connector	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd
558.	4.8.13 Workstations for Display LED without Monitor - 2/344 (1)	2. Processor: Intel Xeon Processor, 8 Cores, 16MB Cache, 3.8Ghz base frequency, 4.7Ghz Turbo frequency or higher processor	AMD Ryzen / Intel Xeon Processor, 8 Cores, 16MB Cache, 3.6Ghz base frequency or better	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd
559.	4.8.13 Workstations for Display LED without Monitor - 5/344 (1)	5. Chipset: Intel Workstation Chipset 400 Series or higher	AMD 500 Chipset / AMD WRX80 Chipset / Intel Workstation Chipset 400 Series or higher	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd
560.	4.8.13 IP Phones/345 (3)	IP Phones (IP Phones Specification)	IP Phones Specification mentioned for C2i (under Infrastructure at C2i) will be registered to IPPBX system mentioned in Data Center and also specification of IP PHONE TYPE 1&2 as given below ref: Page - 431-441 (h. IPPBX) Page - 437 (J: IP PHONE TYPE 1) Page - 437 (K: IP PHONE Type 2) These two specifications are different but since these IP Phones will work with IPPBX, Hence request to mention that IP Phones Specification mentioned in this section should comply to the specification	Kindly refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd 2. PruTech Solutions India Pvt. Ltd. 3. Bodhtree



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			mentioned under IPPBX section IP PHONE TYPE 1, for seamless working of IP Phones with IPPBX		
561.	4.8.13 IP Phones -1/345 (3)	1. Protocols/Standards : SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, TELNET, TFTP, NTP, STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, IPV6	Telnet and PPPoE protocols are not supported due to changing technologies and removal of the same will not impact the desired functionality. Hence in order to have broader participation, kindly change the clause as "Protocols/Standards : SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, TFTP, NTP, STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, IPV6"	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd 3. Cisco
562.	4.8.13 IP Phones - 12/345 (3)	12. Power: Input:100-240V; Output: +12V, 0.5A. Integrated Power-over-Ethernet (802.3af), Max power consumption: 6.4W (power adapter) or 6.49W (PoE)	The Phone draws 6.5 W PoE, hence kindly modify the clause as "Input:100-240V; Output: +12V, 0.5A. Integrated Power-over-Ethernet (802.3af), Max power consumption: 6.4W (power adapter) or 6.5W (PoE)"	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
563.	4.8.13 IP Phones -5/345 (3)	5. Feature Keys 8-line keys with up to 4 SIP accounts 4. Bluetooth Yes, integrated	4 SIP accounts are not supported and proprietary to single OEM and not required because of security reasons as each IP phone should be defined with single SIP account and single extension only. Hence request for below changes: Feature Keys 4-line keys with 1 SIP account Bluetooth optional/not required	Kindly refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd 2. PruTech Solutions India Pvt. Ltd. 3. Bodhtree
564.	4.8.13 IP Phones -6/345 (3)	6. Video Codec : Support for G.729A/B, G.711μ/a-law, G.726, G.722(wide-band), in-band and out-of-band DTMF	The Codecs mentioned are Audio Codecs and not the Video Codecs. Kindly clarify. Further, G.726 is also not supported due to changing technologies an removal of the same will not impact the desired	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd



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		(in audio, RFC2833, SIP INFO)	functionality, hence we request you to please remove G.726 from the clause and modify the clause as "Audio Codec : Support for G.729A/B, G.711μ/a-law, G.722(wide-band), in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)"		
565.	4.8.13 IP Phones -8/345 (3)	8. Telephony Features : Hold, transfer, forward, 4-way conference, call park, call pickup, shared-call appearance /bridged-line-appearance, downloadable phonebook, call waiting, call log XML	The phone supports 3-way conference, hence for broader participation, please change the clause as "Telephony Features : Hold, transfer, forward, 3-Way conference, call park, call pickup, shared-call appearance /bridged-line-appearance, downloadable phonebook, call waiting, call log XML"	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
566.	4.8.13 Secured Network Devices (SD-WAN Enabled Routers) - General 1/346 (16)	1. General: Proposed vendor must be placed in Leader and Challengers Quadrant in Gartner SD-WAN or leader Gartner quadrant for Enterprise Firewall. NSS recommended vendor shall be preferred.	SDWAN being a new technologies, Hence request you to please amend this clause as for wider participation: Proposed vendor must be placed in Leader and Challengers Quadrant in Gartner SD-WAN or leader/Visionary Gartner quadrant for Enterprise Firewall or shall be NSS recommended vendor/ In Gartner magic quadrant report, a vendor can either be in leader or in challenger quadrant, therefore request you to kindly modify the clause as - "Proposed vendor must be placed in Leader or Challengers Quadrant in Gartner SD-WAN or leader Gartner quadrant for Enterprise Firewall. NSS recommended vendor shall be preferred." Proposed SDWAN solution should have SDN based architecture with separate	Kindly refer corrigendum	1. Forcepoint 2. Cisco 3. Matrix Security & Surveillance Pvt Ltd 4. RAH InfoTech (P) Ltd 5. iValue InfoSolutions Pvt. Ltd. 6. Sterlite Technologies Limited 7. Larsen & Toubro Ltd 8. Infinity lab



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			control, data and the management plane. and if management appliances/solution any of the plane goes offline the SDWAN solution should keep on functioning without any issues. Must support build in GUI or CLI as well for any onsite changes if required." SD-WAN should follow the software defined principles where it is required to have control (routing/security), data (traffic forwarding) and management (NMS/Monitoring) plane separation. This approach is required to have flexible and scalable network. For Make in India OEM this clause has to be eliminated. , Make In India Guidelines of Government of India.		
567.	4.8.13 Secured Network Devices (SD-WAN Enabled Routers) - General 2/346 (1)	General: 2. The SDWAN device should be supplied with Redundant hot swappable Power shall support IPV6 like application idenitification, Zone protection, Management etc from Day 1	The devices can be in High availability mode, so please allow field replacable instead of hot swappable.	Kindly refer corrigendum	1. Versa Networks
568.	4.8.13 Secured Network Devices (SD-WAN Enabled Routers) - SDWAN Architecture 1/346 (5)	SDWAN Architecture : 1. Proposed SDWAN solution should have management-based architecture and if management appliances/ solution goes offline the SDWAN solution should keep on functioning without any	OEM specific clause, hence request you to please amend this clause as All configuration, management, and reporting functions should be accessible Centrally located in DC and if management solution goes offline then SDWAN Edge device should keep on functioning without any issues and should have local access to	Kindly Refer Corrigendum	1. Forcepoint 2. RAH InfoTech (P) Ltd Forcepoint 3. iValue InfoSolutions Pvt. Ltd.



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		issues. Must support build in GUI as well for any onsite changes if required.	applinace for changing the local IP, Managment IP and port, if required		
569.	4.8.13 Secured Network Devices (SD-WAN Enabled Routers) - SDWAN Architecture 2/346 (11)	SDWAN Architecture : 2. The bidder shall propose at least one management solution as asked above.	Please clarify the ask here Clarification sought - The Management Plane should be native to the solution and must support configuring, monitoring and troubleshooting WAN, Application and security policies. Is our understanding correct. Kindly clarify.	Kindly Refer Corrigendum	1. Forcepoint 2. Cisco 3. Matrix Security & Surveillance Pvt Ltd 4. RAH InfoTech (P) Ltd 5. iValue InfoSolutions Pvt. Ltd. 6. Sterlite Technologies Limited 7. Larsen & Toubro Ltd
570.	4.8.13 Secured Network Devices (SD-WAN Enabled Routers) - SDWAN Architecture 3/346 (4)	SDWAN Architecture: 3. Management architecture should have option to be deployed in HA if required in future.	Looking at the network criticality, it is suggested to have HA from Day 1. Request you to please modify the clause as: "The Solution should have active/active HA support at all level - Control Plane, routers at DC/DR."	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd 3. Sterlite Technologies Limited
571.	4.8.13 Secured Network Devices (SD-WAN Enabled Routers) - SDWAN Architecture 6/346 (16)	6. Management architecture should support Virtual firewall/ multi-tenancy and the proposed device shall minimally have Common Criteria and Internet Computer Security Association (ICSA) Certification and should not have any wireless code in the offered device or its family in hardware or software. No work around this will be accepted.	SDWAN as a technologies new and growing, Hence refering to multiple Certification criteria is limiting the major players participation. Hence request you to please amend this clause as: Management architecture should support Virtual Firewall/multi-tenancy and the proposed device shall minimally have Common Criteria or Internet Computer Security Association (ICSA) Certification and should not have any wireless code in the offered device or its family in hardware or software. No work around this will be accepted.	Kindly Refer Corrigendum	1. Forcepoint 2. Cisco 3. Matrix Security & Surveillance Pvt Ltd 4. RAH InfoTech (P) Ltd 5. iValue InfoSolutions Pvt. Ltd. 6. Larsen & Toubro Ltd 7. Versa Networks 8. Sterlite Technologies Limited



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			accepted. This clause is restriction enterprise network vendors to participate - wireless is the next trend in networking. There are customers who require wireless for LAN connections and therefore different model in same series may have wireless functionality. For Delhi police there will not be wireless functionality on the proposed model. Request you to please modify the clause as: "Management architecture should support Virtual Firewall/multi-tenancy and the proposed device shall minimally have Common Criteria or Internet Computer Security Association (ICSA) Certification."		
572.	4.8.13 Secured Network Devices (SD-WAN Enabled Routers) - Operations 1/347 (1)	Operations: 1. It should support multi-cast network	Please provide details about multi-cast requirement such as PIM-SM, SSM, IGMP Version, Replication and RP support.	As per RFP	1. Versa Networks
573.	4.8.13 Secured Network Devices (SD-WAN Enabled Routers) - Operations 5/347 (3)	Operations: 5. System Must support diverse WAN like T1/E1/LTE/PPOE/DSL/Fiber/Ethernet	System Must support diverse WAN like LTE/PPOE/DSL/Fiber/Ethernet , T1/E1 like connection will be part of Voice gateway not SD-WAN gateway however Infinxt SD-WAN gateway can operate with Voice gateway.	Kindly Refer Corrigendum	1. Infinity lab 2. Telecommunications Consultants India Limited 3. NEC Corporation India Pvt. Ltd.
574.	4.8.13 Secured Network Devices (SD-	SDWAN Architecture 9. Licensing of SD-WAN solution must be based on	1. Every OEM has it's own business model we don't support the asked model. Further this is favouring to	Kindly Refer Corrigendum	1. Cisco (1) 2. Matrix Security & Surveillance Pvt Ltd (1)



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	WAN Enabled Routers) - SDWAN Architecture 9/347 (6)	device capacity not on bandwidth capacity / restriction	specific vender and restricting most of the leading OEMs to participate. Request you to please delete this clause. 2. In order to ensure wider OEM participation, request you to please delete this clause Benefit of SD-WAN is flexiblity to scale up and pay as you grow model and very limited OEMs support this model, so request is to include bandwidth capacity based license as well		3. Larsen & Toubro Ltd (1) 4. Sterlite Technologies Limited (2) 5. Versa Networks (2)
575.	4.8.13 Secured Network Devices (SD-WAN Enabled Routers) - Security 1/347 (4)	Security: 1. Solution should support build in NGFW feature (Anti Spyware, IPS, Anti-Virus and application control) to protect network against threats or external NGFW solution can be quoted separately	1. Suggestive Input/Change Request Solution should support build in NGFW feature (IPS and application control) to protect network against threats or external NGFW solution can be quoted separately Justification Anti Spyware and Anti-Virus are deployed at the end clients and request to remove these functionalities from SDWAN branch routers 2. Solution should support build in NGFW feature (IPS and application control) to protect network against threats or external NGFW solution can be quoted separately Anti Spyware and Anti-Virus are deployed at the end clients and request to remove these functionalities from SDWAN branch routers	As per RFP	1. HPE (1) 2. Hewlett Packard Enterprise India Private Limited (1) 3. Matrix Security & Surveillance Pvt Ltd (1)



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576.	4.8.12 Secured Network Devices(SD WAN) -Routing and QoS 2/348 (6)	Routing and QoS: 2. SDWAN solution should support BGP and Static routing	SD-WAN at the core is routing feature, therefore request you to incorporate all industry standard routing protocol support. This will ensure the SD-WAN is able to integrate with existing network utilizing the other routing protocols such as OSPF, RIP, ISIS etc. Request you to kindly modify the clause as "SDWAN solution should support BGP and Static routing, IPv6/IPv6, DHCP (IPv6), DNS (IPv6), RIP, OSPFv3, NAT6-4, QoS, QoS-Classification, marking, shaping and policing."	As per RFP	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
577.	4.8.12 Secured Network Devices(SD WAN) -Routing and QoS 3/348 (5)	Routing and QoS: 3.SDWAN solution should support performance SLA based on latency, packet loss, jitter or all 3 combined	Request you to please amend this clause for wider participation as: SDWAN solution should support performance SLA/ Application aware routing based on latency, packet loss, jitter, link Reliability or all 4 combined	As per RFP	1. Forcepoint 2. RAH InfoTech (P) Ltd 3. iValue InfoSolutions Pvt. Ltd.
578.	4.8.12 Secured Network Devices(SD WAN) -Routing and QoS 5/348 (4)	Routing and QoS : 5. SDWAN solution should support rule- based routing based on Application, user, user group, source, destination or combination of any of them	SDN allows routing to be software defined that includes multiple routing capabilities not only the rule-based routing. Request you to please modify the clause as "SDWAN solution should support rule-based routing based on Application, user, user group, source, destination or combination of any of them, SLA Based Application Aware routing and active/active link utilization. "	As per RFP	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd 3. Sterlite Technologies Limited
579.	4.8.12 Secured Network Devices(SD WAN) -Routing and QoS 6/348 (5)	Routing and QoS: 6.SDWAN Solution should support rule creation based on Application or source address or destination address and each rule should	Request you to please amend this clause for wider participation as: SDWAN Solution should support rule creation based on Application or source address or destination address and each rule should have option to use different performance SLA/Application sensitivity based on	As per RFP	1. Forcepoint 2. RAH InfoTech (P) Ltd 3. iValue InfoSolutions Pvt. Ltd.



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		have option to use different performance SLA	latency, packet loss, jitter, link Reliability or all 4 combined		
580.	4.8.13 Secured Network Devices (SD-WAN Enabled Routers) - Security 10/348 (5)	Security: 10. SDWAN architecture should support application identification at layer-7 and should able to identify minimum 3000 applications natively or minimum throughput as mentioned above. It should also allow to define	Every OEM has its own capability to identify an application and if application is not automatically identified, there should be option to define the application in the SD-WAN solution. Therefore request you to please modify the clause as: "SDWAN architecture should support application identification at layer-7 and should able to identify minimum 3000 applications natively or It should allow to define custom applications as per requirement."	Kindly Refer Corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd 3. Sterlite Technologies Limited 4. Larsen & Toubro Ltd
581.	4.8.13 Secured Network Devices (SD-WAN Enabled Routers) - Security 6/348 (3)	Security: 6. Proposed solution must support creation of logical separate sub-domain within single physical devices to separate different kind of networks. The proposed device should be having at least 10 physical cores	This clause should be removed. , For best practice creation of logical separate sub-domain is on layer 3 Switch not on sd-wan Gateway.	Kindly refer corrigendum	1. NEC Corporation India Pvt. Ltd. 2. Infinity lab 3. Telecommunications Consultants India Limited
582.	4.8.13 Secured Network Devices (SD-WAN Enabled Routers) - Security 9/348 (4)	Security: 9. SDWAN solution shall have built in feature to protect CPU under DoS/DDos attacks	Proposed Change : SDWAN solution shall have built in feature to protect CPU under DoS/DDos attacks to the extent of min 2,00,000 pps/fps	Kindly refer corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. RAH InfoTech (P) Ltd 3. Paloaltonetworks 4. INTEC INFONET PVT. LTD.
583.	4.8.12 Secured Network Devices(SD WAN) -Routing	Routing and QoS: 7. SDWAN should support QoS based on application	It is suggested you to please incorporate the tunnel based QoS as well. Using this mechanism central site detect the other side bandwidth and adopt the QoS policy accordingly to avoid congestion at remote	As per RFP	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd



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	and QoS 7/349 (3)		end. In a traditional application based QoS, it has been observed that the remote site link is overloaded from the DC site traffic that has more bandwidth. Request you to please change the clause as follows: "SDWAN should support QoS based on application and tunnel-based QoS."		
584.	4.8.12 Secured Network Devices(SD WAN) -Routing and QoS 8/349 (3)	Routing and QoS: 8. SDWAN device should support FEC (Forward Error correction) and DSCP matching.	SDWAN device should support FEC/DSCP matching. , This will help us to participate in this opportunity.	As per RFP	1. Infinity lab 2. Telecommunications Consultants India Limited 3. NEC Corporation India Pvt. Ltd.
585.	4.8.13 Secured Network Devices (SD-WAN Enabled Routers) - Logging & Reporting 1/349 (15)	Logging & Reporting: 1. The Logs and Reporting platform must be a dedicated same OEM appliance and VM/software running on server will not be accepted.	1. OEM Specific clause, Hence request you to please amend this clause as: The Logs and Reporting platform must be a dedicated solution from the same OEM. If VM/Software option is quoted than server or any associated OS should be given along with all the necessary licenses 2. As part of the solution - we have data, control and management component native to the solution we don't need monitoring capability separately. However the solution has capability to integrate with 3rd Party reporting solution - therefore this clause is restricting us to participate. Request you to please delete the clause. 3. In order to ensure wider OEM participation, request you to please delete this clause	Kindly Refer Corrigendum	1. Forcepoint (1) 2. Cisco (2) 3. Infinity lab 4. Matrix Security & Surveillance Pvt Ltd (1,2) 5. RAH InfoTech (P) Ltd (1) 6. iValue InfoSolutions Pvt. Ltd. (1) 7. Versa Networks 8. Telecommunications Consultants India Limited 9. NEC Corporation India Pvt. Ltd. 10. Larsen & Toubro Ltd (2) 11. Sterlite Technologies Limited 12. Sterlite Technologies Limited



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586.	4.8.13 Secured Network Devices (SD-WAN Enabled Routers) - Logging & Reporting 3/349 (1)	Logging & Reporting: 3. Should have minimum 10 TB of Hard Drive Capacity, in RAID 1 for logging and reporting if provided as separate management as from firewall.	This is proprietary in nature and supported by limited OEM. As SD-WAN leverages x86 platform to provide horizontal scalability without the sprawl of proprietary hardware, request to allow use of Bare metal x86 servers for this.	Kindly Refer Corrigendum	1. Versa Networks
587.	4.8.13 Secured Network Devices (SD-WAN Enabled Routers) - Management 1/349 (5)	Management: 1. Management solution should be appliance/VM which must support around 300 SDWAN devices at Day 1 scalable to 1000. If VM option is quoted than server should be given along with all the necessary licenses	All OEM's have different solution or method for the management hence request you to please amend this as clause as : Management solution should be appliance/VM/Software which must support around 300 SDWAN devices at Day 1 scalable to 1000. If VM/Software option is quoted than server or any associated OS should be given along with all the necessary licenses	Kindly Refer Corrigendum	1. Forcepoint 2. iValue InfoSolutions Pvt. Ltd. 3. RAH InfoTech (P) Ltd
588.	4.8.13 Secured Network Devices (SD-WAN Enabled Routers) - Logging & Reporting 6/350 (6)	Logging & Reporting: 6. The logging Appliance should support multiple types of report format PDF, HTML, CSV and XML.	PDF and HTML as commonly supported report formats and CSV is used for log exports. Hence request you to please amend this clause as : The logging Appliance should support multiple types of report format PDF and HTML for reporting, and CSV for log exports	Kindly Refer Corrigendum	1. Forcepoint 2. RAH InfoTech (P) Ltd 3. iValue InfoSolutions Pvt. Ltd. 4. NEC Corporation India Pvt. Ltd.
589.	4.8.13 Secured Network Devices (SD-WAN Enabled Routers) - Performance Parameter	Performance Parameter: 1. The SDWAN device at DC should have minimum 8x 1GE RJ45 ports Optical ports to cater to connectivity from multiple service providers. Console and OOB should be	1. For DC, four links are expected. Considering scalability, six ports are sufficient. Request to modify the specification accordingly 2. As there are only 2x WAN links at remote site. Request you to please adjust the number of interface	Kindly Refer Corrigendum	1. HPE (1,4) 2. Cisco (4,3,2) 3. Infinity lab (4) 4. Matrix Security & Surveillance Pvt Ltd (2,3,4)



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	1/350 (11)	populated as per solution requirement from Day1.	accordingly with spare into consideration. 3. Please modify the clause as follows: 4. The SDWAN device at DC should have minimum 4x 1GE RJ45 ports Ethernet/Optical ports and scalable to 6 to cater to connectivity from multiple service providers. Console and OOB should be populated as per solution requirement from Day1." 5. To enable us to participate we are requesting you to minimise the port counts, Such port counts are not required. 6. The SDWAN device at DC should have minimum 8x 1GE RJ45 , 4 SFP/SFP+ ports Optical ports to cater to connectivity from multiple service providers. Console and OOB & 1 HDMI Port should be populated as per solution requirement from Day1. To enable us to participate we are requesting you to minimise the port counts, Such port counts are not required. 7. Suggestive Input/Change Request The SDWAN device at DC should have minimum 6x 1GE RJ45 ports to cater to connectivity from multiple service providers.		5. Telecommunications Consultants India Limited (4,5) 6. Sterlite Technologies Limited (2,3,4) 7. NEC Corporation India Pvt. Ltd. (4) 8. Larsen & Toubro Ltd (2,3,4) 9. Hewlett Packard Enterprise India Private Limited 10. Johnson Controls 11. TCIL



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Sr. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			Console and OOB should be populated as per solution requirement from Day1 Justification For DC, four links are expected. Considering scalability, six ports are sufficient. Request to modify the specification accordingly		
590.	4.8.13 Secured Network Devices (SD-WAN Enabled Routers) - Performance Parameter 2/350 (5)	Performance Parameter: 2. IPSec encryption throughput should be 500 Mbps.	Asked IPSec encryption throughput at C2i locations seems to be on higher side. Request you to kindly provide the required bandwidth or IPSec throughput for C2i locations on the basis of bandwidth sizing. Kindly clarify the same.	Kindly Refer Corrigendum	1. Cisco 2. Sterlite Technologies Limited 3. Larsen & Toubro Ltd 4. Matrix Security & Surveillance Pvt Ltd
591.	4.8.13 Secured Network Devices (SD-WAN Enabled Routers) - Performance Parameter 3/350 (4)	Performance Parameter : 3. Minimum 4K new session per second, 50,000 concurrent session, 500 Site to Site VPN	The mentioned scalability parameters are related to firewall solution not to the SD-WAN / routing solution. It is recommended to highlight the route, ACLs, VPNs scalability and the bandwidth terminated on the Edge router in the RFP. These parameters are universally accepted to evaluate WAN solution. Request you to please change the clause as follows: "The solution should support 64 VRF domains."	As per RFP	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd 3. Larsen & Toubro Ltd
592.	4.8.13 Secured Network Devices (SD-WAN Enabled Routers) - Performance	Performance Parameter : 4. SDWAN device should support minimum 200 Mbps of Threat Protection Throughput including Firewall, IPS, Application	1. Suggestive Input/Change Request SDWAN device should support minimum 200 Mbps of Threat Protection Throughput including Firewall, IPS, Application Control enabled with Enterprise	Kindly Refer Corrigendum	1. HPE (1) 2. Cisco (1,2) 3. Matrix Security & Surveillance Pvt Ltd (1,2)



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	Parameter 4/350 (4)	Control and antivirus Protection enabled with Enterprise mix/Application Mix production traffic	mix/Application Mix production traffic Justification Anti-Virus is deployed at the end clients and request to remove this functionality from SDWAN branch routers The mentioned scalability parameters are related to firewall solution not to the SD-WAN / routing solution. It is recommended to highlight the route, ACLs, VPNs scalability and the bandwidth terminated on the Edge router in the RFP. These parameters are universally accepted to evaluate WAN solution. 2. Request you to please change the clause as follows: "The solution should support 1000k IPv4 routes. The mentioned scalability parameters are related to firewall solution not to the SD-WAN / routing solution. It is recommended to highlight the route, ACLs, VPNs scalability and the bandwidth terminated on the Edge router in the RFP. These parameters are universally accepted to evaluate WAN solution.		4. Larsen & Toubro Ltd (1,2) 5. Hewlett Packard Enterprise India Private Limited (1)
593.	4.8.13 Secured Network Devices (SD-WAN Enabled Routers) - Performance	Performance Parameter: 5. Minimum 500 Mbps of Application Control Throughput on SDWAN device. The device should	1. Most of the OEM do not publish Application throughput, Hence request you to please delete this clause	Kindly Refer Corrigendum	1. Forcepoint(1) 2. HPE (2) 3. Cisco (3,4) 4. Matrix Security & Surveillance Pvt Ltd (2) 5. RAH InfoTech (P) Ltd (1)



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Sr. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	Parameter 5/350 (13)	have Redundant Power Supplies.	2. Suggestive Input/Change Request Minimum 500 Mbps of Application Control Throughput on SDWAN device. The device should have Redundant Power Supplies or two devices should be deployed in 1:1 redundancy Justification Appliances will be deployed in redundancy hence request to modify the specification accordingly 3. The mentioned scalability parameters are related to firewall solution not to the SD-WAN / routing solution. It is recommended to highlight the route, ACLs, VPNs scalability and the bandwidth terminated on the Edge router in the RFP. These parameters are universally accepted to evaluate WAN solution. 4. The solution should support 64k Multicast routes.		6. iValue InfoSolutions Pvt. Ltd. (1) 7. Larsen & Toubro Ltd (3,4) 8. Hewlett Packard Enterprise India Private Limited (2)
594.	4.8.13 Layer 2 Network Switches - 24 Ports- Design & Performance 2/351 (3)	Design & Performance: 2. Should have 1GB Flash & 1GB CPU memory	As per current trends, the memory ask may not be able to meet the future demand or load requirement and can lead to poor network performance, hence for project beneficial in longer run, please change the clause as "Should have min 2GB Flash & min 2GB CPU Memory"	As per RFP	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
595.	4.8.13 Layer 2 Network Switches - 24 Ports-	Design & Performance: 3. Should have LED indicator for per port status, FAN, PSU and Management Status	This is favouring to one OEM and restrict leading OEM participation. Kindly modify the clause as	Kindly refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco



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Sr. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	Design & Performance 3/351 (3)		"Should have LED indicator for per port status, PSU and Management Status"		
596.	4.8.13 Layer 2 Network Switches - 24 Ports- Design & Performance 4/351 (13)	Design & Performance: 4. 0°C to 50°C operating temperature and 10% to 95% relative humidity	1. This is favouring to one OEM and restrict leading OEM participation. Kindly modify the clause as "0°C to 45°C operating temperature and 10% to 90% relative humidity" 2. Architectire differs from OEM to OEMs. Commonly 15% to 95% relative humidity is standard and supporting all leading OEMs. Request to kinly ammend so that all leading OEM can participate. 3. Enterprise switches come with 0°C to 45°C operating temperature range. Please asked the same in non-Industrial grade Switches. Kindly modify clause as" 0°C to 45°C operating temperature and 10% to 95% relative humidity"	Kinldy refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd 2. HPE 3. Cisco 4. Samsung SDS India Pvt Ltd. 5. Dell Technologies 6. Elkosta Security Systems India 7. Telecommunications Consultants India Limited 8. Tech Mahindra 9. NEC Corporation India Pvt. Ltd. 10. Hewlett Packard Enterprise India Private Limited
597.	4.8.13 Layer 2 Network Switches - 24 Ports- Interface Rrequirements 1/351 (1)	Interface requirements: 1. Minimum of 24 ports 10/100/1000 Base-T and 4x 10G SFP+ ports	Please specify the type and quantity of 4x 10G SFP+ transceivers i.e. LR (1o Kms) or ER (40 Kms)?	Kinldy refer corrigendum	1. Sterlite Technologies Limited
598.	4.8.13 Layer 2 Network Switches - 24 Ports- Security 6/351 (1)	Security: 6. Should have minimum 1 K ACL entry support and Time-Based ACL	Suggestive Input/Change Request Time based and context based access policies are deployed via AAA/RADIUS integration in any large network. Request to modify the specification as requested Justification	Kinldy refer corrigendum	1. Hewlett Packard Enterprise India Private Limited



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Sr. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			SYN attack protection and DoS attack protection are common and similar. Request you to kindly ammend.		
599.	4.8.13 Layer 2 Network Switches - 24 Ports- Switching /Routing 6/351 (1)	Switching /Routing 6. Should support G.8032 standard based protocol for ring backbone	1. Request you to kindly remove the clause. These switches will not deployed in ring, hence G.8032 (Ethernet Ring Protection Protocol) will not required. Request you to kindly remove so that leading OEM can participate. 2. The requirement ask is not implemented within the campus/building environment and is implemented in large manufacturing plants or such environment. Hence, you are requested to kindly remove this clause. 3. The requirement ask is not implemented within the campus/building environment and is implemented in large manufacturing plants or such environment. Hence, you are requested to kindly remove this clause.	Kindly refer corrigendum	1. HPE 2. Cisco 3. Matrix Security & Surveillance Pvt Ltd 4. Hewlett Packard Enterprise India Private Limited 5. Matrix Security 6. CISCO
600.	4.8.13 Layer 2 Network Switches - 24 Ports- Switching /Routing 7/351 (3)	Switching/Routing: 7. Should have Port based VLAN, MAC based VLAN, private vlan and 802.1 AK for dynamic VLAN propagation	The 802.1ak is superseded by 802.1q, hence request you to kindly change the clause as "Should have Port based VLAN, MAC based VLAN, private vlan and 802.1 AK/VTP or equivalent for dynamic VLAN propagation"	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
601.	4.8.13 Layer 2 Network Switches - 24 Ports- Management	Management: 4. Should have L2 Traceroute, L2 Ping and Multicast Traceroute	Suggestive Input/Change Request Should have IPv4 and IPv6 traceroute and ping.network. Request to modify the specification as requested Justification	Kindly refer corrigendum	1. HPE 2. Hewlett Packard Enterprise India Private Limited



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Sr. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	4/352 (4)		These protocols are OEM specific request you to kindly ammend so that all OEMs can participate. Should have IPv4 and IPv6 traceroute and ping. These protocols are OEM specific request you to kindly ammend so that all OEMs can participate.		3. Matrix Security & Surveillance Pvt Ltd
602.	4.8.13 Layer 2 Network Switches - 24 Ports- Security 1/352 (3)	Security: 1. Local authentication database for RADIUS Authentication for 802.1x login	We do support local authentication database which is used when RADIUS server is not reachable and centralised authentication database such as LDAP, AD, etc. are also supported. Please confirm our understanding on this clause is in-line to your requirement.	As per RFP (The suggestion are inline with the RFP)	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
603.	4.8.13 Layer 2 Network Switches - 24 Ports- Security 3/352 (4)	Security: 3. Should have SSH-2, SCP, SFTP for secure management	1. Suggestive Input/Change Request Should have SSH-2, SCP/SFTP for secure management Justification Since SCP and SFTP both are equivalent for secured file transfer protocol. The protocols varies between OEMs. Request you to kindly ammend so that leading OEM can participate. 2. Should have SSH-2, SCP/SFTP for secure management Since SCP and SFTP both are equivalent for secured file transfer protocol. The protocols varies between OEMs. Request you to kindly ammend so that leading OEM can participate.	Kindly Refer Corrigendum	1. HPE (1) 2. Hewlett Packard Enterprise India Private Limited(1) 3. Matrix Security & Surveillance Pvt Ltd (2)



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Sr. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
604.	4.8.13 Layer 2 Network Switches - 24 Ports- Security 4/352 (7)	Security: 4. Should have dynamic arp inspection, DHCP snooping, Private VLAN, SYN attack protection, GARP protection	1. SYN attack protection and DoS attack protection are common and similar. Request you to kindly ammend. 2. SYN attack/DDoS are initiated by the outside network to inside. Access layer do not support these protocol and needs to be removed from the clause. Also, in a production environment, advertisement of router IPs are not encouraged by the access switches, therefore we may not require the GARP protection but ARP is very much required. Request you to kindly modify the clause to protect ARP traffic which will meet the desired functionality 3. Should have dynamic arp inspection, DHCP snooping, Private VLAN, SYN attack protection or CPU DoS protection, GARP protection SYN attack protection and DoS attack protection are common and similar. Request you to kindly ammend.	Kindly Refer Corrigendum	1. HPE 2. Cisco (2) 3. Matrix Security And Surveillance Pvt Ltd (1,2) 4. Hewlett Packard Enterprise India Private Limited 5. Matrix Security And Surveillance Pvt Ltd
605.	4.8.13 Layer 2 Network Switches - 24 Ports- Security 6/352 (3)	Security: 6. Should have minimum 1 K ACL entry support and Time-Based ACL	1. Suggestive Input/Change Request Time based and context based access policies are deployed via AAA/RADIUS integration in any large network. Request to modify the specification as requested Justification SYN attack protection and DoS attack protection are common and similar. Request you to kindly ammend.	Kindly refer corrigendum	1. HPE 2. Matrix Security & Surveillance Pvt Ltd



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			2. Should have minimum 1 K ACL entry support and Time-Based ACL via RADIUS Time based and context based access policies are deployed via AAA/RADIUS integration in any large network. Request to modify the specification as requested		
606.	4.8.13 Layer 2 Network Switches - 24 Ports-Switching /Routing 11/352 (01)	Switching /Routing: 11. Should have traffic rate limiting with Configurable bandwidth granularity of 8 KBps		Kindly Refer Corrigendum	1. Tejas Networks
607.	4.8.13 Layer 2 Network Switches - 24 Ports-Switching /Routing 16/352 (7)	Switching /Routing: 16. Must Support RFC 3619 for sub 50 ms failover and it should seamlessly integrate with Core and Distribution	1. The requirement ask is not implemented within the campus/building environment and is implemented in large manufacturing plants or such environment. Hence, you are requested to kindly remove this clause. 2. Suggestive Input/Change Request Request you to kindly remove the clause. Justification These switches will not deployed in ring, hence G.8032 (Ethernet Ring Protection Protocol) will not required. Request you to kindly remove so that leading OEM can participate. 3. Request you to kindly remove the clause. These switches will not deployed in ring, hence G.8032 (Ethernet Ring Protection Protocol)	Kindly Refer Corrigendum	1. HPE 2. Cisco 3. Matrix Security & Surveillance Pvt Ltd 4. Hewlett Packard Enterprise India Private Limited



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			will not required. Request you to kindly remove so that leading OEM can participate.		
608.	4.8.13 Layer 2 Network Switches - 24 Ports-Switching /Routing 17/352 (3)	Switching /Routing: 17. Should have Configurable multicast session limit per port	We do support multicast route limits and IP IGMP limits. Please confirm if our understanding is in-line to your requirement and kindly share the use case for the asked requirement.	Kindly Refer Corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
609.	4.8.13 Layer 2 Network Switches - 24 Ports-Certifications 1/353 (7)	Certifications: 1. Model should have safety and standards certifications like IEC & CISPR as below : IEC61000-4-6:2008/EN61000-4-6:2009, IEC61000-4-8:2009/EN61000-4-8:2010 , EN 55022:2010 Class A, CISPR 22:2008 Class A, CISPR24:201 OClassA, R	1. Radiated Immunity 10V/criteria, UL60950-1 2ndEd, CE 2.0 Compliant or equivalent safety and emissions standards or Indian standard 2. Justification The certified safety and emission standards vary between OEMs. Request to accept equivalent safety and emissions standards Every OEM will go for IEC/FCC/CISPR or its equivalent certification and CE2.0 is specifically for carrier ethernet services which is not the case here, hence in order to have participation from leading OEM, kindly modify the clause 3. The certified safety and emission standards vary between OEMs. Request to accept equivalent safety and emissions standards Model should have safety and standards certifications as below: IEC & CISPR certificates as below : IEC61000-4-6:2008/EN61000-4-	Kindly Refer Corrigendum	1. HPE(3) 2. Cisco (2,3) 3. Matrix Security & Surveillance Pvt Ltd (2,3) 4. Hewlett Packard Enterprise India Private Limited (3)



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			6:2009, IEC61000-4-8:2009/EN61000-4-8:2010 , EN 55022:2010 Class A, CISPR 22:2008 Class A, CISPR24:201 OClassA, Radiated Immunity 10V/criteria, UL60950-1 2ndEd, CE 2.0 Compliant or equivalent safety and emissions standards or Indian standard		
610.	4.8.13 Layer 2 Network Switches - 24 Ports- Management 7/353 (11)	Management: 7. Should be SDN capable with Open stack support and OpenFlow API support, should support IEEE P802.1Qaz	1. Request to accept REST APIs for software programmability, which can be used by upper layer controllers/management systems. Also for Virtual bridge LAN networks, accept the latest VXLAN standard support. IEEE P802.1Qaz (ETS) protocol is for datacenter switches. It is required for FCoE, hence IEEE 802.1Qaz is not require in access switches. 2. IEEE P802.1Qaz is data center technology known as ETS(Enhanced transmission selection) which provides customized bandwidth allocation to 802.1p classes of traffic. Assign different amounts of bandwidth to Ethernet, FCoE, or iSCSI traffic classes that require different bandwidth, latency, and best-effort treatment during network congestion in Data center. Kindly allow IEEE802.1P for LAYER 2 switch to comply. 3. Kindly modify clause as" Should be SDN capable with Open stack support and OpenFlow API support, should	Kindly Refer Corrigendum	1. HPE (1) 2. Dell Technologies(2) 3. Elkosta Security Systems India (2,3) 4. Telecommunications Consultants India Limited (2,3) 5. Tech Mahindra (2,3) 6. NEC Corporation India Pvt. Ltd. (2,3) 7. Samsung SDS India Pvt Ltd. (2,3) 8. Hewlett Packard Enterprise India Private Limited 9. Tejas Networks Ltd 10. Matrix Security & Surveillance Pvt Ltd



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			support IEEE P802.1Qaz or IEEE 802.1P"		
611.	4.8.13 Network Racks 16U-10/353 (4)	10. Included Hardware (2) keys	1. As per the remarks submitted above in the Point for the Inside cabinet temperature (AC requirment for cooling) in the Outdoor JB's, if you wish to go ahead with AC based cooling in the JB's then the lock and handle should be provisioned as under: electromegnatic handle with 9 digit keypad lock and rear steel door with emergency auto door opening system. Along with 2 Nos. 16 A 1PH PDU with 10 IEC C13 , 4 IEC C19 and 6 5/15 A sockets with 2 mtr. cord , Lock, Auto door, Pdu should be from one OEM for better SLA IN AC Rack air will leak with normal Lock 2. electromegnatic handle with 9 digit keypad lock and rear steel door with emergency auto door opening system. Along with 2 Nos. 16 A 1PH PDU with 6 IEC C13 , 4 IEC C19 and 6 no 5/15 A sockets with 2 mtr. cord , Lock, Auto door,cooling unit, monitoring, fire safety, PDU should be from one OEM for better SLA	As per RFP	1. Transline Technologies Pvt. Ltd. 2. INTEC INFONET PVT. LTD. 3. BECIL
612.	4.8.13 Network Racks 16U-11/353 (5)	11. Hole Type EIA 3/8" square holes	EIA 3/8" square holes	As per RFP	1. Transline Technologies Pvt. Ltd. 2. INTEC INFONET PVT. LTD. 3. Marushika Technology Advisors Pvt. Ltd.
613.	4.8.13 Network Racks 16U-	12. Rack Post Shape L Shape	L Shape 19" angle Alzn	Kindly refer correngidum	1. Marushika Technology Advisors Pvt. Ltd.



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	12/353 (1)				
614.	4.8.13 Network Racks 16U-14/353 (1)	14. Rack Doors Removable, Lockable and Reversible.	Removable, Lockable and Reversible.	As per RFP	1. Marushika Technology Advisors Pvt. Ltd.
615.	4.8.13 Network Racks 16U-15/353 (1)	15. Rack Sides Removable and Lockable	Removable and Lockable/ screw with poly urethane (PU) gasket. Gasket is required in side panel to avoid air leakage	As per RFP (MSI is free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP.)	1. Marushika Technology Advisors Pvt. Ltd.
616.	4.8.13 Network Racks 16U- 12 /353 (4)	12. Rack Post Shape: L Shape	L Shape 19" angle Alzn L Shape 19" angle Alzn	Kindly refer correngidum	1. Transline Technologies Pvt. Ltd. 2. INTEC INFONET PVT. LTD.
617.	4.8.13 Network Racks 16U-17/353 (1)	17. Cooling Options 500W or more,	1. The current solutuon is with 500W cooling at police station is highly undersized and surely will not be suitable for application. Following improvement in specs is suggested for application requirement 500W or more, 3500 watts zero U side mounted in rack cooling system with inverter driven rotatry compressor with min. 2 fans, compressor should be fitted in ODU. Indoor/ outdoor unit dim. (105W x 850D x 805H) mm/ (255W x 762D x 540H) mm. Cooling unit controller and HMI display should be mounted on front door for easy operation 500W is undersize cooling requets to accept suggetsed specs on 3.5kW 2. The current solutuon is with 500W cooling at police station is highly	As per RFP (MSI is free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP.)	1. Marushika Technology Advisors Pvt. Ltd. 2. Transline Technologies



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			undersized and surely will not be suitable for application .. Following improvement in specs is suggested for application requirement		
618.	4.8.13 Network Racks 16U- Rack Mount Depth 2/353 (1)	Rack Mount Depth: 2. Adjustment Range: 6" to 30" in 1" increments (152 - 762 mm)	Alzn 19" angle and depth support channel should be Adjustment Range: 6" to 30" in 1" increments (152 - 762 mm). for earthing angles has to be Alzn Appropriate angle and channel depth should be provided to ensure the required adjustable range. This is worth mentioning because it is specifically asked for rated capacity on levelling feet without casters.	As per RFP	1. Marushika Technology Advisors Pvt. Ltd.
619.	4.8.13 Network Racks 16U- Rack Mount Depth 3/353 (1)	Rack Mount Depth: 3. Min. Internal Space: 37.25" (946 mm)	Min. Internal Space: 37.25" (946 mm) add min else it will be OEM Specific	Kindly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd.
620.	4.8.13 Network Racks 16U- Rack Mount Depth 4/353 (1)	Rack Mount Depth: 4. Front Space: 1.5" (38 mm) *	Min. Front Space: 1.5" (38 mm) * add min else it will be OEM Specific It is submitted to please consider minimum Front Space: 1.5" (38 mm) to allow open competition. Since this specific requirement is restricting the competition.	Kindly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd.
621.	4.8.13 Network Racks 16U- Rack Mount Depth 5/353 (2)	Rack Mount Depth: 5. Rear Space: 6.75" (171 mm) *	Min. Rear Space: 6.75" (171 mm) * add min else it will be OEM Specific Min. Rear Space: 6.75" (171 mm) * add min else it will be OEM Specific It is submitted to please consider minimum Rear Space: 6.75" (171 mm) to allow open competition. Since this specific requirement is restricting the competition.	Kindly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd.
622.	4.8.13 3KVA UPS with 30 min battery backup at 80%	1. Capacity: 3 KVA	The tender specifications can be met by higher capacity UPS, please allow.	As per RFP : (please refer page no -354 , point no-1 capacity - 3 KVA is asked , MSI is free to	1. Eaton Power Quality Pvt.Ltd. 2. Modi Infosol Pvt. Ltd.



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	load- 1/354 (4)			quote higher capacity to meet the specification as per RFP.)	3. Elkosta Security Systems India 4. Telecommunications Consultants India Limited
623.	4.8.13 3KVA UPS with 30 min battery backup at 80% load- 11/354 (5)	11. Output Voltage Distortion: < 1% THD@ linear load < 5% @ non-linear load	The industry practice is "< 3 % THD (Linear Load) & < 5 % THD (Non-linear Load) - request please change as per industry practice & oblige.	Kindly Refer Corrigendum	1. Microtek International Pvt. Ltd 2. Larsen & Toubro Ltd 3. Suttantra 4. Schneider Electric 5. NEC Corporation India Pvt. Ltd.
624.	4.8.13 3KVA UPS with 30 min battery backup at 80% load- 12/354 (5)	12. Output Power factor/Unity	1. The output Power Factor as per industry practice for small rating UPS systems is "0.6 lag to Unity" - request please change as per industry practice & oblige. 2. The single phase UPS rating from 1 kVA to 3 KVA comes with 0.8 output power factor whereas > 3 kVA upto 10 kVA comes with 0.9 output power factor. Please confirm.	Kindly Refer Corrigendum	1. Microtek International Pvt. Ltd 2. Larsen & Toubro Ltd 3. Suttantra 4. Schneider Electric 5. NEC Corporation India Pvt. Ltd. 6. Schneider-Electric
625.	4.8.13 3KVA UPS with 30 min battery backup at 80% load- 14/354 (5)	14. AC - AC Efficiency: 95% @ 230V output with typical load	The AC-AC Efficiency as per industry practice for small rating UPS systems is 90%" - request please change as per industry practice & oblige. The single phase UPS rating from 1 kVA to 3 KVA comes with ≥ 90% AC-AC Efficiency.	Kindly Refer Corrigendum	1. Microtek International Pvt. Ltd 2. Larsen & Toubro Ltd 3. Schneider Electric 4. NEC Corporation India Pvt. Ltd. 5. suttantra
626.	4.8.13 3KVA UPS with 30 min battery backup at 80%	22. Battery Backup: 6KVA UPS with 30 min battery backup at 80% load	1. AH SHOULD BE 4032 on 2.4KW Load VAH calculation as per Battery Manufacturer is given.	Kindly refer corrigendum	1. Telecommunications Consultants India Limited



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	load- 22/354 (11)	(4950 VAH or more)	Seems to be a typo error, request please change as "3KVA UPS with 30 min battery backup at 80% load (4950 VAH or more)" & oblige. We assume it is 3 kVA and not 6 kVA UPS with 30 min battery backup at 80% load (4950VAH or more). Please confirm Backup time and VAH are given 30 minutes for 6 KVA UPS. But required UPS is 3 KVA. Please specify required VAH for 3 KVA. 2. As per specification heading and BOQ, 3 kVA UPS is asked while 6 kVA UPS is mentioned in battery back up. Bidder understood that 3 kVA UPS is required. Kindly confirm.		2. SWITCHING AVO ELECTRO POWER LTD 3. Larsen & Toubro Ltd 4. Schneider Electric 5. Tech Mahindra 6. Sterlite Technologies Limited 7. NEC Corporation India Pvt. Ltd 8. Suttantra 9. Microtek International Pvt. Ltd
627.	4.8.13 3KVA UPS with 30 min battery backup at 80% load- 23/354 (7)	23.1 Battery Flexibility: 16 to 20 Battery Flexibility required	For 3KVA UPS: Battery Flexibility: 72 to 96 Battery Flexibility required As per Stanadard Specification These typer of small rating UPS Systems do not offer large DC BUS design & industry best practices DC BUS Designs are as 6batteries systems(i.e.72VDC BUS)-request please change as requested & oblige. The DC bus voltage are different for different OEM's. Thus number of batteries which can be connected depends on OEM design. Please confirm.	Kindly refer corrigendum	1. Telecommunications Consultants India Limited 2. SWITCHING AVO ELECTRO POWER LTD 3. Larsen & Toubro Ltd 4. Schneider Electric 5. NEC Corporation India Pvt. Ltd. 6. Suttantra 7. Microtek International Pvt. Ltd
628.	4.8.13 10KVA UPS with 30	10. Output Voltage: 220/230/240Vac shall be	The output for a 10 KVA Rating UPS shall be Three Phase for better stability of	Kindly refer corrigendum	1. Eaton Power Quality Pvt.Ltd.



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	min battery backup at 80% load- 10/355 (5)	available with +/-1% regulation	operations on Mains, Bypass and DG Set. Ex: A Three Phase Input and single Phase output UPS when operated on bypass mode during emergency situations make complete system unstanble. This is due to the fact that full 10 KVA 1 Phase Power comes on one phase of Incomer. The DG Set and the input Transformer both will get Overload. We request you to change to Three Phase output.		2. Modi Infosol Pvt. Ltd. 3. Elkosta Security Systems India 4. Telecommunications Consultants India Limited 5. Tech Mahindra
629.	4.8.13 3KVA UPS with 30 min battery backup at 80% load- 28 A/355 (1)	28. A Product: CE Certified	CE marking is an administrative marking for products that are sold within the European Economic Area whereas as per government of India, for UPS upto 10 kVA - BIS i.e. Bureau of Indian Standards is mandatory and applicable that are sold in India. Please confirm	Kindly refer corrigendum	1. Schneider Electric
630.	4.8.13 10KVA UPS with 30 min battery backup at 80% load- 22/356 (1)	22. Battery backup: 10KVA UPS with 30 min battery backup at 80% load (9984 VAH or more)	As per specifications and certification requirement, battery back up is 30 mins and 60 mins respectively. Bidder understood that 30 mins of battery back up (min 9984 VAH) is correct and required. Kindly confirm	Kindly refer corrigendum	1. Sterlite Technologies Limited
631.	4.8.13 10KVA UPS with 30 min battery backup at 80% load- 24/356 (3)	24. Battery Flexibility: 32 to 40 Battery Flexibility required	Since different OEM has different DC BUS design also in small ratings UPS systems large DC BUS is not advisable cosidering small charing profile. We request you to kindly ammend this clause as "as per manufacturer design" & oblige.	Kindly refer corrigendum	1. Larsen & Toubro Ltd 2. Microtek International Pvt. Ltd 3. suttantra
632.	4.8.14 DC-Functional requirements & KPIs- a/360 (1)	a. Data Center being created at PHQ should be of type Tier III.	As per our understanding proposed data center needs to follow/ comply TIER-III specifications. Also please confirm if certificate is required.	Kindly refer corrigendum	1. Sterlite Technologies Limited



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633.	4.8.14 DC-Functional requirements & KPIs -I/361 (3)	IA unified storage will be provisioned at the Data Center, which will cater to the raw inputs from field cameras and sensors for a periodicity of 30 days scale-out storage with min 12 to 24 controller architecture multiple controllers chosen to as to have a maximum of 2:1 ratio between VMS servers (VM's/physical) and controller This ensures that if a controller fails, and the VMS servers it was servicing move to another controller, the controller does not get chocked. The linear scalability of performance and capacity of every drive bay added, performance will increase by the same amount till the maximum capacity of the storage required. This Storage will be complimented with additional storage of 2 PiB to store the tagged and identified data from Video Analytics (VA) and VMS management tools for a period of 180 days.	1. Kindly confirm the retention period of tagged data from VA & VMS management tool because which is contradictory to 'Point - iii. of Storage requirement for Camera Video Streams'. (The flagged video feeds will be archived in the storage for at least 90 days or as defined SOP by the police officials.) at Page 234 and 6.18 SAN storage for database, boot, Flagged Data and Backup for 90 days - 2 PB Page 599. As per our understanding the flagged data will be archived for 90 days or 2 PB whichever is higher. Kindly confirm 2. This clause indicate that unified storage should be used to store feed for 30 days, which is directly contradicts with "Scale out NAS Storage with rack for surveillance video data for 30 days – 20 PB", where scale-out system is been asked. Also, only SMB2 protocols support is asked 4.8.16(a), however, to store Flag Data a Separate SAN/Unified Storage is been asked. Considering that the Data would be moved by VMS software from Scale-Out-NAS to SAN/Unified Storage to store Flag Data, VMS shall be able to read/write to SAN storage over FCP and/or iSCSI protocols and FCP, iSCSI, SMB and NFS for Unified Storage. 3. SAN and Unified are two different products - SAN Storage only Support FCP and iSCSI protocols, where as Unified Storage support FCP, iSCSI, NFS and CIFS. As SAN is subset of Unified Storage we	Kindly Refer Corrigendum	1. NEC Corporation India Pvt. Ltd. 2. Larsen & Toubro Ltd 3. SCS TECH INDIA PVT. LTD. 4. SCS TECH INDIA



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			request you to consider only Unified Storage to bring all OEM to same product line. The performance and capacity requirement can be met with minimum 2 controller offering a Scale-Out NAS in a Single Filesystem or Name Space. Restricting to 12 Nodes offer commercial benefits to a specific OEM and make other Scale-Out-NAS solution expensive. 4. This clause indicate that unified storage should be used to store feed for 30 days, which is directly contradicts with "Scale out NAS Storage with rack for surveillance video data for 30 days – 20 PB", where scale-out system is been asked. Also, only SMB2 protocols support is asked 4.8.16(a), however, to store Flag Data a Separate SAN/Unified Storage is been asked. Considering that the Data would be moved by VMS software from Scale-Out-NAS to SAN/Unified Storage to store Flag Data, VMS shall be able to read/write to SAN storage over FCP and/or iSCSI protocols and FCP, iSCSI, SMB and NFS for Unified Storage. SAN and Unified are two different products - SAN Storage only Support FCP and iSCSI protocols, where as Unified Storage support FCP, iSCSI, NFS and CIFS. As SAN is subset of Unified Storage we request you to consider only Unified Storage to bring all OEM to same product line.		



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			5. The performance and capacity requirement can be met with minimum 2 controller offering a Scale-Out NAS in a Single Filesystem or Name Space. Restricting to 12 Nodes offer commercial benefits to a specific OEM and make other Scale-Out-NAS solution expensive. Hence we request you to modify this clause and read it as: A unified storage will be provisioned at the Data Center, which will cater to the raw inputs from field cameras and sensors for a periodicity of 30 days scale-out storage with min 12 4 to 24 controller architecture multiple controllers chosen to as to have a maximum of 2:1 ratio best performance achievable as per solution design between VMS servers (VM's/physical) and controller This ensures that if a controller fails, and the VMS servers it was servicing move to another controller, the controller does not get chocked. The linear scalability of performance and capacity of every drive bay added, performance will increase by the same amount till the maximum capacity of the storage required. This Storage will be complimented with additional unified storage of 2 PiB to store the tagged and identified data from Video Analytics (VA) and VMS management tools for a period of 180 days.		
634.	4.8.14 DC-Functional requirements	s. The ANPR- Vehicle Surveillance server must be capable to manage minimum 30/40 channels (cameras)	1. Running 1 ANPR channel/ CPU core will have severe impact on throughput and adds on considerably to latency of the ANPR solution software resulting in lower	Kindly Refer Corrigendum	1. NVIDIA



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	& KPIs - s/362 (1)	simultaneously. Each ANPR server will have 40 cores. Each core will cater to 1 ANPR channel/ camera. Henceforth, total 41 servers required, keeping failover redundancy in operation, 44 No. of ANPR analytical servers are provisioned with Open source platform.	detection rate and recognition accuracy in REAL-TIME. Performance evaluation details are available at https://blogs.nvidia.com/blog/2019/05/21/intel-inference-nvidia-gpus/ Based on channel(s) specified and best practices followed by other smart/safe city projects we request C-DAC to include 3x Tesla T4 GPUs per ANPR server to ensure sustained optimum performance of ANPR solution software. In case Delhi police/C-DAC has issue with space/cooling, we request you to increase the no. of T4 per systems as multiple OEMs have support upto 8 T4/ server and do the calculation accordingly.		
635.	4.8.14 DC-Functional requirements & KPIs - z/362 (1)	z. Generator: Gen-set with N+N/1 redundancy for ensuring power generation backup arrangement parallel to streaming raw input requirement of 750 KVA that includes 350 KVA for IT load, 150 KVA for C4i and 200 KVA for PAC. Provision of 1000 KVA power generation will made on High Availability Mode.	As per our understanding that, the load requirement is of 750 KVA (N) and to meet HA for DG, N+N or N+1 is required hence Kindly confirm if 250 kVA DG X 4 Nos Qty can be considered in BOQ along with AMF /LT Panel which will also meet the 1000 KVA DG requirement of the BOQ /SOR.	As per RFP	1. Sterlite Technologies Limited
636.	4.8.14 DC-Functional requirements & KPIs - hh. Storage at Data Center:/363 (1)	Storage will be capable of more than 25 GBPS throughput- at 100 % write on SMB2 and higher version for handling the camera feed and other work load. It will be configured with 20PiB	SATA drives should not be considered as standard technology been used in enterprise storage and no other OEM provides SATA drives except a specific OEM	Kindly Refer Corrigendum	1. SCS TECH INDIA PVT. LTD.



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		usable capacity in single file system, using equal to or less than 12 TB or more (NLSAS/SATA / SSD HDD).	A storage performance of 25GBps is asked (204800 Mbps, which at rate of 4Mbps camera feed can support up to 51200 cameras). When RFP has specifically asking for a performance it should be allowed to the Bidder or OEM to provide right Storage Solution to meet the performance requirement. Department may ask for sizing details to ensure that the proposed solution would meet the requirement as asked in the RFP. Note: As per "Video Management Server for Camera feeds" section on page 233, a support of 2000 Cameras have been asked. Department should clarify if they are considering 8Mbps per camera feed from the cameras or the performance figure is to fit in a specific model of a specific OEM, the aggregated camera feed speed till date in most of the safe city is not beyond 5Mbps. Hence we request you to modify & read the clause as : Storage will be capable of more than 25 GBPS throughput- at 100 % write on SMB2/NFS/FCP/iSCSI and higher version for handling the camera feed and other work load. It will be configured with 20PiB usable capacity in single file system, using equal to or less than 12 TB or more (NLSAS/ SATA/SSD HDD).		
637.	4.8.14 DC- Functional requirements & KPIs - jj. DC Architecture/3	--	The RFP does talk about the DC network architecture at page 364 but there is no mention of spine leaf architecture which can help in achieving higher performance, scalability and flexibility. Further,	As per RFP (Already mentioned)	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco



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	64 (3)		compute virtualization has also been asked in the RFP which will be have more benefits when spine leaf architecture is deployed. Request you to kindly consider the same.		
638.	4.8.14 DC-Functional requirements & KPIs -ii/364 (1)	ii. Storage will be distributed clustered Architecture written for Scale-Out Storage operations, scale out storage will be configured with minimum 12 controllers of the same type. Over all storage cluster will be upgradable to min 2 x numbers of Storage controllers/Storage nodes, without any disruptions/downtime to production workflow for performance, capacity enhancement, software/firmware upgrades. All storage nodes/controllers will be active for all Storage shares, contributing in performance and capacity of the system. The scale out storage will be configured with minimum 1.5 TB (total) federated/globally coherent or better, DRAM based cache/memory.	This clause indicate that unified storage should be used to store feed for 30 days, which is directly contradicts with "Scale out NAS Storage with rack for surveillance video data for 30 days – 20 PB", where scale-out system is been asked. Also, only SMB2 protocols support is asked 4.8.16(a), however, to store Flag Data a Separate SAN/Unified Storage is been asked. Considering that the Data would be moved by VMS software from Scale-Out-NAS to SAN/Unified Storage to store Flag Data, VMS shall be able to read/write to SAN storage over FCP and/or iSCSI protocols and FCP, iSCSI, SMB and NFS for Unified Storage. SAN and Unified are two different products - SAN Storage only Support FCP and iSCSI protocols, where as Unified Storage support FCP, iSCSI, NFS and CIFS. As SAN is subset of Unified Storage we request you to consider only Unified Storage to bring all OEM to same product line. The performance and capacity requirement can be met with minimum 2 controller offering a Scale-Out NAS in a Single Filesystem or Name Space. Restricting to 12 Nodes offer commercial benefits to a specific OEM and make other	Kindly Refer Corrigendum	- SCS TECH INDIA PVT. LTD. - SCS TECH INDIA



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			Scale-Out-NAS solution expensive. We request you to modify this clause This clause indicate that unified storage should be used to store feed for 30 days, which is directly contradicts with "Scale out NAS Storage with rack for surveillance video data for 30 days – 20 PB", where scale-out system is been asked. Also, only SMB2 protocols support is asked 4.8.16(a), however, to store Flag Data a Separate SAN/Unified Storage is been asked. Considering that the Data would be moved by VMS software from Scale-Out-NAS to SAN/Unified Storage to store Flag Data, VMS shall be able to read/write to SAN storage over FCP and/or iSCSI protocols and FCP, iSCSI, SMB and NFS for Unified Storage. SAN and Unified are two different products - SAN Storage only Support FCP and iSCSI protocols, where as Unified Storage support FCP, iSCSI, NFS and CIFS. As SAN is subset of Unified Storage we request you to consider only Unified Storage to bring all OEM to same product line. The performance and capacity requirement can be met with minimum 2 controller offering a Scale-Out NAS in a Single Filesystem or Name Space. Restricting to 12 Nodes offer commercial benefits to a specific OEM and make other Scale-Out-NAS solution expensive.		



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			We request you to modify this clause and read it as: Storage will be distributed clustered Architecture written for Scale-Out Storage operations, scale out storage will be configured with minimum ~~12~~ 4 controllers of the same type. Over all storage cluster will be upgradable to min 2 x numbers of Storage controllers/Storage nodes, without any disruptions/downtime to production workflow for performance, capacity enhancement, software/firmware upgrades. All storage nodes/controllers will be active for all Storage shares, contributing in performance and capacity of the system. The scale out storage will be configured with minimum 1.5 TB (total) federated/globally coherent or better, DRAM based cache/memory.		
639.	4.8.14 DC-Functional requirements & KPIs - kk/365 (2)	kk. Rack Floor- servers, storage & security Appliances inside racks: Total Servers - 184, No. of Racks - 30 (Occupied), 24 (future scalability)	There is mismatch in information as well throughout the RFP in various area's like No. of Rack, No. of Poles v/s No. of sites v/s No. of Junction Box, No. of Servers (Physical/Virtual), etc.	Kindly Refer Corrigendum	1. Presto 2. Presto Infosolutions Pvt. Ltd.
640.	4.8.14 DC-Functional requirements & KPIs - Concept design & layouts/365 (2)	Data Center (DC) at PHQ 7th floor: DC will occupy around racks of capacity as per given space, as safe city requirements are concern 33 racks of space including all servers, storage and Network components in	--	NO suggestive input received from OEM/Vendor	1. Presto 2. Presto Infosolutions Pvt. Ltd.



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		centralized architecture framework will be required.			
640 a	4.8.14 DC- Functional requirements & KPIs - Concept design & layouts/365	DC will occupy BMC room along with common NOC and SOC room for maintenance of Data Center IT Equipment's. Total 20TR PAC x 7 quantity equals to 140TR PAC will be used for RFP- for selection of MSI for implementation and O&M of surveillance System under Safe City Project of Delhi Police Page 366 of 656 cooling, whereas 400 KVA UPS for Power to IT load with HA will be used. Power requirement for given infrastructure is around 260 KVA.		Kindly refer Corrigendum	
641.	4.8.15 a. C4I Server -2/369 (7)	2. Processor: Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 Ghz base freq. or equivalent or better.	All major server players today offer AMD EPYC series CPU option as well in enterprise grade servers apart from Intel. AMD EPYC series has equivalent performance benchmarks and TCO compared to Intel for workloads such as Surveillance and ITMS. Therefore request to change this clause to "Up to two Intel® Xeon® Scalable 2nd Gen processors or AMD EPYC series processors, up to 20 cores/processor @ 2.5 Ghz base freq. or equivalent or better.", so that SI has multiple options for CPU to choose from and propose best optimised solution.	Kindly Refer Corrigendum Refer Appendix-4 : Server Type1	1. HPE 2. Matrix Security & Surveillance Pvt Ltd 3. Larsen & Toubro Ltd 4. Hewlett Packard Enterprise India Private Limited 5. AMD India Pvt.Ltd



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642.	4.8.15 a. C4I Server -3/369 (2)	3. Memory slots - 16 DDR4 DIMM slots, speed up to 2666MT/s or better	All latest server models from reputed Server OEM support 24 DIMM slots and 2933 MT/s Memory, hence in order to ensure healthy competition, it is requested to kindly change the clause as "Memory slots - 24 DIMM slots and 2933 MT/s Memory"	As per RFP (Minimum Specification are quoted, bidder are free to quote above and asked)	1. Cisco 2. AMD India Pvt.Ltd
643.	4.8.15 a. C4I Server -5/369 (1)	5. Disks supported: Front drive bays: Up to 10 x 2.5" SAS/SATA (HDD/SSD) with up to 2 NVMe SSD or higher.	Every server OEM has different architecture and supports different qty. and type of HDD as per design. Therefore, request to change this clause to "Front drive bays: Up to 10 x 2.5" SAS/SATA (HDD/SSD) "	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. Hewlett Packard Enterprise India Private Limited
644.	4.8.15 a. C4I Server -6/369 (7)	6. RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 8GB Cache Memory on single / Multiple controllers.	8GB Cache memory is restricting leading OEM participation. Also, 2 GB cache is more than sufficient for enterprise workload for safe cities, hence in order to enable leading OEM participation, kindly change the clause as "RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 2GB Cache Memory on single / Multiple controllers." The major benefit of cache on controller is to accelerate read/write IOPS and reduce latency when any host tries to access the server. In majority of smart/safe city tenders, ask of 2GB cache on single RAID controller is more than sufficient to cater surveillance, analytics and ITMS application workloads. Current ask of 8GB cache is not at all required as per scope of work and favours a specific OEM. Therefore request authority to change this clause to "12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 2GB Cache Memory on single	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. Matrix Security & Surveillance Pvt Ltd 2. HPE 3. Cisco 4. Hewlett Packard Enterprise India Private Limited



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			/Multiple controllers." for wider OEM participation.		
	4.8.15 a. C4I Server -7/369	Disks configured : 3x 600GB 15K RPM SAS drives or higher.		Kindly refer corrigendum Refer Appendix-4 : Server Type1	
645.	4.8.15 a. C4I Server -9/369 (7)	9. 10G Networking Features: 4 x 10G Copper Ethernet ports with 3 mts. Length 10G factory crimped copper Ethernet patch cords for each port	TOR switches requested in the tender have SFP+/SFP28 ports fully populated with Multi-Mode transceivers whereas the Ethernet option requested at server level is Copper. Please modify the Copper Ethernet connectivity to Fibre Ethernet connectivity to meet the compliance clause and even connectivity consideration. This amendment request applies to all other server categories as well for backbone/TOR connectivity along with required LC-LC cable length	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. Telecommunications Consultants India Limited 2. Dell Technologies 3. Elkosta Security Systems India 4. Tech Mahindra 5. NEC Corporation India Pvt. Ltd. 6. Samsung SDS India Pvt Ltd. 7. EFKON India Pvt. Ltd
646.	4.8.15 a. C4I Server -15/370 (03)	15. Pre-failure alert: Should provide predictive failure monitoring & proactive alerts of actual or impending component failure for fan, power supply, memory, CPU, RAID, NIC, HDD	Predictive failure monitoring is only available for specific server components such as memory and HDD. This is an industry standard complied by all major server vendors in market. Therefore request the authority to change this clause to " Should provide predictive failure monitoring & proactive alerts of actual or impending component failure for memory and HDD" Kindly revise the clause as " Should provide predictive failure monitoring & proactive alerts of actual or impending component failure for memory and HDD"	Kindly Refer Corrigendum Refer Appendix-4 : Server Type1	1. HPE 2. Hewlett Packard Enterprise India Private Limited 3. Matrix Security & Surveillance Pvt Ltd



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647.	4.8.15 a. C4I Server -17/370 (11)	17. LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LED Indicator / LCD Panel.	1. Display of system ID or status information can only be done on LCD panel whereas LED indicator light up in different colors to indicate the health status of server. Some vendors have LCD panels and others use LED indicator for the same functionality depending on the hardware design. Therefore request authority to change this clause to "LED indicator should light up in different colors as per health status of server or should display system ID, status information and system error code followed by descriptive text on LCD Panel." 2. The clause/statement is not clear, hence in order to have more clarity, kindly modify the clause as "LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LCD panels or should light up various LEDs on LED panel in different colors during normal system operation and error conditions"	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. Cisco 2. HPE 3. Matrix Security & Surveillance Pvt Ltd 4. Hewlett Packard Enterprise India Private Limited 5. Matrix Security & Surveillance Pvt Ltd 6. CISCO
648.	4.8.15 a. C4I Server -19/370 (3)	19. Server security - Should have a cyber resilient architecture for a hardened server design for protection, detection & recovery from cyber attacks - Should protect against firmware which executes before the OS boots	These clauses are specific to one OEM and restricts leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete these clauses	Kindly refer Corrigendum Refer Appendix-4 : Server Type1	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
649.	4.8.15 b. Integration	2. Processor: Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20	Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 GHz base freq. or equivalent or two	Kindly refer Corrigendum	1. AMD India Pvt.Ltd



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Sr. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	Servers- 2/371 (1)	cores/processor @ 2.5 Ghz base freq. or equivalent or better.	AMD EPYC 7002 series processor upto 24 cores/ processor at 2.3 GHz or better.	Refer Appendix-4 : Server Type1	
650.	4.8.15 b. Integration Servers- 3/371 (2)	3. Memory slots - 16 DDR4 DIMM slots, speed up to 2666MT/s or better	All latest server models from reputed Server OEM support 24 DIMM slots and 2933 MT/s Memory, hence in order to ensure healthy competition, it is requested to kindly change the clause as "Memory slots - 24 DIMM slots and 2933 MT/s Memory"	As per RFP : (Minimum Specification are quoted, bidder are free to quote above and asked)	1. Cisco 2. AMD India Pvt.Ltd
651.	4.8.15 b. Integration Servers- 6/371 (3)	6. RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 8GB Cache Memory on single / Multiple controllers.	8GB Cache memory is restricting leading OEM participation. Also, 2 GB cache is more than sufficient for enterprise workload for safe cities, hence in order to enable leading OEM participation, kindly change the clause as "RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 2GB Cache Memory on single / Multiple controllers."	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
652.	4.8.15 b. Integration Servers- 9/372 (1)	9. 10G Networking features: 4 x 10G Copper Ethernet ports	Please change the clause to 4x10G SFP+ populated with SFP+ transceivers.	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. EFKON India Pvt. Ltd
653.	4.8.15 b. Integration Servers- 17/373 (3)	17. LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LED Indicator / LCD Panel.	The clause/statement is not clear, hence in order to have more clarity, kindly modify the clause as "LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LCD panels or should light up various LEDs on LED panel in different colors during normal system operation and error conditions" The clause/statement is not clear, hence in order to have more clarity,	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco



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Sr. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
654.	4.8.15 b. Integration Servers- 19/373 (3)	19. Server security - Should have a cyber resilient architecture for a hardened server design for protection, detection & recovery from cyber attacks - Should protect against firmware which executes before the OS boots	These clauses are specific to one OEM and restricts leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete these clauses	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
655.	4.8.15 b. Integration Servers- 19/373 (6)	19. Server security Should provide effective protection, reliable detection & rapid recovery using: - Signed firmware updates - Support for Hardware root of trust / Silicon based hardware root of trust - Secure default passwords - Configuration and firmware drift detection - Secure alerting - Rapid OS recovery	Rapid OS recovery" is specific to one OEM and restrict leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete "Rapid OS recovery" clause	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco 3. Matrix Security & Surveillance Pvt Ltd 4. Matrix Security & Surveillance Pvt Ltd
656.	4.8.15 b. Integration Servers- 19/373 (6)	19. Server security Should provide system lockdown feature to prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware	This clause is specific to one OEM and restrict broader participation. Hence, in order to enable leading OEM participation without any impact on desired functionality, kindly change the clause as "Should provide detect and prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco 3. Matrix Security & Surveillance Pvt Ltd
657.	4.8.15 c. Video Management Servers -2/374 (1)	2. Processor: Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 Ghz	Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 GHz base freq. or equivalent or two	Kindly Refer Corrigendum Refer Appendix-4 : Server Type1	1. AMD India Pvt.Ltd



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Sr. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
		base freq. or equivalent or better.	AMD EPYC 7002 series processor upto 24 cores/ processor at 2.3 GHz or better.		
658.	4.8.15 c. Video Management Servers -3/374 (3)	3. Memory slots - 16 DDR4 DIMM slots, speed up to 2666MT/s or better	All latest server models from reputed Server OEM support 24 DIMM slots and 2933 MT/s Memory, hence in order to ensure healthy competition, it is requested to kindly change the clause as "Memory slots - 24 DIMM slots and 2933 MT/s Memory"	As per RFP (Minimum Specification are quoted, bidder are free to quote above and asked)	1. Cisco 2. AMD India Pvt.Ltd
659.	4.8.15 c. Video Management Servers -5/374 (1)	5. Disks supported: Front drive bays: Up to 10 x 2.5" SAS/SATA (HDD/SSD) with up to 2 NVMe SSD or higher.	Every server OEM has different architecture and supports different qty. and type of HDD as per design. Therefore, request to change this clause to "Front drive bays: Up to 10 x 2.5" SAS/SATA (HDD/SSD) "	Kindly Refer Corrigendum Refer Appendix-4 : Server Type1	1. HPE
660.	4.8.15 c. Video Management Servers -6/374 (3)	6. RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 8GB Cache Memory on single / Multiple controllers.	8GB Cache memory is restricting leading OEM participation. Also, 2 GB cache is more than sufficient for enterprise workload for safe cities, hence in order to enable leading OEM participation, kindly change the clause as "RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 2GB Cache Memory on single / Multiple controllers."	Kindly Refer Corrigendum Refer Appendix-4 : Server Type1	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
661.	4.8.15 c. Video Management Servers -9/374 (1)	9. 10G Networking features: 4 x 10G Copper Ethernet ports	Please change the clause to 4x10G SFP+ populated with SFP+ transceivers.	Kindly Refer Corrigendum Refer Appendix-4 : Server Type1	1. EFKON India Pvt. Ltd
662.	4.8.15 c. Video Management Servers - 17/375 (3)	17. LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LED Indicator / LCD Panel.	The clause/statement is not clear, hence in order to have more clarity, kindly modify the clause as "LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LCD	Kindly Refer Corrigendum Refer Appendix-4 : Server Type1	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco



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Sr. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			panels or should light up various LEDs on LED panel in different colors during normal system operation and error conditions" The clause/statement is not clear, hence in order to have more clarity,		
663.	4.8.15 c. Video Management Servers - 19/375 (9)	19. Server security - Should have a cyber resilient architecture for a hardened server design for protection, detection & recovery from cyber attacks - Should protect against firmware which executes before the OS boots	These clauses are specific to one OEM and restricts leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete these clauses "Rapid OS recovery" is specific to one OEM and restrict leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete "Rapid OS recovery" clause. This clause is specific to one OEM and restrict broader participation. Hence, in order to enable leading OEM participation without any impact on desired functionality, kindly change the clause as "Should provide detect and prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware"	Kindly Refer Corrigendum Refer Appendix-4 : Server Type1	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco 3. Matrix Security & Surveillance Pvt Ltd
664.	4.8.15 d. Video Recording Servers - 10/376 (1)	10. 10G Networking features: 4 x 10G Copper Ethernet ports with 3 mts. Length 10G factory crimped copper Ethernet patch cords for each port	Please change the clause to 4x10G SFP+ populated with SFP+ transceivers.	Kindly refer corrigendum Refer Appendix-5 : Server Type2	1. EFKON India Pvt. Ltd
665.	4.8.15 d. Video Recording	2. Processor: Up to two Intel® Xeon® Scalable 2nd	Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @	Kindly refer corrigendum	1. AMD India Pvt.Ltd



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Sr. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	Servers - 2/376 (1)	Gen processors, up to 20 cores/processor @ 2.5 Ghz base freq. or equivalent or better.	2.5 GHz base freq. or equivalent or two AMD EPYC 7002 series processor upto 24 cores/ processor at 2.3 GHz or better.	Refer Appendix-5 : Server Type2	
666.	4.8.15 d. Video Recording Servers - 4/376 (3)	4. Memory slots - 16 DDR4 DIMM slots, speed up to 2666MT/s or better	All latest server models from reputed Server OEM support 24 DIMM slots and 2933 MT/s Memory, hence in order to ensure healthy competition, it is requested to kindly change the clause as "Memory slots - 24 DIMM slots and 2933 MT/s Memory"	As per RFP (Minimum Specification are quoted, bidder are free to quote above and asked)	1. Cisco 2. AMD India Pvt.Ltd
667.	4.8.15 d. Video Recording Servers - 7/376 (3)	7. RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 8GB Cache Memory on single / Multiple controllers.	8GB Cache memory is restricting leading OEM participation. Also, 2 GB cache is more than sufficient for enterprise workload for safe cities, hence in order to enable leading OEM participation, kindly change the clause as "RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 2GB Cache Memory on single / Multiple controllers."	Kindly refer corrigendum Refer Appendix-5 : Server Type2	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
668.	4.8.15 d. Video Recording Servers - 18/377 (3)	18. LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LED Indicator / LCD Panel.	The clause/statement is not clear, hence in order to have more clarity, kindly modify the clause as "LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LCD panels or should light up various LEDs on LED panel in different colors during normal system operation and error conditions"	Kindly refer corrigendum Refer Appendix-5 : Server Type2	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
669.	4.8.15 d. Video Recording Servers - 20/377 (3)	20. Server security - Should have a cyber resilient architecture for a hardened server design for protection, detection &	These clauses are specific to one OEM and restricts leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete these clauses	Kindly refer corrigendum Refer Appendix-5 : Server Type2	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco



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Sr. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
		recovery from cyber attacks - Should protect against firmware which executes before the OS boots			
670.	4.8.15 d. Video Recording Servers - 20/378 (3)	20. Server security Should provide effective protection, reliable detection & rapid recovery using: - Signed firmware updates - Support for Hardware root of trust / Silicon based hardware root of trust - Secure default passwords - Configuration and firmware drift detection - Secure alerting - Rapid OS recovery	Rapid OS recovery" is specific to one OEM and restrict leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete "Rapid OS recovery" clause.	Kindly refer corrigendum Refer Appendix-5 : Server Type2	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
671.	4.8.15 d. Video Recording Servers - 20/378 (3)	20. Server security Should provide system lockdown feature to prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware	This clause is specific to one OEM and restrict broader participation. Hence, in order to enable leading OEM participation without any impact on desired functionality, kindly change the clause as "Should provide detect and prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware"	Kindly refer corrigendum Refer Appendix-5 : Server Type2	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
672.	4.8.15 e. Video Analytics Servers - 2/378 (1)	2. Processor: Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 Ghz base freq. or equivalent or better.	Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 GHz base freq. or equivalent or two AMD EPYC 7002 series processor upto 24 cores/ processor at 2.3 GHz or better.	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. AMD India Pvt.Ltd
673.	4.8.15 e. Video Analytics Servers - 4/378 (1)	4. Memory slots: 16 DDR4 DIMM slots, speed up to 2666MT/s or better	128 GB RAM 2933 MT/s support up to 512GB RAM, should have min. 24 DIMM slots	As per RFP (Minimum Specification are quoted, bidder are free to quote above and asked)	1. AMD India Pvt.Ltd



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Sr. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
674.	4.8.15 e. Video Analytics Servers - 15/379 (3)	15. LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LED Indicator / LCD Panel.	The clause/statement is not clear, hence in order to have more clarity, kindly modify the clause as "LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LCD panels or should light up various LEDs on LED panel in different colors during normal system operation and error conditions" The clause/statement is not clear, hence in order to have more clarity,	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
675.	4.8.15 e. Video Analytics Servers - 7/379 (3)	7. RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 8GB Cache Memory on single / Multiple controllers.	8GB Cache memory is restricting leading OEM participation. Also, 4 GB cache is more than sufficient for enterprise workload for safe cities, hence in order to enable leading OEM participation, kindly change the clause as "RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 4GB Cache Memory on single/ Multiple controllers."	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
676.	4.8.15 e. Video Analytics Servers - 9/379 (1)	9. 10G Networking features: 4 x 10G Copper Ethernet ports with 3 mts. Length 10G factory crimped copper Ethernet patch cords for each port	Please change the clause to 4x10G SFP+ populated with SFP+ transceivers	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. EFKON India Pvt. Ltd
677.	4.8.15 e. Video Analytics Servers - 17/380 (3)	17. Server security - Should have a cyber resilient architecture for a hardened server design for protection, detection & recovery from cyber attacks - Should protect against	These clauses are specific to one OEM and restricts leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete these clauses	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco



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Sr. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
		firmware which executes before the OS boots			
678.	4.8.15 e. Video Analytics Servers - 17/380 (3)	17. Server security Should provide effective protection, reliable detection & rapid recovery using: - Signed firmware updates - Support for Hardware root of trust / Silicon based hardware root of trust - Secure default passwords - Configuration and firmware drift detection - Secure alerting - Rapid OS recovery	Rapid OS recovery" is specific to one OEM and restrict leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete "Rapid OS recovery" clause.	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
679.	4.8.15 e. Video Analytics Servers - 17/380 (3)	17. Server security Should provide system lockdown feature to prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware	This clause is specific to one OEM and restrict broader participation. Hence, in order to enable leading OEM participation without any impact on desired functionality, kindly change the clause as "Should provide detect and prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware"	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
680.	4.8.15 f. Face Recognition Servers with 3x GPU in each server for 370 FRS Channels- 2/380 (1)	2. Processor: Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 Ghz base freq. or equivalent or better.	Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 GHz base freq. or equivalent or two AMD EPYC 7002 series processor upto 24 cores/ processor at 2.3 GHz or better.	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. AMD India Pvt.Ltd
681.	4.8.15 f. Face Recognition Servers with 3x GPU in each	9. 10G Networking features: 4 x 10G Copper Ethernet ports	Please change the clause to 4x10G SFP+ populated with SFP+ transceivers.	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. EFKON India Pvt. Ltd



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Sr. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	server for 370 FRS Channels- 9/381 (1)				
682.	4.8.15 f. Face Recognition Servers with 3x GPU in each server for 370 FRS Channels - 3/381 (1)	128 GB RAM 2666 MT/s support up to 512GB RAM, should have min. 24 DIMM slots	128 GB RAM 2933 MT/s support up to 512GB RAM, should have min. 24 DIMM slots	As per RFP (Minimum Specification are quoted, bidder are free to quote above and asked)	1. AMD India Pvt.Ltd
683.	4.8.15 f. Face Recognition Servers with 3x GPU in each server for 370 FRS Channels- 7/381 (3)	7. RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 8GB Cache Memory on single / Multiple controllers.	8GB Cache memory is restricting leading OEM participation. Also, 4 GB cache is more than sufficient for enterprise workload for safe cities, hence in order to enable leading OEM participation, kindly change the clause as "RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 4GB Cache Memory on single / Multiple controllers."	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
684.	4.8.15 f. Face Recognition Servers with 3x GPU in each server for 370 FRS Channels- 15/382 (3)	15. LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LED Indicator / LCD Panel.	The clause/statement is not clear, hence in order to have more clarity, kindly modify the clause as "LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LCD panels or should light up various LEDs on LED panel in different colors during normal system operation and error conditions"	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
685.	4.8.15 f. Face Recognition Servers with 3x GPU in each server for 370	17. Server security - Should have a cyber resilient architecture for a hardened server design for protection, detection &	These clauses are specific to one OEM and restricts leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete these clauses	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco



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Sr. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	FRS Channels-17/382 (3)	recovery from cyber attacks - Should protect against firmware which executes before the OS boots			
686.	4.8.15 f. Face Recognition Servers with 3x GPU in each server for 370 FRS Channels-17/382 (3)	17. Server security Should provide effective protection, reliable detection & rapid recovery using: - Signed firmware updates - Support for Hardware root of trust / Silicon based hardware root of trust - Secure default passwords - Configuration and firmware drift detection - Secure alerting - Rapid OS recovery	Rapid OS recovery" is specific to one OEM and restrict leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete "Rapid OS recovery" clause.	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
687.	4.8.15 f. Face Recognition Servers with 3x GPU in each server for 370 FRS Channels-17/382 (3)	17. Server security Should provide system lockdown feature to prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware	This clause is specific to one OEM and restrict broader participation. Hence, in order to enable leading OEM participation without any impact on desired functionality, kindly change the clause as "Should provide detect and prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware"	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
688.	4.8.15 g. AI Training and Continuous Learning Server/383 (1)	Clause (g) GPU Config: Should come pre-configured with 4X NVIDIA V100 or A100 (better performance card can be provided by supplier)	2. For AI Training and Continuous Learning server, based on best practices and higher accuracy for such large scale camera we strongly suggest that instead of 2 servers with 4 X v100/A100 GPUs per server, C-DAC must consider Single system with 8 X A100GPUs server with the added benefit of 12 NVLinks/GPU in the server offering 10x higher GPU-to-GPU bandwidth than PCIe Gen4. The config is	Kindly refer corrigendum Refer Appendix-7 : Server Type4	1. NVIDIA



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Sr. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			latest and would support Delhi Police/CDAC for next 5years with most of the technology updates.		
689.	4.8.15 g. AI Training and Continuous Learning Server- 11/383 (1)	11. 10G Networking features: 4 x 10G Copper Ethernet ports with 3 mts. Length 10G factory crimped copper Ethernet patch cords for each port	Please change the clause to 4x10G SFP+ populated with SFP+ transceivers.	Kindly refer corrigendum Refer Appendix-7 : Server Type4	1. EFKON India Pvt. Ltd
690.	4.8.15 g. AI Training and Continuous Learning Server- 15/383 (5)	15. GPU Config: Should come pre-configured with 4 X NVIDIA V100 or A100 (better performance card can be provided by supplier)	Please specify the GPU memory for the mentioned V100 card i.e. 16GB or 32GB so that respective bidder can accordingly configure As the number of cameras increase in future, GPU card requirement need to be increased as well to take care of multiple computations parallely. Moreover, NVLINK high-speed GPU interconnect is a crucial feature missing in current specs which enables scaling of memory and performance to meet the demands of complex AI training workloads in multi-GPU systems. Therefore request authority to change this clause to "Should come pre-configured with 4X NVIDIA V100 or A100 (better performance card can be provided by supplier) with NVIDA NVLINK support. The server system should also support scalability upto 8 x NVIDIA V100 or A100 cards."	Kindly refer corrigendum Refer Appendix-7 : Server Type4	1. Elkosta Security Systems India 2. Telecommunications Consultants India Limited 3. NEC Corporation India Pvt. Ltd. 4. Samsung SDS India Pvt Ltd. 5. Dell Technologies
691.	4.8.15 g. AI Training and Continuous Learning	2. Form Factor: 3U/ 4U rack mounted with sliding rails	2U/3U/4U Rack Mounted Systems with Sliding rails.	Kindly refer corrigendum Refer Appendix-7 : Server Type4	1. AMD India Pvt.Ltd



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Sr. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	Server- 2/383 (1)				
692.	4.8.15 g. AI Training and Continuous Learning Server- 3/383 (4)	3. Processor: Support up to Four Intel® Xeon® Scalable 2nd Gen processors, configured with 20 cores/processor @ 2.5 Ghz base freq. or equivalent or better.	Servers used for AI training do not need 4 CPU's and instead need to support multiple GPU's. GPU's are optimized for training artificial intelligence and deep learning models as they can process multiple computations simultaneously. The current CPU and GPU design proposed in RFP is not at all suitable for deep learning usecase. Therefore request authority to change this clause to "Support up to two Intel® Xeon® Scalable 2nd Gen processors, configured with 20 cores/processor @ 2.5 Ghz base freq. or equivalent or better." AMD Support up to Four Intel® Xeon® Scalable 2nd Gen "Gold" or higher processors, configured with 20 cores/processor @ 2.5 Ghz base freq. or two AMD EPYC 7002 series processor with atleast 48 cores/processor at 2.2 GHz or better or better. AMD EPYC 7002 series processor can provided as many as 64 cores in a single processor i.e. 128 cores in dual processor system. It is our submission to department to allow the chage so as to get the competetive advatages with options to choose.	Kindly refer corrigendum Refer Appendix-7 : Server Type4	1. HPE 2. Hewlett Packard Enterprise India Private Limited 3. AMD India Pvt.Ltd 4. AMD India Pvt.Ltd



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Sr. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
693.	4.8.15 g. AI Training and Continuous Learning Server- 4/383 (7)	4. Memory slots - 48x DDR4 slots - RDIMM, LRDIMM, NVDIMM (only on baseboard up to 12 PRTS)	The clause (only on baseboard up to 12 PRTS) is specific to one OEM and restricting leading OEM participation, hence please modify the clause as "Memory Slots - 48x DDR4 slots - RDIMM, LRDIMM, NVDIMM / PMEM" NVDIMM is supported only with older generation of Intel Xeon CPU's and the latest Intel 2nd generation CPU's support persistent memory instead. Moreover, current 4 CPU architecture is not at all suitable for deep learning models and instead 2 CPU's are more than sufficient to cater any type of workload. Since no. of CPU and memory slots go hand in hand. Therefore, kindly change this clause to "24 DDR4 slots - RDIMM, LRDIMM, NVDIMM or persistent memory" Please modify the clause for understanding ease as "48x DDR4 slots - RDIMM, LRDIMM, upto 12 NVDIMM" 32 x DDR4 slots - RDIMM, LRDIMM, The AMD EPYC based platform supports 32 DIMM slots. The present memory requirement can be easily fulfilled with 16 DIMM slot and the system will have additional 16 slots for future upgrade.	Kindly refer corrigendum Refer Appendix-7 : Server Type4	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco 3. HPE 4. Hewlett Packard Enterprise India Private Limited 5. Elkosta Security Systems India 6. Telecommunications Consultants India Limited 7. NEC Corporation India Pvt. Ltd. 8. Samsung SDS India Pvt Ltd. 9. AMD India Pvt.Ltd 10. Dell Technologies 11. AMD India Pvt. Ltd.
694.	4.8.15 g. AI Training and Continuous Learning	6. Disks Supported : Upto 24 2.5" Drives and up to 12 NVMe SSD capable universal slots	Please modify the clause as " Upto 24 2.5" Drives or up to 12 NVMe SSD capable universal slots" because 36 drive configuration is not available across all	Kindly refer corrigendum Refer Appendix-7 : Server Type4	1. NEC Corporation India Pvt. Ltd. 2. Elkosta Security Systems India



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	Server- 6/383 (8)		OEMs. This clause modification will meet configuration ask mentioned in the tender specifications and even the future scalability considerations looks like a typo Please modify the clause as " Upto 24 2.5" Drives or upto 12 NVMe SSD capable universal slots" because 36 drive configuration is not available across all OEMs. This clause modification will meet configuration ask mentioned in the tender specifications and even the future scalability considerations 24 SFF drives will never be required for training server workload and already high capacity external storage has been considered as per RFP SoW. Since every server vendor has different architecture design and support different qty. of internal HDD bays. Therefore kindly change this clause to "Upto 16 2.5" Drives and upto 4 NVMe SSD capable slots"		3. Telecommunications Consultants India Limited 4. Samsung SDS India Pvt Ltd. 5. HPE 6. Hewlett Packard Enterprise India Private Limited 7. Dell Technologies HPE
695.	4.8.15 g. AI Training and Continuous Learning Server- 7/383 (5)	7. RAID Controller: 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 8GB Cache Memory on single /Multiple controllers.	Kindly revise the clause as "12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 2GB Cache Memory on single /Multiple controllers." 8GB Cache memory is restricting leading OEM participation. Also, 4 GB cache is more than sufficient for enterprise workload for safe cities, hence in order to enable leading OEM participation, kindly change the clause as "RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 4GB Cache Memory on single / Multiple controllers."	Kindly refer corrigendum Refer Appendix-7 : Server Type4	1. Larsen & Toubro Ltd 2. Matrix Security & Surveillance Pvt Ltd 3. Cisco
696.	4.8.15 g. AI Training and	9. Flexible Onboard NDC:1G/10G/25G	Please clarify if we need to provide the NDC card on day 1 or if the ask for specific	Kindly refer corrigendum	1. Elkosta Security Systems India



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	Continuous Learning Server- 9/383 (5)		card is to be supported in the AI server as NDC option	Refer Appendix-7 : Server Type4	2. Telecommunications Consultants India Limited 3. NEC Corporation India Pvt. Ltd. 4. Samsung SDS India Pvt Ltd. 5. Dell Technologies
697.	4.8.15 g. AI Training and Continuous Learning Server- 17/384 (2)	17. Pre-failure alert: Should provide predictive failure monitoring & proactive alerts of actual or impending component failure for fan, power supply, memory, CPU, RAID, NIC, HDD	Kindly revise the clause as " Should provide predictive failure monitoring & proactive alerts of actual or impending component failure for memory and HDD"	Kindly refer corrigendum Refer Appendix-7 : Server Type4	1. Larsen & Toubro Ltd 2. HPE
698.	4.8.15 g. AI Training and Continuous Learning Server- 19/384 (3)	19. LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LED Indicator / LCD Panel.	The clause/statement is not clear, hence in order to have more clarity, kindly modify the clause as "LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LCD panels or should light up various LEDs on LED panel in different colors during normal system operation and error conditions" The clause/statement is not clear, hence in order to have more clarity,	Kindly refer corrigendum Refer Appendix-7 : Server Type4	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
699.	4.8.15 g. AI Training and Continuous Learning Server- 21/384 (3)	21. Server security - Should have a cyber resilient architecture for a hardened server design for protection, detection & recovery from cyber attacks - Should protect against	These clauses are specific to one OEM and restricts leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete these clauses	Kindly refer corrigendum Refer Appendix-7 : Server Type4	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco



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		firmware which executes before the OS boots			
700.	4.8.15 g. AI Training and Continuous Learning Server- 21/384 (3)	21. Server security Should provide effective protection, reliable detection & rapid recovery using: - Signed firmware updates - Support for Hardware root of trust / Silicon based hardware root of trust - Secure default passwords - Configuration and firmware drift detection - Secure alerting - Rapid OS recovery	Rapid OS recovery" is specific to one OEM and restrict leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete "Rapid OS recovery" clause.	Kindly refer corrigendum Refer Appendix-7 : Server Type4	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
701.	4.8.15 g. AI Training and Continuous Learning Server- 21/385 (3)	21. Server security Should provide system lockdown feature to prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware	This clause is specific to one OEM and restrict broader participation. Hence, in order to enable leading OEM participation without any impact on desired functionality, kindly change the clause as "Should provide detect and prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware"	Kindly refer corrigendum Refer Appendix-7 : Server Type4	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
702.	4.8.15 g. AI Training and Continuous Learning Server- 22/385 (3)	22. Intrusion alert: Intrusion alert in case chassis cover being opened	Physical server protection is already taken care at the rack level in which the server will be kept. This server accessory is not needed in today's modern data center's and is a legacy technology. Therefore request authority to delete this clause.	As per RFP(Minimum Specification is asked, Bidder are free to quote above)	1. HPE 2. Hewlett Packard Enterprise India Private Limited
703.	4.8.15 h. ANPR Servers for 1622	h. ANPR Servers for 1622 Channels	GPU cards are not mentioned in the ANPR servers requirement	As Per RFP (for ANPR OCR cpu has been considered, if GPU is required so by using unified	1. Matrix Security & Surveillance Pvt Ltd 2. Bodhtree



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	Channels/385 (6)		Since the RFP asks for analytics which will have continuous improvement of the performance over the period of time. Also the accuracy requirements mentioned are very high. Considering this, we request you to kindly incorporate the GPU cards for the servers. These functional requirements cannot be achieved without GPU compute.	Platform GPU can be utilise from VA and FRS stack.) Not required for OCR.	3. Videonetics Technologies Pvt Ltd. 4. PruTech Solutions India Pvt. Ltd. 5. Tech Mahindra 6. Johnson Controls
704.	4.8.15 h. ANPR Servers for 1622 Channels- 3/385 (1)	3. Processor: Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 Ghz base freq. or equivalent or better.	Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 GHz base freq. or equivalent or two AMD EPYC 7002 series processor upto 24 cores/ processor at 2.3 GHz or better.	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. AMD India Pvt.Ltd
705.	4.8.15 h. ANPR Servers for 1622 Channels- 4/385 (3)	4. Memory slots: 16 DDR4 DIMM slots, speed up to 2666MT/s or better	All latest server models from reputed Server OEM support 24 DIMM slots and 2933 MT/s Memory, hence in order to ensure healthy competition, it is requested to kindly change the clause as "Memory slots - 24 DIMM slots and 2933 MT/s Memory"	As per RFP	1. Cisco 2. AMD India Pvt.Ltd
706.	4.8.15 h. ANPR Servers for 1622 Channels- 7/385 (3)	7. RAID Controller: 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 8GB Cache Memory on single / Multiple controllers.	8GB Cache memory is restricting leading OEM participation. Also, 2 GB cache is more than sufficient for enterprise workload for safe cities, hence in order to enable leading OEM participation, kindly change the clause as "RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 2GB Cache Memory on single / Multiple controllers."	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
707.	4.8.15 h. ANPR Servers for 1622 Channels- 10/386 (1)	10. 10G Networking features: 4 x 10G Copper Ethernet ports	Please change the clause to 4x10G SFP+ populated with SFP+ transceivers.	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. EFKON India Pvt. Ltd



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Sr. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
708.	4.8.15 h. ANPR Servers for 1622 Channels-17/386 (3)	17. LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LED Indicator / LCD Panel.	The clause/statement is not clear, hence in order to have more clarity, kindly modify the clause as "LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LCD panels or should light up various LEDs on LED panel in different colors during normal system operation and error conditions"	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
709.	4.8.15 h. ANPR Servers for 1622 Channels-19/386 (3)	19. Server security - Should have a cyber resilient architecture for a hardened server design for protection, detection & recovery from cyber attacks - Should protect against firmware which executes before the OS boots	These clauses are specific to one OEM and restricts leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete these clauses	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
710.	4.8.15 h. ANPR Servers for 1622 Channels-19/387 (3)	19. Server security Should provide effective protection, reliable detection & rapid recovery using: - Signed firmware updates - Support for Hardware root of trust / Silicon based hardware root of trust - Secure default passwords - Configuration and firmware drift detection - Secure alerting - Rapid OS recovery	Rapid OS recovery" is specific to one OEM and restrict leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete "Rapid OS recovery" clause.	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
711.	4.8.15 h. ANPR Servers for 1622 Channels-19/387 (3)	19. Server security Should provide system lockdown feature to prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware	This clause is specific to one OEM and restrict broader participation. Hence, in order to enable leading OEM participation without any impact on desired functionality, kindly change the clause as "Should provide detect and prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware"	Kindly refer corrigendum Refer Appendix-6: Server Type3	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
712.	4.8.15 i. Video Summarization and Forensics Server-3/387 (1)	3. Processors: Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 Ghz base freq. or equivalent or better.	Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 GHz base freq. or equivalent or two AMD EPYC 7002 series processor upto 24 cores/ processor at 2.3 GHz or better.	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. AMD India Pvt.Ltd
713.	4.8.15 i. Video Summarization and Forensics Server-4/387 (1)	4. Memory: 128 GB RAM 2666 MT/s support up to 512GB RAM, should have min. 24 DIMM slots	128 GB RAM 2933 MT/s support up to 512GB RAM, should have min. 24 DIMM slots	As per RFP (Minimum Specification is asked, Bidder are free to quote above.)	1. AMD India Pvt.Ltd
714.	4.8.15 i. Video Summarization and Forensics Server-10/388 (1)	10. 10G Networking features: 4 x 10G Copper Ethernet ports	Please change the clause to 4x10G SFP+ populated with SFP+ transceivers.	Kindly refer corrigendum Refer Appendix-6: Server Type3	1. EFKON India Pvt. Ltd
715.	4.8.15 i. Video Summarization and Forensics Server-16/388 (3)	16. LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LED Indicator / LCD Panel.	The clause/statement is not clear, hence in order to have more clarity, kindly modify the clause as "LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LCD panels or should light up various LEDs on LED panel in different colors during normal system operation and error conditions"	Kindly Refer Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
716.	4.8.15 i. Video Summarization and Forensics Server-8/388 (3)	8. RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 8GB Cache Memory on single / Multiple controllers.	8GB Cache memory is restricting leading OEM participation. Also, 4 GB cache is more than sufficient for enterprise workload for safe cities, hence in order to enable leading OEM participation, kindly change the clause as "RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 4GB Cache Memory on single / Multiple controllers."	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
717.	4.8.15 i. Video Summarization and Forensics Server-18/389 (3)	18. Server security - Should have a cyber resilient architecture for a hardened server design for protection, detection & recovery from cyber attacks - Should protect against firmware which executes before the OS boots	These clauses are specific to one OEM and restricts leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete these clauses	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
718.	4.8.15 i. Video Summarization and Forensics Server-18/389 (3)	18. Server security Should provide effective protection, reliable detection & rapid recovery using: - Signed firmware updates - Support for Hardware root of trust / Silicon based hardware root of trust - Secure default passwords - Configuration and firmware drift detection - Secure alerting - Rapid OS recovery	"Rapid OS recovery" is specific to one OEM and restrict leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete "Rapid OS recovery" clause.	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
719.	4.8.15 i. Video Summarization and Forensics Server-18/389 (3)	18. Server security Should provide system lockdown feature to prevent change (or "drift") in system firmware image(s) & prevent	This clause is specific to one OEM and restrict broader participation. Hence, in order to enable leading OEM participation without any impact on desired functionality, kindly change the	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
		malicious modification of server firmware	clause as "Should provide detect and prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware"		
720.	4.8.15 j. PIU (Picture Intelligence Unit) Server-10/390 (1)	10. 10G Networking features: 4 x 10G Copper Ethernet ports	Please change the clause to 4x10G SFP+ populated with SFP+ transceivers.	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. EFKON India Pvt. Ltd
721.	4.8.15 j. PIU (Picture Intelligence Unit) Server-3/390 (1)	3. Processors: Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 Ghz base freq. or equivalent or better.	Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 GHz base freq. or equivalent or two AMD EPYC 7002 series processor upto 24 cores/ processor at 2.3 GHz or better.	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. AMD India Pvt.Ltd
722.	4.8.15 j. PIU (Picture Intelligence Unit) Server-4/390 (1)	4. Memory: 128 GB RAM 2666 MT/s support up to 512GB RAM, should have min. 24 DIMM slots	128 GB RAM 2933 MT/s support up to 512GB RAM, should have min. 24 DIMM slots	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. AMD India Pvt.Ltd
723.	4.8.15 j. PIU (Picture Intelligence Unit) Server-7/390 (3)	7. RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 8GB Cache Memory on single / Multiple controllers.	8GB Cache memory is restricting leading OEM participation. Also, 4 GB cache is more than sufficient for enterprise workload for safe cities, hence in order to enable leading OEM participation, kindly change the clause as "RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 4GB Cache Memory on single / Multiple controllers."	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
724.	4.8.15 j. PIU (Picture	16. LCD/LED panel - Should display system ID, status	The clause/statement is not clear, hence in order to have more clarity, kindly	Kindly refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	Intelligence Unit) Server- 16/391 (3)	information and system error code followed by descriptive text on LED Indicator / LCD Panel.	modify the clause as "LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LCD panels or should light up various LEDs on LED panel in different colors during normal system operation and error conditions"	Refer Appendix-6 : Server Type3	2. Cisco
725.	4.8.15 j. PIU (Picture Intelligence Unit) Server- 18/391 (3)	18. Server security - Should have a cyber resilient architecture for a hardened server design for protection, detection & recovery from cyber attacks - Should protect against firmware which executes before the OS boots	These clauses are specific to one OEM and restricts leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete these clauses	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
726.	4.8.15 j. PIU (Picture Intelligence Unit) Server- 18/391 (3)	18. Server security Should provide effective protection, reliable detection & rapid recovery using: - Signed firmware updates - Support for Hardware root of trust / Silicon based hardware root of trust - Secure default passwords - Configuration and firmware drift detection - Secure alerting - Rapid OS recovery	"Rapid OS recovery" is specific to one OEM and restrict leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete "Rapid OS recovery" clause.	Kindly refer corrigendum Refer Appendix-6 : Server Type3	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
727.	4.8.15 k. Domain Controller, EMS Server- 10/392 (1)	10. 10G Networking features: 4 x 10G Copper Ethernet ports	Please change the clause to 4x10G SFP+ populated with SFP+ transceivers.	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. EFKON India Pvt. Ltd



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728.	4.8.15 k. Domain Controller, EMS Server- 18/392 (3)	18. Server security Should provide system lockdown feature to prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware	This clause is specific to one OEM and restrict broader participation. Hence, in order to enable leading OEM participation without any impact on desired functionality, kindly change the clause as "Should provide detect and prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware"	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
729.	4.8.15 k. Domain Controller, EMS Server- 3/392 (1)	3. Processors: Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 Ghz base freq. or equivalent or better.	Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 GHz base freq. or equivalent or two AMD EPYC 7002 series processor upto 24 cores/ processor at 2.3 GHz or better.	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. AMD India Pvt.Ltd
730.	4.8.15 k. Domain Controller, EMS Server- 4/392 (3)	4. 16 DDR4 DIMM slots, speed up to 2666MT/s or better	1. All latest server models from reputed Server OEM support 24 DIMM slots and 2933 MT/s Memory, hence in order to ensure healthy competition, it is requested to kindly change the clause as "Memory slots - 24 DIMM slots and 2933 MT/s Memory" 2. All latest server models from reputed Server OEM support 24 DIMM slots and 2933 MT/s Memory, hence in order to ensure healthy competition, it is requested to kindly change the clause as "Memory slots - 24 DIMM slots and 2933 MT/s Memory" 16 DDR4 DIMM slots, speed up to 2933 MT/s or better	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. Cisco (1) 2. AMD India Pvt.Ltd (2)



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
731.	4.8.15 k. Domain Controller, EMS Server- 7/392 (3)	7. RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 8GB Cache Memory on single / Multiple controllers.	8GB Cache memory is restricting leading OEM participation. Also, 2 GB cache is more than sufficient for enterprise workload for safe cities, hence in order to enable leading OEM participation, kindly change the clause as "RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 2GB Cache Memory on single / Multiple controllers."	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
732.	4.8.15 k. Domain Controller, EMS Server- 17/393 (3)	17. LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LED Indicator / LCD Panel.	The clause/statement is not clear, hence in order to have more clarity, kindly modify the clause as "LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LCD panels or should light up various LEDs on LED panel in different colors during normal system operation and error conditions"	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
733.	4.8.15 k. Domain Controller, EMS Server- 20/393 (3)	20. Server security - Should have a cyber resilient architecture for a hardened server design for protection, detection & recovery from cyber attacks - Should protect against firmware which executes before the OS boots	These clauses are specific to one OEM and restricts leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete these clauses	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
734.	4.8.15 k. Domain Controller, EMS Server- 20/394 (6)	20. Server security Should provide system lockdown feature to prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware	"Rapid OS recovery" is specific to one OEM and restrict leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete "Rapid OS recovery" clause. This clause is specific to one OEM and restrict broader participation. Hence, in	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd



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			order to enable leading OEM participation without any impact on desired functionality, kindly change the clause as "Should provide detect and prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware"		
735.	4.8.15 l. Antivirus Server and LDAP server- 10/394 (1)	10. 10G Networking features: 4 x 10G Copper Ethernet ports	Please change the clause to 4x10G SFP+ populated with SFP+ transceivers.	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. EFKON India Pvt. Ltd
736.	4.8.15 l. Antivirus Server and LDAP server- 3/394 (1)	3. Processors: Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 Ghz base freq. or equivalent or better.	Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 GHz base freq. or equivalent or two AMD EPYC 7002 series processor upto 24 cores/ processor at 2.3 GHz or better.	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. AMD India Pvt.Ltd
737.	4.8.15 l. Antivirus Server and LDAP server- 4/394 (3)	4. Memory slots: 16 DDR4 DIMM slots, speed up to 2666MT/s or better	1. All latest server models from reputed Server OEM support 24 DIMM slots and 2933 MT/s Memory, hence in order to ensure healthy competition, it is requested to kindly change the clause as "Memory slots - 24 DIMM slots and 2933 MT/s Memory" 2. All latest server models from reputed Server OEM support 24 DIMM slots and 2933 MT/s Memory, hence in order to ensure healthy competition, it is requested to kindly change the clause as	As per RFP (Minimum Specification is asked, Bidder are free to quote above.)	1. Cisco (1) 2. AMD India Pvt.Ltd (2)



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			"Memory slots - 24 DIMM slots and 2933 MT/s Memory" 16 DDR4 DIMM slots, speed up to 2933 MT/s or better		
738.	4.8.15 l. Antivirus Server and LDAP server- 7/394 (3)	7. RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 8GB Cache Memory on single / Multiple controllers.	8GB Cache memory is restricting leading OEM participation. Also, 2 GB cache is more than sufficient for enterprise workload for safe cities, hence in order to enable leading OEM participation, kindly change the clause as "RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 2GB Cache Memory on single / Multiple controllers.	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
739.	4.8.15 l. Antivirus Server and LDAP server- 17/395 (3)	17. LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LED Indicator / LCD Panel.	The clause/statement is not clear, hence in order to have more clarity, kindly modify the clause as "LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LCD panels or should light up various LEDs on LED panel in different colors during normal system operation and error conditions"	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
740.	4.8.15 m. Viewing Management Server- 10/395 (1)	10. 10G Networking features: 4 x 10G Copper Ethernet ports	Please change the clause to 4x10G SFP+ populated with SFP+ transceivers.	Kindly refer corrigendum Refer Appendix-5 : Server Type2	1. EFKON India Pvt. Ltd
741.	4.8.15 m. Viewing Management Server- 20/396 (3)	20. Server security Should provide effective protection, reliable detection & rapid recovery using: - Signed firmware updates - Support for Hardware root of trust / Silicon based hardware root of trust	"Rapid OS recovery" is specific to one OEM and restrict leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete "Rapid OS recovery" clause.	Kindly refer Kindly refer corrigendum Refer Appendix-5 : Server Type2	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
		- Secure default passwords - Configuration and firmware drift detection - Secure alerting - Rapid OS recovery			
742.	4.8.15 m. Viewing Management Server- 3/396 (1)	3. Processors: Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 Ghz base freq. or equivalent or better.	Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 GHz base freq. or equivalent or two AMD EPYC 7002 series processor upto 24 cores/ processor at 2.3 GHz or better.	Kindly refer corrigendum Refer Appendix-5 : Server Type2	1. AMD India Pvt.Ltd
743.	4.8.15 m. Viewing Management Server- 4/396 (2)	4. Memory slots - 16 DDR4 DIMM slots, speed up to 2666MT/s or better	1. All latest server models from reputed Server OEM support 24 DIMM slots and 2933 MT/s Memory, hence in order to ensure healthy competition, it is requested to kindly change the clause as "Memory slots - 24 DIMM slots and 2933 MT/s Memory" 2. All latest server models from reputed Server OEM support 24 DIMM slots and 2933 MT/s Memory, hence in order to ensure healthy competition, it is requested to kindly change the clause as "Memory slots - 24 DIMM slots and 2933 MT/s Memory" 16 DDR4 DIMM slots, speed up to 2933 MT/s or better	As per RFP : (Minimum Specification is asked, Bidder are free to quote above.)	1. Cisco (1) 2. AMD India Pvt.Ltd (2)
744.	4.8.15 m. Viewing Management Server- 7/396 (3)	7. RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 8GB Cache Memory on single / Multiple controllers.	8GB Cache memory is restricting leading OEM participation. Also, 2 GB cache is more than sufficient for enterprise workload for safe cities, hence in order to enable leading OEM participation, kindly change the clause as "RAID Controller - 12Gbps PCIe 3.0 with	Kindly refer corrigendum Refer Appendix-5 : Server Type2	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			RAID 1, 5, 10, 50 with 2GB Cache Memory on single / Multiple controllers."		
745.	4.8.15 m. Viewing Management Server- 17/397 (3)	17. LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LED Indicator / LCD Panel.	The clause/statement is not clear, hence in order to have more clarity, kindly modify the clause as "LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LCD panels or should light up various LEDs on LED panel in different colors during normal system operation and error conditions"	Kindly refer corrigendum Refer Appendix-5 : Server Type2	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
746.	4.8.15 m. Viewing Management Server- 20/398 (3)	20. Server security - Should have a cyber resilient architecture for a hardened server design for protection, detection & recovery from cyber attacks - Should protect against firmware which executes before the OS boots	These clauses are specific to one OEM and restricts leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete these clauses	Kindly refer corrigendum Refer Appendix-5 : Server Type2	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
747.	4.8.15 m. Viewing Management Server- 20/398 (3)	20. Server security Should provide effective protection, reliable detection & rapid recovery using: - Signed firmware updates - Support for Hardware root of trust / Silicon based hardware root of trust - Secure default passwords - Configuration and firmware drift detection - Secure alerting - Rapid OS recovery	"Rapid OS recovery" is specific to one OEM and restrict leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete "Rapid OS recovery" clause.	Kindly refer corrigendum Refer Appendix-5 : Server Type2	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
748.	4.8.15 m. Viewing	20. Server security Should provide system	This clause is specific to one OEM and restrict broader participation. Hence, in	Kindly refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	Management Server- 20/398 (6)	lockdown feature to prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware	order to enable leading OEM participation without any impact on desired functionality, kindly change the clause as "Should provide detect and prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware"	Refer Appendix-5 : Server Type2	2. Cisco
749.	4.8.15 n. DLP (Data Leak Protection), PKI + MFA (Multi Factor Authentication) server- 10/398 (1)	10. 10G Networking features: 4 x 10G Copper Ethernet ports	Please change the clause to 4x10G SFP+ populated with SFP+ transceivers.	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. EFKON India Pvt. Ltd
750.	4.8.15 n. DLP (Data Leak Protection), PKI + MFA (Multi Factor Authentication) server- 3/398 (1)	3. Processors: Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 Ghz base freq. or equivalent or better.	Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 GHz base freq. or equivalent or two AMD EPYC 7002 series processor upto 24 cores/ processor at 2.3 GHz or better.	Kindly refer corrigendum Refer Appendix-4: Server Type1	1. AMD India Pvt.Ltd
751.	4.8.15 n. DLP (Data Leak Protection), PKI + MFA (Multi Factor Authentication) server- 4/398 (3)	4. Memory slots - 16 DDR4 DIMM slots, speed up to 2666MT/s or better	1. All latest server models from reputed Server OEM support 24 DIMM slots and 2933 MT/s Memory, hence in order to ensure healthy competition, it is requested to kindly change the clause as "Memory slots - 24 DIMM slots and 2933 MT/s Memory" 2. All latest server models from reputed Server OEM support 24 DIMM slots and 2933 MT/s Memory, hence in order to	As per RFP (Minimum Specification is asked, Bidder are free to quote above.)	1. Cisco (1) 2. AMD India Pvt.Ltd (2)



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			ensure healthy competition, it is requested to kindly change the clause as "Memory slots - 24 DIMM slots and 2933 MT/s Memory" 16 DDR4 DIMM slots, speed up to 2933 MT/s or better		
752.	4.8.15 n. DLP (Data Leak Protection), PKI + MFA (Multi Factor Authentication) server- 7/399 (3)	7. RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 8GB Cache Memory on single / Multiple controllers.	8GB Cache memory is restricting leading OEM participation. Also, 2 GB cache is more than sufficient for enterprise workload for safe cities, hence in order to enable leading OEM participation, kindly change the clause as "RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 2GB Cache Memory on single / Multiple controllers."	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
753.	4.8.15 n. DLP (Data Leak Protection), PKI + MFA (Multi Factor Authentication) server- 17/400 (3)	17. LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LED Indicator / LCD Panel.	The clause/statement is not clear, hence in order to have more clarity, kindly modify the clause as "LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LCD panels or should light up various LEDs on LED panel in different colors during normal system operation and error conditions"	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
754.	4.8.15 n. DLP (Data Leak Protection), PKI + MFA (Multi Factor Authentication) server- 20/400 (3)	1. Server security Should provide system lockdown feature to prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware	This clause is specific to one OEM and restrict broader participation. Hence, in order to enable leading OEM participation without any impact on desired functionality, kindly change the clause as "Should provide detect and prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware"	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
755.	4.8.15 n. DLP (Data Leak Protection), PKI + MFA (Multi Factor Authentication) server- 20/400 (3)	Server security Should provide effective protection, reliable detection & rapid recovery using: - Signed firmware updates - Support for Hardware root of trust / Silicon based hardware root of trust - Secure default passwords - Configuration and and firmware drift detection - Secure alerting - Rapid OS recovery	"Rapid OS recovery" is specific to one OEM and restrict leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete "Rapid OS recovery" clause.	Kindly refer corrigendum Refer Appendix-4 : Server Type1	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
756.	4.8.16 Storage & Backup Slution- a1/400 (1)	1 Controllers and Architecture - Scale out storage should be configured with minimum 12 controllers of the same type	1. Scale out NAS /Scale out Storage solution with rack for surveillance video data for 30 days – 20 PB Justification - Traditional Scale out NAS is only one way to address the requirement, there are many VMS vendors who prefer Scale out storage solutions which provides much more scalability and resiliency which is beyond the traditional scale out NAS solution. Storage being heart of the complete solution its advised to adopt the enterprise grade modern solution build for the higher scale, performance and higher resiliency solutions. 2. This clause is restricting leading OEM participation and suggested change would not impact the desired functionality. Hence in order to enable leading OEM participation, kindly change the clause as "1 Controllers and Architecture - Scale out storage should	Kindly refer corrigendum	1. HPE 2. Matrix Security & Surveillance Pvt Ltd (2) 3. Cisco (2) 4. Larsen & Toubro Ltd 5. RAH InfoTech



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			be multi-node architecture delivering throughput and capacity requirements" Kindly revise the clause as4. " Scale out NAS /Scale out Storage solution with rack for surveillance video data for 30 days – 20 PB " 3.Scale out storage should be configured with minimum ~~12~~ 4 controllers of the same type		
757.	4.8.16 Storage & Backup Slution- a1/400 (5)	1. Scale out NAS Storage with rack for surveillance video data for 30 days – 20 PB	1. Scale out NAS /Scale out Storage solution with rack for surveillance video data for 30 days – 20 PB Justification - Traditional Scale out NAS is only one way to address the requirement, there are many VMS vendors who prefer Scale out storage solutions which provides much more scalability and resiliency which is beyond the traditional scale out NAS solution. Storage being heart of the complete solution its advised to adopt the enterprise grade modern solution build for the higher scale , performance and higher resiliency solutions. 2. This clause is restricting leading OEM participation and suggested change would not impact the desired functionality. Hence in order to enable leading OEM participation, kindly change the clause as "1 Controllers and Architecture - Scale out storage should be multi-node architecture delivering throughput and	Kindly Refer Corrigendum	1. HPE(1) 2. Matrix Security & Surveillance Pvt Ltd (2) 3. Cisco (2) 4. Larsen & Toubro Ltd (1)



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			capacity requirements" Kindly revise the clause as " Scale out NAS /Scale out Storage solution with rack for surveillance video data for 30 days – 20 PB "		
758.	4.8.16 Storage & Backup Slution-a1/400 (1)	Offered storage must be certified/referenced with at least 3 VMS vendors including the offered VMS in this project, public documentation related best practices of offered storage with these 3 VMS vendors to be submitted.	Request to please delete this clause for wider participation as the choice of VMS will be bidder specific.	Kindly Refer Corrigendum	1. RAH InfoTech (P) Ltd
759.	4.8.16 Storage & Backup Slution-a1/400 (2)	1 Controllers and Architecture - Scale out storage should be configured with minimum 12 controllers of the same type	The performance and capacity requirement can be met with minimum 2 controller offering a Scale-Out NAS in a Single Filesystem or Name Space. Restricting to 12 Nodes offer commercial benefits to a specific OEM and make other Scale-Out-NAS solution expensive. Hence we request you to modify & read the clause as : Scale out storage should be configured with minimum 12 4 controllers of the same type We request to please change to 10 controllers, we our solution can fit in 10 controllers which will be efficient in Power consumption Scale out storage should be configured with minimum 12 4 controllers of the same type	Kindly Refer Corrigendum	1. SCS TECH INDIA PVT. LTD. 2. DDN 3. RAH InfoTech (P) Ltd 4. iValue InfoSolutions Pvt. Ltd



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
760.	4.8.16 Storage & Backup Slution- a 1/400 (6)	Offered storage must be certified/referenced with at least 3 VMS vendors including the offered VMS in this project, public documentation related best practices of offered storage with these 3 VMS vendors to be submitted.	1. Offered storage solution must be certified / reference / declaration from the OEM for integration with at least 3 VMS vendors including the offered VMS in this project. Offered storage solution must be certified/referenced/ declaration from the OEM for integration with at least 3 VMS vendors including the offered VMS in this project. Modern storage solution are designed to work with different workloads and also support the integration with VMS applications as VMS application typically either on NFS / CIFS / SMB /iSCSI / FC which are industry standard protocols build for data services. Hence OEM deceleration shall also be accepted. Please allow the same for the wider participation. 2. For all major VMS vendors in the industry underlying storage infrastructure is agnostic, that is they support all kind of storages like - SAN/Unified/NAS/Scale-Out-NAS. Having VMS vendors which are agnostic to underlying hardware, this would be beneficial to Government of India to ensure that department don't get into any vendor lock-in. This is the similar concept followed in these days for cloud models too. Also, storage OEM may have references with NAS/SAN/Unified Storage/Scale-Out-NAS etc. For example a SAN Storage solution in	Kindly Refer Corrigendum	1. Hewlett Packard Enterprise India Private Limited (1) 2. iValue InfoSolutions Pvt. Ltd. 3. Larsen & Toubro Ltd (1) 4. Matrix Security & Surveillance Pvt Ltd(1) 5. SCS TECH INDIA PVT. LTD. (2,3,4)



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			distributed/federated architecture at a central location (single site deployment) can cost 30%-35% less than compared to the cost of Scale-Out-NAS meeting all the technical capabilities as asked in the RFP. The current specifications and ask of this clause is specific to a vendor, offering commercial and technical advantage to that specific OEM making this OEM limiting clause. 3.No single bidder will offer multiple VMS softwares for single solution as asked in this RFP, the credentials of both bidder and/or storage OEM could be required for any similar implementation, it is also requested that reference for similar project should be asked irrespective of the VMS software offered in the solution for the OEM. The clause should be to establish the capability of Storage OEM solution in Surveillance solution rather making a clause which provide advantage to one specific OEM and thus limiting the OEM to participate when Storage OEM are agnostic to VMS software. 4. To ensure wider participation and to remove this OEM limiting clause we request you to modify & read the clause as: Offered storage family must be certified/referenced with at least 3 with any VMS vendors. including the offered VMS in this project, public documentation related best practices of		



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			offered storage with these 3 VMS vendors to be submitted.		
761.	4.8.16 Storage & Backup Slution- a 1/400 (2)	Offered storage must be certified/referenced with at least 3 VMS vendors including the offered VMS in this project, public documentation related best practices of offered storage with these 3 VMS vendors to be submitted.	1. Offered storage solution must be certified/referenced/ declaration from the OEM for integration with at least 3 VMS vendors including the offered VMS in this project. Justification - Modern storage solution are designed to work with different workloads and also support the integration with VMS applications as VMS application typically either on NFS / CIFS / SMB /iSCSI / FC which are industry standard protocols build for data services. Hence OEM deceleration shall also be accepted. Please allow the same for the wider participation. Request to please delete this clause for wider participation as the choice of VMS will be bidder specific. 2.Offered storage solution must be certified / reference / declaration from the OEM for integration with at least 3 VMS vendors including the offered VMS in this project. Offered storage solution must be certified/referenced/ declaration from the OEM for integration with at least 3 VMS vendors including the offered VMS in this project. Modern storage solution are designed to work with different workloads and also support the integration with VMS applications as VMS application typically either on NFS / CIFS / SMB /iSCSI / FC	Kindly Refer Corrigendum	1. Hewlett Packard Enterprise India Private Limited (1) 2. iValue InfoSolutions Pvt. Ltd. 3. Larsen & Toubro Ltd (1) 4. Matrix Security & Surveillance Pvt Ltd (1) 5. SCS TECH INDIA PVT. LTD. (2,3,4)



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			which are industry standard protocols build for data services. Hence OEM deceleration shall also be accepted. Please allow the same for the wider participation. Offered storage solution must be certified/referenced/ declaration from the OEM for integration with at least 3 VMS vendors including the offered VMS in this project. Justification - Modern storage solution are designed to work with different workloads and also support the integration with VMS applications as VMS application typically either on NFS / CIFS / SMB /iSCSI / FC which are industry standard protocols build for data services. Hence OEM deceleration shall also be accepted. Please allow the same for the wider participation. 3.For all major VMS vendors in the industry underlying storage infrastructure is agnostic, that is they support all kind of storages like - SAN/Unified/NAS/Scale-Out-NAS. Having VMS vendors which are agnostic to underlying hardware, this would be beneficial to Government of India to ensure that department don't get into any vendor lock-in. This is the similar concept followed in these days for cloud models too. Also, storage OEM may have references with NAS/SAN/Unified Storage/Scale-Out-NAS etc. For example a SAN Storage		



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			solution in distributed/federated architecture at a central location (single site deployment) can cost 30%-35% less than compared to the cost of Scale-Out-NAS meeting all the technical capabilities as asked in the RFP. The current specifications and ask of this clause is specific to a vendor, offering commercial and technical advantage to that specific OEM making this OEM limiting clause. 4.No single bidder will offer multiple VMS softwares for single solution as asked in this RFP, the credentials of both bidder and/or storage OEM could be required for any similar implementation, it is also requested that reference for similar project should be asked irrespective of the VMS software offered in the solution for the OEM. The clause should be to establish the capability of Storage OEM solution in Surveillance solution rather making a clause which provide advantage to one specific OEM and thus limiting the OEM to participate when Storage OEM are agnostic to VMS software. To ensure wider participation and to remove this OEM limiting clause we request you to modify & read the clause as : Offered storage family must be certified/referenced with at least 3 with any VMS vendors. including the offered VMS in this project, public		



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			documentation related best practices of offered storage with these 3 VMS vendors to be submitted.		
762.	4.8.16 Storage & Backup Slution- a 1/400 (2)	Scale out storage should be configured with minimum 12 controllers of the same type	The performance and capacity requirement can be met with minimum 2 controller offering a Scale-Out NAS in a Single Filesystem or Name Space. Restricting to 12 Nodes offer commercial benefits to a specific OEM and make other Scale-Out-NAS solution expensive. Hence we request you to modify & read the clause as : Scale out storage should be configured with minimum 12 4 controllers of the same type We request to please change to 10 controllers, we our solution can fit in 10 controllers which will be efficient in Power consumption	Kindly Refer Corrigendum	1. SCS TECH INDIA PVT. LTD. 2. iValue InfoSolutions Pvt. Ltd 3. DDN
763.	4.8.16 Storage & Backup Slution- a 1/400 (5)	Storage Should be distributed clustered Architecture clustered Architecture written for Scale-Out NAS Storage operations. Proposed Storage solution should be based on Appliance and not general-purpose servers or software-define storage.	1. Storage Should be distributed clustered Architecture clustered Architecture written for Scale-Out NAS / Scale out Storage solution. Justificaiton -Request you to please allow bidders to offer much more resilient , scalable , flexible solution by not only limiting the same to traditional scale out NAS but should be also allowed on the modern scale out , highly resilient, highly performing , highly scalable scale out storage solution which don't require OEM specific appliances which comes with the specific guidelines and un flexible scalability in terms of capacity , performance and availability in case of	Kindly Refer Corrigendum	1. HPE (2) 2. Matrix Security & Surveillance Pvt Ltd (1) 3. Larsen & Toubro Ltd (1)



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			controller/ node failures. Storage Should be distributed clustered Architecture clustered Architecture written for Scale-Out NAS / Scale out Storage solution. Justificaiton -Request you to please allow bidders to offer much more resilient , scalable , flexible solution by not only limiting the same to traditional scale out NAS but should be also allowed on the modern scale out , highly resilient , highly performing , highly scalable scale out storage solution which don't require OEM specific appliances which comes with the specific guidelines and un flexible scalability in terms of capacity , performance and availability in case of controller/ node failures. 2.Storage Should be distributed clustered Architecture clustered Architecture written for Scale-Out NAS / Scale out Storage solution. Request you to please allow bidders to offer much more resilient, scalable, flexible solution by not only limiting the same to traditional scale out NAS but should be also allowed on the modern scale out , highly resilient , highly performing , highly scalable scale out storage solution which don't require OEM specific appliances which comes with the specific guidelines and un flexible scalability in terms of capacity , performance and availability in case of controller/ node failures.		



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			Kindly revise the clause as " Storage Should be distributed clustered Architecture clustered Architecture written for Scale-Out NAS / Scale out Storage solution "		
764.	4.8.16 Storage & Backup Slution- a 1/401 (6)	Storage Controllers should have processors as per OEM design and application benchmarking	1. Storage Controllers should have processors as per OEM design to meet the asked performance in RPF. Justification - Storage controllers come with processors based on the storage performance numbers and not on the application benchmarking, hence request you to please change the clause. As per Section - 4.8.14, sub-section hh, last paragraph, on page 363, a storage performance of 25GBps is asked (204800 Mbps, which at rate of 4Mbps camera feed can support up to 51200 cameras). When RFP has specifically asking for a performance it should be allowed to the Bidder or OEM to provide right Storage Solution to meet the performance requirement. Department may ask for sizing details to ensure that the proposed solution would meet the requirement as asked in the RFP. Note: As per "Video Management Server for Camera feeds" section on page 233, a support of 2000 Cameras have been asked. Department should clarify if they are considering 8Mbps per camera feed from the cameras or the performance figure is to fit in a specific model of a specific OEM, the aggregated camera feed speed till date in most of the safe city	Kindly Refer Corrigendum	1. HPE (1) 2. SCS TECH INDIA PVT. LTD. (1) 3. Larsen & Toubro Ltd (1) 4. Matrix Security & Surveillance Pvt Ltd (1,2)



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			is not beyond 5Mbps. Hence we request you to modify & read the clause as : Storage Controllers should have processors as per OEM design and application benchmarking/sizing. Storage Controllers should have processors as per OEM design to meet the asked performance in RPF. Justification - Storage controllers come with processors based on the storage performance numbers and not on the application benchmarking , hence request you to please change the clause. Kindly revise the clause as " Storage Controllers should have processors as per OEM design to meet the asked performance in RFP" Storage Controllers should have processors as per OEM design to meet the asked performance in RPF. 2.Storage controllers come with processors based on the storage performance numbers and not on the application benchmarking , hence request you to please change the clause. Storage Controllers should have processors as per OEM design to meet the asked performance in RPF. Justification - Storage controllers come with processors based on the storage performance numbers and not on the application benchmarking , hence request you to please change the clause.		



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
765.	4.8.16 Storage & Backup Slution- a 1/401 (12)	The storage cluster should support linear scalability of performance and capacity i.e. for every drive bay added, performance should increase by the same amount till 2x capacity of the quoted storage.	1. The storage cluster should support linear scalability of performance and capacity i.e. for every drive bay / drives / controllers/ nodes added, performance should increase by the same amount beyond 2x capacity of the quoted storage Justification - Different OEM have different nomenclatures and different architecture , please change the close for the wider participation. This clause is restricting leading OEM participation and suggested change would not impact the desired functionality.. Hence in order to enable leading OEM participation, kindly change the clause as "The storage cluster should support linear scalability of performance and capacity i.e. for every drive bay added, performance should increase by the same amount" This clause is restricting leading OEM participation and suggested change would not impact the desired functionality.. Hence in order to enable leading OEM participation, kindly change the clause as 2.The storage cluster should support linear scalability of performance and capacity i.e. for every drive bay added, performance should increase by the same amount" The storage cluster should support linear scalability of performance and capacity i.e. for every drive bay / drives /	Kindly Refer Corrigendum	1. iValue InfoSolutions Pvt. Ltd. (1) 2. HPE (1) 3. Matrix Security & Surveillance Pvt Ltd (1) 4. Cisco (1) 5. Larsen & Toubro Ltd (1) 6. RAH InfoTech (P) Ltd (3) 7. SCS TECH INDIA PVT. LTD.



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			controllers/ nodes added, performance should increase by the same amount beyond 2x capacity of the quoted storage Justification - Different OEM have different nomenclatures and different architecture , please change the close for the wider participation. 3.The storage cluster should support linear scalability of performance and capacity i.e. for every drive bay controller added, performance should increase by the same amount till at 2x capacity of the quoted storage 4.The storage cluster should support linear scalability of performance and capacity i.e. for every drive bay / drives / controllers/ nodes added, performance should increase by the same amount beyond 2x capacity of the quoted storage The storage cluster should support linear scalability of performance and capacity i.e. for every drive bay / drives / controllers/ nodes added, performance should increase by the same amount beyond 2x capacity of the quoted storage Different OEM have different nomenclatures and different architecture , please change the close for the wider participation. 5.The storage cluster should support linear scalability of performance and capacity i.e. for every drive bay / drives / controllers/ nodes added, performance		



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			should increase by the same amount beyond 2x capacity of the quoted storage Justification - Different OEM have different nomenclatures and different architecture , please change the close for the wider participation. This clause is restricting leading OEM participation and suggested change would not impact the desired functionality.. Hence in order to enable leading OEM participation, kindly change the clause as 6.The storage cluster should support linear scalability of performance and capacity i.e. for every drive bay added, performance should increase by the same amount" The storage cluster should support linear scalability of performance and capacity i.e. for every drive bay controller added, performance should increase by the same amount till at 2x capacity of the quoted storage This clause offer advantage to the Storage OEM offering Scale-Out with RAIN (Redundant Array of Independent Nodes) architecture. The Scale-Out architecture can be based on RAIN or based on a combination of Scale-Out and Scale-Up architecture. In RAIN architecture every node (or a compute node) comes with its own Compute, Memory and fixed Disk Count and thus this clause again favour the OEM offering RAIN architecture. Though RAIN		



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			architecture looks like offering technical advantage, however please consider that every time a Single Disk need to be added Department has to spend on Compute, Memory and a Fixed Disk count 12-to-24 Drives upgrade. Also, as Redundancies are spread over the multiple NODES (for example RAID calculations are done across nodes), department would have to either buy a specific number of Nodes as suggest by OEM best practices or if only ONE node is required than redistribution of data has to happen. Considering this, this clause and clause 10 of these specifications of automatic rebalancing is not an advantage to Department but a limitation of the architecture of RAIN based scale-out systems. We request you to make these specification OEM neutral offering Scale-Out Appliances as asked in the RFP as per Clause Sr.No. 1, Controllers and Architecture, Page No. 400, under section "Scale out NAS Storage with rack for surveillance video data for 30 days – 20 PB", where offers solution should support both scale-out and scale-up based architectures. Hence we request you to modify & read the clause as : The storage cluster solution should support linear scalability of performance and capacity as may be required by the solution i.e. for every drive bay added, performance should increase by the		



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			same amount till 2x capacity of the quoted storage		
766.	4.8.16 Storage & Backup Slution- a 2/401 (8)	2. Onboard Memory - The scale out storage must be configured with minimum 1.5 TB (total) federated/globally coherent or better, DRAM based cache/memory example. Distributed and write should be protected with BB (Beaver Builder) Cache/ D-staging to a flash drive	1. Required Cache memory does not have any benchmark and can not decided the amount of Cache memory. Hence request you to remove the min. capacity of the Cache and allow Bidder/ OEM to provide the cache according to the their architecture and Performance SLA. 2. Kindly change the clause as- The scale out storage must be configured with Battery or Capacitor Based cache/memory example. Distributed and write should be protected with BB (Beaver Builder) Cache/ D-staging to a flash drive to meet the SLA. Required Cache memory does not have any benchmark and can not decided the amount of Cache memory. Hence request you to remove the min. capacity of the Cache and allow Bidder/ OEM to provide the cache according to the their architecture and Performance SLA. 3. Kindly change the clause as- The scale out storage must be configured with Battery or Capacitor Based cache/memory example. Distributed and write should be protected with BB (Beaver Builder) Cache/ D-staging to a flash drive to meet the SLA. The scale out storage must be configured with minimum 1.5 TB (total) federated/globally coherent or better,	kindly refer coregendum	1. CMS IT Services (1,2) 2. Quantum Corp 3. HPE (2) 4. Larsen & Toubro Ltd 5. Matrix Security & Surveillance Pvt Ltd (3)



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			DRAM based cache/memory example. Justification - Request to please change the clause as this is specific to OEM technology. Kindly revise the clause as " The scale out storage must be configured with minimum 1.5 TB (total) federated/globally coherent or better, DRAM based cache/memory example"		
767.	4.8.16 Storage & Backup Slution- a 3/401 (8)	3. Operating System - Scale-Out Storage operating system should have distributed specialized Operating System by OEM(s), dedicated for serving data efficiently and customized for True Scale-Out Storage. Entire data should automatically balance across proposed controllers/nodes within each tier without any administrative intervention, or requirement of third-party software	1. This clause is restricting leading OEM participation and suggested change would not impact the desired functionality. Hence in order to enable leading OEM participation, kindly change the clause as "3. Operating System - Scale-Out Storage operating system should have distributed specialized Operating System/3rd party Storage OEM(s), dedicated for serving data efficiently and customized for True Scale-Out Storage. Entire data should automatically balance across proposed controllers/nodes within each tier without any administrative intervention, or requirement of third-party software" 2. Matrix Security And Surveillance Pvt Ltd: Scale-Out Storage operating system / filesystem should have distributed specialized Operating System / filesystem by OEM(s), dedicated for serving data efficiently and customized for True Scale-Out Storage. Entire data should automatically balance across	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd 3. HPE 4. Larsen & Toubro Ltd 5. Matrix Security And Surveillance Pvt Ltd 6. L&T



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			proposed controllers/nodes within each tier without any administrative intervention, or requirement of third-party software 3. Different OEM has different solutions and architecture and software nomenclature , idea here to have a storage solution which is designed on the scale out approach addressing the performance , scalability and reliability for the proposed solution , hence requesting the said change as in our solution scale out filesystem is the key which comes in play rather than operating system which provides much higher performance , scalability and reliability.		
768.	4.8.16 Storage & Backup Slution- a 4/401 (17)	4. Network Ports - The scale out storage cluster should be offered with minimum 10/25 Gbps, 40G/100G SFP+ ports (Total aggregate front end throughput of 960 Gbps or better), and cluster should be scalable to 4x the number of offered ports. Interconnect switches for internode communication should be proposed in redundancy.	This clause is restricting leading OEM participation and suggested change would not impact the desired functionality. Hence in order to enable leading OEM participation, kindly change the clause as "4. Network Ports - The scale out storage cluster should be offered with minimum 10/25 Gbps, 40G/100G SFP+ ports (Total aggregate front end throughput of 960 Gbps or better), and should be scalable to 2x the number of offered ports. Interconnect switches for internode communication should be proposed in redundancy." Matrix Security And Surveillance Pvt Ltd:	Kindly refer corrigendum	1. Cisco 2. Matrix Security And Surveillance Pvt Ltd 3. Matrix Security And Surveillance Pvt Ltd 4. L&T 5. Tech Mahindra 6. iValue InfoSolutions 7. Johnson Controls 8. SAMSUNG



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			The scale out storage cluster should be offered with minimum 10/25 Gbps or 40G/100G SFP+ ports (Total aggregate front end throughput of 960 Gbps or better), and cluster should be scalable to 4x the number of offered ports. Interconnect switches for internode communication should be proposed in redundancy. Since the overall ask is for 960Gbps, please allow bidders to provide the required ports as per their best practices. L&T: The scale out storage cluster should be offered with minimum 10/25 Gbps or 40G/100G SFP+ ports (Total aggregate front end throughput of 960 Gbps or better), and cluster should be scalable to 4x the number of offered ports. Interconnect switches for internode communication should be proposed in redundancy. Tech Mahindra: Request that the storage OEM be allowed to choose from 10G/25G /40G/100G optical ports, as long as front end throughput of 960 Gbps or better, is being met - Request that the front end port scalability be changed to '2x the number of offered ports' in line with the scalability in capacity and performance asked Request that the clause be changed to the		



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			below: "The scale out storage cluster should be offered with minimum 10G/25G /40G/100G SFP+ ports (Total aggregate front end throughput of 960 Gbps or better), and cluster should be scalable to 2x the number of offered ports. Interconnect switches for internode communication should be proposed in redundancy." iValue InfoSolutions: The scale out storage cluster should be offered with minimum 10/25 Gbps; / 40G/100G SFP+ ports (Total aggregate front end throughput of ~~960~~ 320 Gbps or better), and cluster should be scalable to ~~4x~~ 2x the number of offered ports. Interconnect switches for internode communication should be proposed in redundancy. Johnson Controls : Request that the storage OEM be allowed to choose from 10G/25G /40G/100G optical ports, as long as front end throughput of 960 Gbps or better, is being met - Request that the front end port scalability be changed to '2x the number of offered ports' in line with the scalability in capacity and performance asked Request that the clause be changed to the below: "The scale out storage cluster should be offered with minimum 10G/25G		



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			/40G/100G SFP+ ports (Total aggregate front end throughput of 960 Gbps or better), and cluster should be scalable to 2x the number of offered ports. Interconnect switches for internode communication should be proposed in redundancy." SAMSUNG : Request that the storage OEM be allowed to choose from 10G/25G /40G/100G optical ports, as long as front end throughput of 960 Gbps or better, is being met - Request that the front end port scalability be changed to '2x the number of offered ports' in line with the scalability in capacity and performance asked Request that the clause be changed to the below: "The scale out storage cluster should be offered with minimum 10G/25G /40G/100G SFP+ ports (Total aggregate front end throughput of 960 Gbps or better), and cluster should be scalable to 2x the number of offered ports. Interconnect switches for internode communication should be proposed in redundancy."		
769.	4.8.16 Storage & Backup Slution- a 4/401 (1)	The Scale-Out Storage should have self-optimizing architecture so the system does not require manual defragmentation or consistency check like 'fsck'	1.The Scale-Out Storage should have self-optimizing architecture so the system does not require - manual defragmentation or consistency check like 'fsck' in the event of an	As per RFP	1. iValue InfoSolutions Pvt. Ltd. (1) 2. Larsen & Toubro Ltd (1) 3. Hewlett Packard Enterprise India Private Limited (1)



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		in the event of an ungraceful shutdown of the cluster to ensure higher uptime.	ungraceful shutdown of the cluster to ensure higher uptime. All filesystems require some sort of consistency check/ defragmentation for data integrity and performance optimization. Hence, request to please provide the flexibility for wider participation. Please remove this clause as this specific to a particular technology. 2. In modern data-centre we don't expect the system to completely fail and as they are well protected with power-backup from multiple sources. Also as per Executive Summary on Page 186, clearly indicate Tier-3 Data Centre is to be considered for Delhi Safe City. In a Tier 3 data centre a minimum requirement is to maintain N+1 power source and minimum 72% power backup. Also, the only case we can consider all controllers and complete system to go down is due to disaster of site. Though, complete system failure seldom happens as the complete system is configured in a No-Single-Point of Failure, department should consider uptime SLA, rather considering technologies which may offer OEM advantage due to their architecture. Hence we request you to modify & read the clause as : The Scale-Out Storage should have self-optimizing architecture so the system offer 99.999% uptime does not require		4. Matrix Security & Surveillance Pvt Ltd (1) 5. RAH InfoTech (P) Ltd (1) 6. SCS TECH INDIA PVT. LTD. (2)



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			manual defragmentation or consistency check like 'fsck' in the event of an ungraceful shutdown of the cluster to ensure higher uptime. All video data should be striped across all storage controllers in the proposed storage system, so that performance of all controllers can be utilized for all read / and write operations. Please remove this clause as this specific to a particular technology.		
770.	4.8.16 Storage & Backup Slution- a 6/401 (8)	The Scale-Out Storage should have self-optimizing architecture so the system does not require manual defragmentation or consistency check like 'fsck' in the event of an ungraceful shutdown of the cluster to ensure higher uptime.	1.The Scale-Out Storage should have self-optimizing architecture so the system does not require - manual defragmentation or consistency check like 'fsck' in the event of an ungraceful shutdown of the cluster to ensure higher uptime. All filesystems require some sort of consistency check/ defragmentation for data integrity and performance optimization. Hence, request to please provide the flexibility for wider participation. Please remove this clause as this specific to a particular technology. 2.In modern data-centre we don't expect the system to completely fail and as they are well protected with power-backup from multiple sources. Also as per Executive Summary on Page 186, clearly indicate Tier-3 Data Centre is to be considered for Delhi Safe City. In a Tier 3	As Per RFP	1. iValue InfoSolutions Pvt. Ltd. (1) 2. Larsen & Toubro Ltd (1) 3. Hewlett Packard Enterprise India Private Limited(1) 4. Matrix Security & Surveillance Pvt Ltd (1) 5. RAH InfoTech (P) Ltd (1) 6. SCS TECH INDIA PVT. LTD. (2)



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			data centre a minimum requirement is to maintain N+1 power source and minimum 72% power backup. Also, the only case we can consider all controllers and complete system to go down is due to disaster of site. Though, complete system failure seldom happens as the complete system is configured in a No-Single-Point of Failure, department should consider uptime SLA, rather considering technologies which may offer OEM advantage due to their architecture. Hence we request you to modify & read the clause as : The Scale-Out Storage should have self-optimizing architecture so the system offer 99.999% uptime does not require manual defragmentation or consistency check like 'fsck' in the event of an ungraceful shutdown of the cluster to ensure higher uptime. All video data should be striped across all storage controllers in the proposed storage system, so that performance of all controllers can be utilized for all read / and write operations. Please remove this clause as this specific to a particular technology.		
771.	4.8.16 Storage & Backup Slution- a 5/401 (1)	Storage cluster should have capability to support different kinds of disks tiers likes SSD, SAS, SATA/NL-SAS drives within single filesystem.	As per Section - 4.8.14, sub-section hh, last paragraph, on page 363 and clause 8 of these specifications, 20PB capacity should be considered on any disk type including NL-SAS/SATA/SSD HDD. As the requirement is to meet the capacity with Any Single Disk type, mixing of	As per RFP (In the solution we are not asking for mix of the disks, system should meet project's required throughput)	1. SCS TECH INDIA PVT. LTD.



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			drive type and mixing those under Single File System may not be requirement of the solution. It should also be noted that SATA drives are not considered enterprise drives as they lack feature like dual-ports and works at max 6Gbps speed compared to NL-SAS drives which are offered with Dual-Port capability and 12Gbps SAS interface. This clause allowing an option of NL-SAS/SATA again provide the advantage to specific OEM and a specific Model as apart from that specific model no other model from this OEM or any other OEM uses SATA for enterprise class storage systems. Hence we request you to modify & read the clause as: Storage cluster should have capability to support different kinds of disks tiers likes SSD, SAS, SATA/NL-SAS dual ported drives within single filesystem Storage.		
772.	4.8.16 Storage & Backup Slution- a 7/402 (17)	Scale out storage should be configured with 20 PiB usable capacity in a single filesystem, using equal to or less than 12TB or more NL-SAS/SATA/SSD HDD. Additional 10% usable space should be reserved, or equivalent number of disks should be provided, as hot spares.	1. Scale out storage should be configured with 20 PiB usable capacity in a single filesystem, using equal to or less than 16TB NL-SAS/SATA/SSD HDD. Additional 10% usable space should be reserved, or equivalent number of disks should be provided, as hot spares if required as part of the solution. Higher capacity disk are available, request you to please consider the same as this can reduce the over power and cooling requirements. Hot spare are required for specific solution hence	Kindly Refer Corrigendun	1. HPE (1) 2. Matrix 3.DDN (5)



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			make it optional for the solution which are build on the traditional RAID technology. 2. As per Section - 4.8.14, sub-section hh, last paragraph, on page 363 and clause 8 of these specifications, 20PB capacity should be considered on any disk type including NL-SAS/SATA/SSD HDD. As the requirement is to meet the capacity with Any Single Disk type, mixing of drive type and mixing those under Single File System may not be requirement of the solution. It should also be noted that SATA drives are not considered enterprise drives as they lack feature like dual-ports and works at max 6Gbps speed compared to NL-SAS drives which are offered with Dual-Port capability and 12Gbps SAS interface. This clause allowing an option of NL-SAS/SATA again provide the advantage to specific OEM and a specific Model as apart from that specific model no other model from this OEM or any other OEM uses SATA for enterprise class storage systems. 10% would translate to 200TB of additional capacity compared to 10% disk may result in more than 200 spare drives. As per industry standard one hot spare is considered per 50 drives. The concept of 10% is inline with product selected for this		



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			specifications which does not offer Spare Drives but a spare capacity and additional 10% is required to ensure that there is not performance degradation as per link here https://www.delltechnologies.com/en-us/blog/keep-emc-isilon-cluster-reaching-capacity. Also, OEM are offering disk capacity beyond 12TB and hence we request you delete the limitation. All Major VMS Vendor support FCP, iSCSI, NFS and SMB as they are agnostic to Storage. We request the department to allow bidder to select appropriate protocol as per their solution rather than specifying only SMB2 protocols. Restricting the overall solution to SMB2 is limiting for both OS and Storage OEM. Hence we request you to modify & read the clause as : Scale out storage should be configured with 20 PiB usable capacity in a single filesystem/namespace, using equal to or less than 12TB 16 TB or more dual ported NL-SAS/SATA/SSD HDD. Additional 10% usable space should be reserved, or equivalent number of disks should be provided, as hot spares. Offered scale out storage should be capable of providing a throughput of greater than 25GBps at 100% write on NFS/SMB2 and higher versions with 32KB Block size, for handling the camera feed		



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			and other workloads. OEM Sizer tool output needs to be provided on OEM letterhead for the same showing capacity and performance. The storage should be scalable up to 2x the capacity, and performance, with same drive size, in a single filesystem/name space. 3. Request that the maximum disk size allowed be kept to 12TB to enable better data protection and rebuild features Request this clause be changed to below: "Scale out storage should be configured with 20 PiB usable capacity in a single file system, using equal to or less than 12TB NL-SAS/SATA/SSD HDD. Additional 10% usable space should be reserved, or equivalent number of disks should be provided, as hot spares." 4. Scale out storage should be configured with 20 PiB usable capacity in a single filesystem / Namespace, using equal to or less than 12TB or more NL-SAS/SATA/SSD HDD. Additional 10% usable space should be reserved, or 1 drive per 30 drives equivalent number of disks should be provided, as hot spares. Offered scale out storage should be capable of providing a throughput of greater than 25GBps at 100% write on SMB2 and higher versions, for handling the camera feed and other workloads.		



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			Undertaking / OEM Sizer tool output needs to be provided on OEM letterhead for the same showing capacity and performance. The storage should be scalable upto 2x 1.5x the capacity, and performance, with same drive size, in a single filesystem/name space. 5. We request to please allow us to quote 5% disks as hot spare and 5% a cold spares. 6. Kindly revise the clause "Scale out storage should be configured with 20 PiB usable capacity in a single filesystem, using equal to or less than 16TB NL-SAS/SATA/SSD HDD. Additional 10% usable space should be reserved, or equivalent number of disks should be provided, as hot spares if required as part of the solution.		
773.	4.8.16 Storage & Backup Slution- a 7/402 (11)	7. Total Storage Capacity - Offered scale out storage should be capable of providing a throughput of greater than 25GBps at 100% write on SMB2 and higher versions, for handling the camera feed and other workloads. OEM Sizer tool output needs to be provided on OEM letterhead for the same showing capacity and performance.	1. This clause is restricting leading OEM participation and suggested change would not impact the desired functionality. Hence in order to enable leading OEM participation, kindly change the clause as "7. Total Storage Capacity - Offered scale out storage should be capable of providing a throughput of greater than 25GBps at 100% write on SMB2 and higher versions, for handling the camera feed and other workloads with storage efficiency features (Deduplication, compression) enabled. OEM Sizer tool output needs to be provided on OEM	Kindly refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd (5) 2. Cisco (1) 3. CMS IT Services (2) 4. Quantum Corp (2) 5. HPE (5)



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			letterhead for the same showing capacity and performance." 2. This clause is restricting leading OEM participation and suggested change would not impact the desired functionality. Hence in order to enable leading OEM participation, kindly change the clause as "7. Total Storage Capacity - Offered scale out storage should be capable of providing a throughput of greater than 25GBps at 100% write on SMB2 and higher versions, for handling the camera feed and other workloads with storage efficiency features (Deduplication, compression) enabled. OEM Sizer tool output needs to be provided on OEM letterhead for the same showing capacity and performance." Only way to write the data on SMB2 version is a restriction to the Storage architecture. Request you to pls allow SMB or equivalent. Kindly change the clause as- "Offered scale out storage should be capable of providing a throughput of greater than 25GBps at 100% write on SMB2 or equivalent, for handling the camera feed and other workloads. OEM Sizer tool output needs to be provided on OEM letterhead for the same showing capacity and performance." 3. Offered scale out storage should be capable of providing a throughput of		



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			greater than 25GBps at 100% write on SMB2 and higher versions, for handling the camera feed and other workloads. OEM Sizer tool output / decelerations needs to be provided on OEM letterhead for the same showing capacity and performance. Justification - Request you to please OEM declarations on the performance. Kindly revise clause as : " Offered scale out storage should be capable of providing a throughput of greater than 25GBps at 100% write on SMB2 and higher versions, for handling the camera feed and other workloads. OEM Sizer tool output / decelerations needs to be provided on OEM letterhead for the same		
774.	4.8.16 Storage & Backup Slution- a 8/402 (3)	8. Capacity/ performance Expansion - The system must be able to support policy-based tiering to different storage tiers within Storage subsystem.	This clause is restricting leading OEM participation and removal of the clause would not impact the desired functionality. Hence in order to enable leading OEM participation, kindly remove this clause.	Kindly refer corrgiendum	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
775.	4.8.16 Storage & Backup Slution- a 8/402 (1)	There should not be any downtime or migration activity required in the event it is needed to add additional capacity or additional performance to the storage system. In the event of addition of storage controller/storage node to storage solution, existing data should be rebalanced across all nodes of storage	The Scale-Out storage is required for 30 Days data retention, also post 30 days the data would be over written. This clause offer advantage to the Storage OEM offering Scale-Out with RAIN (Redundant Array of Independent Nodes) architecture. The Scale-Out architecture can be based on RAIN or based on a combination of Scale-Out and Scale-Up architecture. As Redundancies are spread over the multiple NODES in RAIN architecture (for example RAID calculations are done across nodes),	As per RFP	1. SCS TECH INDIA PVT. LTD.



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		controllers/storage nodes automatically. This should be done with low priority avoiding any impact to client performance.	every time a Single Node is added rebalancing of data is a mandatory requirement, which won't be the case with Scale-out and Scale-up architecture. It also worth noting that as data is only retained for 30 days, every time a capacity is added it can automatically get rebalanced for new data, where as old data keep on been purged post retention level. The re-balancing of data is counter productive in Surveillance as data is overwritten and re-balancing which looks a benefits on prima-facia, but please consider the IO overhead it would create to rebalance 20PB of capacity across multiple nodes and does not add any value in surveillance requirement. As per Section - 4.8.14, sub-section hh, last paragraph, on page 363 and clause 8 of these specifications, 20PB capacity should be considered on any disk type including NL-SAS/SATA/SSD HDD. As the capacity is asked for a single disk type, it is requested to remove the tiering requirement. Hence we request you to modify & read the clause as : There should not be any downtime or migration activity required in the event it is needed to add additional capacity or additional performance to the storage system. In the event of addition of storage controller/storage node to storage solution, existing data should be		



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			rebalanced across all nodes of storage controllers/storage nodes automatically. This should be done with low priority avoiding any impact to client performance. Addition of storage controller/ storage nodes should not require any complicated configuration of new controller/node. It should be done easily, seamlessly and without having any impact to user access. The storage file system shall not require metadata performance tuning. The system must be able to support policy-based tiering to different storage tiers within Storage sub- system.		
776.	4.8.16 Storage & Backup Slution- a 10/403 (9)	- Network protocol Support: • Must provide access for a variety of operating systems (UNIX, Linux, Windows) using native OS protocols. All protocols required for solution, must be included without additional licenses and hardware. - Should support user security mechanisms like AD, LDAP and NIS.	1. This clause is restricting leading OEM participation and suggested change would not impact the desired functionality. Hence in order to enable leading OEM participation, kindly change the clause as "10. Protocol support - Should support user security mechanisms like AD &, LDAP." 2. In a Video Surveillance requirement, a VMS software would read/write to the storage and no User should be allowed to access the storage directly. The feature like AD, LDAP and NIS integration are meant for File Sharing environment in scale-out NAS architecture. With the help of these protocols users can access storage directly though authentication of an AD, LDAP and NIS.	Kindly refer corrigendum	1. Cisco (1) 2. Matrix Security & Surveillance Pvt Ltd (1,3) 3. SCS TECH INDIA PVT. LTD. (2) 4. HPE (3) 5. Larsen & Toubro Ltd (3) 6. CISCO



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			Please clarify if Department wish to have a feature where User would directly access the storage to read/write or overwrite the feeds storage by the VMS software and breach the security and integrated of data. 3. Please remove this clause as this specific to a particular technology.		
777.	4.8.16 Storage & Backup Slution- a 11/403 (5)	File Locking for Data protection from corruption while sharing files between UNIX and Windows users. (Should support simultaneous multiple client's access to the storage without any data corruption)	Please remove this clause as this specific to a particular technology.	Kindly Refer Corrigendum	1. HPE 2. Matrix Security & Surveillance Pvt Ltd 3. Larsen & Toubro Ltd
778.	4.8.16 Storage & Backup Slution- a 12/403 (5)	Storage System should have capability to load balance client connectivity across these multiple controllers so that all clients get distributed across all existing controllers/nodes to avoid any performance hotspot.	Please remove this clause as this specific to a particular technology.	As per RFP (Load balacning client connection is a necessity in scale out storage with muultiple controllers. For such large surveillance environment we do not expect admins to manually load balance the workload across controllers. Therefore automated load balancing feature is mandatory.)	1. HPE 2. Matrix Security & Surveillance Pvt Ltd 3. Larsen & Toubro Ltd
779.	4.8.16 Storage & Backup Slution- a 13/403 (9)	13. Heterogenous support for end user systems - Operating system support RedHat Linux/Suse Linux/Windows Servers 2003/2008 or later, Windows 7 or later. Unix	1. Unix OS are not supported on x86 architecture and modification of the clause would not impact the desired functionality. Hence in order to enable leading OEM participation, kindly modify the clause as "13. Heterogenous support for end user	Kindly refer corrigendum	1. Cisco (1) 2. Matrix Security & Surveillance Pvt Ltd (1) 3. Larsen & Toubro Ltd (2) 4. Hewlett Packard Enterprise India Private Limited (2)



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		Based operating systems like SUN Solaris/ HP Unix/ IBM AIX	systems - Operating system support RedHat Linux/Suse Linux/ Windows Servers 2003/2008 or later, Windows 7 or later." 2. The must be certified to support OS like Microsoft Windows Server, HP UX, Red Hat, VMware, Citrix XenServer, IBM AIX, Oracle Solaris, Oracle Linux, SUSE Linux. Windows 7 OS is considered for user desktop environment and has no relevance in video surveillance solution, hence we request you to modify the clause for wider participation & read the clause as : Operating system support RedHat Linux/Suse Linux/ Windows Servers 2003/2008 or later, Windows 7 or later. Unix Based operating systems like SUN Solaris/ HP Unix/ IBM AIX		5. SCS TECH INDIA PVT. LTD. (2)
780.	4.8.16 Storage & Backup Slution- a 14/403 (8)	14. Mangement Interface Software- Support the management, administration and configuration of the whole storage platform through a single management interface along with CLI	Request you to please change the same for wider participation. Support filesystem and sharing the management, administration and configuration of the whole storage platform through a single management interface along with CLI	As per RFP (Support filesystem and sharing the management, administration and configuration of the whole storage platform through a single management interface along with CLI is also acceptable)	1. HPE 2. Matrix Security & Surveillance Pvt Ltd 3. Larsen & Toubro Ltd 4. CMS IT Services 5. Quantum Corp
781.	4.8.16 Storage & Backup Slution- a 15/403 (3)	15. Security - The system must support encrypting data at rest.	This clause may be further modified to strengthen security requirement and suggested change would not impact the desired functionality. Kindly modify the clause as	Kindly Refer Corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd



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			"15. Security - The system must provide encryption in flight & data at rest"		
782.	4.8.16 Storage & Backup Slution- a 15/403 (3)	15. Security - The system must support encrypting data at rest. The system must be able to support WORM functionality.	This clause may be further modified to strengthen security requirement and suggested change would not impact the desired functionality. Kindly modify the clause as "15. Security - The system must provide encryption in flight & data at rest" As a best practise, Encryption and WORM functionality is a function of VMS software in Video Surveillance workflow. Hence Request you to kindly remove these clause from Storage Tech Specification. These fetures are Software Based features and can only be supported by specific OEMs Storage. This will be restricting all the leading Storage OEMs Kindly Remove these clause. Please remove this clause as this specific to a particular technology.	Kindly Refer Corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd 3. Quantum Corp 4. CMS IT Services 5. HPE 6. Hewlett Packard Enterprise India Private Limited
783.	4.8.16 Storage & Backup Slution- a 9/403 (15)	20PiB usable capacity should be configured with protection level which can protect data against simultaneous 3 disks failures, without data unavailability and data loss	20PiB usable capacity should be configured with protection level which can protect data against simultaneous 3 nodes / controllers failures, without data unavailability and data loss 3 disk failure is the limitation of the traditional scale out NAS solution, this can lead to a data loss and should be seriously given a thought since this will be a really large deployment and storage is the heart of the overall surveillance	Kindly Refer Corrigendum	1. Matrix Security & Surveillance Pvt Ltd 2. Larsen & Toubro Ltd 3. Hewlett Packard Enterprise India Private Limited 4. iValue InfoSolutions Pvt. Ltd 5. RAH InfoTech (P) Ltd 6. SCS TECH INDIA PVT. LTD.



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			solution. Scale out solution comprises of the multiple nodes / controllers hence we request you to please consider higher resiliency by asking at least 3 nodes / controllers failures rather than limiting to the disk to protect against the node failures. Kindly revise the clause as "20PiB usable capacity should be configured with protection level which can protect data against simultaneous 3 nodes / controllers failures, without data unavailability and data loss" 20PiB usable capacity should be configured with protection level which can protect data against simultaneous 3 nodes / controllers failures, without data unavailability and data loss Justification - 3 disk failure is the limitation of the traditional scale out NAS solution, this can lead to a data loss and should be seriously given a thought since this will be a really large deployment and storage is the heart of the overall surveillance solution. Scale out solution comprises of the multiple nodes / controllers hence we request you to please consider higher resiliency by asking at least 3 nodes / controllers failures rather than limiting to the disk to protect against the node failures. 2. Matrix Security : This clause is restricting leading OEM participation and suggested change would not impact		7. iValue InfoSolutions Pvt. Lt 8. Matrix Security 9. RAH Infotech 10. SCS TECH INDIA 11. Quantum 12. CISCO



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			the desired functionality.. Hence in order to enable leading OEM participation, kindly change the clause as "9. Protection Levels - 20PB usable capacity should be configured with protection level which can protect data against simultaneous 3 disks failures with rack awareness, without data unavailability and data loss" This clause again indicate that the specification of Storage are specifically written for RAIN architecture. In a RAIN architecture, it is important to understand that rather than Disks, protection level are defined at the Node Levels. That in a RAIN architecture either a count of Disk or a count of Node failure can be tolerated. As per the clause only 3 Disk Failure can be protected across the 20PB of capacity and it is possible that 3 Disk and 2 Node failure can result in complete downtime. This clause not only offer advantage to OEM offering RAIN architecture but also negatively impact the solution capability to provide high level of protection and disadvantage to the department. We request that this clause should be change and protection should be asked for Dual/Trippl disk failure for every 20 drives. Ensuring, the department get the best combination of performance, capacity and availability. Hence we request you to modify & read the clause as :		



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			20PiB usable capacity should be configured with protection level which can protect data against simultaneous 3 disks failures per raid group of 20 drives or less, without data unavailability and data loss. Should have capability to change the protection level on-the-fly without impacting the workflow of VMS Should be able to assign protection level on cluster, directory or file level. Specific type of Protection level represent the specific OEM's particular Storage Model. Request you to kindly allow the Industries standard and available Protection level to all the OEM. As a standard 2 Disk failure is available in RAID-6 group. Hence request you to kindly do the necessary changes to allow at-least the Leading Storage OEM's for the RFP. Request you to kindly do the changes as-"20PiB usable capacity should be configured with protection level which can protect data against simultaneous 2 disks failures, without data unavailability and data loss Should have capability to change the Storage config on-the-fly without impacting the workflow of VMS."		



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784.	4.8.16 Storage & Backup Slution- a 9/403 (5)	Should be able to assign protection level on cluster, directory or file level.	Since single namespace is asked, we request you to please change the clause. Should be able to assign protection level on cluster /directory or file level. Justification - Since single namespace is asked , we request you to please change the clause . Should be able to assign protection level on cluster /directory or file level.	-Kindly refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd 2. HPE 3. Larsen & Toubro Ltd
785.	4.8.16 Storage & Backup Slution- a 15/404 (3)	15. Security - The system must support multiple DNS.	Clarification required-Support for Multiple DNS server Information or Multiple DNS. As multiple DNS server support is can be a utilization but having Multiple DNS is a Problem. Hence Request you to kindly amend the clause as- "The system must support multiple DNS Server"	Kindly refer corrigendum	1. CMS IT Services 2. Quantum Corp
786.	4.8.16 Storage & Backup Slution- a 15/404 (3)	15. Security - The system should have file system integrity and data integrity checks built in to prevent data loss due to bit rate and other soft errors	This clause is restricting leading OEM participation and suggested change would not impact the desired functionality. Hence in order to enable leading OEM participation, kindly change the clause as "15. Security - The system should have file system integrity and data integrity checks built in to prevent data loss due to soft errors"	Kindly refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
787.	4.8.16 Storage & Backup Slution- a 15/404 (3)	New security clause Addition request	This clause may be help in further strengthening the security requirement and suggested addition would not impact the desired functionality. Kindly add the clause "15. Security - The system should provide system auditing for system. It should be capable to analyse the audit	As per RFP (These features are already been factor to RFP)	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco



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			logs to identify files getting created, accessed, modified, deleted"		
788.	4.8.16 Storage & Backup Slution- a 17/404 (12)	17. Investment Protection- Storage System quoted by the OEM to be in the Leaders Quadrant in the latest Gartner Magic Quadrant for Distributed File and Object Storage Arrays Report and Storage System OEM should be in the Top5 Global latest revenue report from IDC	1. Request you to relax this point and not to be so specific on the Gartner Quadrant specifically for "Distributed File and Object Storage Arrays Report", as leaders and challenger OEM can be for Storage when asked for Storage. Request you to relax this point to allow at-least worlds Leading Storage Players and recognize by Gartner or similar reports. 2. Justification - Request you to please change the clause so that other modern solution with scale out approach can also be provided which comes with unique advantages over traditional scale our NAS solutions. 3. As per CVC guidelines, Gartner Magic Quadrant is no longer required from participating OEM for qualification purpose. Also as per clause 1 of this specifications where Appliances have been asked not Software Define Storage with Scale-Out File system. It should be noted that only one Specific OEM who is in leader quadrant would qualify. Hence we request you to please modify this clause and read it as: Hence we request you to modify & read the clause as : Storage System quoted by the OEM to be in the Leaders Quadrant in the latest	Kindly Refer Corrigendum	1. CMS IT Services (1) 2. Quantum Corp (1) 3. HPE (3) 4. iValue InfoSolutions Pvt. Ltd. (3) 5. Matrix Security & Surveillance Pvt Ltd (3) 6. RAH InfoTech (P) Ltd (3) 7. SCS TECH INDIA PVT. LTD. (3) 8. DDN(3) 9. iValue InfoSolutions Pvt. Ltd.



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			Gartner Magic Quadrant for Distributed File and Object Storage Arrays Report and Or Storage System OEM should be in the Top5 Global latest revenue report from IDC We request to kindly relax this clause as we don't have entry in IDC report, we request you to kindly allow with the referecns of similar capacity for similar project with similar solution. Storage System quoted by the OEM to be in the Leaders / Challengers Quadrant in the latest Gartner Magic Quadrant for Distributed File and Object Storage Arrays Report and Storage System OEM should be in the Top5 Global latest revenue report from IDC		
789.	4.8.16 b SAN Storage/404 (4)	b. SAN / Unified Enterprise storage for 180 days – 2 PB (Storage for DB, boot, Flagged Data & Backup for 180 days)	As per the details mentioned in Page no 598, S.No 6.18 "SAN storage for database, boot, Flagged Data and Backup for 90 days - 2 PB" Both the statements are contradictory. Request you to kindly clarify. As per 4.8.16, Subsections "a", Page No. 400, "Scale out NAS Storage with rack for surveillance video data for 30 days – 20 PB", References for VMS on Scale-Out have been asked, only SMB2 protocols support is asked, however, to store Flag Data a Separate SAN/Unified Storage is been asked. Considering that the Data would be moved by VMS software from Scale-Out-NAS to SAN/Unified Storage to store Flag Data, VMS shall be able to read/write to SAN storage over FCP	Kindly Refer Corrigendum	1. Matrix Security & Surveillance Pvt Ltd 2. SCS TECH INDIA PVT. LTD. 3. Matrix Security & Surveillance Pvt Ltd



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			and/or iSCSI protocols and FCP, iSCSI, SMB and NFS for Unified Storage. Please clarify if Flag Data can be stored on SAN or Unified Storage why the same is not been considered for storing Production data? As per "Scale out NAS Storage with rack for surveillance video data for 30 days – 20 PB", References for VMS on Scale-Out have been asked, only SMB2 protocols support is asked, however, to store Flag Data a Separate SAN/Unified Storage is been asked. Considering that the Data would be moved by VMS software from Scale-Out-NAS to SAN/Unified Storage to store Flag Data, VMS shall be able to read/write to SAN storage over FCP and/or iSCSI protocols and FCP, iSCSI, SMB and NFS for Unified Storage. SAN and Unified are two different products - SAN Storage only Support FCP and iSCSI protocols, where as Unified Storage support FCP, iSCSI, NFS and CIFS. As SAN is subset of Unified Storage we request you to consider only Unified Storage to bring all OEM to same product line. Hence we request you to change this clause and read it as: SAN / Unified Enterprise storage for 180 days – 2 PB (Storage for DB, boot, Flagged Data & Backup for 180 days)		
790.	4.8.16 b SAN Storage 2/405 (6)	Hybrid storage system with Storage Operating System optimized for end to end to handle different types of	1.Hybrid storage system with Storage Operating System optimized for end to end to handle different types of drives like SSD, SAS / NL-SAS technology with	Kindly Refer Corrigendum	1. Hewlett Packard Enterprise India Private Limited (1) 2. Larsen & Toubro Ltd (2)



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		drives like SSD, SAS / NL-SAS technology with built in QoS (Quality of Services) for optimal utilization of resources across the array. The storage should also support automated data tiering between these 3 quoted types of drives.	built in QoS (Quality of Services) for optimal utilization of resources across the array. Justification- Request you to please change the clause as data tiering will not be used on this storage. 2.Kindly revise the clause as "Hybrid storage system with Storage Operating System optimized for end to end to handle different types of drives like SSD, SAS / NL-SAS technology with built in QoS (Quality of Services) for optimal utilization of resources across the array. 3.As only two disk type are been asked we request you to modify the clause and ask for tiering across offered disk types. Hence we request you to modify & read the clause as : Hybrid storage system with Storage Operating System optimized for end to end to handle different types of drives like SSD, SAS / NL-SAS technology with built in QoS (Quality of Services) for optimal utilization of resources across the array. The storage should also support automated data tiering between these 3 quoted offered types of drives.		3. SCS TECH INDIA PVT. LTD. (1) 4. Matrix Security & Surveillance Pvt Ltd (1)
791.	4.8.16 b SAN Storage 3/405 (6)	Dual active-active controllers each populated with dual socket of intel 64-Bit X-86 Xeon Processor	1. Specifying one type of processor is OEM specific and restricting wider participation for other OEM's. Hence we request you to modify & read the clause as : Dual active-active controllers each	Kindly Refer Corrigendum	1. SCS TECH INDIA PVT. LTD. (1) 2. Larsen & Toubro Ltd (2) 3. Hewlett Packard Enterprise India Private Limited (2)



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			populated with dual socket of intel 64-Bit Xeon Processor Kindly revise the clause as " Dual active-active controllers each populated with socket of intel Xeon Processor 2. Dual active-active controllers each populated with socket of intel Xeon Processor Justification - Request you to please change the clause as this is limiting the participation and specific to the limited oEM's. Dual active-active controllers each populated with socket of intel Xeon Processor		4. Matrix Security & Surveillance Pvt Ltd (2)
792.	4.8.16 b SAN Storage 5/405 (1)	Deduplication and Compression functionalities should be supplied and supported on SSD capacity with all required licenses. Admin should be able to enable/disable reduction for individual volumes /application	Deduplication and compression is a storage software functionalities which help achieve capacity savings irrespective of drive type. To ensure maximum efficiencies can be achieved with Deduplication and Compression it is requested to modify this clause and ask for this feature across disk types. Hence we request you to modify the clause to make it more open & read the clause as : Deduplication and Compression functionalities should be supplied and supported on SSD capacity offered disk types with all required licenses. Admin should be able to enable/disable reduction for individual volumes/application	As per RFP	1. SCS TECH INDIA PVT. LTD.



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793.	4.8.16 b SAN Storage 6/405 (10)	Support for scalability to additional controller pairs (up to 6 pairs or better) to enhance capacity and performance when needed.	1. As per 4.8.16, Subsection "a", Page No. 401, Clause 6, All video data should be striped across all storage controllers in the proposed storage system, so that performance of all controllers can be utilized for all read and write operations. As Flag Data is also Video Data, we should consider that All Storage Controllers should be utilized for Read and Write operations, so that when data is Flagged by VMS there are no performance bottlenecks on Unified Storage. Hence we request you to modify this clause and read it as: Support for scalability to additional controller pairs (up to 6 12 pairs or better) to enhance capacity and performance when needed. Flag Data should be striped across all storage controllers in the proposed storage system, so that performance of all controllers can be utilized for all read and write operations. 2.Offered storage should support scalable to 4 Controller without using external switch's. Justification - Request you to please change the clause as this is limiting the participation and specific to the limited OEM's Offered storage should support scalable to 4 Controller without using external switch's. Request you to please change the clause	Kindly Refer Corrigendum	1. SCS TECH INDIA PVT. LTD. (1) 2. HPE (2) 3. iValue InfoSolutions Pvt. Ltd. (2) 4. Matrix Security & Surveillance Pvt Ltd(2) 5. RAH InfoTech (P) Ltd (2) 6. Larsen & Toubro Ltd (2)



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			as this is limiting the participation and specific to the limited oEM's. Request to please remove this caluse as the required capacity, perfomance and growth can be achieved within dual controller system. Kindly revise the clause as " Offered storage should support scalable to 4 Controller without using external switch's.		
794.	4.8.16 b SAN Storage 8/405 (6)	Minimum 500 disk drives should be supported within the proposed Controller Pair and Offered storage shall be scalable to 1000 Drives within the same storage	1. Minimum 500 disk drives should be supported within the proposed controller pair and offered storage shall support scalability to 950 Drives or above within the proposed controller pairs. Where all the LUN's can be serviced from all the controllers. Justification - Request you to please change the clause as this is limiting the participation and specific to the limited oEM's. Kindly revise the clause as " Minimum 500 disk drives should be supported within the proposed controller pair and offered storage shall support scalability to 950 Drives or above within the proposed controller pairs. Where all the LUN's can be serviced from all the controllers. 2.Minimum 500 disk drives should be supported within the proposed controller pair and offered storage shall support scalability to 950 Drives or above within the proposed controller pairs. Where all the LUN's can be	Kindly refer corrgiendum	1. HPE (1) 2. Larsen & Toubro Ltd (1) 3. SCS TECH INDIA PVT. LTD. 4. Matrix Security & Surveillance Pvt Ltd(1)



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			served from all the controllers. Justification - Request you to please change the clause as this is limiting the participation and specific to the limited oEM's. As there are no drive restrictions in Scale-Out NAS Storage we request you to delete this clause. However, if department still wish to use the drive count they should allow the system to scale with multiple controllers as it is been implicitly mentioned in the Scale-Out Storage requirement. Hence we request you to modify the clause to allow wider participation. Please read the clause as : Minimum 500 disk drives should be supported within the proposed Controller Pair and Offered storage shall be scalable to 1000 Drives or above in cluster/federation of arrays within the same storage 3.Minimum 500 disk drives should be supported within the proposed controller pair and offered storage shall support scalability to 950 Drives or above within the proposed controller pairs. Where all the LUN's can be serviced from all the controllers. Request you to please change the clause as this is limiting the participation and specific to the limited oEM's.		
795.	4.8.16 b SAN Storage 11/405 (7)	Minimum protected 256GB DRAM cache across dual controller, Scalable to 2TB or	1. Minimum protected 1TB DRAM protected global cache across dual controller, Scalable to 2TB DRAM	Kindly Refer Corrigendum	1. Matrix Security & Surveillance Pvt Ltd (1) 2. HPE (1)



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		more either by adding memory into existing controllers or by Adding controllers in cluster/federation of arrays.	Protected global cache or more either by adding memory into existing controllers or by Adding controllers in where all LUN is serviced from all the controllers. Justification - Asked 256GB cache is too less for the said requirement, hence request you to please change the clause. Also storage federation / cluster technology are used for combining multiple small arrays hence scalability of the cache shall be within the same storage system. We also strongly recommend to ask for the Global cache so that all the Cache is available for all the LUN's and servers rather than silos of cache is being available for different LUN's. 2. Minimum protected 256GB DRAM cache across dual controller, Scalable to 2TB 512GB or more either by adding memory into existing controllers or by Adding controllers in cluster/federation of arrays.		3. Hewlett Packard Enterprise India Private Limited(1) 4. iValue InfoSolutions Pvt. Ltd (2) 5. RAH InfoTech (P) Ltd (2)
796.	4.8.16 b SAN Storage 12/406 (5)	Minimum 16 x 32 Gbps/ 32 x16 Gbps Frontend FC Ports across the proposed controllers and should be scalable up to 24 Nos of FC Ports or higher. Should also be configured with 8 x 10Gbps SFP+ iSCSI Ports. The back-end of the array must be 8 x 12/4 x 25 Gbps Gbps or	1.Minimum 16 x 32 Gbps/ 32 x16 Gbps Frontend FC Ports across the proposed controllers and should be scalable up to 24 Nos of FC Ports or higher. Should also be configured with 8 x 10Gbps SFP+ iSCSI Ports. The back-end of the array must be 4 x 12Gbps SAS ports scalable to 8 x 12Gbps SAS backend ports with the same array. It should also support configuring native 10Gbps ports for storage based replication	Kindly Refer Corrigendum	1. HPE (1) 2. Matrix Security & Surveillance Pvt Ltd (1) 3. SCS TECH INDIA PVT. LTD. (2).



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		higher SAS ports per array. It should also support configuring native 10Gbps ports for storagebased replication.	Justification -Backend ports asked have some typo errors , change clarifies the same. 2. As per heading of these specifications SAN/Unified Storage is been asked, we request you to please ask for Unified Storage which is a super-set of SAN storage. Asking for only SAN protocols raise two concerns: 1. As Flagged Data would be moved by the VMS software, two protocol provisioning need to be done to the VMS server one for SMB2 (which is explicitly asked in Scale-Out-Nas and should be removed) increasing the overall complexity of the solution, and 2. SAN are not equivalent to Unified Storage in cost. Allowing SAN storage would favour the OEM only offering SAN protocols and also take away the flexibility of the department to implement or make change in the solution. Hence we request you to modify & read the clause as : Minimum 16 x 32 Gbps/ 32 x16 Gbps Frontend FC Ports across the proposed controllers and should be scalable up to 24 Nos of FC Ports or higher across controller in scale-out architecture. Should also be configured with 8 x 10Gbps SFP+ iSCSI, NFS and SMB Ports. The back-end of the array must be 8 x 12/4 x 25 Gbps or higher SAS ports per		



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			array. It should also support configuring native 10Gbps ports for storage based replication.		
797.	4.8.16 b SAN Storage 13/406 (5)	13. The storage must be supplied with 2000TB Usable Capacity in below configuration: 14. 400TB Usable Capacity using SSD Drives on RAID5 / RAID6 15. 1600TB Usable Capacity using minimum 7.2k rpm NL-SAS Drives on RAID6 16. 1 Hot spare for every 30 Drives should be configured	1. Today SSD drives are available with 3.8, 7.6, 15.3 and 30TB capacity. With higher capacity drives, like NL-SAS high density drives, it is always recommended that a Minimum Dual Disk protection should be asked. Hence we request you to opt for Dual Disk protection as OEM offering higher SLA does not let RAID 5 or equivalent configuration as a best practise. Also, the clauses in SAN/Unified Storage are totally different from the Scale-Out Storage. While Scale-Out Storage only asks for 3 drive protection across 20PB, a RAID level is been asked in SAN/Unified Storage. Again, the specification are specifically written to provide commercial and technical advantage to Storage Architecture offering based on RAIN in Scale-Out NAS and changed to meet the smaller system, increasing the complexity of the solution of Integrating both SMB2 and FCP/iSCSI at VMS level for flag data. 2.We would also like to bring to department notice that, though SAN/Unified Storage asks for 1 Hot Spare for every 30 drives which is contrary to 10% hot spare capacity been asked, which again indicate skewness of RFP in favour of specific OEM in Scale-Out NAS. Hence we request you to modify to allow	Kindly Refer Corrigendum	1. HPE 2. Matrix Security & Surveillance Pvt Ltd 3. SCS TECH INDIA PVT. LTD. (1)



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			wider participation & read the clause as : The storage must be supplied with 2000TB Usable Capacity in below configuration: 400TB Usable Capacity using SSD Drives on RAID5 / RAID6 or equivalent 1600TB Usable Capacity using minimum 7.2k rpm NL-SAS Drives on RAID6 or equivalent 1 Hot spare for every 30 Drives should be configured.		
798.	4.8.16 b SAN Storage 14/406 (4)	400TB Usable Capacity using SSD Drives on RAID5 / RAID6	1. RAID 6 provides higher availability , hence request you to please ask for RAID6. 2. RAID 6 should be asked. Justification - RAID 6 provides higher availability, hence request you to please ask for RAID6.	Kindly refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd(2) 2. HPE (2)
799.	4.8.16 b SAN Storage 15/406 (4)	1600TB Usable Capacity using minimum 7.2k rpm NL-SAS Drives on RAID6	1. RAID 6 should be asked. Justification - RAID 6 provides higher availability, hence request you to please ask for RAID6. RAID 6 should be asked 2. RAID 6 provides higher availability, hence request you to please ask for RAID6.	Kindly Refer Corrigendum	1. HPE (1) 2. Matrix Security & Surveillance Pvt Ltd(1)
800.	4.8.16 b SAN Storage 16/406 (4)	1 Hot spare for every 30 Drives should be configured.	1 Hot spare or equivalent capacity for every 30 Drives should be configured as per industry practice. Justification - Different OEM have ways to deploy spare, we instead of dedicated spares distribute the sparing space across the drives which provide multiple benefits.	Kindly refer corrigendum	1. HPE 2. Matrix Security & Surveillance Pvt Ltd



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			1 Hot spare or equivalent capacity for every 30 Drives should be configured as per industry practice. Different OEM have ways to deploy spare , we instead of dedicated spares distribute the sparing space across the drives which provide multiple benefits.		
801.	4.8.16 b SAN Storage 17/406 (1)	The array should be configured to deliver minimum of 100,000 IOPS with 32 KB block size & 50:50 read: write ratio. The storage system should be scalable to more than 1,00,000 IOPS by adding more controllers.	The said requirement is to store databases, boot , flagged and backup data. 8KB is recommended block size since most databases vendors recommend running database with 8KB block size. Also performance sizing by considering average block size of 8KB instead of 32KB avoids oversizing the solution without compromising the purpose of running mixed workload on the same system. Also, as SSD tier would be used for Database, VMs etc, and NL-SAS tier would be used to store Flag Data, we recommend to specific that the performance should be considered at SSD layer. Hence we request you to modify & read the clause as : The array should be configured to deliver minimum of 100,000 IOPS with 32 8 KB block size & 50:50 read: write ratio at SST tier. The storage system should be scalable to more than 1,00,000 IOPS by adding more controllers.	Kindly Refer Corrigendum	1. SCS TECH INDIA PVT. LTD.
802.	4.8.16 b SAN Storage 19/406 (5)	The storage should support industry standard RAID levels like RAID 0, 1, 5, 6,	Every OEM may provide different protection like single disk protection as RAID 5/equivalent, Dual disk protection	Kindly refer corrigendum	1. SCS TECH INDIA PVT. LTD. 2. HPE



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		RAID 10 or better; The storage should support combination of multiple RAID Levels in a single array.	as RAID 6/equivalent and RAID1/mirroring. OEM may implement these protection levels with different mechanism and hence to make this more open we request you to change this clause for wider participation, we request you to modify & read as below and keep the specification similar to what is been asked for 20PB capacity where only 3 disk failure protection is been asked. Bidder should be allowed to select the appropriate RAID to protect data: The storage should support industry standard RAID levels like RAID (0, 1, 5, 6, RAID 10) or equivalent or better; The storage should support combination of multiple RAID Levels in a single array. The storage should support industry standard RAID levels like RAID 1/5,/6/AID 10 or better; Justification-Please change the clause for wider participation.		3. Matrix Security & Surveillance Pvt Ltd
803.	4.8.16 b SAN Storage 22/407 (1)	The Array must be supplied with comprehensive GUI based Management software which is HTML5 based along with storage analytics utilities for current and historic data analysis. The Management software should work with Multiple arrays, Multiple sites.	Single GUI based management software to manage both storage of 20 PB scale out NAS storage & 2 PB unified enterprise storage provides better integration and flexibility. Hence we request you to modify & read the clause as : The Array must be supplied with comprehensive GUI based Management software which is HTML5 based along with storage analytics utilities for current and historic data analysis. The	As per RFP (Minimum is asked, MSI can quote above and asked)	1. SCS TECH INDIA PVT. LTD.



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			Management software should work with Multiple arrays, Multiple sites.		
804.	4.8.16 b SAN Storage 26/407 (4)	The must be certified to support current versions of OS like Microsoft Windows Server, Red Hat Linux, VMware, Native files, Block Protocols, etc.	1.The must be certified to support OS like Microsoft Windows Server, HP UX, Red Hat, VMware, Citrix Xenserver, IBM AIX, Oracle Solaris, Oracle Linux, SUSE Linux. Justification - Request to remove native files as this is block storage. The must be certified to support OS like Microsoft Windows Server, HP UX, Red Hat, VMware, Citrix Xenserver, IBM AIX, Oracle Solaris, Oracle Linux, SUSE Linux. Justification - Request to remove native files as this is block storage. As per "Scale out NAS Storage with rack for surveillance video data for 30 days – 20 PB", References for VMS on Scale-Out have been asked, only SMB2 protocols support is asked, however, to store Flag Data a Separate SAN/Unified Storage is been asked. Considering that the Data would be moved by VMS software from Scale-Out-NAS to SAN/Unified Storage to store Flag Data, VMS shall be able to read/write to SAN storage over FCP and/or iSCSI protocols and FCP, iSCSI, SMB and NFS for Unified Storage. SAN and Unified are two different products - SAN Storage only Support FCP and iSCSI protocols, where as Unified Storage support FCP, iSCSI, NFS and CIFS. As SAN is subset of Unified Storage we request you to consider only Unified Storage to bring all OEM to same product line. Hence we request you to modify & read	Kindly refer corrigendum	1. HPE 2. SCS TECH INDIA PVT. LTD. 3. Matrix Security & Surveillance Pvt Ltd



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			the clause as : The must be certified to support current versions of OS like Microsoft Windows Server, Red Hat Linux, VMware, Native files (CIFS, NFS), Block Protocols, etc. The must be certified to support OS like Microsoft Windows Server, HP UX, Red Hat, VMware, Citrix Xenserver, IBM AIX, Oracle Solaris, Oracle Linux, SUSE Linux. Request to remove native files as this is block storage.		
805.	4.8.16 b SAN Storage 27/407 (2)	This dedicated storage section will serve the purpose of DMZ which will ensure better back lane throughput and compatibility of controllers and storage (20 PB) mentioned in the specifications.	As per "Scale out NAS Storage with rack for surveillance video data for 30 days – 20 PB", References for VMS on Scale-Out have been asked, only SMB2 protocols support is asked, however, to store Flag Data a Separate SAN/Unified Storage is been asked. Considering that the Data would be moved by VMS software from Scale-Out-NAS to SAN/Unified Storage to store Flag Data, VMS shall be able to read/write to SAN storage over FCP and/or iSCSI protocols and FCP, iSCSI, SMB and NFS for Unified Storage. As the Flag Data would be moved by VMS software, please clarify what functionality department is look for by specifying "Back lane throughput and compatibility of controller and storage (20PB) mentioned in the specifications" As per "Scale out NAS Storage with rack for surveillance video data for 30 days – 20 PB", References for VMS on Scale-Out have been asked, only SMB2 protocols support is asked, however, to store Flag Data a Separate SAN/Unified Storage is	Kindly Refer Corrigendum	1. SCS TECH INDIA PVT. LTD.



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			been asked. Considering that the Data would be moved by VMS software from Scale-Out-NAS to SAN/Unified Storage to store Flag Data, VMS shall be able to read/write to SAN storage over FCP and/or iSCSI protocols and FCP, iSCSI, SMB and NFS for Unified Storage. Please confirm and modify the clause if Department is looking for a Single Management Console for all the Storage Systems across 2 Data Center. Hence we request you to modify & read the clause as : This dedicated storage section will serve the purpose of DMZ which will ensure better back lane throughput and compatibility of controllers and storage (20 PB) mentioned in the specifications with single management console.		
806.	4.8.16 c SAN Switch- 1/407 (3)	1. Switch Architecture - The proposed SAN Switches should have 2U form factor with minimum 48 Nos. of 32Gbps Ports or higher. Should have redundant power supplies and fans.	The number of ports asked in the switch architecture can be achieved in 1U form factor, hence request you to change the clause as "1. Switch Architecture The proposed SAN Switches should have min 1U form factor with minimum 48 Nos. of 32Gbps Ports or higher. Should have redundant power supplies and fans." The number of ports asked in the switch architecture can be achieved in 1U form factor, hence request you to change the clause as "1. Switch Architecture The proposed SAN Switches should have min 1U form factor with minimum 48 Nos. of	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd



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			32Gbps Ports or higher. Should have redundant power supplies and fans."		
807.	4.8.16 c SAN Switch- 10/408 (3)	10. Security - Should support DH-CHAP (between switches and end devices), FCAP switch authentication; HTTPS, IPSec, IP filtering, LDAP with Ipv6, OpenLDAP, Port Binding, RADIUS, TACACS+, user-defined Role-Based Access Control (RBAC), Secure Copy (SCP), Secure RPC, Secure Syslog, SFTP, SSH v2, SSL, Switch Binding, Trusted Switch. Should also support up to 12 in-flight encryption and compression ports.	Some protocol asked are specific to one OEM and restrict leading OEM participation. Kindly modify the clause as "10. Security - Should support DH-CHAP/FC-SP (between switches and end devices), FCAP switch authentication; HTTPS, IPSec, IP filtering, LDAP/OpenLDAP, RADIUS, TACACS+, user-defined Role- Based Access Control (RBAC), Secure Copy (SCP)/Secure RPC, Secure Syslog, SFTP, SSH v2"	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
808.	4.8.16 c SAN Switch- 5/408 (9)	5. Performance - Should support aggregate bandwidth of 4Tbps or higher	looks like typo needs changes Change Required = Should support aggregate bandwidth of 1.5Tbps or higher. Clarification = Industry standard 48 Ports - 32Gbps Switch has 1.5Tbps of aggregate bandwidth (eg. Cisco 48 port 32Gbps SAN Switch). Hence request you to please change the clause as requested so that industry renowned switch vendors like Cisco can qualify here. The asked throughput can not be achieved by the number of ports asked, hence request you to kindly change the clause as "5. Performance - Should support aggregate bandwidth of 1.5Tbps or higher"	Kindly refer corrigendum	1. Dell Technologies 2. Elkosta Security Systems India 3. Telecommunications Consultants India Limited 4. Matrix Security & Surveillance Pvt Ltd 5. Tech Mahindra 6. NEC Corporation India Pvt. Ltd. 7. Cisco 8. Samsung SDS India Pvt Ltd.



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			Change Required = Should support aggregate bandwidth of 1.5Tbps or higher. Clarification = Industry standard 48 Ports - 32Gbps Switch has 1.5Tbps of aggregate bandwidth (eg. Cisco 48 port 32Gbps SAN Switch). Hence request you to please change the clause as requested so that industry renowned switch vendors like Cisco can qualify here. Change Required = Should support aggregate bandwidth of 1.5Tbps or higher. Clarification = Industry standard 48 Ports - 32Gbps Switch has 1.5Tbps of aggregate bandwidth (eg. Cisco 48 port 32Gbps SAN Switch). Hence request you to please change the clause as requested so that industry renowned switch vendors like Cisco can qualify here.		
809.	4.8.16 c SAN Switch-6/408 (3)	6. Port Types supported - Should support D_PORT (Clear Link Diagnostic Port), E_PORT, EX_PORT, F_PORT, AE_PORT	This clause is favouring to one OEM and restrict leading OEM participation. The change suggested will meet the desired functionality and hence kindly modify the clause as "6. Port Types supported - Should support D_PORT (Clear Link Diagnostic Port), E_PORT, EX_PORT, F_PORT" This clause is favouring to one OEM and restrict leading OEM participation. The change suggested will meet the desired functionality and hence kindly modify the clause as "6. Port Types supported - Should support D_PORT (Clear Link Diagnostic Port), E_PORT, EX_PORT, F_PORT"	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd



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810.	4.8.16 d Backup Appliance & Software- 1/408 (11)	1. Proposed disk-based backup appliance should be able to interface with various industry leading server platforms, operating systems and Must support LAN/SAN based D2D backup and VTL backup simultaneously via NFS v3, CIFS, FC, OST and NDMP protocols.	Proposed disk-based backup appliance should be able to interface with various industry leading server platforms, operating systems and Must support LAN/SAN based D2D backup and VTL backup simultaneously via NFS, CIFS, FC and OST protocol. Justification- Request you to please remove NDMP protocol as we don't need the same for our solution and we provide better integration and solutions. The clause needs modification as it restricts leading OEM participation and modification of the clause will not impact the solution functionality and will help in healthy participation. Kindly modify the clause as "Proposed disk-based backup appliance should be able to interface with various industry leading server platforms, operating systems and Must support LAN/SAN based D2D/VTL backup via NFS v3/ CIFS/ FC/ OST protocols." The clause needs modification as it restricts leading OEM participation and modification of the clause will not impact the solution functionality and will help in healthy participation. Kindly modify the clause as "Proposed disk-based backup appliance should be able to interface with various industry leading server platforms, operating systems and Must support LAN/SAN based D2D/VTL backup via NFS v3/ CIFS/ FC/ OST protocols."	Kindly Refer Corrigendum	1. HPE 2. Cisco 3. Matrix Security & Surveillance Pvt Ltd 4. SCS TECH INDIA PVT. LTD. 5. PruTech Solutions India Pvt. Ltd. 6. Bodhtree



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811.	4.8.16 d Backup Appliance & Software- 2/409 (4)	Proposed appliance should support global and inline data duplication using automated variable block length deduplication technology.	1. Proposed appliance should support efficient inline data duplication using automated variable block length de-duplication technology. Request you to please change the clause as this is limiting the participation and specific to the limited OEM's. 2. Today Backup Software offer at Source and Target based deduplication. These licenses are part of the backup software and Disk Target need not support these features. As this specification is for VTL we request you to please allow Backup Software based deduplication to reduce the overall cost of the solution. Hence, we request you to modify this clause and read it as Proposed appliance/Backup Software should support global and inline data duplication using automated variable block length deduplication technology.	Kindly Refer Corrigendum	1. HPE (1) 2. SCS TECH INDIA PVT. LTD. (2) 3. Matrix Security & Surveillance Pvt Ltd (1)
812.	4.8.16 d Backup Appliance & Software- 3/409 (11)	3. Proposed appliance should be offered with protocols like VTL, OST, CIFS and NFS. All of the protocols should be available to use concurrently with global deduplication for data ingested across all of them.	The feature asked is of purely storage appliance which is passive in nature and used just to store data, hence its features such as VTL, OST, CIFS and NFS are used for storing data onto it. However Arcserve proposed solution is an active backup solution and supports data to be protect "from and to" to these passive appliances, excluding OST and offers global and source side deduplication	Kindly Refer Corrigendum.	1. PruTech Solutions India Pvt. Ltd. 2. HPE 3. Cisco 4. Matrix Security & Surveillance Pvt Ltd 5. SCS TECH INDIA PVT. LTD. 6. Bodhtree



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			which is highest in the industry today. Proposed appliance should support efficient inline data duplication using automated variable block length de-duplication technology. Justification - Request you to please change the clause as this is limiting the participation and specific to the limited OEM's. The clause needs modification as it restricts leading OEM participation and modification of the clause will not impact the solution functionality and will help in healthy participation. Kindly modify the clause as "3. Proposed appliance should be offered with protocols like FC Disk/VTL with OST, CIFS and NFS. Any protocol should be available to use with global deduplication for data ingested across all of them."		
813.	4.8.16 d Backup Appliance & Software-4/409 (10)	4. Proposed appliance should support industry leading backup software like EMC NetWorker, Symantec NetBackup, Commvault and HP Data Protector etc. and should Support deduplication at backup server/ host / application level so that only changed blocks travel through network to backup device.	De-Duplication at Host level can only be supported by the Backup application. Out of the three VTL appliance provider Only one OEM has the Backup & VTL appliance and rest do not qualify the clause for Source/ Host level deuplication. Its dependent on the Backup software. Hence request you to please change it to for Backup Software to support Source/ Host Level de-duplication and other related clause as well in this regard.	Kindly refer corrigendum	1. CMS IT Services 2. Quantum Corp 3. Matrix Security And Surveillance Pvt Ltd 4. PruTech Solutions 5. Hewlett Packard Enterprise India Pvt Ltd 6. Integre



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			PruTech Solutions Change To: Proposed appliance should support industry leading backup software and should Support deduplication at backup server/ host / application level so that only changed blocks travel through network to this backup device. Comments: Our appliances is bundled with the complete compute, operating system license and backup software preloaded. Hewlett Packard Enterprise India Pvt Ltd: Proposed appliance should support industry leading backup software like EMC Networker/Symantec NetBackup, Commvault, and HP Data Protectoretc and should Support deduplication at backup server/host/application level so that only changed blocks travel through network to backup device. Offered device shall have integrated de-duplication license, low bandwidth replication license so that only unique non duplicated block transfers to remote / DR location. Justification - Request you to please change the clause as this is limiting the participation and specific to the limited oEM's.		



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			Integre: Change To: Proposed appliance should support industry leading backup software and should Support deduplication at backup server/ host / application level so that only changed blocks travel through network to this backup device. Comments: Our appliances is bundled with the complete compute, operating system license and backup software preloaded.		
814.	4.8.16 d Backup Appliance & Software-5/409 (1)	5. Proposed appliance should be sized appropriately for backup of front end data 150 TB (50% DB and 50% File System) data as per below backup policies:	Please help with confirmation that the FETB of 150 TB includes the 15% YOY growth for 5 years.	As per RFP	1. Elkost Security Systems India 2. Telecommunications Consultants India Limited 3. Tech Mahindra 4. NEC Corporation India Pvt. Ltd. 5. Samsung SDS India Pvt Ltd. 6. Dell Technologies
815.	4.8.16 d Backup Appliance & Software-6/409 (3)	6. Proposed Appliance should have the capability to tier backup data in deduplicated format to an external cloud storage (on premise / public cloud).	The proposed backup solution supports addiitonal copy of backup to external cloud however provision of computue node (cpu,memory,disk) with similar sizing as on-premise needs to be taken into account with deduplication; which shall be at an additional cost. Today Backup Software offer at Source and Target based deduplication. These licenses are part of the backup software and Disk Target need not support these features.	As per RFP	1. PruTech Solutions India Pvt. Ltd. 2. SCS TECH INDIA PVT. LTD. 3. Matrix Security & Surveillance Pvt Ltd 4. HPE 5. Quantum Corp 6. CMS IT Services 7. Bodhtree 8. Matrix Security And Surveillance Pvt Ltd



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			Hence we request you to modify this clause: Proposed appliance should be offered with protocols like VTL/OST/CIFS/NFS/FCP. All of the protocols should be available to use concurrently with global deduplication for data ingested across all of them. This feature is for the Backup Software to support. Request you to change this point Backup Software to support by the Backup Software or change it to Backup Solution to support, and it is mentioned there as well. Kindly remove it for Backup appliance. Proposed appliance should have the capability to tier backup data in deduplication format to an external cloud storage (on premise/public cloud) without the need of any additional staging device in-between while moving data.		
816.	4.8.16 d Backup Appliance & Software-2/409 (1)	Proposed appliance should support global and inline data duplication using automated variable block length deduplication technology.	Proposed appliance should support efficient inline data duplication using automated variable block length deduplication technology. Justification - Request you to please change the clause as this is limiting the participation and specific to the limited OEM's.	Kindly Refer Corrigendum.	1. HPE
817.	4.8.16 d Backup Appliance & Software-7/409 (3)	7. redundant controller for high availability of appliance in future.	Redundant controllers should be from the day 1 as a min. requirement to provide the protection of VTL and its Data. Request you to opt for the Redundant controllers from beginning as	As per RFP	1. CMS IT Services 2. Quantum Corp



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			a min. requirment.		
818.	4.8.16 d Backup Appliance & Software-7/409 (4)	Proposed appliance should have the ability to perform different backup, restore, replication jobs simultaneously and Must supports communications and data transfers through 8GB SAN, 10 Gb & 1 Gb ethernet LAN over copper and SFP+. The proposed backup appliance should be offered with min. 2 x 1Gbps NIC, 4 x 10Gbps NIC and 4 x 16Gbps FC ports and should support redundant controller for high availability of appliance in future.	1.Proposed appliance should have the ability to perform different backup, restore, replication jobs simultaneously and Must supports communications and data transfers through 8GB SAN, 10 Gb & 1 Gb ethernet LAN over copper and SFP+. The proposed backup appliance should be offered with min. 2 x 1Gbps NIC, 4 x 10Gbps NIC and 4 x 16Gbps FC ports and should provide redundant controller for high availability of appliance in future. Change to: Proposed appliance should have the ability to perform different backup, restore, replication jobs simultaneously and Must supports communications and data transfers through 8GB SAN, 10 Gb & 1 Gb ethernet LAN over copper and SFP+. The proposed backup appliance should be offered with min. 2 x 1Gbps NIC, 4 x 10Gbps NIC and 2 x 16Gbps FC ports and should support redundant controller for high availability of appliance in future. 2.Most of the Hardware Appliance today does not support 1Gb port and hence we request you to please remove the same. Hence we request you to change this clause and read it as: Proposed appliance should have the ability to perform different backup, restore, replication jobs simultaneously and Must supports communications and	Kindly refer corrigendum	1. SCS TECH INDIA PVT. LTD.(2) 2. PruTech Solutions India Pvt. Ltd.(1) 3. HPE 4. Matrix Security & Surveillance Pvt Ltd(1) 5. SCS TECH INDIA PVT. LTD.(2) 6. Bodhtree(1) 7. Matrix Security And Surveillance Pvt Ltd



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			data transfers through 8 16GB SAN, 10 Gb & 1 Gb ethernet LAN over copper and SFP+. The proposed backup appliance should be offered with min. 2 x 1Gbps NIC, 4 x 10Gbps NIC and 4 x 16Gbps FC ports and should support redundant controller for high availability of appliance in future. 3. Proposed Appliance should have the ability to perform different backup,restore,replication jobs simultaneously and Must supports communications and data transfer through 16Gb FC, 10Gb SFP+ & 1 Gb Ethernet LAN over copper /SFP+. The Proposed backup appliance should be offered with min. 4x1Gbps, 2x10Gbps, 2x 25Gbps and 4x32Gbps FC ports. License and SFP for all ports shall be offered and configured. Requesting you to please consider 32GBps FC ports as these are latest and asked switches are also 32GBps. 16Gbps is old technology.		
819.	4.8.16 d Backup Appliance & Software- 10/410 (5)	10. Proposed appliance should support retention lock (WORM) feature which ensures that no data is deleted accidentally and support for point-in-time copies of a LUN or volumes with minimal performance impact.	10. Proposed appliance should support retention lock (WORM) feature using RBAC to ensures that no data is deleted accidentally and should store point-in-time copies of a LUN or volumes with minimal performance impact. Retention Lock / WORM feature is a Backup software supported feature. Using the Backup policy it is supported. Hence request you to pls Remove this	As per RFP	1. CMS IT Services 2. Quantum Corp 3. PruTech Solutions India Pvt. Ltd 4. SCS TECH INDIA PVT. LTD. 5. Bodhtree



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			from Backup appliance front. The D2D solution writes the data to the disk which becomes read-only data; however to make it a permanent delete-protection read-only it need to be written to the WORM device.		
820.	4.8.16 d Backup Appliance & Software- 11/410 (7)	11. Proposed disk appliance should be offered with battery backed up RAM / NVRAM for protection against data loss in power failure scenario and continuous automated file system check to ensure data integrity.	The clause needs modification as it restricts leading OEM participation and modification of the clause will not impact the solution functionality and will help in healthy participation. Kindly modify the clause as "11. Proposed disk appliance should be offered with battery backed up RAM/NVRAM or equivalent for protection against data loss in power failure scenario and continuous automated file system check to ensure data integrity. " Proposed disk appliance should be offered with battery backed up RAM/NVRAM for protection against data loss in power failure scenario. Request you to change the languages as suggested for wider participation, current specs are limited to OEM offerings.	Kindly refer corrigendum.	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd 3. HPE
821.	4.8.16 d Backup Appliance & Software- 12/410 (7)	12. Proposed appliance should Support Enterprise Applications and Database Backups without integration with Backup Software, for better visibility of Backups to Application and database	1. Having this integration doesnot provide the Index and reference for the Backup. As a Industry best practise Backup Software does the integration for these kind of Database to ensure the better visibility and reliability on the	Kindly refer corrigendum	1. CMS IT Services (1) 2. Quantum Corp (1) 3. PruTech Solutions India Pvt. Ltd.(2) 4. SCS TECH INDIA PVT. LTD.(4) 5. HPE(4)



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		Owners, thus ensuring faster and direct recovery on application / database level. This integration should be available for Oracle, SAP, SAP HANA, DB2, MS SQL, Hadoop, MongoDB, Cassandra etc.	Backup. Hence request you to remove this clause from Backup appliance and remain only in Backup Software. Software software already having this caluse under the specs. Kindly Remove this CLause. Having this integration doesnot provide the Index and reference for the Backup. As a Industry best practise Backup Software does the integration for these kind of Database to ensure the better visibility and reliability on the Backup. Hence request you to remove this clause from Backup appliance and remain only in Backup Software. Software software already having this caluse under the specs. 2. Change to: Must have Agent/Modules for online backup of applications and databases such as MS SQL, Oracle, Exchange, Lotus/DB2/SAP. Must support NAS and storage array-based snapshot backup for off host zero downtime and zero load on the primary backup client with wizard-based configuration. Remarks: Except IBM BD2 which can be backed-up using the prescript option, where as all other databased we have the respective agents to backup. Comments: Is Delhi Police is using Hadoop, MongoDB, Cassandra, etc? If no, please remove		6. Matrix Security & Surveillance Pvt Ltd (4) 7. Bodhtree(2)



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			3. Having this integration doesnot provide the Index and reference for the Backup. As a Industry best practise Backup Software does the integration for these kind of Database to ensure the better visibility and reliability on the Backup. Hence request you to remove this clause from Backup appliance and remain only in Backup Software. Software software already having this caluse under the specs. Kindly Remove this CLause. 4. Proposed appliance should support Enterprise Applications and Database Backups without integration with Backup software, for better visibility of Backups to Application and database Owners, thus ensuring faster and direct recovery on application/database level. This integration should be available for Oracle, SAP HANA, MS SQL, VMWare, MS Exchange etc. Request you to change the languages as suggested for wider participation , current specs are limited to OEM offerings.		
822.	4.8.16 d Backup Appliance & Software- 14/410 (3)	14. Proposed appliance should support 256-bit AES encryption for data at rest and data-in-flight during replication. It should offer internal and external key management for encryption.	Internal Encryption is with SED drives. For External encryption- Replicated data sent in encrypted manner for DR site De-dup appliance. Kindly clarify if this is the Requirment, as no other type of encryption supported in De-Dupe appliance. Bidder may use either Third Party Encyption or Backup software	As per RFP: This functionality is offered by multiple OEM's/ISVs of the backup softwares.	1. CMS IT Services 2. Quantum Corp



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			based Encryption if that is the requirement.		
823.	4.8.16 d Backup Appliance & Software- 15/410 (6)	15. Proposed appliance should be offered RAID-6 with SAS/SATA/NL- SAS disk drives along with hot-spare disks in the ratio of 15:1 or better.	The clause needs modification as it restricts leading OEM participation and modification of the clause will not impact the solution functionality and will help in healthy participation. Kindly modify the clause as "15. Proposed appliance should be offered RAID-6 or equivalent with SAS/SATA/NL-SAS disk drives along with spare disks in the ratio of 15:1 or better." Disk Based backup appliance is pre-configured appliance and Appliance has its own architecture for Hot spare disks between 12 or 15:1 disks, Unlike SAN storage. Hence request you to remove this clause, as this represent specific architecture from particular OEMs.	Kindly Refer Corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd 3. CMS IT Services 4. Quantum Corp
824.	4.8.16 d Backup Appliance & Software- 16/410 (7)	16. Proposed appliance should be offered with Multi-Tenancy features which provides a separate logical space for each tenant user while maintaining a global deduplication across data from all tenant users.	Please remove this clause. Justification-Request you to change the languages as suggested for wider participation, current specs are limited to OEM offerings. Please remove this clause. Justification-Request you to change the languages as suggested for wider participation, current specs are limited to OEM offerings. Please remove this clause. Request you to change the languages as suggested for wider participation, current specs are limited to OEM offerings.	Kindly Refer Corrigendum	1. HPE 2. CMS IT Services 3. Quantum Corp 4. Matrix Security & Surveillance Pvt Ltd



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			offerings. Multi Tanancy is a Cloud Storage feature. Backup Storage is being used by the Backup software for backing up the data to a Targeted device. Hence, Request you to remove this clause, It represent a specific OEM's device.		
825.	4.8.16 d Backup Appliance & Software-8/410 (3)	Proposed appliance should support minimum backup throughput of 30 TB/hr while maintaining a single deduplication pool with RAID 6 and min. one hot spare disk as well.	Proposed appliance should support minimum backup throughput of 30Tb/hr. Should be configured with Hardware RAID 6 "Proposed appliance should support minimum backup throughput of 30Tb/hr. Should be configured with Hardware RAID 6 redundancy and one hot spare disk as well. Offered device shall be protected with hardware raid 6 from the factory so that no raid configuration is required in field". One hot spare disk as well. Justification-Request you to change the languages as suggested for wider participation, current specs are limited to OEM offerings. Proposed appliance should support minimum backup throughput of 30Tb/hr. Should be configured with Hardware RAID 6 "Proposed appliance should support minimum backup throughput of 30Tb/hr. Should be configured with Hardware RAID 6 redundancy and one hot spare disk as well. Offered device shall be protected with hardware raid 6 from the factory so that	Kindly Refer Corrigendum	1. HPE 2. Matrix Security & Surveillance Pvt Ltd 3. PruTech Solutions India Pvt. Ltd. 4. Bodhtree



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			no raid configuration is required in field". One hot spare disk as well. .		
826.	4.8.16 d Backup Appliance & Software-9/410 (4)	Proposed appliance should support different retentions for primary and DR backup storage and should support instant copy creation on remote site for better DR readiness with support for transmitting only deduplicated unique data in encrypted format to remote sites.	Proposed appliance should support minimum different retention for primary and DR backup storage and should support instant copy creation on remote site for better DR readiness with support for transmitting only deduplication unique data in encrypted format to remote sites. Offered device shall have integrated de-duplication license, low bandwidth replication license so that only unique non duplicated block transfers to remote / DR location. Justification-Request you to change the languages as suggested for wider participation, current specs are limited to OEM offerings. Proposed appliance should support minimum different retention for primary and DR backup storage and should support instant copy creation on remote site for better DR readiness with support for transmitting only deduplication unique data in encrypted format to remote sites. Offered device shall have integrated de-duplication license, low bandwidth replication license so that only unique non duplicated block transfers to remote / DR location. Request you to change the languages as suggested for wider participation, current specs are limited to OEM offerings.	As per RFP	1. HPE 2. Matrix Security & Surveillance Pvt Ltd



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
827.	4.8.16 d Backup Appliance & Software- 23/411 (17)	The proposed backup software should have the capability to enable WORM on the backup sets from the backup software console on proposed disk backup appliance	The proposed backup software should have the capability to support WORM on the backup sets on proposed disk backup appliance. OEM specific point. WORM support feature is for hardware appliance. Backup software can support the same. Request to kindly amend the clause Single Vendor specific point. WORM support feature is for hardware appliance. Backup software can support the same. Request to kindly amend the clause: "The proposed backup software should have the capability to support WORM on the backup sets on proposed disk backup appliance" Single Vendor specific point. WORM support feature is for hardware appliance. Backup software can support the same. Request to kindly amend the clause : "The proposed backup software should have the capability to support WORM on the backup sets on proposed disk backup appliance " The proposed Backup software should support WORM on the backup sets from the backup software console. Request you to change the languages as suggested for wider participation, current specs are limited to OEM offerings.	As per RFP (WORM feature is required in Backup Appliance.)	1. iValue InfoSolutions Pvt. Ltd. 2. PruTech Solutions India Pvt. Ltd. 3. Micro Focus Software Solution India Private Limited (earlier Called as Hewlett Packard Software - HPE Software) 4. Madras Security Printers Pvt.Ltd 5. Matrix Security & Surveillance Pvt Ltd 6. Bodhtree 7. Matrix Security & Surveillance Pvt Ltd



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828.	4.8.16 d Backup Appliance & Software- 25/411 (7)	25. Bidder should provide 150TB capacity-based licenses. SI need to provide backup solution on the offered IT Infra stack from single OEM for backup software & purpose-built backup appliance.	This clause restrict De-Dupe appliance OEM to participate for this component. Request you to pls remove the clause "Stack from Single OEM for Backup & VTL de-Dupe appliance. Bidder should provide 150TB capacity based licenses. Justification-Request you to change the languages as suggested for wider participation, current specs are limited to OEM offerings.	Kindly refer corrigendum	1. CMS IT Services 2. Quantum Corp 3. Hewlett Packard Enterprise India Private Limited 4. Matrix Security & Surveillance Pvt Ltd
829.	4.8.16 d Backup Appliance & Software- 28/411 (13)	Backup Solution should also have configurable ReST API support for management, administration and reporting on backup infrastructure via custom applications and out of box integration with VMWare vRealize Automation for complete orchestration	Backup Solution should also have configurable ReST API support for management, administration and reporting on backup infrastructure. OEM specific point. Open ReST API support configuration can be used for all custom build applications & platforms. There are other orchestration platforms in the industry other than Vmware vRealize. Request to amend the clause Single Vendor specific point. Open ReST API support configuration can be used for all custom build applications & platforms. There are other orchestration platforms in the industry other than Vmware vRealize. Request to amend the clause as "Backup Solution should also have configurable ReST API support for management, administration and reporting on backup infrastructure" Single Vendor specific point. Open ReST API support configuration can be used for all custom build	Kindly Refer Corrigendum	1. PruTech Solutions India Pvt. Ltd. 2. Madras Security Printers Pvt.Ltd 3. Micro Focus Software Solution India Private Limited (earlier Called as Hewlett Packard Software - HPE Software) 4. iValue InfoSolutions Pvt. Ltd. 5. Bodhtree



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			applications & platforms. There are other orchestration platforms in the industry other than Vmware vRealize.		
830.	4.8.16 d Backup Appliance & Software- 38/412 (15)	Proposed backup software should be in the leader's quadrant of 2017 Gartner report for Enterprise Backup software and recovery solutions.	1. Change to: Proposed backup software should be in the quadrant of 2017 Gartner report for Enterprise Backup software and recovery solutions. Remarks: Not all backup vendors emphasis on gartner quadrant. Removing this would make the specs neutral / generic. 2. Proposed backup software should be in leader's quadrant of latest Gartner or equivalent report for Enterprise Backup software and recovery solutions. Since this is a very prestigious project from the esteemed organisation of yours for us and we are keen to participate without any single technical deviation. There are other reliable reports published by other global 3rd party independent agencies like Ovum, etc published in this category which can be considered. 3. Since this is a very prestigious project from the esteemed organisation of yours for us and we are keen to participate without any single technical deviation. There are other reliable reports published by other global 3rd party independent agencies like Ovum, etc published in this category which can be considered. Hence requesting you to kindly rephrase the clause as	Kindly refer corrigendum	1. PruTech Solutions India Pvt. Ltd. (2) 2. Madras Security Printers Pvt.Ltd(3) 3. Micro Focus Software Solution India Private Limited (earlier Called as Hewlett Packard Software - HPE Software) (3) 4. iValue InfoSolutions Pvt. Ltd. (3) 5. Bodhtree (1,3)



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			"Proposed backup software should be in leader's quadrant of latest Gartner or equivalent report for Enterprise Backup software and recovery solutions. "		
831.	4.8.16 d Backup Appliance & Software- 40/412 (3)	40. Use of Source and Target Based De-duplication for Backups. In order to improve the backup performance and reduce the disk footprint for storing backup data, the disk-appliance solution proposed by the Bidder must support inline global de-duplication and must integrate with the backup software to facilitate client direct backups to the backup disk with source based deduplication to reduce data transfer over IP and FC Networks.	Source and Target based De-duplication and its integration between different OEM is only possible for OST. Request you to kindly allow all other OEM to participate to provide you the Source & Target based de-duplication in their own supported environment. Hence, Request you to pls remove this clause.	Kindly refer corrigendum	1. CMS IT Services 2. Quantum Corp
832.	4.8.17 - L2 Switch (100 Gbps) WAN - A 1/413 (1)	High Density Wire-speed Layer3 Enterprise Class Switch	Both statements are contradictory please revise the requirement to L2 or L3 switch.	As per RFP	1. EFKON India Pvt. Ltd
833.	4.8.17 - L2 Switch (100 Gbps) WAN - B 1/413 (8)	12x40GbE & 12x100GbE & above ports from day-1. Additionally, it should support 2x10GbE SFP+ native ports. All ports should be populated with Multi-mode transceivers.	Suggestive Input/Change Request 12x40G and 12x100GbE & above ports from day-1. Additionally, it should support 2x10GbE SFP+ native ports or using 40G splitter. All ports should be populated with Multi-mode transceivers Justification 10G Ports natively on a 100G switch is very specific to a single OEM. 10G requirement can be met with 4 x 10G	Kindly refer corrigendum.	1. HPE 2. Matrix Security & Surveillance Pvt Ltd 3. iValue InfoSolutions Pvt. Ltd 4. Online Micro Services Private Limited 5. Techspire Services Pvt. Ltd. 6. DAK Infosoft (P) Ltd



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			splitter on 40G ports. Request to modify the specification as requested 12x40G and 12x100GbE & above ports from day-1. Additionally, it should support 2x10GbE SFP+ native ports or using 40G splitter. All ports should be populated with Multi-mode transceivers 10G Ports natively on a 100G switch is very specific to a single OEM. 10G requirement can be met with 4 x 10G splitter on 40G ports. Request to modify the specification as requested Clarification required: All ports to be populated with which module? - 100G module or 40G module? Techspire Services Clarification required: All ports to be populated with which module? - 100G module or 40G module? Alcatel Lucent Enterprise Clarification required: All ports to be populated with which module? - 100G module or 40G module?		7. Alcatel Lucent Enterprise 8. iValue InfoSolutions 9. Techspire Services 10. Alcatel Lucent Enterprise
834.	4.8.17 - L2 Switch (100 Gbps) WAN - B 2/413 (10)	As per solution requirement the switch should support 1G, 10G, 25G, 40G & 100G transceivers from day-1. Bidder need to size the quantities of transceivers accordingly to solution	As per solution requirement the switch should support 40G & 100G transceivers from day-1. Bidder need to size the quantities of transceivers accordingly to solution 1G, 10G, 25G interfaces are not desired on a 100G switch. Request to remove the same from the specifications. It is submitted that support to 1G transceivers does not seem relevant when the architectural flow at DC in	Kindly refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd 2. Alcatel Lucent Enterprise 3. HPE 4. Techspire Services Pvt. Ltd. 5. Online Micro Services Private Limited



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			fundamentally 10G. This feature of 1G suport at 100G switch is restrcting the participation. Henceforth, it is requested that please remove 1G support at DC level. Suggestive Input/Change Request As per solution requirement the switch should support 40G & 100G transceivers from day-1. Bidder need to size the quantities of transceivers accordingly to solution Justification 1G, 10G, 25G interfaces are not desired on a 100G switch. Request to remove the same from the specifications It is submitted that support to 1G transrecievers does not seem relevant when the architectural flow at DC in fundamentally 10G. This feature of 1G suport at 100G switch is restrcting the participation. Henceforth, it is requested that please remove 1G support at DC level. Request to change the clause for us to qualify as "As per solution requirement the switch should support 10G, 25G, 40G & 100G transceivers from day-1. Bidder need to size the quantities of transceivers accordingly to solution" Suggestive Input/Change Request As per solution requirement the switch should support 40G & 100G transceivers from day-1. Bidder need to size the quantities of transceivers accordingly to solution		6. iValue InfoSolutions Pvt. Ltd 7. DAK Infrosoft (P) Ltd 8. Sterlite Technologies Limited 9. Arista



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			Justification 1G, 10G, 25G interfaces are not desired on a 100G switch. Request to remove the same from the specifications Request you to consider to amend:As per solution requirement the switch should support 10G, 25G, 40G & 100G bandwidth from day-1. Bidder need to size the quantities of transceivers accordingly to solution Request to change the clause for us to qualify as "As per solution requirement the switch should support 10G, 25G, 40G & 100G transceivers from day-1. Bidder need to size the quantities of transceivers accordingly to solution" Kindly specify the distance and type (Single-Mode / Multi-Mode) and count of SPF's required. Kindly mention the same in the SOR as well. Arista: As per solution requirement the switch should support 1G, 10G, 40G & 100G transceivers from day-1. Bidder need to size the quantities of transceivers accordingly to solution Please remove "25G" as 25G transceiver can not be supported on SFP+ or QSFP port.		
835.	4.8.17 - L2 Switch (100 Gbps) WAN - B 4/414 (1)	HA cables to be included as part of solution	Clarification required: Please specify DA cable bandwidth. 100g or 40G	As per RFP (Required cables can be provided is as per the solution)	1. Alcatel Enterprise Lucent



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836.	4.8.17 - L2 Switch (100 Gbps) WAN - B 5/414 (1)	Sr.no B5:HA cables to be included as part of solution	Request you to consider to amend: 100G HA cables to be included as part of solution. Otherwise bidder may opt for lower grade 10G cables.	As per RFP (Required cables can be provided is as per the solution)	1. DAK Infosoft (P) Ltd
837.	4.8.17 - L2 Switch (100 Gbps) WAN - D 2/414 (1)	Sr.no D2: 32MB packet buffer memory	Request you to consider to amend: 4GB of Packet buffer backed with VOQ architecture	As Per RFP	1. DAK Infosoft (P) Ltd
838.	4.8.17 - L2 Switch (100 Gbps) WAN - D 3/414 (4)	Modular operating system, OpenFlow 1.3 for software defined networking	Suggestive Input/Change Request Modular operating system, OpenFlow 1.3 or REST APIs for software defined networking Justification OpenFlow is one option for software programmability. Request to accept REST APIs which can be used by upper layer controllers/management systems Request you to consider to amend: Modular operating system, telemetry, API and openstack support for SDN. As OpenFlow didn't see much market adoption and so generally not used in production environment. Requesting to remove it and ask for more relevant SDN technologies of today like telemetry, API and Openstack integration. Suggestive Input/Change Request Modular operating system, OpenFlow 1.3 or REST APIs for software defined networking	Kidly Refer Coorigendum	1. HPE 2. DAK Infosoft (P) Ltd 3. Hewlett Packard Enterprise India Private Limited 4. Matrix Security & Surveillance Pvt Ltd
839.	4.8.17 - L2 Switch (100 Gbps) WAN - D	CLI commit, Uplink Failure Detection, BFD, Zero Touch Provisioning.	Suggestive Input/Change Request CLI commit or equivalent, Uplink Failure Detection, BFD, Zero Touch Deployment	Kindly refer corrigendum	1. HPE 2. Matrix Security & Surveillance Pvt Ltd



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	4/414 (4)		Justification CLI Commit feature is not standard across vendors. Request to accept equivalent feature which will ensure CLI configuration roll back Suggestive Input/Change Request CLI commit or equivalent, Uplink Failure Detection, BFD, Zero Touch Deployment		
840.	4.8.17 - L2 Switch (100 Gbps) WAN - F 1/414 (5)	128 LAG groups with 16 ports per LAG	Suggestive Input/Change Request 48 LAG groups with 16 ports per LAG Justification For a 24-port switch, 128 Link aggregation groups are not desired. Request to modify the specification as requested Arista: 24 LAG groups with 16 ports per LAG DAK Infosoft: Request you to consider to amend : 24 LAG groups with 16 ports per LAG	Kindly refer corrigendum	1. HPE 2. DAK Infosoft (P) Ltd 3. Matrix Security & Surveillance Pvt Ltd 4. Arista
841.	4.8.17 - L2 Switch (100 Gbps) WAN - F 2/414 (12)	128K ARP table, 160K MAC addresses	Request to change the clause as "32K ARP table, 160K MAC addresses" This is restricting the healthy competition. Please consider 32K ARP tables to ensure meeting the project requirements with qualifying terms for all leading OEMs. The ask of 128K ARP table is on very higher side and is restricting leading OEM participation. Further, network performance may degrade during large ARP table lookup. Asking lower ARP table in the switches will not impact the	Kindly refer corrigendum.	1. Online Micro Services Private Limited 2. Cisco 3. HPE 4. Techspire Services Pvt. Ltd. 5. Matrix Security & Surveillance Pvt Ltd 6. iValue InfoSolutions Pvt. Ltd. 7. DAK Infosoft (P) Ltd 8. Alcatel Lucent Enterprise



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			desired functionality. Hence request you to kindly modify the clause as "48K ARP table, 160K MAC address" Suggestive Input/Change Request 48K ARP table, 96K MAC addresses Justification For a 24-port switch, the ARP/MAC table asked for is very high. Request to modify the specification as requested Suggestive Input/Change Request 48K ARP table, 96K MAC addresses Justification For a 24-port switch, the ARP/MAC table asked for is very high. Request to modify the specification as requested Request to change the clause as "32K ARP table, 160K MAC addresses" This is restricting the healthy competition. Please consider 32K ARP tables to ensure meeting the project requirements with qualifying terms for all leading OEMs. Suggestive Input/Change Request 48K ARP table, 96K MAC addresses Justification For a 24-port switch, the ARP/MAC table asked for is very high. Request to modify the specification as requested The ask of 128K ARP table is on very higher side and is restricting leading OEM participation. Further, network performance may degrade during large ARP table lookup. Asking lower ARP table in the switches will not impact the desired functionality. Hence request you to kindly modify the clause as		9. Arista



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			"48K ARP table, 160K MAC address" Request to change the clause as "32K ARP table, 160K MAC addresses" Arista: 128K IPv4 routes table, 160K MAC address Requesting to remove ARP and use IPv4 scale. Scale requirements are generally mentioned in IP route and MAC scale only. Such high scale with ARP is generally not required. DAK Infosoft: Request you to consider to amend: 128K IPv4 routes table, 160K MAC address. Requesting to remove ARP and use IPv4 scale. Scale requirements are generally mentioned in IP route and MAC scale only. Such high scale with ARP is generally not required.		
842.	4.8.17 - L2 Switch (100 Gbps) WAN - F 4/414 (3)	F. Layer 2 features 4. 130K MAC addresses	This clause is in contradiction to the above clause F.2., kindly delete the same.	Kindly Refer Corrigendum	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
843.	4.8.17 - L2 Switch (100 Gbps) WAN - F 4/414 (4)	132K MAC addresses	Suggestive Input/Change Request 96K MAC addresses Justification For a 24-port switch, the MAC table asked for is very high. Request to modify the specification as requested	Kindly Refer Corrigendum	1. HPE 2. Matrix Security & Surveillance Pvt Ltd
844.	4.8.17 - L2 Switch (100 Gbps) WAN - H	RADIUS with EAP, 802.1X with RADIUS,	RADIUS Authentication or EAP/802.1X with RADIUS Justification	Kindly refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd 2. HPE



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	2/414 (5)		IEEE802.1x/EAP Network Security is an access security feature for campus switches connecting to user devices. Server-connecting DC access switch are not configured for that. Request to modify the specification as requested Suggestive Input/Change Request RADIUS Authentication or EAP/802.1X with RADIUS Justification IEEE802.1x/EAP Network Security is an access security feature for campus switches connecting to user devices. Server-connecting DC access switch are not configured for that. Request to modify the specification as requested Request you to amend to: 802.1X with RADIUS. Requesting to remove "RADIUS with EAP" as this is very specific to per particular authentication method.		3. DAK Infosoft (P) Ltd
845.	4.8.17 - L2 Switch (100 Gbps) WAN - H 5/414 (10)	Sr. no H5: WRR, deficit round robin, WRED, SP	Request to change clause as "WRR, deficit round robin, SP" Request to remove as WRED is no longer in use Suggestive Input/Change Request WRR, deficit round robin, WRED, SP or equivalent QoS capabilities Justification QoS/queuing mechanisms vary between OEMs. Request to accept the equivalent QoS/queuing methods Suggestive Input/Change Request WRR, deficit round robin, WRED, SP or equivalent QoS capabilities Arista:	Kindly Refer Corrigendum	- Online Micro Services Private Limited - Techspire Services Pvt. Ltd. - HPE - iValue InfoSolutions Pvt. Ltd - DAK Infosoft (P) Ltd - Matrix Security & Surveillance Pvt Ltd - Alcatel Lucent Enterprise - Arista



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			WRR/deficit round robin, WRED, SP Please make WRR and DRR optional. Different OEMs support different implementations. DAK Infosoft: Kindly amend to WRR/deficit round robin, WRED, SP. Please make WRR and DRR optional. Different OEMs support different implementations.		
846.	4.8.17 - L2 Switch (100 Gbps) WAN - N 2/414 (3)	Switch should support direct attach cables, breakout cables of same OEM	Clarification required: Please specify DA cable bandwidth. 100g or 40G	As per RFP (Cables should be provided as per the solution requirement)	1. iValue InfoSolutions Pvt. Ltd 2. Online Micro Services Private Limited 3. Techspire Services Pvt. Ltd.
847.	4.8.17 - L2 Switch (100 Gbps) WAN - K 1/415 (3)	SNMP, RESTCONF APIs, Zero Touch Deployment (ZTD), Ansible, Puppet, Chef, SaltStack	Suggestive Input/Change Request SNMP, RESTCONF APIs, Zero Touch Deployment (ZTD), Ansible, Puppet, Chef or equivalent Justification Request to accept equivalent open APIs/scripting methods for software programmability.	Kindly Refer corrigendum	1. HPE
848.	4.8.17 - L2 Switch (100 Gbps) WAN - L 4/415 (2)	L. IEEE Standards 4. NTPv4, DHCPv4 server & relay	This clause restricts leading OEM participation, kindly modify clause as "NTPv4, DHCPv4 server/relay"	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
849.	4.8.17 - L2 Switch (100 Gbps) WAN - M 1/415 (3)	M. Power Rating & Certifications 1. Should operate on AC power ~50Hz. Power consumption should not be	Every OEM has different architecture and accordingly identify the max power supply requirement, so asking power consumption not be more than 650 Watts under full load restrict leading OEM participation.	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd



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		more than 650 Watts under full load.	Kindly modify the clause as "Should operate on AC power ~50Hz"		
850.	4.8.17 - L2 Switch (100 Gbps) WAN - M 2/415 (8)	M. Power Rating & Certifications 2. RoHS, Ipv6 ready for host and router, Fresh Air Compliant	1. This is specific to one OEM, kindly modify the clause as " RoHS, Ipv6 ready for host and router" 2. Justification Fresh Air Compliance is an OEM proprietary cooling method. Request to remove the same Kindly amend to: RoHS, Ipv6 ready, NDcPP. Please remove "Fresh Air Compliant" as this is more specific to particular server vendor. Requesting to add the leading common criteria certification for network devices the NDcPP to ensure basic security features. Suggestive Input/Change Request	Kindly refer corrigendum	1. Cisco (1) 2. Matrix Security & Surveillance Pvt Ltd (1) 3. HPE (1) 4. DAK Infosoft (P) Ltd (2)
851.	4.8.17 - L2 Switch (100 Gbps) WAN - N 2/415 (2)	Switch should support direct attach cables, breakout cables of same OEM	Clarification required: Please specify DA cable bandwidth. 100g or 40G	As per RFP (Cables should be provided as per solution requirement)	1. iValue InfoSolutions Pvt. Ltd. 2. Alcatel Lucent Enterprise
852.	4.8.17 - L2 Switch (100 Gbps) WAN - K 1/415 (1)	SNMP, RESTCONF APIs, Zero Touch Deployment (ZTD), Ansible, Puppet, Chef, SaltStack	SNMP, RESTCONF APIs, Zero Touch Deployment (ZTD), Ansible, Puppet, Chef or equivalent Request to accept equivalent open APIs/scripting methods for software programmability. Kindly amend to: SNMP, RESTCONF APIs, Rest API, Zero Touch Deployment (ZTD), Ansible, Puppet, Chef, SaltStack, TCP dump / wireshark. (Please add OpenConfig as option to RESTCONF)	Kindly Refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd 2. DAK Infosoft (P) Ltd



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853.	4.8.17 - L2 Switch (100 Gbps) WAN - L 4/415 (1)	L. IEEE Standards 4. NTPv4, DHCPv4 server & relay	This clause restricts leading OEM participation, kindly modify clause as "NTPv4, DHCPv4 server/relay"	Kindly refer corrigendum	1. Cisco
854.	4.8.17 - L2 Switch (100 Gbps) WAN - N 1/415 (1)	Required number of switches to be proposed in HA, SFPs from the to be from same OEM	It is understood that the quantity of switches mentioned in SOR is considering the HA requirement; please confirm if the understanding is correct?	As per RFP (yes)	1. Sterlite Technologies Limited
855.	4.8.17 - Layer 3 core Switch - 48 ports 100G - A 2/415 (4)	19" rack mountable – 2RU Switch can be chassis or fixed form Factor.	Suggestive Input/Change Request 19" rack mountable – Switch can be chassis or fixed form Factor. Justification 2RU size specification will limit the options to offer chassis configurations. Request to remove the same Suggestive Input/Change Request 19" rack mountable – Switch can be chassis or fixed form Factor. Justification 2RU size specification will limit the options to offer chassis configurations. Request to remove the same	Kindly refer corrigendum	1. HPE 2. Matrix Security & Surveillance Pvt Ltd
856.	4.8.17 - Layer 3 core Switch - 48 ports 100G - B 1/415 (11)	Wire rate 48x100GbE & above OSFP28 ports, all ports should be populated with Multi-mode transceivers.	Request to change clause as "Wire rate 32x100GbE & above OSFP28 ports, all ports should be populated with Multi-mode transceivers." Request to change to 32x100 G in 1 RU for us to qualify. Suggestive Input/Change Request Wire rate 32 x100GbE QSFP28 ports, all ports should be populated with Multi-	Kindly refer corrigendum	1. iValue InfoSolutions Pvt. Ltd 2. HPE 3. Matrix Security & Surveillance Pvt Ltd 4. Alcatel Lucent Enterprise 5. Techspire Services Pvt. Ltd.



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			mode transceivers Justification 32 x100G QSFP28 standard architecture for all leading OEM. 48 x 100GbE QSFP28 sizing is OEM specific for 1RU or 2RU fixed switches. Request you to kindly ammend the clause. Wire rate 32 x100GbE QSFP28 ports, all ports should be populated with Multi-mode transceivers. 32 x100G QSFP28 standard architecture for all leading OEM. 48 x 100GbE QSFP28 sizing is OEM specific for 1RU or 2RU fixed switches. Request you to kindly ammend the clause. OSFP28 should be read as QSFP28 as OSFP is 400G transceiver and requires additional adaptor for backward compatibility with QSFP. Please confirm if the understanding is correct? Kindly specify the distance and type (Single-Mode / Multi-Mode) and count of SPF's required. Kindly mention the same in the SOR as well. Request to change clause as "Wire rate 32x100GbE & above OSFP28 ports, all ports should be populated with Multi-mode transceivers." It is submitted that 48*100G is a ristricuve feature. Please allow 32*100G or more to facilitate participation from		6. Online Micro Services Private Limited 7. Sterlite Technologies Limited 8. Techspire Services



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			leading OEMs and ensure project requirement to be fulfilled.		
857.	4.8.17 - Layer 3 core Switch - 48 ports 100G - B 2/415 (5)	As per solution requirement bidder need to type & no. of transceivers accordingly.	Clarification required: All ports to be populated with 100G module? Clarification required: All ports to be populated with 100G module? Alcatel Lucent Enterprise Clarification required: All ports to be populated with 100G module?	As per RFP	1. iValue InfoSolutions Pvt. Ltd 2. Online Micro Services Private Limited 3. Techspire Services Pvt. Ltd. 4. Alcatel Lucent Enterprise 5. Techspire Services 6. Alcatel Lucent Enterprise
858.	4.8.17 - Layer 3 core Switch - 48 ports 100G - D 2/416 (9)	40MB packet buffer memory.	1. Request to change clause as "16MB packet buffer memory." 40MB PBM is highly restrictive and OEM specific feature. Requesting to please make it 16MB PBM to allow other leading OEMs to qualify. 2. For wirespeed 16MB is more than sufficient. Rest is OEM specific design 3. Suggestive Input/Change Request 32MB packet buffer memory. Justification The sizing is specific to OEM. 32MB packet buffer memory is standard architecture for all leading OEM. Request to kindly ammend so that leading OEM can participate. 4. The sizing is specific to OEM. 32MB packet buffer memory is standard architecture for all leading OEM.	Kindly Refer Corrigendum:	1. Alcatel Lucent Enterprise (1) 2. iValue InfoSolutions Pvt. Ltd. (2) 3. HPE (4) 4. Techspire Services Pvt. Ltd. (1) 5. Online Micro Services Private Limited (1) 6. Hewlett Packard Enterprise India Private Limited (4) 7. Matrix Security & Surveillance Pvt Ltd 8. Techspire Services 9. Alcatel Lucent Enterprise



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			Request to kindly ammend so that leading OEM can participate. 5. 32MB packet buffer memory. The sizing is specific to OEM. 32MB packet buffer memory is standard architecture for all leading OEM. Request to kindly ammend so that leading OEM can participate. Request to change clause as "16MB packet buffer memory." 40MB PBM is highly restrictive and OEM specific feature. Requesting to please make it 16MB PBM to allow other leading OEMs to qualify.		
	4.8.17 - Layer 3 core Switch - 48 ports 100G - D 3/416 (6)	Modular operating system, OpenFlow 1.3	1. Suggestive Input/Change Request Modular operating system, OpenFlow 1.3 or REST APIs Justification OpenFlow is one option for software programmability. Request to accept REST APIs which can be used by upper layer controllers/management systems 2. Modular operating system, OpenFlow 1.3 or REST APIs OpenFlow is one option for software programmability. Request to accept REST APIs which can be used by	Kidly Refer Coorigendum	1. HPE(1) 2. Hewlett Packard Enterprise India Private Limited 3. Matrix Security & Surveillance Pvt Ltd(2) 4. Arista



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			upper layer controllers/management systems Modular operating system, telemetry, API and openstack support for SDN OpenFlow didn't see much market adoption and so generally not used in production environment. Requesting to remove it and ask for more relevant SDN technologies of today like telemetry, API and Openstack integration.		
859.	4.8.17 - Layer 3 core Switch - 48 ports 100G - B 4/416 (9)	HA cables to be included as part of solution	Clarification required: Please specify DA cable bandwidth. 100g or 40G] Alcatel Lucent Enterprise Clarification required: Please specify DA cable bandwidth. 100g or 40G	As per RFP (Cables should be provided as per the solution requirement)	1. iValue InfoSolutions Pvt. Ltd. 2. Alcatel Lucent Enterprise 3. Techspire Services Pvt. Ltd. 4. Online Micro Services Private Limited 5. Techspire Services Pvt. Ltd. 6. Alcatel Lucent Enterprise
860.	4.8.17 - Layer 3 core Switch - 48 ports 100G - C 2/416 (6)	2. Latency 300ns	1. 300ns is not possible in ethernet switches. It may be a typo error. Kindly allow minimum 800ns for major leading OEM's to comply.	Kindly Refer Corrigendum	1. Telecommunications Consultants India Limited (1,2) 2. Tech Mahindra (1,2)



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			2. Kindly modify clause as" 2. Latency 800ns" 3. Request to change the clause as "Latency <600 ns". As per industry standards <600ns latency is recommended for Metopolitan Wide Networks which enables leading OEMs to participate. It is requested to please increase the latency to 600ns which practical limitation in such kind of complex deployments. 4. Suggestive Input/Change Request Latency & lt;5 μs Justification Enterprise applications require network latency in milli seconds and for a switch, micro-seconds latency is sufficient. Please modify the specification accordingly 5. Matrix: This clause is restricting participation, and deleting this clause will not impact the desired functionality of the solution. Hence in order to enable leading OEM participation, request you to kindly delete this clause. 6. Tech Mahindra: 300ns is not possible in ethernet switches.it may be a typo error. Kindly allow minimum 800ns for major leading OEM's to comply.		3. NEC Corporation India Pvt. Ltd. (1,2) 4. Samsung SDS India Pvt Ltd. (1,2) 5. Alcatel Lucent Enterprise (3) 6. Techspire Services Pvt. Ltd. (3) 7. Online Micro Services Private Limited (3) 8. HPE (4) 9. Cisco 10. Elkosta Security Systems India (1,2) 11. iValue InfoSolutions Pvt. Ltd (3) 12. Hewlett Packard Enterprise India Private Limited (4) 13. Dell Technologies (1,2) 14. Matrix Security & Surveillance Pvt Ltd (4) 15. Matrix Security 16. Tech Mahindra 17. iValue InfoSolutions 18. Johnson Controls 19. SAMSUNG 20. TCIL 21. Techspire Services 22. Alcatel Lucent Enterprise 23. Elkosta Security Systems India 24. Arista



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			Kindly modify clause as" 2. Latency 800ns" 7. iValue InfoSolutions Request to change the clause as "Latency <600 ns" Request you to change for us to qualify. <600 ns works perfect in driverless metro environment without any problems. 8. Johnson Controls : 300ns is not possible in Ethernet switches.it may be a typo error. Kindly allow minimum 800ns for major leading OEM's to comply. Kindly modify clause as" 2. Latency 800ns" 9. SAMSUNG and TCIL: 300ns is not possible in ethernet switches.it may be a typo error. Kindly allow minimum 800ns for major leading OEM's to comply. Kindly modify clause as" 2. Latency 800ns" Techspire Services 10. Request to change the clause as "Latency <600 ns" As per industry standards <600ns latency is recommended for Metopolitan Wide Networks which enables leading OEMs to participate. It is requested to		



S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			please increase the latency to 600ns which practical limitation in such kind of complex deployments. 11. Alcatel Lucent Enterprise Request to change the clause as "Latency <600 ns" . As per industry standards <600ns latency is recommended for Metopolitan Wide Networks which enables leading OEMs to participate. It is requested to please increase the latency to 600ns which practical limitation in such kind of complex deployments. 12. Elkosta Security Systems India: 300ns is not possible in ethernet switches.it may be a typo error. Kindly allow minimum 800ns for major leading OEM's to comply. Kindly modify clause as" 2. Latency 800ns" 13. Hewlett Packard Enterprise India Pvt Ltd: Suggestive Input/Change Request Latency <5 μs Justification Enterprise applications require		



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			network latency in milli seconds and for a switch, micro-seconds latency is sufficient. Please modify the specification accordingly 14. Arista: Latency 450 ns Requesting to change to 450ns.		
	4.8.17 - Layer 3 core Switch - 48 ports 100G - D 4/416 (5)	CLI commit, Uplink Failure Detection, BFD, Zero Touch Deployment.	1. Suggestive Input /Change Request CLI commit or equivalent, Uplink Failure Detection, BFD, Zero Touch Deployment Justification CLI Commit feature is not standard across vendors. Request to accept equivalent feature which will ensure CLI configuration roll back 2. CLI commit or equivalent, Uplink Failure Detection, BFD, Zero Touch Deployment 3. CLI Commit feature is not standard across vendors. Request to accept equivalent feature which will ensure CLI configuration roll back 4. CLI commit or equivalent, Uplink Failure Detection, BFD, Zero Touch Deployment CLI Commit feature is not standard across vendors. Request to accept equivalent feature which will ensure CLI configuration roll back	Kindly Refer Corrigendum	1. HPE (1) 2. Hewlett Packard Enterprise India Private Limited 3. Matrix Security & Surveillance Pvt Ltd(2,3)



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	4.8.17 - Layer 3 core Switch - 48 ports 100G - F 2/416 (11)	128K ARP table, 160K MAC addresses	1. 48K ARP table, 32K MAC addresses The ARP/MAC table asked for is very high. Request to modify the specification as requested so that leading OEM can participate 2. Request to change the clause as "32K ARP table, 160K MAC addresses" This is restricting the healthy competition. Please consider 32K ARP tables to ensure meeting the project requirements with qualifying terms for all leading OEMs. 3. Suggestive Input/Change Request: 48K ARP table, 96K MAC addresses Justification : For a 24-port switch, the ARP/MAC table asked for is very high. Request to modify the specification as requested 4. The ask of 128K ARP table is on very higher side and is restricting leading OEM participation. Further, network performance may degrade during large ARP table lookup. Asking lower ARP table in the switches will not impact the desired functionality. Hence request you to kindly modify the clause as "48K ARP table, 160K MAC address	Kindly refer corrigendum.	1. Matrix Security & Surveillance Pvt Ltd (1,4) 2. Techspire Services Pvt. Ltd. 3. Alcatel Lucent Enterprise 4. Online Micro Services Private Limited 5. iValue InfoSolutions Pvt. Ltd 6. HPE (3) 7. Hewlett Packard Enterprise India Private Limited (3) 8. Cisco (4) 9. Matrix Security And Surveillance Pvt Ltd 10. Arista



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			48K ARP table, 32K MAC addresses The ARP/MAC table asked for is very high. Request to modify the specification as requested so that leading OEM can participate 5. Arista: 128K IPv4 routes table, 160K MAC address Requesting to remove ARP and use IPv4 scale. Scale requirements are generally mentioned in IP route and MAC scale only. Such high scale with ARP is generally not required.		
	4.8.17 - Layer 3 core Switch - 48 ports 100G - F 4/416 (4)	130K or better MAC addresses	1. 32K MAC addresses The MAC table asked for is very high as per the requirement and solution. Request to modify the specification as requested so that leading OEM can participate 2. Suggestive Input/ Change Request: 32K MAC addresses Justification: The MAC table asked for is very high as per the requirement and solution. Request to modify the specification as requested so that leading OEM can participate 3. This clause is in contradiction to the above clause F.2., kindly delete the same.	Kindly Refer Corrigendum	1. HPE (2) 2. Cisco (3) 3. Matrix Security & Surveillance Pvt Ltd (1,3) 4. Hewlett Packard Enterprise India Private Limited (2) 5. Matrix Security And Surveillance Pvt Ltd



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			32K MAC addresses The MAC table asked for is very high as per the requirement and solution. Request to modify the specification as requested so that leading OEM can participate		
	4.8.17 - Layer 3 core Switch - 48 ports 100G - H 5/416 (4)	802.1X Network Security and Authentication	1. 802.1X or RADIUS Network Security and Authentication IEEE802.1x Network Security is an access security feature for campus switches connecting to user devices. Server-connecting DC access switchs are not configured for that. Request to modify the specification as requested 2. Suggestive Input/ Change Request: 802.1X or RADIUS Network Security and Authentication Justification:IEEE802.1x Network Security is an access security feature for campus switches connecting to user devices. Server-connecting DC access switchs are not configured for that. Request to modify the specification as requested 3. 802.1X or RADIUS Network Security and Authentication IEEE802.1x Network Security is an access security feature for campus switches connecting to user devices. Server-connecting	Kindly refer corrigendum	1. HPE(2) 2. Hewlett Packard Enterprise India Private Limited 3. Matrix Security & Surveillance Pvt Ltd(1)



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			DC access switches are not configured for that. Request to modify the specification as requested Hewlett Packard Enterprise India Pvt Ltd: Suggestive Input/Change Request 802.1X or RADIUS Network Security and Authentication Justification IEEE802.1x Network Security is an access security feature for campus switches connecting to user devices. Server-connecting DC access switchs are not configured for that. Request to modify the specification as requested Hewlett Packard Enterprise India Pvt Ltd: Suggestive Input/Change Request 802.1X or RADIUS Network Security and Authentication Justification IEEE802.1x Network Security is an access security feature for campus switches connecting to user devices. Server-connecting DC access switchs are not configured for that. Request to modify the specification as requested		



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			Hewlett Packard Enterprise India Pvt Ltd: Suggestive Input/Change Request 802.1X or RADIUS Network Security and Authentication Justification IEEE802.1x Network Security is an access security feature for campus switches connecting to user devices. Server-connecting DC access switches are not configured for that. Request to modify the specification as requested		
	4.8.17 - Layer 3 core Switch - 48 ports 100G - J 1/417 (9)	J. Multicast 1. H/W based Ipv4 or Ipv6 Multicasting (minimum 10000 group supported)	1. This clause is restricting participation, kindly relax the clause as "1. H/W based Ipv4 or Ipv6 Multicasting (minimum 8000 group supported)" 2. 10,000 groups can not be possible in Layer 3 switch. Its generally provided in Service class routers. Kindly modify the multicast requirement to 1000 groups or 10,000 host. 4. Kindly modify clause as "J. Multicast 5. Matrix Security: H/W based IPv4 and IPv6 Multicasting. [The overall network solution should support multicast streams from 10,000 cameras] The mentioned specification is a	Kindly Refer Corrigendum	1. Matrix Security & Surveillance Pvt Ltd (1,2) 2. Cisco (1) 3. Dell Technologies (2) 4. Elkosta Security Systems India (2) 5. Telecommunications Consultants India Limited (2) 6. Tech Mahindra (2) 7. NEC Corporation India Pvt. Ltd. (2) 8. Samsung SDS India Pvt Ltd. (2) 9. Matrix Security 10. Johnson Controls 11. TCIL 12. DELL



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			mistake as 10000K multicast groups is practically not possible. Multicast is not done at one layer of the network but across the network. Hence request to mention multicast support across the network solution rather than a specific model of switches 6. Johnson Controls : 10,000 groups can not be possible in Layer 3 switch. Its generally provided in Service class routers. Kindly modify the multicast requirement to 1000 groups or 10,000 host. Kindly modify clause as" J. Multicast 1. H/W based Ipv4 or Ipv6 Multicasting (minimum 1000 group or 10000 multicast host supported)" 7. TCIL: 10,000 groups can not be possible in Layer 3 switch. Its genrally provided in Service class routers. Kindly modify the mulicast requirement to 1000 groups or 10,000 host. Kindly modify clause as" J. Multicast 1. H/W based Ipv4 or Ipv6 Multicasting (minimum 10,000		13. Elkosta Security Systems India: 14. Hewlett Packard Enterprise India Pvt Ltd



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			group/ multicast host supported)" 8. DELL: 10,000 groups can not be possible in Layer 3 switch. Its genrally provided in Service class routers. Kindly modify the mulicast requirement to 1000 groups or 10,000 host. Kindly modify clause as" J. Multicast 1. H/W based Ipv4 or Ipv6 Multicasting (minimum 10,000 group/ multicast host supported)" Elkosta Security Systems India: 10,000 groups can not be possible in Layer 3 switch. Its genrally provided in Service class routers. Kindly modify the mulicast requirement to 1000 groups or 10,000 host. Kindly modify clause as" J. Multicast 1. H/W based Ipv4 or Ipv6 Multicasting (minimum 10,000 group/ multicast host supported)" Hewlett Packard Enterprise India Pvt Ltd: Suggestive Input/Change Request H/W based IPv4 and IPv6 Multicasting. [The overall network		



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			solution should support multicast streams from 10,000 cameras] Justification The mentioned specification is a mistake as 10000K multicast groups is practically not possible. Multicast is not done at one layer of the network but across the network. Hence request to mention multicast support across the network solution rather than a specific model of switches Hewlett Packard Enterprise India Pvt Ltd: Suggestive Input/Change Request H/W based IPv4 and IPv6 Multicasting. [The overall network solution should support multicast streams from 10,000 cameras] Justification The mentioned specification is a mistake as 10000K multicast groups is practically not possible. Multicast is not done at one layer of the network but across the network. Hence request to mention multicast support across the network solution rather than a specific model of switches Hewlett Packard Enterprise India Pvt Ltd:		



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			Suggestive Input/Change Request H/W based IPv4 and IPv6 Multicasting. [The overall network solution should support multicast streams from 10,000 cameras] Justification The mentioned specification is a mistake as 10000K multicast groups is practically not possible. Multicast is not done at one layer of the network but across the network. Hence request to mention multicast support across the network solution rather than a specific model of switches		
	4.8.17 - Layer 3 core Switch - 48 ports 100G - J 3/417 (6)	Protocol Independent Multicast – Sparse Mode and PIM – SSM	1. Suggestive Input/Change Request Protocol Independent Multicast – Sparse Mode or PIM – SSM Justification PIM-SM is the widely used and adopted Multicast routing protocol. Request to make PIM-SSM as optional 2. Protocol Independent Multicast – Sparse Mode or PIM – SSM PIM-SM is the widely used and adopted Multicast routing protocol. Request to make PIM-SSM as optional	As per RFP	1. Matrix Security & Surveillance Pvt Ltd(1) 2. HPE(1) 3. Hewlett Packard Enterprise India Private Limited
	4.8.17 - Layer 3 core Switch - 48	Ansible, Puppet, Chef, Salt Stack, RESTCONF APIs	1. Suggestive Input/Change Request Ansible, Puppet, Chef, SaltStack,	Kindly refer corrigendum	1. HPE (1)



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	ports 100G - K 1/417 (1)		RESTCONF APIs or equivalent Justification Request to accept equivalent open APIs/scripting methods for software programmability. Ansible, Puppet, Chef, SaltStack, RESTCONF APIs or equivalent 4. Request to accept equivalent open APIs/scripting methods for software programmability. 5. Ansible, Puppet, Chef, SaltStack, RESTCONF APIs or equivalent Request to accept equivalent open APIs/scripting methods for software programmability. Arista: SNMP, RESTCONF APIs, Rest API, Zero Touch Deployment (ZTD), Ansible, Puppet, Chef, SaltStack, TCP dump / wireshark Please add OpenConfig as option to RESTCONF		2. Hewlett Packard Enterprise India Private Limited 3. Matrix Security & Surveillance Pvt Ltd 4. Arista
	4.8.17 - Layer 3 core Switch - 48 ports 100G - L 4/417 (4)	802.1Qbb, 802.1Qaz	1. Suggestive Input/Change Request: 802.1Qbb, 802.1Qaz or Egress port shaping Justification: QoS/queuing mechanisms vary between OEMs. Also L3 Core Switches need not support Server access QoS features. Request to modify the specification as requested	As per RFP	1. HPE (1) 2. Hewlett Packard Enterprise India Private Limited 3. Matrix Security & Surveillance Pvt Ltd



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			2. 802.1Qbb, 802.1Qaz or Egress port shaping QoS / queuing mechanisms vary between OEMs. Also L3 Core Switches need not support Server access QoS features. Request to modify the specification as requested 3. 802.1Qbb, 802.1Qaz or Egress port shaping QoS/queuing mechanisms vary between OEMs. Also L3 Core Switches need not support Server access QoS features. Request to modify the specification as requested Hewlett Packard Enterprise India Pvt Ltd: Suggestive Input/Change Request 802.1Qbb, 802.1Qaz or Egress port shaping Justification QoS/queuing mechanisms vary between OEMs. Also L3 Core Switches need not support Server access QoS features. Request to modify the specification as requested		
	4.8.17 - Layer 3 core Switch - 48 ports 100G - M 1/417	M. Power Rating & Certifications 1. Should operate on AC power ~50Hz. Power	1. Suggestive Input/ Change Request: Should operate on AC power ~50Hz. Power consumption should not be more than 3000Watts under full	Kindly Refer Corrigendum	1. HPE(1) 2. Hewlett Packard Enterprise India Private Limited



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	(7)	consumption should not be more than 1200Watts under full load.	load. Justification: The product technology and architecture differs from OEM to OEM. Hence power consumption will varies. Kindly ammend as requested. 2. Every OEM has different architecture and accordingly identify the max power supply requirement, so asking power consumption not be more than 1200 Watts under full load restrict leading OEM participation. Kindly modify the clause as "Should operate on AC power ~50Hz" 3. Should operate on AC power ~50Hz. Power consumption should not be more than 3000Watts under full load. 6. The product technology and architecture differs from OEM to OEM. Hence power consumption will varies. Kindly ammend as requested. 7. Should operate on AC power ~50Hz. Power consumption should not be more than 3000Watts under full load. The product technology and architecture differs from OEM to OEM. Hence power consumption will varies. Kindly ammend as requested.		3. Cisco(1,2) 4. Matrix Security & Surveillance Pvt Ltd(1,2)



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			Hewlett Packard Enterprise India Pvt Ltd: Suggestive Input/Change Request Should operate on AC power ~50Hz. Power consumption should not be more than 3000Watts under full load. Justification The product technology and architecture differs from OEM to OEM. Hence power consumption will varies. Kindly ammend as requested.		
	4.8.17 - Layer 3 core Switch - 48 ports 100G - M 2/417 (6)	RoHS, Ipv6 ready, FCC CFR 47 Part 15, EN 61000-4-5: Surge	1. Suggestive Input/ Change Request: RoHS, Ipv6 ready, FCC CFR 47 Part 15 Justification: EN 61000-4-5: Surge is the standard for surge protection for copper ellectrical ports where as the all required ports are fiber. Hence this standard is not required. 2. RoHS, Ipv6 ready, FCC CFR 47 Part 15 EN 61000-4-5: Surge is the standard for surge protection for copper ellectrical ports where as the all required ports are fiber. Hence this standard is not required. RoHS, Ipv6 ready, FCC CFR 47 Part 15	Kindly Refer Corrigendum	8. HPE(3) 9. Hewlett Packard Enterprise India Private Limited 10. Matrix Security & Surveillance Pvt Ltd(1,2,3) 11. Arista



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			EN 61000-4-5: Surge is the standard for surge protection for copper ellectrical ports where as the all required ports are fiber. Hence this standard is not required. RoHS, Ipv6 ready, FCC CFR 47 Part 15 EN 61000-4-5: Surge is the standard for surge protection for copper ellectrical ports where as the all required ports are fiber. Hence this standard is not required. Hewlett Packard Enterprise India Pvt Ltd: 3. Suggestive Input/Change Request RoHS, Ipv6 ready, FCC CFR 47 Part 15 Justification EN 61000-4-5: Surge is the standard for surge protection for copper ellectrical ports where as the all required ports are fiber. Hence this standard is not required. Hewlett Packard Enterprise India Pvt Ltd:		



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			4. Suggestive Input/Change Request RoHS, Ipv6 ready, FCC CFR 47 Part 15 Justification EN 61000-4-5: Surge is the standard for surge protection for copper ellectrical ports where as the all required ports are fiber. Hence this standard is not required. Hewlett Packard Enterprise India Pvt Ltd: 5. Suggestive Input/Change Request RoHS, Ipv6 ready, FCC CFR 47 Part 15 Justification EN 61000-4-5: Surge is the standard for surge protection for copper ellectrical ports where as the all required ports are fiber. Hence this standard is not required. 6. Arista: RoHS, Ipv6 ready, FCC CFR 47 Part 15, EN 61000-4-5/EN 61000-3-2, NDcPP		



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			Please add EN 61000-3-2 as option. Please remove 'surge' as there is no such certification or rating. Requesting to add the leading common criteria certification for network devices the NDcPP to ensure basic security features.		
	4.8.17 - Layer 2 TOR Switches - 48 ports 10G - B 5/417 (1)	HA cables to be included as part of solution	Clarification required: Please specify DA cable bandwidth. 100g or 40G Alcatel Lucent Enterprise Clarification required: Please specify DA cable bandwidth. 100g or 40G Arista: 100G HA cables to be included as part of solution requesting to make HA cables of 100G. Otherwise bidder may opt for lower grade 10G cables.	As per RFP(Cables should be provided as per solution requirement)	1. Alcatel Lucent Enterprise 2. Alcatel Lucent Enterprise 3. Arista
	4.8.17 - Layer 2 TOR Switches - 48 ports 10G - A 1/417 (1)	High Density Wire-speed Layer3 Switch	Both statements are contradictory please revise the requirement to L2 or L3 switch.	Kindly Refer Corrigendum	1. EFKON India Pvt. Ltd
	4.8.17 - Layer 2 TOR Switches - 48 ports 10G - B 1/417 (5)	Wire rate 48x10 GbE SFP28 ports and 6x100GbE QSFP28 ports. All ports should be populated with Multi-mode transceivers.	1. Clarification required: All ports to be populated with which module? 1G/10G or 40G/100G module? 2. Kindly specify the distance and type (Single-Mode / Multi-Mode) and count of SPF's required. Kindly mention the same in the SOR as well.	Kindly Refer Corrigendum	2. iValue InfoSolutions Pvt. Ltd. (1) 3. Techspire Services Pvt. Ltd. (1) 4. Online Micro Services Private Limited (1)



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			3. Kindly specify the distance and type (Single-Mode / Multi-Mode) and count of SPF's required. Kindly mention the same in the SOR as well.		5. Alcatel Lucent Enterprise (1) 6. Sterlite Technologies Limited (2)
	4.8.17 - Layer 2 TOR Switches - 48 ports 10G - C 1/418 (5)	Minimum Switch Fabric Capacity: 4Tbps or better	1. Suggestive Input/Change Request: Minimum Switch Fabric Capacity: 6.4Tbps or better Justification: If we consider 32 x 100G Ports than switching capacity will not be more than 6.4 Tbps. Request you to kindly ammend the clause. 2. Request to change clause as "Minimum Switch Fabric Capacity: 6.4Tbps or better" We recommend switch should have wirespeed switching capacity = $32 \times 100 \times 2 = 6.4\text{Tb}$. It is submitted that 12.8 Tbps is highly restrictive incedently favoring one OEM only. 3. Minimum Switch Fabric Capacity: 6.4Tbps or better If we consider 32 x 100G Ports than switching capacity will not be more than 6.4 Tbps. Request you to kindly ammend the clause. 4. Request to change clause as "Minimum Switch Fabric Capacity: 2.16Tbps or better" How can a switch have more than wirespeed switching capacity =	Kindly Refer Corrigendun	1. Alcatel Lucent Enterprise 2. Techspire Services Pvt. Ltd. 3. Online Micro Services Private Limited 4. Matrix Security & Surveillance Pvt Ltd 5. iValue InfoSolutions Pvt. Ltd 6. Cisco



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			(48x10x2 + 6x100x2) = 2.16Tb. Rest is OEM specific design		
	4.8.17 - Layer 2 TOR Switches - 48 ports 10G - C 2/418 (8)	C. Performance 2. Latency 850ns	1. 300ns is not possible in ethernet switches.it may be a typo error. Kindly allow minimum 800ns for major leading OEM's to comply. Kindly modify clause as" 2. Latency 800ns" 2. Request to change the clause as "Latency <600 ns". As per industry standards <600ns latency is recommended for Metopolitan Wide Networks which enables leading OEMs to participate. It is requested to please increase the latency to 600ns which practical limitation in such kind of complex deployments. 3. Suggestive Input/Change Request:Latency <5 μs Justification: Enterprise applications require network latency in milli seconds and for a switch, micro-seconds latency is sufficient. Please modify the specification accordingly 4. This clause is restricting participation, and deleting this clause will not impact the desired functionality of the solution. Hence in order to enable leading OEM participation, request you to kindly delete this clause.	Kindly Refer Corrigendum	1. HPE (3) 2. Matrix Security & Surveillance Pvt Ltd (3,4) 3. Cisco (4) 4. Hewlett Packard Enterprise India Private Limited



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			5. Latency <5 μ s Enterprise applications require network latency in milli seconds and for a switch, micro-seconds latency is sufficient. Please modify the specification accordingly		
	4.8.17 - Layer 2 TOR Switches - 48 ports 10G - D 2/418 (5)	32MB packet buffer memory.	Request to change clause as "16MB packet buffer memory." 40MB PBM is highly restrictive and OEM specific feature. Requesting to please make it 16MB PBM to allow other leading OEMs to qualify. Techspire Services Request to change clause as "16MB packet buffer memory." 40MB PBM is highly restrictive and OEM specific feature. Requesting to please make it 16MB PBM to allow other leading OEMs to qualify.	As per RFP	1. Online Micro Services Private Limited 2. iValue InfoSolutions Pvt. Ltd 3. Techspire Services Pvt. Ltd. 4. Alcatel Lucent Enterprise 5. Techspire Services
	4.8.17 - Layer 2 TOR Switches - 48 ports 10G - D 3/418 (3)	Modular operating system, OpenFlow 1.3	1. Suggestive Input/Change Request: Modular operating system, OpenFlow 1.3 or REST APIs Justification: OpenFlow is one option for software programmability. Request to accept REST APIs which can be used by upper layer controllers/management systems 2. Modular operating system, OpenFlow 1.3 or REST APIs OpenFlow is one option for software programmability. Request to accept REST APIs which can be used by upper layer controllers/management systems	Kindly refer corrigendum	1. HPE(1) 2. Matrix Security & Surveillance Pvt Ltd(2) 3. Arista



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			Arista: Modular operating system, telemetry, API and openstack support for SDN OpenFlow didn't see much market adoption and so generally not used in production environment. Requesting to remove it and ask for more relevant SDN technologies of today like telemetry, API and Openstack integration.		
	4.8.17 - Layer 2 TOR Switches - 48 ports 10G - D 4/418 (3)	CLI commit, Uplink Failure Detection, BFD, Zero Touch Deployment.	1. Suggestive Input/Change Request: CLI commit or equivalent, Uplink Failure Detection, BFD, Zero Touch Deployment Justification: CLI Commit feature is not standard across vendors. Request to accept equivalent feature which will ensure CLI configuration roll back CLI commit or equivalent, Uplink Failure Detection, BFD, Zero Touch Deployment 2. CLI Commit feature is not standard across vendors. Request to accept equivalent feature which will ensure CLI configuration roll back	Kindly refer corrigendum	1. HPE (1) 2. Matrix Security & Surveillance Pvt Ltd (2)
	4.8.17 - Layer 2 TOR Switches -	128 LAG groups with 16 ports per LAG	1. Suggestive Input/Change Request: 48 LAG groups with 16 ports per LAG Justification: For a 24-	Kindly Refer Corrigendum	1. HPE (1) 2. Matrix Security & Surveillance Pvt Ltd (2)



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	48 ports 10G - F 1/418 (3)		port switch, 128 Link aggregation groups are not desired. Request to modify the specification as requested 48 LAG groups with 16 ports per LAG 2. 128 Link aggregation groups are not desired. Request to modify the specification as requested so that leading OEM can participate 3. 48 LAG groups with 16 ports per LAG 128 Link aggregation groups are not desired. Request to modify the specification as requested so that leading OEM can participate		
	4.8.17 - Layer 2 TOR Switches - 48 ports 10G - F 2/418 (11)	128K ARP table, 160K MAC addresses	1. Request to change the clause as "32K ARP table, 160K MAC addresses" Request to change as 128K is too high for this design 2. The ask of 128K ARP table is on very higher side and is restricting leading OEM participation. Further, network performance may degrade during large ARP table lookup. Asking lower ARP table in the switches will not impact the desired functionality. Hence request you to kindly modify the clause as "48K ARP table, 160K MAC address" 3. Suggestive Input/ Change Request: 48K ARP table, 96K MAC addresses	Kindly refer corrigendum.	1. Cisco (2) 2. HPE (3) 3. Online Micro Services Private Limited (1) 4. iValue InfoSolutions Pvt. Ltd (1) 5. Techspire Services Pvt. Ltd. (1) 6. Matrix Security & Surveillance Pvt Ltd (3,2) 7. Alcatel Lucent Enterprise (1) 8. Arista



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			Justification: For a 24-port switch, the ARP/MAC table asked for is very high. Request to modify the specification as requested 48K ARP table, 32K MAC addresses 4. The ARP/MAC table asked for is very high. Request to modify the specification as requested so that leading OEM can participate 5. Arista: 128K IPv4 routes table, 160K MAC address Requesting to remove ARP and use IPv4 scale. Scale requirements are generally mentioned in IP route and MAC scale only. Such high scale with ARP is generally not required.		
	4.8.17 - Layer 2 TOR Switches - 48 ports 10G - F 4/418 (6)	132K MAC addresses	1. This clause is in contradiction to the above clause F.2., kindly delete the same. 2. Suggestive Input/Change Request: 32K MAC addresses Justification: The MAC table asked for is very high as per the requirement and solution. Request to modify the specification as requested so that leading OEM can participate 3. 32K MAC addresses The MAC table asked for is very high as per the requirement and solution. Request to modify the specification	Kindly refer corrigendum	1. HPE (2) 2. Matrix Security & Surveillance Pvt Ltd (1) 3. Cisco(1)



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			as requested so that leading OEM can participate		
	4.8.17 - Layer 2 TOR Switches - 48 ports 10G - H 5/418 (3)	802.1X Network Security and Authentication	Suggestive Input/Change Request 802.1X or RADIUS Network Security and Authentication Justification IEEE802.1x Network Security is an access security feature for campus switches connecting to user devices. Server-connecting DC access switchs are not configured for that. Request to modify the specification as requested 802.1X or RADIUS Network Security and Authentication IEEE802.1x Network Security is an access security feature for campus switches connecting to user devices. Server-connecting DC access switchs are not configured for that. Request to modify the specification as requested	As per RFP	- Hewlett Packard Enterprise India Private Limited - Matrix Security And Surveillance Pvt Ltd
	4.8.17 - Layer 2 TOR Switches - 48 ports 10G - J 1/419 (9)	J. Multicast 1. H/W based Ipv4 or Ipv6 Multicasting (minimum 10000 group supported)	10,000 groups can not be possible in Layer 3 switch. Its generally provided in Service class routers. Kindly modify the multicast requirement to 1000 groups or 10,000 host. Kindly modify clause as" J. Multicast 1. H/W based Ipv4 or Ipv6 Multicasting (minimum 1000 group or 10000 multicast host supported)"	Kindly Refer Corrigendum	- Dell Technologies - Cisco (2) - Elkosta Security Systems India (1) - Telecommunications Consultants India Limited - Tech Mahindra - NEC Corporation India Pvt. Ltd. (1) - NEC Corporation India Pvt. Ltd.



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			2. This clause is restricting participation, kindly relax the clause as "1. H/W based Ipv4 or Ipv6 Multicasting (minimum 8000 group supported)" H/W based IPv4 and IPv6 Multicasting. [The overall network solution should support multicast streams from 10,000 cameras] The mentioned specification is a mistake as 10000K multicast groups is practically not possible. Multicast is not done at one layer of the network but across the network. Hence request to mention multicast support across the network solution rather than a specific model of switches		8. Samsung SDS India Pvt Ltd. 9. Matrix Security & Surveillance Pvt Ltd
	4.8.17 - Layer 2 TOR Switches - 48 ports 10G - J 3/419 (3)	Protocol Independent Multicast – Sparse Mode and PIM – SSM	1. Suggestive Input/Change Request: Protocol Independent Multicast – Sparse Mode or PIM – SSM Justification: PIM-SM is the widely used and adopted Multicast routing protocol. Request to make PIM-SSM as optional 2. Protocol Independent Multicast – Sparse Mode or PIM – SSM PIM-SM is the widely used and adopted Multicast routing protocol. Request to make PIM-SSM as optional	As per RFP	1. Matrix Security & Surveillance Pvt Ltd (2) 2. HPE (1,2) 3. Hewlett Packard Enterprise India Private Limited (1,2)



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	4.8.17 - Layer 2 TOR Switches - 48 ports 10G - K 1/419 (3)	Ansible, Puppet, Chef, SaltStack, RESTCONF APIs	1. Suggestive Input/Change Request: Ansible, Puppet, Chef, SaltStack, RESTCONF APIs or equivalent Justification: Request to accept equivalent open APIs/scripting methods for software programmability. 2. Ansible, Puppet, Chef, SaltStack, RESTCONF APIs or equivalent Request to accept equivalent open APIs/scripting methods for software programmability.	Kindly refer corrigendum	1. HPE (1,2) 2. Hewlett Packard Enterprise India Private Limited (1,2) 3. Matrix Security & Surveillance Pvt Ltd (1,2)
	4.8.17 - Layer 2 TOR Switches - 48 ports 10G - M 1/419 (3)	M. Power Rating & Certifications 1. Should operate on AC power ~50Hz. Power consumption should not be more than 650Watts under full load.	1. Every OEM has different architecture and accordingly identify the max power supply requirement, so asking power consumption not be more than 1200 Watts under full load restrict leading OEM participation. Kindly modify the clause as "Should operate on AC power ~50Hz"	Kindly Refer Corrigendum	1. HPE 2. Matrix Security & Surveillance Pvt Ltd
	4.8.17 - Layer 2 TOR Switches - 48 ports 10G - M 2/419 (3)	RoHS, Ipv6 ready, FCC CFR 47 Part 15, EN 61000-4-5: Surge	1. RoHS, Ipv6 ready, FCC CFR 47 Part 15 EN 61000-4-5: Surge is the standard for surge protection for copper electrical ports where as the all required ports are fiber. Hence this standard is not required. 2. Suggestive Input/Change Request:RoHS, Ipv6 ready, FCC CFR 47 Part 15 Justification: EN 61000-4-5: Surge is the standard for surge protection for copper	Kindly Refer Corrigendum	1. HPE 2. Matrix Security & Surveillance Pvt Ltd(3,4) 3. Arista



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			electrical ports where as the all required ports are fiber. Hence this standard is not required. 3. RoHS, Ipv6 ready, FCC CFR 47 Part 15 EN 61000-4-5: Surge is the standard for surge protection for copper electrical ports where as the all required ports are fiber. Hence this standard is not required. 4. RoHS, Ipv6 ready, FCC CFR 47 Part 15, EN 61000-4-5/EN 61000-3-2, NDcPP Please add EN 61000-3-2 as option. Please remove 'surge' as there is no such certification or rating. Requesting to add the leading common criteria certification for network devices the NDcPP to ensure basic security features.		
	4.8.17 - Layer 2 Switch - KVM Management Switches - Interface requirements - 1/419 (1)	Minimum of 24 ports 10/100/1000 Base-T and 4x 10G SFP+ ports	Please specify the type and quantity of 4x 10G SFP+ transceivers i.e. LR (10 Kms) or ER (40 Kms)? Arista: Minimum of 24 ports 10/100/1000 Base-T and 4x 10/25G SFP+ ports need to talk for 48 port	Kindly Refer Corrigendum	1. Sterlite Technologies Limited 2. Arista



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	4.8.17 - Layer 2 Switch - KVM Management Switches - Design & Performance - 2/420 (1)	2. Should be equipped with minimum 1GB RAM and 1GB flash	We request you to delete the clause. Kindly confirm.	Kindly Refer Corrigendum	1. Tejas Networks
	4.8.17 - Layer 2 Switch - KVM Management Switches - Design & Performance - 2/420 (3)	2. be equipped with minimum 1GB Flash & 1GB CPU memory	As per current trends, the memory ask may not be able to meet the future demand or load requirement and can lead to poor network performance, hence for project beneficial in longer run, please change the clause as "Should have min 2GB Flash & min 2GB CPU Memory" CISCO As per current trends, the memory ask may not be able to meet the future demand or load requirement and can lead to poor network performance, hence for project beneficial in longer run, please change the clause as "Should have min 2GB Flash & min 2GB CPU Memory"	Kindly Refer Corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd 3. CISCO
	4.8.17 - Layer 2 Switch - KVM Management Switches - Design & Performance - 3/420 (7)	Design & Performance 3. Should have LED indicator for per port status, FAN, PSU and Management Status	1. This is favouring to one OEM and restrict leading OEM participation. Kindly modify the clause as "Should have LED indicator for per port status, PSU and Management Status"	Kindly Refer Corrigendum	1. Cisco(1) 2. Matrix Security & Surveillance Pvt Ltd(1,2) 3. Hewlett Packard Enterprise India Private Limited(2) 4. CISCO



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			2. Suggestive Input/Change Request Should have LED indicator for per port status, PSU/Power and Management Status Justification LED indicators vary between OEMs. Request to modify the specification as requested CISCO This is favouring to one OEM and restrict leading OEM participation. Kindly modify the clause as "Should have LED indicator for per port status, PSU and Management Status" Hewlett Packard Enterprise India Pvt Ltd: Suggestive Input/Change Request Should have LED indicator for per port status, PSU/Power and Management Status Justification LED indicators vary between OEMs. Request to modify the specification as requested		
	4.8.17 - Layer 2 Switch - KVM Management Switches - Design & Performance -	0°C to 45°C operating temperature and 10% to 95% relative humidity	1. Suggestive Input/Change Request: 0°C to 45°C operating temperature and 15% to 95% relative humidity Justification: Humidity in Delhi varies between 30 to 70%.	Kindly Refer Corrigendum	1. HPE (1) 2. Cisco (2) 3. Matrix Security & Surveillance Pvt Ltd



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	4/420 (7)		Request to modify the operating humidity as mentioned. 2. This is favouring to one OEM and restrict leading OEM participation. Kindly modify the clause as "0°C to 45°C operating temperature and 10% to 90% relative humidity" 3. 0°C to 45°C operating temperature and 15% to 95% relative humidity Humidity in Delhi varies between 30 to 70%. Request to modify the operating humidity as mentioned. CISCO This is favouring to one OEM and restrict leading OEM participation. Kindly modify the clause as "0°C to 45°C operating temperature and 10% to 90% relative humidity" Hewlett Packard Enterprise India Pvt Ltd: Suggestive Input/Change Request 0°C to 45°C operating temperature and 15% to 95% relative humidity Justification Humidity in Delhi varies between 30 to 70%. Request to modify the operating humidity as mentioned.		4. Hewlett Packard Enterprise India Private Limited 5. CISCO 6. Arista



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			Arista: 0°C to 40°C operating temperature and 10% to 95% relative humidity Please change higher temperature value to 40°C Celsius		
	4.8.17 - Layer 2 Switch - KVM Management Switches - Switching/routing - 3/420 (4)	Audio Video Bridging to enable reliable, real- time audio/video transmission over Ethernet	1. Suggestive Input/Change Request : Audio Video Bridging or IEEE 1588v2 Transparent Clock support to enable reliable, real-time audio/video transmission over Ethernet Justification: IEEE 1588v2 Transparent Clock capability provides the network clocking for low latency audio/video transmission over Ethernet. Request to modify the specification as requested 2. Audio Video Bridging or IEEE 1588v2 Transparent Clock support to enable reliable, real-time audio/video transmission over Ethernet IEEE 1588v2 Transparent Clock capability provides the network clocking for low latency audio/video transmission over Ethernet. Request to modify the specification as requested 3. Audio Video Bridging or IEEE 1588v2 Transparent Clock support to enable reliable, real-time audio/video transmission over	As per RFP (The third party management switch may be provided by MSI for real-time audio/video transmission over Ethernet)	1. HPE(1,2) 2. Matrix Security & Surveillance Pvt Ltd(1,2) 3. Hewlett Packard Enterprise India Private Limited(1,2) 4. Arista



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			Ethernet IEEE 1588v2 Transparent Clock capability provides the network clocking for low latency audio/video transmission over Ethernet. Request to modify the specification as requested 4. Hewlett Packard Enterprise India Pvt Ltd: Suggestive Input/Change Request Audio Video Bridging or IEEE 1588v2 Transparent Clock support to enable reliable, real-time audio/video transmission over Ethernet Justification IEEE 1588v2 Transparent Clock capability provides the network clocking for low latency audio/video transmission over Ethernet. Request to modify the specification as requested 5. Arista: should have features to provide real-time audio/video transmission over Ethernet AVB is generally used in Media and Broadcasting environment. All devices support reliable audio and video transmission without it too. So		



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			requesting to remove AVB from this clause.		
	4.8.17 - Layer 2 Switch - KVM Management Switches - Switching/routing - 6/420 (3)	6. Should have Port based VLAN, MAC based VLAN, private vlan and support GVRP	1. Request to change clause as "Should have Port based VLAN, MAC based VLAN, private vlan and support GVRP/MVRP" Please allow MVRP (Multiple VLAN Registration Protocol) as an option with GVRP for desired dynamic VLAN propagation to facilitate healthy participation and competition. 2. GVRP restrict leading OEM participation hence request you to kindly change the clause as "Should have Port based VLAN, MAC based VLAN, private vlan and support GVRP/VTP or equivalent for dynamic VLAN propagation" 3. iValue InfoSolutions: Request to change clause as "Should have Port based VLAN, MAC based VLAN, private vlan and support GVRP/MVRP" Alcatel use MVRP to achieve the same functionality Techspire Services 4. Request to change clause as "Should have Port based VLAN,	Kindly refer corrigendum	1. Online Micro Services Private Limited (1) 2. Cisco(2) 3. Alcatel Lucent Enterprise(1) 4. iValue InfoSolutions Pvt. Ltd.(1) 5. Matrix Security & Surveillance Pvt Ltd(2) 6. Techspire Services Pvt. Ltd.(1) 7. Alcatel Lucent Enterprise 8. Arista



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			MAC based VLAN, private vlan and support GVRP/MVRP" Please allow MVRP (Multiple VLAN Registration Protocol) as an option with GVRP for desired dynamic VLAN propoagation to facilitate healthy participation and competition. 5. Alcatel Lucent Enterprise Request to change clause as "Should have Port based VLAN, MAC based VLAN, private vlan and support GVRP/MVRP" Please allow MVRP (Multiple VLAN Registration Protocol) as an option with GVRP for desired dynamic VLAN propoagation to facilitate healthy participation and competition. Alcatel Lucent Enterprise Request to change clause as "Should have Port based VLAN, MAC based VLAN, private vlan and support GVRP/MVRP" Please allow MVRP (Multiple VLAN Registration Protocol) as an option with GVRP for desired dynamic VLAN propoagation to		



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			facilitate healthy participation and competition. 6. CISCO GVRP restrict leading OEM participation hence request you to kindly change the clause as "Should have Port based VLAN, MAC based VLAN, private vlan and support GVRP/VTP or equivalent for dynamic VLAN propagation" 7. Arista: Should have Port based VLAN, MAC based VLAN forwarding These are all campus related features and so requesting to remove this clause from here.		
	4.8.17 - Layer 2 Switch - KVM Management Switches - Switching/routing - 14/420 (8)	Should have basic dynamic routing protocols like RIP, OSPF, PIM, VRRP on day one	1. Request to change clause as "Should have basic dynamic routing protocols like RIP from day one and be upgradeable to OSPF, VRRP" PIM is OEM specific in L2 switch. There is no functionality for this value in the design 2. Specs are referring to layer3 switch. please revise the requirement to L2 or L3 switch.	As per RFP	1. Alcatel Lucent Enterprise (1) 2. iValue InfoSolutions Pvt. Ltd. (1) 3. EFKON India Pvt. Ltd (2) 4. Techspire Services Pvt. Ltd. (1) 5. Online Micro Services Private Limited (1) 6. Matrix Security And Surveillance Pvt Ltd 7. Arista



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			3. Specs are referring to layer3 switch. please revise the requirement to L2 or L3 switch. 4. Arista: Should have basic dynamic routing protocols like RIP, OSPF, PIM, VRRP, BGP,ISIS on day one		

S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
861.	4.8.17 - Layer 2 Switch - KVM Management Switches - Certification - 1/421 (7)	Certification Model should have safety and standards certifications as below: IEC61000-4-6:2008/EN61000-4-6:2009, IEC61000-4-8:2009/EN61000-4-8:2010, EN 55022:2010 Class A, CISPR 22:2008 Class A, CISPR24:2010ClassA, Radiated Immunity 10V/criteria, UL60950-1 2ndEd, CE 2.0 Compliant or equivalent Indian Standards	1. Every OEM will go for IEC/FCC/CISPR or its equivalent certification and CE2.0 is specifically for carrier ethernet services which is not the case here, hence in order to have participation from leading OEM, kindly modify the clause as "Model should have safety and standards certifications as below: IEC & CISPR certificates as below : IEC61000-4-6:2008/EN61000-4-6:2009, IEC61000-4-8:2009/EN61000-4-8:2010 or equivalent, EN 55022:2010 Class A, CISPR 22:2008 Class A, CISPR24:2010 ClassA, Radiated Immunity 10V/criteria, UL60950-1 2ndEd"Model should have safety and standards certifications as below: IEC & CISPR certificates as below : IEC61000-4-6:2008/EN61000-4-6:2009, IEC61000-4-	Kindly Refer Corrigendum	1. Cisco(1) 2. Matrix Security & Surveillance Pvt Ltd(1) 3. HPE(2,3) 4. Hewlett Packard Enterprise India Private Limited 5. Arista



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			8:2009/EN61000-4-8:2010 , EN 55022:2010 Class A, CISPR 22:2008 Class A, 2. CISPR24:2010 ClassA, Radiated Immunity 10V/criteria, UL60950-1 2ndEd, CE 2.0 Compliant or equivalent safety and emissions standards or Indian standard Justification The certified safety and emission standards vary between OEMs. Request to accept equivalent safety and emissions standards 3. Suggestive Input/Change Request Model should have safety and standards certifications as below: IEC & CISPR certificates as below: IEC61000-4-6:2008/EN61000-4-6:2009, IEC61000-4-8:2009/EN61000-4-8:2010, EN 55022:2010 Class A, CISPR 22:2008 Class A, 4. CISPR24:2010 ClassA, Radiated Immunity 10V/criteria, UL60950-1 2ndEd, CE 2.0 Compliant or equivalent safety and emissions standards or Indian standard Justification The certified safety and emission standards vary between OEMs. Request to accept equivalent safety and emissions standards 5. Suggestive Input/Change Request Model should have safety and standards certifications as below: IEC & CISPR certificates as below:		



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			IEC61000-4-6:2008/EN61000-4-6:2009, IEC61000-4-8:2009/EN61000-4-8:2010, EN 55022:2010 Class A, CISPR 22:2008 Class A, 6. CISPR24:2010 Class A, Radiated Immunity 10V/criteria, UL60950-1 2ndEd, CE 2.0 Compliant or equivalent safety and emissions standards or Indian standard Justification The certified safety and emission standards vary between OEMs. Request to accept equivalent safety and emissions standards 7. Hewlett Packard Enterprise India Pvt Ltd: Suggestive Input/Change Request Model should have safety and standards certifications as below: IEC & CISPR certificates as below : IEC61000-4-6:2008/EN61000-4-6:2009, IEC61000-4-8:2009/EN61000-4-8:2010 , EN 55022:2010 Class A, CISPR 22:2008 Class A, CISPR24:201 OClassA, Radiated Immunity 10V/criteria, UL60950-1 2ndEd, CE 2.0 Compliant or equivalent safety and emissions standards or Indian standard Justification		



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			The certified safety and emission standards vary between OEMs. Request to accept equivalent safety and emissions standards 8. Arista: RoHS, Ipv6 ready, FCC CFR 47 Part 15, EN 61000-4-5/EN 61000-3-2, NDcPP Please keep this in sync with other DC category networking devices		
862.	4.8.17 - Layer 2 Switch - KVM Management Switches - Management - 4/421 (3)	Should have L2 Traceroute, L2 Ping and Multicast Traceroute	Should have L2 or L3 Traceroute, L2 or L3 Ping and Multicast Traceroute or route visibility in CLI L2 Ping/Traceroute are vendor proprietary features. Multicast route can be seen on CLI. Request to modify the specification as requested Arista: Should have Traceroute, Ping and multicast troubleshooting tools/CLIs	Kindly refer corrigendum	1. HPE 2. Matrix Security & Surveillance Pvt Ltd 3. Hewlett Packard Enterprise India Private Limited 4. Arista
863.	4.8.17 - Layer 2 Switch - KVM Management Switches - Management - 7/421 (16)	7. Should be SDN capable with Open stack support and OpenFlow API support, should support IEEE P802.1Qaz	1. Request to change clause as "Should be SDN capable with Open stack support and OpenFlow API support" It is submitted that IEEE P802.1Qaz is a L3 feature which specifies enhancement of transmission selection to support allocation of bandwidth amongst traffic classes.. This feature at L2 switch will not facilitate a fair competition in terms of ideal features and the related costs of an L3 switch. The leading OEMs with	Kindly refer corrigendum	1. Techspire Services Pvt. Ltd. (1) 2. Alcatel Lucent Enterprise (1) 3. iValue InfoSolutions Pvt. Ltd. (1) 4. HPE (5) 5. Dell Technologies (1) 6. Matrix Security & Surveillance Pvt Ltd (5) 7. Online Micro Services Private Limited (1)



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			L3 switch for this feature will be restricted to participate if this feature is asked at L2 level. Requesting to remove this feature at L2 switch does require at the L3 switches available at DC. 2. Request to change clause as "Should be SDN capable with Open stack support and OpenFlow API support" This is a L3 feature Suggestive Input/Change Request Should be SDN capable with Open stack support or OpenFlow/REST API support, should support IEEE P802.1Qaz or VXLAN Justification Request to accept REST APIs for software programmability, which can be used by upper layer controllers/management systems. Also for Virtual bridge LAN networks, accept the latest VXLAN standard support IEEE P802.1Qaz is data center technology known as ETS(Enhanced transmission selection) which provides customized bandwidth allocation to 802.1p classes of traffic. Assign different amounts of bandwidth to Ethernet, FCoE, or iSCSI traffic classes that require different bandwidth, latency, and best-effort treatment during network congestion in Data center. Kindly allow IEEE802.1P for Layer 2 switch to comply.		8. Elkosta Security Systems India(1) 9. Telecommunications Consultants India Limited (1) 10. Tech Mahindra (1) 11. NEC Corporation India Pvt. Ltd. (1) 12. Samsung SDS India Pvt Ltd. (1) 13. Tejas Networks 14. Hewlett Packard Enterprise India Private Limited (5) 15. HPE (5) 16. Arista



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			3. Kindly modify clause as" Should be SDN capable with Open stack support and OpenFlow API support, should support IEEE P802.1Qaz or IEEE 802.1P" IEEE P802.1Qaz is data center technology known as ETS(Enhanced transmission selection) which provides customized bandwidth allocation to 802.1p classes of traffic. Assign different amounts of bandwidth to Ethernet, FCoE, or iSCSI traffic classes that require different bandwidth, latency, and best-effort treatment during network congestion in Data center. Kindly allow IEEE802.1P for LAYER 2 switch to comply. Kindly modify clause as" Should be SDN capable with Open stack support and OpenFlow API support, should support IEEE P802.1Qaz or IEEE 802.1P" 4. Suggestive Input/Change Request Should be SDN capable with Open stack support or OpenFlow/REST API support, should support IEEE P802.1Qaz or VXLAN Justification Request to accept REST APIs for software programmability, which can be used by upper layer controllers/management systems. Also for Virtual bridge LAN networks, accept the latest VXLAN standard support		



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			5. Suggestive Input/Change Request Should be SDN capable with Open stack support or OpenFlow/REST API support, should support IEEE P802.1Qaz or VXLAN Justification Request to accept REST APIs for software programmability, which can be used by upper layer controllers/management systems. Also for Virtual bridge LAN networks, accept the latest VXLAN standard support 6. Arista: Should be SDN capable with Open stack support and OpenFlow/API support 802.1Qaz is restricting in this category		
864.	4.8.17 - Layer 2 Switch - KVM Management Switches - Security - 1/421 (3)	Security 1. Local authentication database for RADIUS Authentication for 802.1x login	1. We do support local authentication database which is used when RADIUS server is not reachable and centralised authentication database such as LDAP, AD, etc. are also supported. Please confirm our understanding on this clause is in-line to your requirement. 2. Arista: Local authentication database OR RADIUS/TACACS Authentication 802.1x login are used in campus environments.	Kindly Refer Corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd 3. Cisco 4. Arista
865.	4.8.17 - Layer 2 Switch - KVM Management	Should have SSH-2, SCP, SFTP for secure management	1. Suggestive Input/Change Request Should have SSH-2, SCP/SFTP for secure management	As per RFP : MSI can quote as per requirement	1. HPE 2. Matrix Security & Surveillance Pvt Ltd



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	Switches - Security - 3/421 (4)		Justification Since SCP and SFTP both are equivalent for secured file transfer protocol. The protocols varies between OEMs. Request you to kindly amend so that leading OEM can participate.		3. Hewlett Packard Enterprise India Private Limited
866.	4.8.17 - Layer 2 Switch - KVM Management Switches - Security - 4/421 (12)	Should have dynamic arp inspection, DHCP snooping, Private VLAN, SYN attack protection, GARP protection	1. Suggestive Input/Change Request Should have dynamic arp inspection, DHCP snooping, Private VLAN, SYN attack protection or CPU DoS protection, GARP protection Justification SYN attack protection and DoS attack protection are common and similar. Request you to kindly amend. 2. Request to change clause as""Should have dynamic arp inspection, DHCP snooping, Private VLAN, SYN attack protection, GARP protection/ARP Poison Detection"" It is requested to ARP poisoning (spoofing) as an option with GARP protection. 3. Request to change clause as""Should have dynamic arp inspection, DHCP snooping, Private VLAN, SYN attack protection, GARP protection/ARP Poison Detection"" Alcatel used ARP Poison detection for same functionality. 4. SYN attack/DDoS are initiated by the outside network to inside. Access layer do not support these protocol and needs to be removed	Kindly refer corrigendum	1. HPE (1) 2. Alcatel Lucent Enterprise (1) 3. HPE (1) 4. Matrix Security & Surveillance Pvt Ltd (1) 5. Techspire Services Pvt. Ltd. (1) 6. iValue InfoSolutions Pvt. Ltd. (1,3) 7. Online Micro Services Private Limited (1,2,3) 8. Hewlett Packard Enterprise India Private Limited (1) 9. Cisco 10. Matrix Security 11. CISCO 12. Arista



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			from the clause. Also, in a production environment, advertisement of router IPs are not encouraged by the access switches, therefore we may not require the GARP protection but ARP is very much required. Request you to kindly modify the clause to protect ARP traffic which will meet the desired functionality. Kindly modify the clause as "Should have dynamic arp inspection, DHCP snooping, Private VLAN, ARP protection" 5. CISCO SYN attack/DDoS are initiated by the outside network to inside. Access layer do not support these protocol and needs to be removed from the clause. Also, in a production environment, advertisement of router IPs are not encouraged by the access switches, therefore we may not require the GARP protection but ARP is very much required. Request you to kindly modify the clause to protect ARP traffic which will meet the desired functionality. Kindly modify the clause as "Should have dynamic arp inspection, DHCP snooping, Private VLAN, ARP protection"		



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			6. Arista: Should have arp inspection, DHCP snooping, SYN/Control-plane attack protection		
867.	4.8.17 - Layer 2 Switch - KVM Management Switches - Security - 6/421 (5)	Should have minimum 1 K ACL entry support and Time-Based ACL or Port-based ACL	1. Request to change clause as "Should have minimum 256 ACL entry support and Time-Based ACL" 1K ACL is high value for L2 switch. It is submitted that this clause is highly restrictive. Please allow fair and non-restrictive participation to fulfill project needs. It is requested to keep it 256 ACL for a KVM switch which is appropriate and industry standard feature. 2. Request to change clause as "Should have minimum 256 ACL entry support and Time-Based ACL" 1K ACL is high value for L2 switch. There is no functionality for this value in the KVM design Request to change clause as "Should have minimum 256 ACL entry support and Time-Based ACL" 1K ACL is high value for L2 switch. It is submitted that this clause is highly restrictive. Please allow fair and non-restrictive participation to fulfill project needs. It is requested to keep it 256 ACL for a KVM switch which is appropriate and industry standard feature.	Kindly refer corrigendum	1. Alcatel Lucent Enterprise(1) 2. Techspire Services Pvt. Ltd.(1) 3. iValue InfoSolutions Pvt. Ltd (1,3) 4. Online Micro Services Private Limited (1,2) 5. Techspire Services 6. Arista



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			3. Request to change clause as "Should have minimum 256 ACL entry support and Time-Based ACL" 1K ACL is high value for L2 switch. There is no functionality for this value in the KVM design Techspire Services 4. Request to change clause as "Should have minimum 256 ACL entry support and Time-Based ACL" 1K ACL is high value for L2 switch. It is submitted that this clause is highly restrictive. Please allow fair and non-restrictive participation to fulfill project needs. It is requested to keep it 256 ACL for a KVM switch which is appropriate and industry standard feature. 5. Arista: Should have minimum 4 K ACL entry support and Time-Based ACL or Port-based ACL		
868.	4.8.17 - Layer 2 Switch - KVM Management Switches - Switching/routing - 15/421 (3)	15. Should have Configurable multicast session limit per port	1. We do support multicast route limits and IP IGMP limits. Please confirm if our understanding is in-line to your requirement and kindly share the use case for the asked requirement.	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd 3. Cisco



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
869.	4.8.17 - Layer 2 TOR Switches - 48 Ports 10G - B 1/422 (6)	Wire rate 48x10 GbE SFP28 ports and 6x100GbE QSFP28 ports. All ports should be populated with Multi-mode transceivers	1. Please revise to : Wire rate 48x10 GbE SFP+ ports and 6x100GbE QSFP28 ports 2. Clarification required: All ports to be populated with which module? 1G/10G or 40G/100G module? 3. Arista: Wire rate 48x10 GbE SFP+ ports and 6x100GbE QSFP28 ports. Bidder need to size the quantities of transceivers and its type accordingly to solution and site requirement. 10G standard is SFP+ and not SFP28 so please correct that. Requesting to remove "All ports should be populated with Multi-mode transceivers". There are various types of transceivers and depending on the site requirement the type and quantity should be populated for maximum interoperability and minimum cost. This is inline with the clause b.2	Kindly refer corrigendum	1. EFKON India Pvt. Ltd (1) 2. Alcatel Lucent Enterprise (2) 3. iValue InfoSolutions Pvt. Ltd (2) 4. Techspire Services Pvt. Ltd. 5. Online Micro Services Private Limited (2) 6. Arista
870.	4.8.17 - Layer 2 TOR Switches - 48 Ports 10G - B 2/422 (1)	As per solution requirement the switch should support 1G, 10G, 25G, 40G & 100G transceivers from day-1. Bidder need to size the	1. Kindly specify the distance and type (Single-Mode / Multi-Mode) and count of SPF's required. Kindly mention the same in the SOR as well. 2. Arista:	Kindly Refer Corrigendum	1. Sterlite Technologies Limited 2. Arista



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		quantities of transceivers accordingly.	As per solution requirement the switch should support 1G, 10G, 40G & 100G transceivers from day-1. Bidder need to size the quantities of transceivers accordingly to solution Please remove "25G" as 25G transceiver can not be supported on SFP+ or QSFP port.		
871.	4.8.17 - Layer 2 TOR Switches - 48 Ports 10G - B 5/422 (4)	HA cables to be included as part of solution	1. Clarification required: Please specify DA cable bandwidth. 100g or 40G Clarification required	As per RFP (MSI has to plan as per solution requirement)	1. iValue InfoSolutions Pvt. Ltd 2. Techspire Services Pvt. Ltd. 3. Online Micro Services Private Limited 4.
872.	4.8.17 - Layer 2 TOR Switches - 48 Ports 10G - C 1/422 (8)	C. Performance 1. Minimum Switch Fabric Capacity: 4Tbps or better	1. This switch fabric capacity asked cannot be practically possible with the required no of ports/interfaces. Kindly modify the clause as "Minimum switch fabric capacity: 3.5 Tbps or better" 2. Request to change clause as" Minimum Switch Fabric Capacity: 2.16Tbps or better" We recommend switch should have wirespeed switching capacity = $(48 \times 10 \times 2 + 6 \times 100 \times 2) = 2.16 \text{ Tb}$. It is submitted that 4 Tbps is highly restrictive incedently favouring one OEM only. 3. Arista: Minimum Switch Fabric Capacity: 2.56 Tbps or better	Kindly refer corrgiendum	1. Cisco (1) 2. Matrix Security & Surveillance Pvt Ltd 3. Cisco (1) 4. Alcatel Lucent Enterprise(2) 5. iValue InfoSolutions Pvt. Ltd (2) 6. Techspire Services Pvt. Ltd. 7. Online Micro Services Private Limited (2) 8. Arista



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			4Tbps is incorrect value for 10G switch. The value is calculated from asked ports type and should be $2.16\text{Tbps} \Rightarrow ((48 \times 10\text{G}) + (6 \times 100\text{G})) \times 2$ higher value will push to higher configuration box increasing the cost.		
873.	4.8.17 - Layer 2 TOR Switches - 48 Ports 10G - C 2/422 (6)	C. Performance 2. Latency 850ns	1. Suggestive Input/Change Request Latency <5 μs Justification Enterprise applications require network latency in milli seconds and for a switch, micro-seconds latency is sufficient. Please modify the specification accordingly This clause is restricting participation, and deleting this clause will not impact the desired functionality of the solution. Hence in order to enable leading OEM participation, request you to kindly delete this clause.	Kindly Refer Corrigendum	1. HPE 2. Cisco 3. Matrix Security & Surveillance Pvt Ltd 4. HPE
874.	4.8.17 - Layer 2 TOR Switches - 48 Ports 10G - D 2/422 (5)	32MB packet buffer memory.	1. Request to change clause as "16MB packet buffer memory." 32MB PBM is highly restrictive and OEM specific feature. Requesting to please make it 16MB PBM to allow other leading OEMs to qualify. For wirespeed 16MB is more than sufficient.	As per RFP	1. Alcatel Lucent Enterprise 2. iValue InfoSolutions Pvt. Ltd 3. Techspire Services Pvt. Ltd. 4. Online Micro Services Private Limited
875.	4.8.17 - Layer 2 TOR Switches - 48 Ports 10G - D	Modular operating system, OpenFlow 1.3	1. Suggestive Input/Change Request Modular operating system, OpenFlow 1.3 or REST APIs Justification	Kindly Refer Corrigendum	1. HPE 2. Matrix Security & Surveillance Pvt Ltd HPE



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	3/422 (3)		OpenFlow is one option for software programmability. Request to accept REST APIs which can be used by upper layer controllers /management systems 2. Arista: Modular operating system, telemetry, API and openstack support for SDN OpenFlow didn't see much market adoption and so generally not used in production environment. Requesting to remove it and ask for more relevant SDN technologies of today like telemetry, API and Openstack integration.		3. Arista
876.	4.8.17 - Layer 2 TOR Switches - 48 Ports 10G - D 4/422 (3)	CLI commit, Uplink Failure Detection, BFD, Zero Touch Deployment.	1. Suggestive Input/Change Request CLI commit or equivalent, Uplink Failure Detection, BFD, Zero Touch Deployment Justification CLI Commit feature is not standard across vendors. Request to accept equivalent feature which will ensure CLI configuration roll back	Kindly refer corrigendum	1. HPE 2. Matrix Security & Surveillance Pvt Ltd 3. HPE
877.	4.8.17 - Layer 2 TOR Switches - 48 Ports 10G - F 1/422 (3)	128 LAG groups with 16 ports per LAG	1. Suggestive Input/Change Request 48 LAG groups with 16 ports per LAG Justification For a 24-port switch, 128 Link aggregation groups are not desired. Request to modify the specification as requested 2. Arista: 54 LAG groups with 16 ports per LAG	Kindly refer corrigendum	1. HPE 2. Matrix Security & Surveillance Pvt Ltd 3. Arista



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			requesting to reduce to 54 as 54 ports are asked so you can maximum have 54 LAG groups only.		
878.	4.8.17 - Layer 2 TOR Switches - 48 Ports 10G - F 2/422 (8)	128K ARP table, 160K MAC addresses	1. Suggestive Input/Change Request 48K ARP table, 96K MAC addresses Justification For a 24-port switch, the ARP/MAC table asked for is very high. Request to modify the specification as requested The ask of 128K ARP table is on very higher side and is restricting leading OEM participation. Further, network performance may degrade during large ARP table lookup. Asking lower ARP table in the switches will not impact the desired functionality. Hence request you to kindly modify the clause as "48K ARP table, 160K MAC address" 48K ARP table, 96K MAC addresses 2. For a 48-port switch, the ARP/MAC table asked for is very high. Request to modify the specification as requested Request to change the clause as "32K ARP table, 160K MAC addresses" This is restricting the healthy competition. Please consider 32K ARP tables to ensure meeting the project requirements with qualifying terms for all leading OEMs 3. The ask of 128K ARP table is on very higher side and is restricting leading	Kindly refer corrigendum.	1. HPE (1) 2. Cisco(3) 3. Matrix Security & Surveillance Pvt Ltd (1,3) 4. Alcatel Lucent Enterprise (2) 5. iValue InfoSolutions Pvt. Ltd (2) 6. Techspire Services Pvt. Ltd. (2) 7. Online Micro Services Private Limited (2)



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			OEM participation. Further, network performance may degrade during large ARP table lookup. Asking lower ARP table in the switches will not impact the desired functionality. Hence request you to kindly modify the clause as "48K ARP table, 160K MAC address"		
879.	4.8.17 - Layer 2 TOR Switches - 48 Ports 10G - F 4/422 (6)	132K MAC addresses	1. Suggestive Input/Change Request 32K MAC addresses Justification The MAC table asked for is very high as per the requirement and solution. Request to modify the specification as requested so that leading OEM can participate This clause is in contradiction to the above clause F.2., kindly delete the same. 2. 96K MAC addresses For a 48-port switch, the MAC table asked for is very high. Request to modify the specification as requested This clause is in contradiction to the above clause F.2., kindly delete the same.	Kindly Refer Corrigendum	1. HPE (1) 2. Cisco (2) 3. Matrix Security & Surveillance Pvt Ltd (2)
880.	4.8.17 - Layer 2 TOR Switches - 48 Ports 10G - J 1/423 (9)	J. Multicast 1. H/W based Ipv4 or Ipv6 Multicasting (minimum 10000 group supported)	1. 10,000 groups cannot be possible in Layer 3 switch. Its generally provided in Service class routers. Kindly modify the multicast requirement to 1000 groups or 10,000 host. Kindly modify clause as" J. Multicast 1. H/W based Ipv4 or Ipv6 Multicasting (minimum 10,000 group/multicast host supported)"	Kindly refer corrigendum	1. Elkosta Security Systems India (1) 2. Cisco (2) 3. Dell Technologies (1) 4. Matrix Security & Surveillance Pvt Ltd (2) 5. Cisco (2) 6. Telecommunications Consultants India Limited (1)



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			2. This clause is restricting participation, kindly relax the clause as "1. H/W based Ipv4 or Ipv6 Multicasting (minimum 8000 group supported)" 3. TCIL: 10,000 groups can not be possible in Layer 3 switch. Its genrally provided in Service class routers. Kindly modify the mulicast requirement to 1000 groups or 10,000 host. Kindly modify clause as" J. Multicast 1. H/W based Ipv4 or Ipv6 Multicasting (minimum 10,000 group/multicast host supported)"		7. Tech Mahindra (1) 8. NEC Corporation India Pvt. Ltd. (1) 9. Samsung SDS India Pvt Ltd. (1) 10. TCIL
881.	4.8.17 - Layer 2 TOR Switches - 48 Ports 10G - J 3/423 (3)	Protocol Independent Multicast – Sparse Mode and PIM – SSM	1. Suggestive Input/Change Request Protocol Independent Multicast – Sparse Mode or PIM – SSM Justification PIM-SM is the widely used and adopted Multicast routing protocol. Request to make PIM-SSM as optional	Kindly refer corrgiendum	1. HPE 2. Matrix Security & Surveillance Pvt Ltd HPE
882.	4.8.17 - Layer 2 TOR Switches - 48 Ports 10G - K 1/423 (3)	Ansible, Puppet, Chef, Salt Stack, RESTCONF APIs	1. Suggestive Input/Change Request Ansible, Puppet, Chef, SaltStack, RESTCONF APIs or equivalent Justification Request to accept equivalent open APIs/scripting methods for software programmability. 2. Arista: SNMP, RESTCONF APIs, Rest API, Zero Touch Deployment (ZTD),	Kindly refer corrgiendum	1. HPE 2. Matrix Security & Surveillance Pvt Ltd HPE 3. Arista



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			Ansible, Puppet, Chef, SaltStack, TCP dump / Wireshark Please add OpenConfig as option to RESTCONF		
883.	4.8.17 - Layer 2 TOR Switches - 48 Ports 10G - L1/423 (5)	802.3ae, 802.3ba, 802.3bj, 802.3x, 802.3z	1. Clarification required: 802.3ae, 802.3ba, 802.3by, 802.3x, 802.3z	As per RFP (MSI are free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP.)	1. Alcatel Lucent Enterprise 2. iValue InfoSolutions Pvt. Ltd 3. Techspire Services Pvt. Ltd. 4. Online Micro Services Private Limited
884.	4.8.17 - Layer 2 TOR Switches - 48 Ports 10G - M 1/423 (3)	M. Power Rating & Certifications 1. Should operate on AC power ~50Hz. Power consumption should not be more than 650Watts under full load.	1. Every OEM has different architecture and accordingly identify the max power supply requirement, so asking power consumption not be more than 650 Watts under full load restrict leading OEM participation. Kindly modify the clause as "Should operate on AC power ~50Hz" 2. Every OEM has different architecture and accordingly identify the max power supply requirement, so asking power consumption not be more than 460 Watts under full load restrict leading OEM participation. Kindly modify the clause as "Should operate on AC power ~50Hz"	Kindly Refer Corrigendum	1. Cisco (1,2) 2. Matrix Security & Surveillance Pvt Ltd (1,2)
885.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)-	Proposed vendor must be placed in Leader and Challengers Quadrant in Gartner SD-WAN or leader Gartner quadrant for Enterprise Firewall. NSS	1. SDWAN being a new technologies, Hence request you to please amend this clause as for wider participation: Proposed vendor must be placed in Leader and Challengers Quadrant in Gartner SD-WAN or leader/Visionary	Kindly refer corrigendum	1. Forcepoint (1) 2. Cisco (2,3) 3. VMware Software India Pvt Limited (3) 4. Matrix Security & Surveillance Pvt Ltd (1)



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	General-1/424 (8)	recommended vendor shall be preferred.	Gartner quadrant for Enterprise Firewall or shall be NSS recommended vendor/ SD-WAN should follow the software defined principles where it is required to have control (routing/security), data (traffic forwarding) and management (NMS/Monitoring) plane separation. This approach is required to have flexible and scalable network. 2. Request you to kindly modify the clause as follows: "Proposed SDWAN solution should have SDN based architecture with separate control, data and the management plane. and if management appliances/solution any of the plane goes offline the SDWAN solution should keep on functioning without any issues. Must support build in GUI or CLI as well for any onsite changes if required." 3. It is strongly recommend to consider SDWAN solution only from Gartner's leader quadrant as "Leaders" ensure the execution well against current vision and are well positioned for tomorrow. Whereas, Visionaries only have the ability to understand where the market is going or have a vision for changing market rules, but do not yet execute well. And only consider Gartner's leader quadrant for SDWAN solution as the requirement asked/ defined is only for		5. RAH InfoTech (P) Ltd (2) 6. iValue InfoSolutions Pvt. Ltd. (1) 7. Hewlett Packard Enterprise India Pvt Ltd



S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			SDWAN. You may rephrase the statement as: Proposed vendor must be placed in Leader Quadrant in Gartner SD-WAN. SD-WAN should follow the software defined principles where it is required to have control (routing/security), data (traffic forwarding) and management (NMS/Monitoring) plane separation. This approach is required to have flexible and scalable network. Suggestive Input/Change Request Proposed vendor must be placed in Leader and Challengers Quadrant in Gartner SD-WAN or leader Gartner quadrant for Enterprise Firewall or leader Gartner quadrant for Wired Networking Justification SDWAN is part of Wired Networking and hence request to add Gartner Quadrant for Wired networking as part of OEM eligibility		
886.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)- General-1/424 (4)	Proposed SDWAN solution should have management-based architecture and if management appliances/ solution goes offline the SDWAN solution should keep on functioning without any issues. Must support build in GUI as well for any onsite changes if required	1. OEM specific clause, hence request you to please amend this clause as All configuration, management, and reporting functions should be accessible Centrally located in DC and if management solution goes offline then SDWAN Edge device should keep on functioning without any issues and should have local access to appliance for changing the local IP, Management IP and port, if required	As per RFP	1. RAH InfoTech (P) Ltd 2. Forcepoint 3. iValue InfoSolutions Pvt. Ltd.



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887.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)- General-2/424 (2)	The SDWAN device should be supplied with Redundant hot swappable Fan trays/ multiple fan module and Power supply and solution shall support Ipv6 like application identification, Zone protection, management etc. from Day-1	1. You may rephrase the statement as: The SDWAN device should be supplied with Redundant hot swappable Fan trays/ multiple fan module and Power supply and solution shall support Ipv6 like application identification, Zone protection, management etc. The devices can be in High availability mode, so please allow field replacable instead of hot swappable.	As per RFP	1. VMware Software India Pvt Limited 2. Versa Networks
888.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)- SDWAN Architecture- 1/424 (1)	Proposed SDWAN solution should have management-based architecture and if management appliances/solution goes offline the SDWAN solution should keep on functioning without any issues. Must support build in GUI as well for any onsite changes if required	1. OEM specific clause, hence request you to please amend this clause as All configuration, management, and reporting functions should be accessible Centrally located in DC and if management solution goes offline then SDWAN Edge device should keep on functioning without any issues and should have local access to appliance for changing the local IP, Management IP and port, if required	As per RFP	1. Forcepoint
889.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)- SDWAN Architecture- 2/424 (5)	SDWAN Architecture 2. The bidder shall propose at least one management solution as asked above.	1. Please clarify the ask here Clarification sought - The Management Plane should be native to the solution and must support configuring, monitoring and troubleshooting WAN, Application and security policies. Is our understanding correct.	Kindly refer corrigendum	1. Forcepoint 2. Cisco 3. Sterlite Technologies Limited 4. Matrix Security & Surveillance Pvt Ltd 5. RAH InfoTech (P) Ltd 6. iValue InfoSolutions Pvt. Ltd. 7. Larsen & Toubro Ltd
890.	4.8.17 - Secured Network Devices(SD-	SDWAN Architecture 3. Management architecture should have option to be	1. Looking at the network criticality, it is suggested to have HA from Day 1. Request you to please modify the	Kindly Refer Corrigendum	1. Cisco (1,2) 2. Sterlite Technologies Limited (1)



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	WAN Gateway Router)- SDWAN Architecture- 3/424 (4)	deployed in HA if required in future.	clause as: "The Solution should have active/active HA support at all level - Control Plane, routers at DC/DR." Looking at the network criticality, it is suggested to have HA from Day 1. 2. Request you to please modify the clause as: "The Solution should have active/active HA support at all level - Control Plane, routers at DC/DR."		3. Matrix Security & Surveillance Pvt Ltd (1)
891.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)- SDWAN Architecture- 6/424 (8)	6. Management architecture should support Virtual firewall/ multi-tenancy and the proposed device shall minimally have Common Criteria and Internet Computer Security Association (ICSA) Certification and should not have any enabled wireless code in the offered device or its family in hardware or software.	1. This point is inclined towards particular OEM/ vendor. Request you to delete the point to allow the other OEMs to participate in this opportunity. 2. Kindly delete this point. SDWAN as a technologies new and growing, Hence referring to multiple Certification criteria is limiting the major players participation. Hence request you to please amend this clause as: Management architecture should support Virtual Firewall/multi-tenancy and the proposed device shall minimally have Common Criteria or Internet Computer Security Association (ICSA) Certification and should not have any wireless code in the offered device or its family in hardware or software. No work around this will be accepted. 3. Please allow NSS Recommended for security and Gartner Magic Quadrant for SD-WAN as additional criteria's, as	Kindly Refer Corrigendum	1. VMware Software India Pvt Limited (1) 2. Forcepoint (2) 3. Versa Networks 4. RAH InfoTech (P) Ltd 5. iValue InfoSolutions Pvt. Ltd. (2) 6. Cisco 7. Matrix Security & Surveillance Pvt Ltd 8. Larsen & Toubro Ltd 9. Larsen & Toubro Ltd



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			these are well known and globally accepted security capability certifications or research firms.		
892.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)- SDWAN Architecture- 9/425 (6)	9. Licensing of SD-WAN solution must be based on device capacity not on bandwidth capacity / restriction	1. Every OEM has its own business model we don't support the asked model. Further this is favouring to specific vender and restricting most of the leading OEMs to participate. Request you to please delete this clause. 2. This point seems to be very restrictive and completely dependent on hardware. In today's modern IT, everything is software driven and provides the flexibility to use the solution as per the convenience of the delivery rather than box. Anyway box cannot provide bandwidth more than provided to it. You may rephrase the statement as: 9. Licensing of SD-WAN solution must not be based on device capacity and should be based on bandwidth capacity / restriction. Benefit of SD-WAN is flexibility to scale up and pay as you grow model and very limited OEMs support this model, so request is to include bandwidth capacity based license as well Hewlett Packard Enterprise India Pvt Ltd: Suggestive Input/Change Request Licensing of SD-WAN solution must be based on device capacity or on bandwidth capacity / restriction.	Kindly Refer Corrigendum	1. Larsen & Toubro Ltd(1) 2. Cisco(1) 3. VMware Software India Pvt Limited(2) 4. Versa Networks(2) 5. Matrix Security & Surveillance Pvt Ltd(2) 6. Hewlett Packard Enterprise India Pvt Ltd



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			Required licenses shall be offered from Day 1 Justification Licensing of SDWAN solution vary between OEMs. Request to accept device based or bandwidth based licensing, considering that required licenses would be offered from Day 1		
893.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)- Security-7/425 (3)	Proposed solution must support creation of logical separate sub-domain within single physical devices to separate different kind of networks.	1. This cluse should be removed. , For best practice creation of logical separate sub-domain is on layer 3 Switch not on sd-wan Gateway.	Kindly Refer Corrigendum	1. Infinity lab 2. NEC Corporation India Pvt. Ltd. 3. Telecommunications Consultants India Limited
894.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)- Security-8/425 (1)	8. SDWAN solution should support integration with cloud based/appliance-based security solutions or should have inbuilt security features like content filtering and antivirus	1. This point is inclined towards only security OEM/ vendor. Request you to rephrase this point to allow the other OEMs to participate in this opportunity. You may rephrase the statement as: SDWAN solution should support integration with cloud based/appliance-based security solutions or should have inbuilt security features like content filtering and antivirus	Kindly Refer Corrigendum	1. VMware Software India Pvt Limited
895.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)- Operation - 1/425 (1)	It should support multi-cast network	1. Please provide details about multi-cast requirement such as PIM-SM, SSM, IGMP Version, Replication and RP support.	As per RFP	1. Versa Networks



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
896.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)- Operation - 5/425 (2)	System Must support diverse WAN like T1/E1/LTE/PPOE/DSL/Fiber/Ethernet	1. System Must support diverse WAN like LTE / PPOE /DSL / Fiber/ Ethernet T1 / E1 like connection will be part of Voice gateway not SD-WAN gateway however Infinxt SD-WAN gateway can operate with Voice gateway. System Must support diverse WAN like LTE /PPOE / DSL / Fiber / Ethernet	Kindly refer corrigendum	1. Telecommunications Consultants India Limited 2. NEC Corporation India Pvt. Ltd.
897.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)- Management- 1/426 (5)	Management solution should be appliance/VM which must support around 300 SDWAN devices at Day 1 scalable to 1000. If VM option is quoted than server should be given along with all the necessary licenses	1. All OEM's have different solution or method for the management hence request you to please amend this as clause as : Management solution should be appliance/VM/Software which must support around 300 SDWAN devices at Day 1 scalable to 1000. If VM/Software option is quoted than server or any associated OS should be given along with all the necessary licenses	Kindly Refer Corrigendum	1. iValue InfoSolutions Pvt. Ltd 2. Forcepoint 3. RAH InfoTech (P) Ltd
898.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)- Routing and QoS -2/426 (3)	Routing and QoS 2. SDWAN solution should support BGP and Static routing	1. SD-WAN at the core is routing feature, therefore request you to incorporate all industry standard routing protocol support. This will ensure the SD-WAN is able to integrate with existing network utilizing the other routing protocols such as OSPF, RIP, ISIS etc. Request you to kindly modify the clause as "SDWAN solution should support BGP and Static routing, IPv6/IPv6, DHCP (IPv6), DNS (IPv6), RIP, OSPFv3, NAT6-4, QoS, QoS-Classification, marking, shaping and policing.	As per RFP	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
899.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)- Routing and QoS -3/426 (5)	SDWAN solution should support performance SLA based on latency, packet loss, jitter or all 3 combined	1. Request you to please amend this clause for wider participation as: SDWAN solution should support performance SLA/ Application aware routing based on latency, packet loss, jitter, link Reliability or all 4 combined	As per RFP	1. Forcepoint 2. RAH InfoTech (P) Ltd 3. iValue InfoSolutions Pvt. Ltd.
900.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)- Routing and QoS -5/426 (7)	Routing and QoS 5. SDWAN solution should support rule- based routing based on Application, user, user group, source, destination or combination of any of them	1. SDN allows routing to be software defined that includes multiple routing capabilities not only the rule-based routing. Request you to please modify the clause as "SDWAN solution should support rule-based routing based on Application, user, user group, source, destination or combination of any of them, SLA Based Application Aware routing and active/active link utilization. " 2. This point is inclined towards particular OEM/ vendor. Request you to rephrase the point to allow the other OEMs to participate in this opportunity. You may rephrase the statement as: 5. SDWAN solution should support rule-based routing based on Application/ user/ user group/ source, destination or combination of any of them	As per RFP	1. Cisco (1) 2. VMware Software India Pvt Limited (2) 3. Matrix Security & Surveillance Pvt Ltd (1) 4. Sterlite Technologies Limited(1)
901.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)- Routing and QoS	SDWAN Solution should support rule creation based on Application or source address or destination address and each rule	1. Request you to please amend this clause for wider participation as: SDWAN Solution should support rule creation based on Application or source address or destination address and each rule should have option to	As per RFP	1. iValue InfoSolutions Pvt. Ltd 2. Forcepoint 3. RAH InfoTech (P) Ltd 4. Forcepoint



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	-6/426 (5)	should have option to use different performance SLA	use different performance SLA/Application sensitivity based on latency, packet loss, jitter, link Reliability or all 4 combined		
902.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)- Routing and QoS -7/426 (3)	Routing and QoS 7. SDWAN should support QoS based on application	1. It is suggested you to please incorporate the tunnel based QoS as well. Using this mechanism central site detect the other side bandwidth and adopt the QoS policy accordingly to avoid congestion at remote end. 2. In a traditional application based QoS, it has been observed that the remote site link is overloaded from the DC site traffic that has more bandwidth. Request you to please change the clause as follows: "SDWAN should support QoS based on application and tunnel-based QoS." It is suggested you to please incorporate the tunnel based QoS as well. Using this mechanism central site detect the other side bandwidth and adopt the QoS policy accordingly to avoid congestion at remote end. 3. In a traditional application based QoS, it has been observed that the remote site link is overloaded from the DC site traffic that has more bandwidth. Request you to please change the clause as follows: "SDWAN should support QoS based on application and tunnel-based QoS."	As per RFP	1. Cisco(1,2) 2. Matrix Security & Surveillance Pvt Ltd (1,2) 3. Cisco
903.	4.8.17 - Secured Network Devices(SD-WAN Gateway	SDWAN device should support FEC (Forward Error correction) and DSCP matching.	1. SDWAN device should support FEC /DSCP matching. This will help us to participate in this opportunity.	As per RFP	1. Infinity lab 2. Telecommunications Consultants India Limited



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	Router)- Routing and QoS -8/426 (3)				3. NEC Corporation India Pvt. Ltd.
904.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)- Security-10/426 (4)	SDWAN solution shall have built in feature to protect CPU under DoS/DDos attacks	1. Proposed Change : SDWAN solution shall have built in feature to protect CPU under DoS/DDos attacks to the extent of min 25 Million pps/fps	As per RFP (Minimum specifications are mentioned. Bidders are free to propose any thing over and above asked parameters.)	1. Marushika Technology Advisors Pvt. Ltd. 2. RAH InfoTech (P) Ltd 3. INTEC INFONET PVT. LTD. 4. Palo Alto Networks
905.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)- Security-11/426 (4)	Security 11. SDWAN architecture should support application identification at layer-7 and should able to identify minimum 3000 applications natively or minimum throughput as mentioned above. It should also allow to define custom applications as per requirement	1. Every OEM has it's own capability to identify an application and if application is not automatically identified, there should be option to define the application in the SD-WAN solution. Therefore request you to please modify the clause as: "SDWAN architecture should support application identification at layer-7 and should able to identify minimum 3000 applications natively or It should allow to define custom applications as per requirement."	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd 3. Larsen & Toubro Ltd
906.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)- Management- 7/427 (1)	7. Management must support IPSec wizard which can push vpn configuration to various SDWAN devices with the routing information updates.	1. Wizard based solution might lead to human errors and also time consuming activity and looks very primitive. You may rephrase the statement as: 1. The Logs and Reporting platform must be a dedicated same OEM appliance and VM/software running on server will not be accepted. Management must support automatic IPSec which can push vpn	As per RFP	1. VMware Software India Pvt Limited



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			configuration to various SDWAN devices with the routing information updates.		
907.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)-Logging & Reporting-1/427 (12)	Logging & Reporting 1. The Logs and Reporting platform must be a dedicated same OEM appliance and VM/software running on server will not be accepted.	- As part of the solution - we have data, control and management component native to the solution we don't need monitoring capability separately. However the solution has capability to integrate with 3rd Party reporting solution - therefore this clause is restricting us to participate. Request you to please delete the clause. - Consideration of dedicated appliance will definitely increase the commercials and would also be additional resource and management overhead. You may rephrase the statement as: 1. The Logs and Reporting platform must be OEM solution/ software running on same or different server. - OEM Specific clause, Hence request you to please amend this clause as: The Logs and Reporting platform must be a dedicated solution from the same OEM. If VM/Software option is quoted than server or any associated OS should be given along with all the necessary licenses - This is proprietary in nature and supported by limited OEM. As SD-WAN leverages x86 platform to provide horizontal scalability without the sprawl of proprietary hardware, request to allow use of Bare metal x86 servers for this.	Kindly Refer Corrigendum	- Cisco (1) - VMware Software India Pvt Limited (2) - Matrix Security & Surveillance Pvt Ltd (1) - Larsen & Toubro Ltd (1) - iValue InfoSolutions Pvt. Ltd. (3) - Forcepoint (3) - Versa Networks - RAH InfoTech (P) Ltd (3) - NEC Corporation India Pvt. Ltd.(3) - Hewlett Packard Enterprise India Pvt Ltd



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			Hewlett Packard Enterprise India Pvt Ltd: Suggestive Input/Change Request The Logs and Reporting solution shall be offered meeting the log/report retention requirements Justification Logs and Reporting solution for different OEMs vary. Request to allow the OEMs to offer their recommended logs/reporting solution meeting the data retention requirements		
908.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)-Logging & Reporting-3/427 (2)	3. Should have minimum 10 TB or more of Hard Drive Capacity in RAID1, for logging and reporting if provided as separate management as from firewall	1. This point is very restrictive and limited to particular sizing only. To have open and scalable solution, you may consider horizontal and vertical scalability. You may rephrase the statement as: 3. Should have minimum 10 TB or more of Hard Drive Capacity in RAID1, for logging and reporting if provided as separate management as from firewall 2. This is proprietary in nature and supported by limited OEM. As SD-WAN leverages x86 platform to provide horizontal scalability without the sprawl of proprietary hardware, request to allow use of Bare metal x86 servers for this.	As per RFP	1. VMware Software India Pvt Limited(1) 2. Versa Networks
909.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)-Logging & Reporting-	The logging Appliance should support multiple types of report format PDF, HTML, CSV and XML.	1. PDF and HTML as commonly supported report formats and CSV is used for log exports. Hence request you to please amend this clause as : The logging Appliance should support multiple types of report format PDF	As per RFP	1. Forcepoint (1) 2. VMware Software India Pvt Limited (1) 3. RAH InfoTech (P) Ltd (1) 4. iValue InfoSolutions Pvt. Ltd. (1)



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	6/427 (6)		and HTML for reporting, and CSV for log exports 2. This point is inclined towards particular OEM/ vendor. Request you to rephrase this point to allow the other OEMs to participate in this opportunity. You may rephrase the statement as: 6. The logging Appliance should support multiple types of report format PDF/ HTML/ CSV/ XML. 3. PDF and HTML as commonly supported report formats and CSV is used for log exports. Hence request you to please amend this clause as : The logging Appliance should support multiple types of report format PDF and HTML for reporting, and CSV for log exports		5. NEC Corporation India Pvt.Ltd.(1)
910.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)- Performance Parameter- 1/427 (14)	1. The SDWAN device at DC should have minimum 4x40 QSFP+/QSF28, 10x 10GE SFP+ slots and 10x GE RJ45 ports to cater to connectivity from multiple service providers. SFPs Transceivers should be populated as per solution requirement from Day1. HA ports, Console and OOB should be taken extra	1. As there are only 4x WAN links at remote site. Request you to please adjust the number of interface accordingly with spare into consideration. Please modify the clause as follows: "The SDWAN device at DC should have minimum 8x 1GE RJ45 ports Ethernet/Optical ports and 8x 10G Ethernet SFP+ ports cater to connectivity from multiple service providers and Internal LAN Connections. Console and OOB should be populated as per solution requirement from Day1."	Kindly Refer corrigendum	1. Cisco (1) 2. VMware Software India Pvt Limited (2) 3. Sterlite Technologies Limited (1) 4. Matrix Security & Surveillance Pvt Ltd (1,3) 5. Larsen & Toubro Ltd (1) 6. Hewlett Packard Enterprise India Private Limited (3) 7. Infinity lab (1,4) 8. Telecommunications Consultants India Limited (4)



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			2. This point is inclined towards particular OEM/ vendor. Request you to rephrase this point to allow the other OEMs to participate in this opportunity and also the sizing seems to be rocket high and does not even align with the requirement of project It would be appreciated if you can define the exact requirement with the scalability scope so that other OEMs/ Vendors can openly participate and deliver the solution as per the project requirement. 3. Suggestive Input/Change Request The SDWAN device at DC should have minimum 4x40 QSFP+/QSF28, 10x 10GE SFP+ slots and 10x GE RJ45 ports to cater to connectivity from multiple service providers. These 1G/10G/40G ports can be offered natively or using additional Ethernet switches to terminate links. SFPs Transceivers should be populated as per solution requirement from Day1. HA ports, Console and OOB should be taken extra Justification SDWAN Gateway Router onboard interfaces vary between OEMs and will always be limited. WAN link terminations are recommended through dedicated Ethernet switches. Request to accept additional Ethernet switches to terminate the WAN links modifying the specification accordingly		9. NEC Corporation India Pvt. Ltd. (1,4) 10. HPE (3) 11. Versa Networks (1)



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			4. The SDWAN device at DC should have minimum 8x 1GE RJ45 , 4 SFP/SFP+ ports Optical ports to cater to connectivity from multiple service providers. Console and OOB & 1 HDMI Port should be populated as per solution requirement from Day1. , This will help us to participate in this opportunity.		
911.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)- Performance Parameter- 2/427 (13)	2. Threat Prevention Throughput of 30 Gbps on enterprise mix/ Application mix and IPSec encryption throughput should be minimum 25 Gbps.	1. Suggestive Input/Change Request Threat Prevention Throughput of 30 Gbps on enterprise mix/ Application mix or through DC Security appliances and IPSec encryption throughput should be up to 10 Gbps Justification DC Security has been asked separately and request to consider the NGFW features/ performance on those dedicated devices and not on SD-WAN Gateway Router. Request to modify the IPSec throughput as WAN links typically will not be scaled beyond 10 Gbps 2. The mentioned scalability parameters are related to firewall solution not to the SD-WAN / routing solution. It is recommended to highlight the route, ACLs, VPNs scalability and the bandwidth terminated on the Edge router in the RFP. These parameters are universally accepted to evaluate WAN solution. Request you to please change the clause as "The solution should able to support 10 Gbps SD-WAN IMIX	Kindly Refer Corrigendum	1. HPE (1) 2. Cisco (2) 3. Infinity lab (1) 4. Matrix Security & Surveillance Pvt Ltd (1,2,6) 5. Telecommunications Consultants India Limited (3) 6. VMware Software India Pvt Limited (1,4) 7. Versa Networks (1) 8. HPE (1) 9. NEC Corporation India Pvt. Ltd. (3) 10. Larsen & Toubro Ltd (2) Hewlett Packard Enterprise India Private Limited



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			throughput." Threat prevention throughput of 6 Gbps on enterprise mix / application mix IPSEC throughput required 25 Gbps. This will help us to participate in this opportunity. 3. Threat prevention throughput of 6 Gbps on enterprise mix/application mix IPSEC throughput required 25 Gbps. This will help us to participate in this opportunity. 4. This point is inclined towards particular OEM/ vendor. Request you to rephrase this point to allow the other OEMs to participate in this opportunity. You may rephrase the statement as: 2. Solution should provide integration with Threat Prevention and it delivers Throughput of 30 Gbps on enterprise mix/ Application mix and IPSec encryption throughput should be minimum 25 Gbps. SD-WAN being a new technology with its adoption rate increasing as of now, such interface capacities are only supported by very limited OEM vendors by using proprietary hardware models. Instead of single pair of appliances, please allow to use of horizontal scalability to meet throughput requirement. The mentioned scalability parameters are related to firewall solution not to the SD-WAN / routing solution. It is		



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			recommended to highlight the route, ACLs, VPNs scalability and the bandwidth terminated on the Edge router in the RFP. These parameters are universally accepted to evaluate WAN solution. 5. Request you to please change the clause as "The solution should able to support 10 Gbps SD-WAN IMIX throughput." The mentioned scalability parameters are related to firewall solution not to the SD-WAN / routing solution. It is recommended to highlight the route, ACLs, VPNs scalability and the bandwidth terminated on the Edge router in the RFP. These parameters are universally accepted to evaluate WAN solution. Request you to please change the clause as "The solution should able to support 10 Gbps SD-WAN IMIX throughput." 6. Suggestive Input/Change Request Threat Prevention Throughput of 30 Gbps on enterprise mix/ Application mix or through DC Security appliances and IPSec encryption throughput should be up to 10 Gbps Justification DC Security has been asked separately and request to consider the NGFW features/performance on those dedicated devices and not on SD-WAN Gateway Router. Request to modify the IPSec throughput as WAN links		



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			typically will not be scaled beyond 10 Gbps Threat prevention throughput of 6 Gbps on enterprise mix/application mix IPSEC throughput required 25 Gbps. The mentioned scalability parameters are related to firewall solution not to the SD-WAN / routing solution. It is recommended to highlight the route, ACLs, VPNs scalability and the bandwidth terminated on the Edge router in the RFP. These parameters are universally accepted to evaluate WAN solution.		
912.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)- Performance Parameter- 3/428 (15)	3. Minimum 400K new session per second, 30Mn concurrent session, 15K Site to Site VPN Tunnels, 20K Concurrent SSL VPN Users.	1. Suggestive Input/Change Request Minimum 40K new session per second, 2Mn concurrent session, 4K Site to Site VPN Tunnels or through DC Security appliances Justification These are Firewall specifications. DC Security has been asked separately and request to consider the NGFW features/performance on those dedicated devices and not on SD-WAN Gateway Router. Request to modify the specifications accordingly 2. These are Firewall specifications. DC Security has been asked separately and request to consider the NGFW features/performance on those dedicated devices and not on SD-WAN Gateway Router. Request to modify the specifications accordingly	Kindly Refer Corrigendum	1. HPE (1) 2. Matrix Security & Surveillance Pvt Ltd (3, 4) 3. Marushika Technology Advisors Pvt. Ltd. (3) 4. Cisco (3,4) 5. RAH InfoTech (P) Ltd (3) 6. VMware Software India Pvt Limited(6) 7. Palo Alto Networks (3, 5) 8. Larsen & Toubro Ltd(4) 9. INTEC INFONET PVT. LTD. (3,5) 10. Hewlett Packard Enterprise India Private Limited (1) 11. Versa Networks



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			3. Proposed Change : Minimum 600K new session per second, 30Mn concurrent session, 15K Site to Site VPN Tunnels, 20K Concurrent SSL VPN Users. Justification : For the asked throughput and the considering the amount of traffic it is recommended that higher CPS value may be asked for 4. The mentioned scalability parameters are related to firewall solution not to the SD-WAN / routing solution. It is recommended to highlight the route, ACLs, VPNs scalability and the bandwidth terminated on the Edge router in the RFP. These parameters are universally accepted to evaluate WAN solution. Request you to please change the clause as "The solution should support 64 VRF domains." 5. Proposed Change : Minimum 600K new session per second, 30Mn concurrent session, 15K Site to Site VPN Tunnels, 20K Concurrent SSL VPN Users. Justification : For the asked throughput and the considering the amount of traffic it is recommended that higher CPS value may be asked for 6. This point is inclined towards particular OEM/ vendor. Request you to rephrase this point to allow the other OEMs to participate in this opportunity. It would be appreciated if you can		



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			define the exact requirement with the scalability scope so that other OEMs/ Vendors can openly participate and deliver the solution as per the project requirement. 7. The mentioned scalability parameters are related to firewall solution not to the SD-WAN / routing solution. It is recommended to highlight the route, ACLs, VPNs scalability and the bandwidth terminated on the Edge router in the RFP. These parameters are universally accepted to evaluate WAN solution. Request you to please change the clause as "The solution should support 64 VRF domains."		
913.	4.8.17 - Secured Network Devices(SD-WAN Gateway Router)- Performance Parameter- 4/428 (3)	The device should have Internal Redundant Power Supplies and redundant hot swappable fan trays	1. Suggestive Input/Change Request The device should have Internal Redundant Power Supplies Justification Appliances are deployed in redundancy hence request to remove fan tray redundancy from each appliance. The device should have Internal Redundant Power supplies Appliances are deployed in redundancy hence request to remove fan tray redundancy from each appliance. The devices can be in High availability mode, so please allow field replaceable instead of hot swappable.	Kindly Refer Corrigendum	1. HPE(1,2) 2. Matrix Security & Surveillance Pvt Ltd(1) 3. Versa Networks 4. Hewlett Packard Enterprise India Private Limited(1)



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			2. Suggestive Input/Change Request The device should have Internal Redundant Power Supplies Justification Appliances are deployed in redundancy hence request to remove fan tray redundancy from each appliance.		
914.	4.8.17 - IPPBX - A -1/431 (3)	The system should be based on server-gateway architecture running on Linux OS supporting Analog, Digital, IP, SIP and Wireless Extensions.	1. Digital Telephony is an old technology and not supported now and PBXs are now support IP Technology, hence request you to kindly change the clause as "The system should be based on server-gateway architecture running on Linux OS supporting Analog, IP, SIP and Wireless Extensions."	As per RFP (The proposed exchange should work seamlessly with Delhi Police IP based exchanges [Model Number:NEC SV9100, corol IRIS iV DX])	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
915.	4.8.17 - IPPBX - A -2/431 (3)	System shall be non-blocking and open standard (based on H.323 and SIP). The call control system should be fully redundant solution and should provide 1:1 redundancy.	1. System shall be non-blocking and open standard (based on H.323 or SIP). The call control system should be fully redundant solution and should provide 1:1 redundancy.	As per RFP	1. Marushika Technology Advisors Pvt. Ltd. 2. INTEC INFONET PVT. LTD. 3. Transline Technologies Pvt. Ltd.
916.	4.8.17 - IPPBX - A -4/431 (6)	The server should have the following minimum specifications in Virtual or physical environment: 12 cores @ 2.4 GHz base, 32 GB RAM, 3Gbps network connectivity	1. The Device should be an appliance based System to get maximum output with minimum uses of resources. As an industry practice, appliance based IPPBX system is recommended. The virtual environment sfor IPPBX functioning will not be reliable enough in such multi- centered project. Henceforth, it is requested to kindly allow appliance based system as an option with the specifications to meet	Kindly refer corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. Cisco 3. INTEC INFONET PVT. LTD. 4. Matrix Security & Surveillance Pvt Ltd 5. Transline Technologies Pvt. Ltd.



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			the RFP need and the SLAs. 1Gbps network connectivity can support more than 3000 extensions, hence request you to kindly change the clause as "The server should have the following minimum specifications in Virtual or physical environment: 12 cores @ 2.4 GHz base, 32 GB RAM, 1 Gbps network connectivity."		
917.	4.8.17 - IPPBX - A -5/431 (3)	The system should be capable of deployment on virtualized platforms like VMWare/Hyper-V etc.	1. The Device should be an appliance based System to get maximum output with minimum uses of resources as VMWare and Other platform installations are not reliable enough. As an industry practice, appliance based IPPBX system is recommended. The virtual environment for IPPBX functioning will not be reliable enough in such multi- centered project. Henceforth, it is requested to kindly allow appliance based system as an option with the specifications to meet the RFP need and the SLAs.	Kindly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. Transline Technologies Pvt. Ltd. 3. INTEC INFONET PVT. LTD.
918.	4.8.17 - IPPBX - A -6/431 (3)	System should provide call control, mobility, IM and presence, Web-Collaboration, Messaging and centralized licensing.	1. Web Collaboration is a part of Video Conferencing Solution and not IP Telephony. However the IP Telephone solution can be integrated with Standard based Web Conferencing Solutions. kindly modify the clause as "System should support mobility, IM and presence, Messaging and centralized licensing"	As per RFP: MSI can quote single solution or in line with specification ask using integration for web collaboration.	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
919.	4.8.17 - IPPBX - A -20/432 (1)	System should have in built-in DHCP Server, which	1. DHCP is used for assigning Dynamic IP to all the devices in the LAN network and is a totally different component	As per RFP (MSI are free to propose better solutions over and above the minimum	1. Sterlite Technologies Limited



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		should be able to give IP Addresses to the endpoints.	than IP PBX. Hence we request you to remove this clause from IPPBX	requirements and specifications outlined in the RFP.)	
920.	4.8.17 - IPPBX - A - 21/432 (1)	System should support built-in Remote access server (RAS) functionality.	1. Kindly Elobrate on the use-case to be achieved	As per RFP	1. Sterlite Technologies Limited
921.	4.8.17 - IPPBX - A - 24/432 (3)	System should support WebRTC based application for Web Collaboration users for Windows and Mac OS	1. Web Collaboration is a part of Video Conferencing Solution and not IP Telephony. However the IP Telephone solution can be integrated with Standard based Web Conferencing Solutions. Hence request you to kindly remove this clause	As per RFP: MSI can quote single solution or in line with specification ask using integration for web collaboration.	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
922.	4.8.17 - IPPBX - A - 10/432 (3)	System should have built-in SIP and H.323 gatekeeper functionality without the need to put any additional hardware	1. System should have built-in SIP/ H.323 gatekeeper functionality without the need to put any additional hardware. It is requested to include SIP (Session Initiation Protocol)- signalling protocol used to establish a "session" between 2 or more participants, modify that session, and eventually terminate that session. The fact that SIP is an open standard has sparked enormous interest in the telephony market with high results of meeting the desired results. Henceforth, please include this with H.323 as an option for OEMs.	As per RFP	1. Marushika Technology Advisors Pvt. Ltd. 2. Transline Technologies Pvt. Ltd. 3. INTEC INFONET PVT. LTD.
923.	4.8.17 - IPPBX - A - 13/432 (1)	The system should provide complete inbuilt encryption capabilities or features without any external firewall, with the ability to encrypt all traffic (media and	1. Clause is restricting the latest Security technologies prevalent in the industry. Now a days in-bulilt encryption are obsolete. For VOICE Security SBC/Gateway is the standard & industry wide accepted option. Kindly	Kindly refer corrigendum	1. Sterlite Technologies Limited



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		call control signaling) between IP phones, soft phones, call controllers and all other associated endpoints via a strong encryption algorithm like IPSec or SRTP etc.	amend this clause with "The IP PBX system should provide complete inbuilt encryption capabilities or features with SBC/Gateway, with the ability to encrypt all traffic (media and call control signalling) between IP phones, soft phones, call controllers and all other associated endpoints via a strong encryption algorithm like IP Sec or SRTP etc."		
924.	4.8.17 - IPPBX - A -15/432 (3)	The system should support BRI/ PRI/ T1/ E1/Analog/IP/SIP Trunks.	1. BRI as its not supported as of now and moreover BRI's have been phased out by the Service Providers as well, hence request you to kindly modify the clause as "The system should support PRI/ T1/ E1/Analog/IP/SIP Trunks."	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco
925.	4.8.17 - IPPBX - A -18/432 (3)	The system should be able to provide hybrid end points i.e. both IP and TDM. They should also provide support for 100% TDM endpoints.	1. An IP PBX is meant for IP Telephony, which support of TDM as well. However, 100% Extensions cannot be TDM. Hence request you to kindly modify the clause as "The system should be able to provide hybrid end points i.e. both IP and TDM."	As per RFP	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
926.	4.8.17 - IPPBX - A -19/432 (3)	The proposed communication system should have a highly secured, encrypted IP supporting hybrid Trunks e.g. Analog CO, Digital Trunks (BRI and PRI), IP Trunks (H.323/SIP)	1. BRI as its not supported as of now and moreover BRI's have been phased out by the Service Providers as well, hence request you to kindly modify the clause as "The proposed communication system should have a highly secured, encrypted IP supporting hybrid Trunks e.g. Analog CO, Digital Trunks (PRI), IP Trunks (H.323/SIP)"	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco



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927.	4.8.17 - IPPBX - A -7/432 (3)	The system should support standards-based multi-site networking, using QSIG, H.323 trunks or advanced networking, to interoperate with other PABX's, allowing feature transparency	1. The system should support standards-based multi-site networking, using QSIG, H.323/SIP trunks or advanced networking, to interoperate with other PABX's, allowing feature transparency. It is requested to include SIP (Session Initiation Protocol)- signalling protocol used to establish a "session" between 2 or more participants, modify that session, and eventually terminate that session. The fact that SIP is an open standard has sparked enormous interest in the telephony market with high results of meeting the desired results. Henceforth, please include this with H.323 as an option for OEMs.	Kindly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. Transline Technologies Pvt. Ltd. 3. INTEC INFONET PVT. LTD.
928.	4.8.17 - IPPBX - B -11/433 (1)	Toggle Calls	1. Kindly Provide a brief description for each of this listed features as different Make IP PBX may have different terminology but the use cases may be achievable. Most of this terminology is Avaya Specific. We request you to make It more generic so that OEM's of Indian Make can participate	As per RFP	1. Sterlite Technologies Limited
929.	4.8.17 - IPPBX - B -12/433 (1)	Account Codes		NA	1. Sterlite Technologies Limited
930.	4.8.17 - IPPBX - B -14/433 (1)	Bridged Appearance		NA	1. Sterlite Technologies Limited
931.	4.8.17 - IPPBX - B -17/433 (1)	Mobile Twining		NA	1. Sterlite Technologies Limited



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932.	4.8.17 - IPPBX - B -18/433 (1)	Multiple Appearance Directory Number (MADN)		NA	1. Sterlite Technologies Limited
933.	4.8.17 - IPPBX - B -19/433 (1)	Intrusion Warning Tone		NA	1. Sterlite Technologies Limited
934.	4.8.17 - IPPBX - B -12/433 (1)	Account Codes		NA	1. Sterlite Technologies Limited
935.	4.8.17 - IPPBX - B -14/433 (1)	Bridged Appearance		NA	1. Sterlite Technologies Limited
936.	4.8.17 - IPPBX - B -17/433 (1)	Mobile Twining		NA	2. Sterlite Technologies Limited
937.	4.8.17 - IPPBX - B -28/433 (4)	SMDR (Station Messaging Detail Record)	1. The feature is not supported and will not impact the desired functionality, hence request you to kindly remove the same.	Kindly refer corrigendum	1. Sterlite Technologies Limited 2. Cisco 3. Matrix Security & Surveillance Pvt Ltd
938.	4.8.17 - IPPBX - B -44/434 (4)	Flexible numbering plan – Support up-to 2-15 Digit for an extension number and allow phone number assigned to a station to a station to be changed through software.	1. 2-15 digit for extension are not supported by leading OEMs and 4-5 digit extension number will meet the 3000 extensions, hence request you to kindly modify the clause as "Flexible numbering plan – Support up-to 2-12 Digit for an extension number and allow phone number assigned to a station to a station to be changed through software." Industry Wide accepted standard for Extension Numbers is 2 - 10 digits. We request to change it to the same 2. 2-15 digit for extension are not supported by leading OEMs and 4-5	Kindly refer corrigendum	1. Cisco 2. Sterlite Technologies Limited 3. Matrix Security & Surveillance Pvt Ltd Cisco



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			digit extension number will meet the 3000 extensions, hence request you to kindly modify the clause as "Flexible numbering plan – Support up-to 2-12 Digit for an extension number and allow phone number assigned to a station to a station to be changed through software."		
939.	4.8.17 - IPPBX - B -48/435 (1)	Web collaboration for desktop and application collaboration, whiteboarding and document sharing. It should be possible to escalate from an audio call to web collaboration. It should provide a document library possible to upload documents, presentations and pictures to a document library for quickly sharing during a web collaboration session.	1. We understand that IP-PBX should be capable of Integrating with existing web-collabration tool. Existing Web collaboration tool will provide whiteboarding and document sharing and SLA management of Queries. Kindly validate our understanding or provide a better clarity	Kindly Refer Corrigendum	1. Sterlite Technologies Limited
940.	4.8.17 - IPPBX - C/435 (3)	C: Voice Gateway E: Trunk Support	1. There is no mention of number of E1 PRI card required for connectivity with PSTN service Provider. Hence request to mention as per below suggestion: Voice Gateway should be equipped with 4 E1 PRI in 2 Voice Gateway for redundancy	Kindly refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd 2. PruTech Solutions India Pvt. Ltd. 3. Bodhtree
941.	4.8.17 - IPPBX - C -10/435 (2)	For a seamless integration GW should be of same make of IPPBX	1. This is a proprietary feature and Restricts competitive bidding. We request you to change the clause to IPPBX should be able to seamlessly integrate with Voice gateway of Different Make. This will not only give	Kindly refer corrigendum	1. Sterlite Technologies Limited(1) 2. EFKON India Pvt. Ltd (2)



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			cost effective solution but also the best of the gateway solution from leaders in the industry 2. please revise the clause to: seamless integration with IPPBX		
942.	4.8.17 - IPPBX - D -3/435 (3)	Digital Phones	1. Digital Telephony is an old Technology. As PBXs now Support IP Technology, Digital Telephony Technology is not supported. Hence request you to please remove the same.	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco
943.	4.8.17 - IPPBX - E -4/435 (3)	BRI	1. BRI as its not supported as of now and moreover BRI's have been phased out by the Service Providers as well, hence request you to kindly remove the clause	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
944.	4.8.17 - IPPBX - E -5/435 (3)	T1/ E1/ E1R2	1. E1 R2 is not supported now by major OEMs, hence request you to kindly change the clause as "T1/E1"	As per RFP	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco
945.	4.8.17 - IPPBX - F - 6/435 (3)	VM should support text-to-Speech functionality	1. Kindly remove the clause as feature is not supported by major OEMs	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
946.	4.8.17 - IPPBX - F - 7/435 (3)	VM should support Dial-by-Name functionality	1. Kindly remove the clause as feature is not supported by major OEMs	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco
947.	4.8.17 - IPPBX - G - 1/436 (1)	The campus will have various departments each with a capacity of 50- 60 people. Each department can have it conference call. 6-7 such departments can have parallel calls at any given	1. The campus will have various departments each with a capacity of 50- 60 people. Each department can have it conference call. 6-7 such departments can have parallel calls at any given time. So, system should have built-in Ad-Hoc or Meet-Me audio	Kindly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd.(1) 2. Transline Technologies Pvt. Ltd.(1) 3. Sterlite Technologies Limited



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		time. So, system should have built-in 64*8 party Ad-Hoc or Meet-Me audio conferencing bank from day 1.	- conferencing bank from day 1. 64*8 party is a specific term used which is restrictive. Kindly use 'built in Adhoc feature' to meet the objective. - The campus will have various departments each with a capacity of 50- 60 people. Each department can have it conference call. 6-7 such departments can have parallel calls at any given time. So, system should have built-in Ad-Hoc or Meet-Me audio conferencing bank from day 1 Kindly Let us know the number of PRI users and Extentions required Ideally 64*8=512 Means 512 Extentions would be required. - One PRI line Supports 30 Concurrent Calls. So more than 17 PRI lines would be required to achieve this capacity		4. INTEC INFONET PVT. LTD.(1)
948.	4.8.17 - IPPBX - J - 1/437 (3)	2.8" (diagonal) color display—320 x 240 pixels	As these are the normal Audio Phones, hence norms are to be provided with mono display. Also, Color display phone will inflate the cost. Kindly modify the same as "2.8" (diagonal) display - 320 x 240 pixels"	Kindly Refer Corrigendum	- Cisco - Matrix Security & Surveillance Pvt Ltd - Cisco
949.	4.8.17 - IPPBX - J - 11/437 (3)	IC call alerting with 360—degree visibility	This feature is not supported an for broader participation, request you to kindly delete this clause	Kindly refer corrgiendum	- Cisco - Matrix Security & Surveillance Pvt Ltd
950.	4.8.17 - IPPBX - J - 19/437 (6)	Standards—based codec support: G.711, G.726, G.729A / B, G.722, Opus	G.726 and OPUS are not supported and for broader participation, kindly change the clause as "Standards—based codec support: G.711, G.729A / B, G.722"	Kindly refer corrgiendum	- Cisco - Matrix Security & Surveillance Pvt Ltd



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951.	4.8.17 - IPPBX - J - 2/437 (3)	Multiple line phone with four red / green line / feature indicators around display	1. Four different colors are not supported hence request you modify the clause as "Multiple line phone with red/ green line / feature indicators around display"	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
952.	4.8.17 - IPPBX - J - 5/437 (6)	LEDs for speaker, mute, headset, message, history	1. This Clause should be deleted LEDs for speaker, mute, headset, message, history is highly restrictive and a highly customized requirement. Specific to OEM. 2. Please consider Visual Displays as an alternate to LED, As LED is not supported for all functions, hence request you to kindly modify the clause as "LEDs/Visual Displays for speaker, mute, headset, message, history"	Kindly refer corrigendum	1. Marushika Technology Advisors Pvt. Ltd. (1) 2. Cisco (2) 3. Matrix Security & Surveillance Pvt Ltd (2) 4. Transline Technologies Pvt. Ltd. (1) 5. INTEC INFONET PVT. LTD. (1)
953.	4.8.17 - IPPBX - J - 8/437 (3)	Ergonomic hearing aid compatible handset supports TTD acoustic coupler	1. TTD acoustic coupler as the same is not supported hence request you to kindly modify the clause as "Ergonomic hearing aid compatible handset"	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
954.	4.8.17 - IPPBX - K - 1/437 (3)	8" Capacitive Touch color display	1. 8" and Touch Screen is not supported on Video Phone and for broader participation, kindly change the clause as "5" Capacitive color display"	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
955.	4.8.17 - IPPBX - J - 16/437 (3)	PoE Class (IEEE 802.3af) registers as class 1 device and supports 802.3az	1. 802.3az as its not supported and for broader participation, kindly change the clause as "PoE Class (IEEE 802.3af) registers as class 1/2/3/4 device"	As per RFP	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco
956.	4.8.17 - IPPBX - K - 11/438 (6)	1X USB Type-C port or higher	1. Phone Supports USB Port and for broader participation, kindly change the clause as	Kindly refer corrigendum	1. Cisco 2. Marushika Technology Advisors Pvt. Ltd.



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			"1XUSB port or higher" 1X USB port Kindly make it 1 USB port only, else type 'C' will make it highly restrictive.		3. INTEC INFONET PVT. LTD. 4. Matrix Security & Surveillance Pvt Ltd 5. Transline Technologies Pvt. Ltd.
957.	4.8.17 - IPPBX - K -13/438 (3)	Power over Ethernet EEE 802.3af (Class 3) or 802.3at (Class 4)	1. Power over Ethernet EEE 802.3af (Class 3)	As per RFP	1. Marushika Technology Advisors Pvt. Ltd. 2. Transline Technologies Pvt. Ltd. 3. INTEC INFONET PVT. LTD.
958.	4.8.17 - IPPBX - K -16/438 (3)	Downloadable Wallpapers	1. This feature is not supported and for broader participation, request you to kindly delete this clause	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
959.	4.8.17 - IPPBX - K -17/438 (3)	End users can install third party applications on Google Play store. The system administrator can restrict installation of certain applications	1. This feature is not supported and for broader participation, request you to kindly delete this clause	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
960.	4.8.17 - IPPBX - K -18/438 (3)	16 GB flash memory	1. This feature is not supported and for broader participation, request you to kindly delete this clause	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
961.	4.8.17 - IPPBX - K -21/438 (3)	Wireless Support - optional: should support wireless access point mode, 5GHz Wireless 802.11a/b/g/n/ac, Hotspot	1. Hotspot and Wireless access point feature is not supported and for broader participation, kindly change the clause as "Wireless Support - optional: 5GHz Wireless 802.11a/b/g/n/ac"	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
962.	4.8.17 - IPPBX - N - 1/439 (3)	Video Standards: H.263, H.264, H.265	1. Video Standards: H.263/H.264, H.265 as H.263 is obsolete now. It is requested to keep H.263 as a option, as it is an obsoleted frature now.	Kindly refer corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. INTEC INFONET PVT. LTD. 3. Transline Technologies Pvt. Ltd.
963.	4.8.17 - IPPBX - N - 2/439 (3)	The Video Conferencing unit should support inbuilt 1+8 Full HD Multi Party Conferencing	1. The VC Endpoint supports 1+3 HD Multiparty. Also External MCU Is asked in the solution for multiparty calls, Inbuilt MCU is not required on the endpoint. Hence for broader participation, kindly change the clause as "The Video Conferencing unit should support inbuilt 1+3 HD Multi Party Conferencing"	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco
964.	4.8.17 - IPPBX - N - 3/439 (3)	Should support 30 fps & 60fps (frames per second) with 1080p resolution from day one	1. Should support 30 fps/60fps (frames per second) with 1080p resolution from day one. Please make 30fps or 60 fps at the intended resolution. Compliance to both simultaneously is restricitive and favoring an OEM.	Kindly refer corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. INTEC INFONET PVT. LTD. 3. Transline Technologies Pvt. Ltd.
965.	4.8.17 - IPPBX - N - 8/439 (3)	Video Input: Should have at least one HD video Input to connect HD camera with full functionalities as mentioned in the camera specifications	1. Video Input: Should have at least one HD video Input to connect HD camera with full functionalities as mentioned in the camera specifications or should have an inbuilt camera. It is requested to consider an option of inbuilt camera feature. The inbuilt camera will provide ease of operations with immediate and urgent availability of camera and will ensure better maintenance towards the SLAs	Kindly refer corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. INTEC INFONET PVT. LTD. 3. Transline Technologies Pvt. Ltd.



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966.	4.8.17 - IPPBX - N - 9/439 (3)	Should have DVI (Digital Video Interface) input to connect PC / Laptop directly to the Video conferencing system and display resolutions WXGA / HD720p along with PC Audio	1. DVI is no more supported on VC Endpoints. We request to consider HDMI instead. Hence for broader participation, kindly change the clause as "Should have DVI (Digital Video Interface)/HDMI input to connect PC / Laptop directly to the Video conferencing system and display resolutions WXGA / HD720p along with PC Audio"	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
967.	4.8.17 - IPPBX - N - 16/440 (3)	Camera: Minimum of 12X Optical zoom	1. 12x Optical Zoom is not supported, hence for broader participation, kindly change the clause as "Camera: Minimum of 10X Optical zoom"	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco
968.	4.8.17 - IPPBX - O - 8/440 (3)	Should support H.263, H.263+, H.263++, H.264, WebRTC video algorithms	1. Should support H.263/H.263+/H.26++/ H.264, WebRTC video algorithms. It is requested to keep H.263 as a option, as it is an obsoleted frature now.	Kindly refer corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. INTEC INFONET PVT. LTD. 3. Transline Technologies Pvt. Ltd.
969.	4.8.17 - Workstations with single Monitor 24" for Management-Workstation - 1/442 (1)	i. Workstation with single Monitor 24" for Management Intel Xeon Processor, 8 Cores, 16 MB Cache, 3.8Ghz base frequency, 4.7 Ghz Turbo frequency or higher processor	1. AMD Ryzen / Intel Xeon Processor, 8 Cores, 16MB Cache, 3.6Ghz base frequency or better AMD 500 Chipset / AMD WRX80 Chipset / Intel Workstation Chipset 400 Series or higher Minimum "2" PCIe x16 Gen4; "1" PCIe x1 Gen3; "2" M.2 Slot PCIe Gen4 or more 5 - USB 3.1 Type-A / Type-C or more 1 - Audio Jack/ Microphone & Headphone	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd



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			4 - DisplayPort 2 - RJ45 Network Connector		
970.	4.8.17 - Workstations with single Monitor 24" for Management-Workstation - 11/442 (1)	i. Workstation with single Monitor 24" for Management Minimum "1" PCIe x16 Gen3; "2" PCIe x4/x8 Gen3; "1" M.2 or more	1. AMD Ryzen / Intel Xeon Processor, 8 Cores, 16MB Cache, 3.6Ghz base frequency or better AMD 500 Chipset / AMD WRX80 Chipset / Intel Workstation Chipset 400 Series or higher Minimum "2" PCIe x16 Gen4; "1" PCIe x1 Gen3; "2" M.2 Slot PCIe Gen4 or more 5 - USB 3.1 Type-A / Type-C or more 1 - Audio Jack/ Microphone & Headphone 4 - DisplayPort 2 - RJ45 Network Connector	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd
971.	4.8.17 - Workstations with single Monitor 24" for Management-Workstation - 13/442 (1)	i. Workstation with single Monitor 24" for Management 4 - USB 3.1 1 - USB 3.1 Type C 1 - Audio Jack/ Microphone & Headphone 4 - DisplayPort 2 - RJ45 Network Connector	1. AMD Ryzen / Intel Xeon Processor, 8 Cores, 16MB Cache, 3.6Ghz base frequency or better AMD 500 Chipset / AMD WRX80 Chipset / Intel Workstation Chipset 400 Series or higher Minimum "2" PCIe x16 Gen4; "1" PCIe x1 Gen3; "2" M.2 Slot PCIe Gen4 or more 5 - USB 3.1 Type-A / Type-C or more 1 - Audio Jack/ Microphone & Headphone 4 - DisplayPort 2 - RJ45 Network Connector	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd



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972.	4.8.17 - Workstations with single Monitor 24" for Management- Workstation - 4/442 (1)	i. Workstation with single Monitor 24" for Management Intel Workstation Chipset 400 Series or higher	1. AMD Ryzen / Intel Xeon Processor, 8 Cores, 16MB Cache, 3.6Ghz base frequency or better AMD 500 Chipset / AMD WRX80 Chipset / Intel Workstation Chipset 400 Series or higher Minimum "2" PCIe x16 Gen4; "1" PCIe x1 Gen3; "2" M.2 Slot PCIe Gen4 or more 5 - USB 3.1 Type-A / Type-C or more 1 - Audio Jack/ Microphone & Headphone 4 - DisplayPort 2 - RJ45 Network Connector	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd
973.	4.8.17 - Layer 2 Network Switch 24 Ports - 11/443 (5)	Should support UDLD, STP, RSTP, MSTP.	1. Request to include MACSec It is submitted that the RFP demands a highly complex network topology wherein the data flow has to be secured through adequate preventive measure for middle way attack in the data carrying media. MAC to MAC binding of the ports through MAC Sec protocol will ensure the data dycryption and accessibility will happen at the defined destination only within the DC and the outside public environment. In the desired public deployment the security parameters the breach of authorized accessability (MITM) is highly probable through middle way attacks which is not only to be monitored however prevented. Henceforth, it is recommended to consider MAC Sec protocol on all ports of the switches in project interest.	As per RFP (MSI are free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP.)	1. Alcatel Lucent Enterprise (1) 2. iValue InfoSolutions Pvt. Ltd. (2) 3. Techspire Services Pvt. Ltd. (1) 4. Online Micro Services Private Limited (1)



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			2. Request to include MACSec MACSec is important to prevent man-in-the middle attack		
974.	4.8.17 - Layer 2 Network Switch 24 Ports - 14/443 (1)	Should support SFPs for 10km, 80km distance	1. Suggestive Input/Change Request Should support SFPs for 10km, 70km distance Justification 70Km is the LH standard distance support. Request to modify the specification as requested	Kindly refer corrigendum	1. Hewlett Packard Enterprise India Private Limited
975.	4.8.17 - Layer 2 Network Switch 24 Ports -2/443 (1)	Should have 24 x 10/100/1000 Base-T ports & 2xSFP+ ports. 2x single mode 1GbE transceivers to be provided in switch	2. Please specify the type of 2x single mode 1GbE transceivers i.e. LX (10 Kms) or EX (40 Kms)?	As per RFP	1. Sterlite Technologies Limited
976.	4.8.17 - Layer 2 Network Switch 24 Ports -3/443 (9)	3. Should have min. 190Watt PoE budget. Stacking cables to be included in each switch.	1. Current trends in PoE technology is PoE+ or higher and PoE switch may not cater the power need of future devices. Also, stacking bandwidth is also requires to be defined in order to have latest generation switches which will have longer support duration and will be beneficial for project in longer run. Kindly modify the clause as "Should have min. 350Watt PoE+ budget and dedicated slot for modular stacking, in addition to asked uplink ports. Should support for minimum 48 Gbps of stacking throughput with 8 switch in single stack." 2. Points 3 and 19 contradicting each other. Kindly clarify what is the	As per RFP	1. Cisco (1) 2. Larsen & Toubro Ltd Matrix Security & Surveillance Pvt Ltd (1) 3. Alcatel Lucent Enterprise (3) 4. iValue InfoSolutions Pvt. Ltd (3) 5. Techspire Services Pvt. Ltd. (3) 6. Online Micro Services Private Limited (3)



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			minimum PoE budget to be considered 3. This contradicts Point 19 (130w) Request to increase the power budget to 380w. It is submitted that the future devices will fetch power from the switch ports only. There will be minimal requirement of AC supply so as to not incur recurring power charges. The PoE budget for L2 switch at DC is requested to be kept at 380W to cater to the scalable and future needs on this new Data Center infrastructure to meet the long term requirements. 4. All future devices will be PoE powered and not AC powered. So this is mandatory requirement 5. It is submitted that the future devices will fetch power from the switch ports only. There will be minimal requirement of AC supply so as to not incur recurring power charges. The PoE budget for L2 switch at DC is requested to be kept at 380W to cater to the scalable and future needs on this new Data Center infrastructure to meet the long term requirements.		
977.	4.8.17 - Layer 2 Network Switch 24 Ports -6/443 (3)	6. Should have 1GB Flash & 1GB CPU memory	1. As per current trends, the memory ask may not be able to meet the future demand or load requirement and can lead to poor network performance, hence for project beneficial in longer run, please change the clause as	Kindly Refer Corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd



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			"Should have min 2GB Flash & min 2GB CPU Memory"		
978.	4.8.17 - Layer 2 Network Switch 24 Ports -7/443 (1)	Should support 64 LAG, load balancing, double VLAN tagging.	1. Suggestive Input/Change Request Should support 32 LAG, load balancing, double VLAN tagging or VxLAN encapsulation." Justification For a 24-Port switch, 64 LAG groups are not desired. Also, VxLAN is the latest technology to create multiple virtual networks. Request to modify the specification as requested	Kindly refer corrigendum	1. Hewlett Packard Enterprise India Private Limited
979.	4.8.17 - Layer 2 Network Switch 24 Ports -8/443 (1)	Should have dual firmware images on board. USB port for easy config & firmware image upload	1. Suggestive Input/Change Request Should have dual firmware images on board. Justification Since this is switch will be deploy at end user location, where are unsupervised location. When a USB or any other portable device is used in an unsupervised way on your network, it can lead to data theft or the introduction of viruses. Hence for security point of view USB port should not required. Request you to kindly remove USB port for switch.	Kindly Refer Corrigendum	1. Hewlett Packard Enterprise India Private Limited
980.	4.8.17 - Layer 2 Network Switch 24 Ports -9/443 (1)	Should support Time Based ACLs, MAC based ACLs from day 1.	1. Suggestive Input/Change Request Should support Time Based ACLs via RADIUS, MAC based ACLs from day 1 Justification Time based and context based access policies are deployed via AAA/RADIUS integration in any large	As per RFP(MSI & OEM can implement time based ACLs via AAA/RADIUS)	1. Hewlett Packard Enterprise India Private Limited



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			network. Request to modify the specification as requested		
981.	4.8.17 - Layer 2 Network Switch 24 Ports-10/443 (3)	10. Should have Flow based QoS, DiffServ, port based QoS, WRR, strict queue scheduling	1. Every OEM has different approach to meet the desired QoS, Therefore request you to kindly change the clause as "Should have Flow based QoS or equivalent, DiffServ, port based QoS, WRR, strict queue scheduling"	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
982.	4.8.17 - IP Phone /444 (3)	IP Phones (IP Phones Specification)	1. IP Phones Specification mentioned for e-NOC will be registered to IPPBX system mentioned in Data Center and also specification of IP PHONE TYPE 1&2 as given below ref: Page - 431-441 (h. IPPBX) Page - 437 (J: IP PHONE TYPE 1) Page - 437 (K: IP PHONE Type 2) These two specifications are different but since these IP Phones will work with IPPBX, Hence request to mention that 2. IP Phones Specification mentioned in this section should comply to the specification mentioned under IPPBX section IP PHONE TYPE 2, for seamless working of IP Phones with IPPBX	As per RFP (It should be able to integrate and all features should be transparent with existing IP EPBX of Delhi Police NEC SV9100, Corol IRIS iV DX)	1. Matrix Security & Surveillance Pvt Ltd (1,2) 2. PruTech Solutions India Pvt. Ltd. (1,2) 3. Bodhtree (1,2)
983.	4.8.17 - IP Phone -1/444 (3)	Protocols/Standards : SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, TELNET, TFTP, NTP, STUN,	1. Telnet and PPPoE protocols are not supported due to changing technologies and removal of the same will not impact the desired functionality. Hence in order to have broader participation, kindly change	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd



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		SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, IPV6	the clause as "Protocols/Standards : SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, TFTP, NTP, STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, IPV6"		
984.	4.8.17 - IP Phone -12/444 (3)	Input:100-240V; Output: +12V, 0.5A. Integrated Power-over-Ethernet (802.3af), Max power consumption: 6.4W (power adapter) or 6.49W (PoE)	1. The Phone draws 6.5 W PoE, hence kindly modify the clause as "Input:100-240V; Output: +12V, 0.5A. Integrated Power-over-Ethernet (802.3af), Max power consumption: 6.4W (power adapter) or 6.5W (PoE)"	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
985.	4.8.17 - Layer 2 Network Switch 24 Ports - 19/443 (3)	19. Switch should have min. 130Watt PoE budget	1. This clause is in contradiction to clause 3, hence request you to kindly modify the same as "Should have min 350Watt PoE+ budget"	Kindly Refer Corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco
986.	4.8.17 - IP Phone -5/444 (3)	5. Feature Keys 8-line keys with up to 4 SIP accounts 4. Bluetooth Yes, integrated	1. 4 SIP accounts are not supported and proprietary to single OEM and not required because of security reasons as each IP phone should be defined with single SIP account and single extension only. Hence request for below changes: Feature Keys 4-line keys with 1 SIP account Bluetooth optional/not required	Kindly refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd 2. PruTech Solutions India Pvt. Ltd. 3. Bodhtree
987.	4.8.17 - IP Phone -6/444 (3)	Video Codec : Support for G.729A/B, G.711μ/a-law, G.726, G.722(wide-band), in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)	1. The Codecs mentioned are Audio Codecs and not the Video Codecs. Kindly clarify. Further, G.726 is also not supported due to changing technologies an removal of the same will not impact the desired functionality, hence we request you to please remove G.726	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd



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			from the clause and modify the clause as "Audio Codec : Support for G.729A/B, G.711μ/a-law, G.722(wide-band), in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)"		
988.	4.8.17 - IP Phone -8/444 (3)	Telephony Features : Hold, transfer, forward, 4-way conference, call park, call pickup, shared-call appearance /bridged-line-appearance, downloadable phonebook, call waiting, call log XML	1. The phone supports 3-way conference, hence for broader participation, please change the clause as "Telephony Features : Hold, transfer, forward, 3-Way conference, call park, call pickup, shared-call appearance /bridged-line-appearance, downloadable phonebook, call waiting, call log XML"	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
989.	4.8.17 - Layer 2 Network Switch 24 Ports-19/444 (9)	Switch should have min. 130Watt PoE budget	1. Integrated 2GB Graphics This contradicts Point 3 (130w) Request to increase the power budget to 380w. It is submitted that the future devices will fetch power from the switch ports only. There will be minimal requirement of AC supply so as to not incur recurring power charges. The PoE budget for L2 switch at DC is requested to be kept at 380W to cater to the scalable and future needs on this new Data Center infrastructure to meet the long term requirements. 2. This contradicts Point 3 (130w) Request to increase the power budget to 380w. All future devices will be PoE	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd 2. Alcatel Lucent Enterprise (3) 3. iValue InfoSolutions Pvt. Ltd. (1,2, 3) 4. Techspire Services Pvt. Ltd. (3) 5. Online Micro Services Private Limited (3)



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			powered and not AC powered. So this is mandatory requirement 3. This contradicts Point 3 (130w) Request to increase the power budget to 380w. It is submitted that the future devices will fetch power from the switch ports only. There will be minimal requirement of AC supply so as to not incurr recurring power charges. The PoE budge for L2 switch at DC is requested to be kept at 380W to cater to the scalable and future needs on this new Data Center infrastructure to meet the long term requirements. 4. 8 GB DIMM DDR4 2133MHz; 2 slots supporting up to 16GB 1 TB Serial ATA Hard Disk 1 x USB 2.0, 2 x USB 3.0, Bluetooth, microphone, Wi-Fi integrated adapter, Integrated 10/100/1000 LAN, HDMI port & VGA Port, LAN connectivity – External adapter for connectivity		
990.	4.8.17 - Layer 2 Network Switch 24 Ports-20/444 (6)	20. RoHS, Energy Efficient Ethernet, REACH compliance. FCC Class A; NRTL UL; FDA 21 CFR, EN 61000-4-5: Surge	1. Every OEM will go for IEC/FCC/CISPR or its equivalent certification, hence in order to have participation from leading OEM, kindly modify the clause as "RoHS, Energy Efficient Ethernet, REACH compliance. FCC Class A; NRTL UL or equivalent; FDA 21 CFR, EN 61000-4-5: Surge or equivalent" 2. REACH is an European certification for WU chemical industry and FDA21	Kindly refer corrigendum	1. Cisco (1) 2. Matrix Security & Surveillance Pvt Ltd (1) 3. Tejas Networks (2) 4. Tejas Networks Ltd 5. Hewlett Packard Enterprise India Private Limited(3)



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			CFR is for medical devices and not applicable. We request to delete both certificates and amend the clause as "RoHS, Energy Efficient Ethernet, FCC Class A; NRTL UL; EN 61000-4-5: Surge". kindly confirm 3. Suggestive Input/Change Request RoHS, Energy Efficient Ethernet, REACH compliance. FCC Class A; NRTL UL; FDA 21 CFR, EN 61000-4-5: Surge or equivalent safety and emissions standards Justification The certified safety and emission standards vary between OEMs. Request to accept equivalent safety and emissions standards		
991.	4.8.17 - Laptop - 1/446 (1)	m. Laptop 1. Processor 6th Generation Intel® Core i7 processor 6600U Up to 3.4 GHZ 4 MB Smart Cache with Integrated 2GB Graphics or better	1. Latest Generation AMD Ryzen 7 Processor or 11th Generation Intel Core i7 Processor, 8 Cores, 12MB Cache, 1.7 GHz Base Frequency or better AMD Latest Generation AMD Ryzen 7 Processor or 11th Generation Intel Core i7 Processor, 8 Cores, 12MB Cache, 1.7 GHz Base Frequency or better The present specifications limits vendors to quote only Intel Xeon based server / workstation platform. We would like to request department to please consider	Kindly Refer Corrigendum	1. AMD India Pvt.Ltd



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			suggestion to include AMD; suggested change will allow vendors to explore and quote the best price to performance systems. AMD Integrated Graphics		
992.	4.8.17 - UPS 400 KVA -1/448 (11)	400 KVA Online Double Conversion (IT Application) with In-Built Isolation Transformer.	1. The older generation 3 Phase UPS used to come with inbuilt transformer due to the limitation of DC bus voltage where as the latest generation UPS are Transformerless IGBT Rectifier & IGBT Inverter based having Modular fault tolerant design with hot replaceable power modules. Please confirm. 2. UPS System for such high rating always have external isolation Transformer. External isolation Transformer will protect the load in "UPS Bypass Mode" also. Pls allow to connect Input External isolation Transformer in this case with Each 400 KVA UPS. This will meet the required N+N Architecture asked in tender. 3. As per current UPS industry standards all Latest technology UPS are Transformerless only, As same help in achieving better efficiency .small foot print and all the tender specifications can be met with transformerless UPS also. We recommend to allow bidders to quote for "Transformerless UPS".	Kindly refer corrigendum	1. Schneider Electric (3) 2. Eaton Power Quality Pvt.Ltd. (2) 3. Modi Infosol Pvt. Ltd. (3) 4. Elkosta Security Systems India (3) 5. Telecommunications Consultants India Limited (3) 6. Telecommunications Consultants India Limited 7. Tech Mahindra (3)



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			This will not require and transformer internal or external.		
993.	4.8.17 - UPS 400 KVA -14/448 (5)	400 KVA UPS, Point No. 14, AC-AC Efficiency Online Mode: Greater than or equal to 95% @ Full Rated Load & Battery Fully charged in load range 30% to 100% load.	1. Pls confirm that this efficiency is for UPS only (without Transformer losses)	Kindly refer corrigendum	1. Eaton Power Quality Pvt.Ltd. 2. Modi Infosol Pvt. Ltd. 3. Elkosta Security Systems India 4. Telecommunications Consultants India Limited Tech Mahindra
994.	4.8.17 - UPS 400 KVA -22/449 (10)	400 KVA UPS, Point No. 2, Back-up	1. Please clarify that the Battery calculations for 15 minutes @ 0.9 p.f need to be done at 400 KVA Load or 200 KVA Load. Please define the total VAH required also. Latest Technology of Battery is Lithium Ion, as this is a long term project we suggest to Consider Lithium Ion batteries which have multiple advantages viz a via : - Long Life of 15 Years, Long operational life with performance warranty of 10 years, Less Weight, Battery Management System inbuilt, extremely low footprint, No Hydrogen Emission hence very safe. We recommend to have lithium Ion batteries instead of SMF for 400KVA UPS System	Kindly refer corrigendum	1. Eaton Power Quality Pvt.Ltd. 2. Modi Infosol Pvt. Ltd. 3. Elkosta Security Systems India 4. Telecommunications Consultants India Limited 5. Tech Mahindra
995.	4.8.17 - UPS 400 KVA -28/449 (1)	Product: Made in India	1. For 3 Phase 400 kVA, it is defined it as Product shall be made in India whereas for Single phase UPS upto 10 KVA and 3 Phase UPS 150 kVA it is not mentioned.	As per RFP : Minimum spec. is asked, MSI can quote above and asked	1. Schneider Electric



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996.	4.8.18 - nDRC/452 (1)	Near Data Recovery Center (nDRC)	1. Kindly share the latitude and longitude of all the near DR.	It will be shared with selected MSI	1. Sterlite Technologies Limited
997.	4.8.18 - nDRC/452 (1)	Near Data Recovery Center (nDRC) a. Near DR Center- nDRC will act on active backup arrangement for the DC operations related to critically identified minimum 250 cameras by Delhi Police.	1. Please share the FRS camera licenses needs to be considered at nDRC?	As per RFP (minimum 250 cameras)	1. NEC Corporation India Pvt. Ltd.
998.	4.8.18 - nDRC - Server /453 (2)	C4i servers, Video management Servers; Server (Recording); ANPR Servers; Domain Controller; Antivirus Server; LDAP Server	1. Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 GHz base freq. or equivalent or two AMD EPYC 7002 series processor upto 24 cores/processor at 2.3 GHz or better. 16 DDR4 DIMM slots, speed up to 2933 MT/s or better	Kindly Refer corrigendum Refer Appendix 4: Server Type 1	1. AMD India Pvt.Ltd
999.	4.8.18 - nDRC - Server - 10/454 (1)	4 x 10G Copper Ethernet ports with 3 mts. Length 10G factory crimped copper Ethernet patch cords for each port	1. Please change the clause to 4x10G SFP+ populated with SFP+ transceivers.	Kindly refer corrigendum Refer Appendix 4: Server Type 1	1. EFKON India Pvt. Ltd
1000.	4.8.18 - nDRC - Server - 4/453 (2)	4. Memory slots - 16 DDR4 DIMM slots, speed up to 2666MT/s or better	1. All latest server models from reputed Server OEM support 24 DIMM slots and 2933 MT/s Memory, hence in order to ensure healthy competition, it is requested to kindly change the clause as "Memory slots - 24 DIMM slots and 2933 MT/s Memory" 16 DDR4 DIMM slots, speed up to 2933 MT/s or better	As per RFP (MSI are free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP.)	1. Cisco 2. AMD



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			The request memory frequency is 2 generation old. The latest operating frequency uof memory in servers are 3200 MHz. While AMD EPYC can operate at 3200 MHz Intel Xeon based systems still operate at 2933 MHz. To have a fair competitng scenario we request you change the memory frequency to 2933 MT/s		
1001.	4.8.18 - nDRC - Server - 7/453 (3)	7. RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 8GB Cache Memory on single / Multiple controllers.	1. 8GB Cache memory is restricting leading OEM participation. Also, 2 GB cache is more than sufficient for enterprise workload for safe cities, hence in order to enable leading OEM participation, kindly change the clause as "RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 2GB Cache Memory on single / Multiple controllers."	Kindly Refer corrigendum Refer Appendix 4: Server Type 1	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco
1002.	4.8.18 - nDRC - Server - 20/455 (3)	20. Server security - Should have a cyber resilient architecture for a hardened server design for protection, detection & recovery from cyber attacks - Should protect against firmware which executes before the OS boots	1. These clauses are specific to one OEM and restricts leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete these clauses	Kindly Refer corrigendum Refer Appendix 4: Server Type 1	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco
1003.	4.8.18 - nDRC - Server - 20/455 (3)	20. Server security Should provide effective protection, reliable detection	1. "Rapid OS recovery" is specific to one OEM and restrict leading OEM participation. Removing this clause	Kindly Refer corrigendum	1. Cisco



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		& rapid recovery using: - Signed firmware updates - Support for Hardware root of trust / Silicon based hardware root of trust - Secure default passwords - Configuration and firmware drift detection - Secure alerting - Rapid OS recovery	will not impact the desired functionality of the solution. Kindly delete "Rapid OS recovery" clause. "Rapid OS recovery" is specific to one OEM and restrict leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete "Rapid OS recovery" clause. "Rapid OS recovery" is specific to one OEM and restrict leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete "Rapid OS recovery" clause.	Refer Appendix 4: Server Type 1	2. Matrix Security & Surveillance Pvt Ltd Cisco
1004.	4.8.18 - nDRC - Viewing Center Management Server /456 (1)	Viewing Centre Management Server	1. Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 GHz base freq. or equivalent or two AMD EPYC 7002 series processor upto 24 cores/processor at 2.3 GHz or better.	Kindly Refer corrigendum Refer Appendix 5: Server Type 2	1. AMD India Pvt.Ltd
1005.	4.8.18 - nDRC - Viewing Center Management Server - 10/456 (2)	4 x 10G Copper Ethernet ports	1. Please change the clause to 4x10G SFP+ populated with SFP+ transceivers.	Kindly Refer corrigendum Refer Appendix 5: Server Type 2	1. EFKON India Pvt. Ltd
1006.	4.8.18 - nDRC - Viewing Center Management Server - 4/456 (1)	16 DDR4 DIMM slots, speed up to 2666MT/s or better	1. 16 DDR4 DIMM slots, speed up to 2933 MT/s or better 2. All latest server models from reputed Server OEM support 24 DIMM slots and 2933 MT/s Memory, hence in order to ensure healthy competition, it is requested to kindly change the clause as "Memory slots - 24 DIMM slots and 2933 MT/s Memory"	As per RFP	1. AMD India Pvt.Ltd 2. Cisco



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
1007.	4.8.18 - nDRC - Viewing Center Management Server - 7/456 (3)	7. RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 8GB Cache Memory on single / Multiple controllers.	1. 8GB Cache memory is restricting leading OEM participation. Also, 2 GB cache is more than sufficient for enterprise workload for safe cities, hence in order to enable leading OEM participation, kindly change the clause as "RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 2GB Cache Memory on single /Multiple controllers."	Kindly Refer corrigendum Refer Appendix 5: Server Type 2	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco
1008.	4.8.18 - nDRC - Viewing Center Management Server - 18/457 (3)	18. LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LED Indicator / LCD Panel.	1. The clause/statement is not clear, hence in order to have more clarity, kindly modify the clause as "LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LCD panels or should light up various LEDs on LED panel in different colors during normal system operation and error conditions"	Kindly Refer corrigendum Refer Appendix 5: Server Type 2	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco
1009.	4.8.18 - nDRC - Viewing Center Management Server - 20/457 (3)	20. Server security - Should have a cyber resilient architecture for a hardened server design for protection, detection & recovery from cyber attacks - Should protect against firmware which executes before the OS boots	1. These clauses are specific to one OEM and restricts leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete these clauses	Kindly Refer corrigendum Refer Appendix 5: Server Type 2	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco
1010.	4.8.18 - nDRC - Viewing Center Management Server - 20/457 (3)	20. Server security Should provide effective protection, reliable detection & rapid recovery using: - Signed firmware updates - Support for Hardware root	1. "Rapid OS recovery" is specific to one OEM and restrict leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete "Rapid OS recovery" clause.	Kindly Refer corrigendum Refer Appendix 5: Server Type 2	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
		of trust / Silicon based hardware root of trust - Secure default passwords - Configuration and firmware drift detection - Secure alerting - Rapid OS recovery			
1011.	4.8.18 - nDRC - Viewing Center Management Server - 20/457 (3)	20. Server security Should provide system lockdown feature to prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware	1. This clause is specific to one OEM and restrict broader participation. Hence, in order to enable leading OEM participation without any impact on desired functionality, kindly change the clause as "Should provide detect and prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware"	Kindly Refer corrigendum Refer Appendix 5: Server Type 2	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
1012.	4.8.18 - nDRC - Video Analytics Servers with 3xGPU /458 (2)	Video Analytics Servers with 3x GPU in each server	1. Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 GHz base freq. or equivalent or two AMD EPYC 7002 series processor upto 24 cores/processor at 2.3 GHz or better. 128 GB RAM 2933 MT/s support up to 512GB RAM, should have min. 24 DIMM slots 2. 8GB Cache memory is restricting leading OEM participation. Also, 4 GB cache is more than sufficient for enterprise workload for safe cities, hence in order to enable leading OEM participation, kindly change the clause as "RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with	As per RFP 1. Not relevant to GPU Card 2. Kindly Refer corrigendum Refer Appendix 6: Server Type 3	1. AMD India Pvt.Ltd 2. Matrix Security And Surveillance Pvt Ltd



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			4GB Cache Memory on single / Multiple controllers."		
1013.	4.8.18 - nDRC - Video Analytics Servers with 3xGPU - 16/459 (3)	16. LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LED Indicator / LCD Panel.	1. The clause/statement is not clear, hence in order to have more clarity, kindly modify the clause as "LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LCD panels or should light up various LEDs on LED panel in different colors during normal system operation and error conditions"	Kindly Refer corrigendum Refer Appendix 6: Server Type 3	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
1014.	4.8.18 - nDRC - Video Analytics Servers with 3xGPU - 17/459 (3)	Server security - Should have a cyber resilient architecture for a hardened server design for protection, detection & recovery from cyber attacks - Should protect against firmware which executes before the OS boots	1. These clauses are specific to one OEM and restricts leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete these clauses	Kindly Refer corrigendum Refer Appendix 6: Server Type 3	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco
1015.	4.8.18 - nDRC - Video Analytics Servers with 3xGPU - 17/459 (3)	Should provide effective protection, reliable detection & rapid recovery using: - Signed firmware updates - Support for Hardware root of trust / Silicon based hardware root of trust - Secure default passwords - Configuration and firmware drift detection - Persistent event logging including user activity	1. "Rapid OS recovery" is specific to one OEM and restrict leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete "Rapid OS recovery" clause.	Kindly Refer corrigendum Refer Appendix 6: Server Type 3	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
		- Secure alerting - Rapid OS recovery			
1016.	4.8.18 - nDRC - Video Analytics Servers with 3xGPU - 17/460 (3)	Should provide system lockdown feature to prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware	1. This clause is specific to one OEM and restrict broader participation. Hence, in order to enable leading OEM participation without any impact on desired functionality, kindly change the clause as "Should provide detect and prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware"	Kindly Refer corrigendum Refer Appendix 6: Server Type 3	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco
1017.	4.8.18 - nDRC - Face Recognition Servers with 3xGPU /461 (2)	Face Recognition Servers with 3x GPU in each server	1. Up to two Intel® Xeon® Scalable 2nd Gen processors, up to 20 cores/processor @ 2.5 GHz base freq. or equivalent or two AMD EPYC 7002 series processor upto 24 cores/ processor at 2.3 GHz or better. 128 GB RAM 2666 MT/s support up to 512GB RAM, should have min. 24 DIMM slots	As per RFP	1. AMD India Pvt.Ltd
1018.	4.8.18 - nDRC - Face Recognition Servers with 3xGPU - 10/461 (1)	4 x 10G Copper Ethernet ports	1. Please change the clause to 4x10G SFP+ populated with SFP+ transceivers.	Kindly Refer corrigendum Refer Appendix 6: Server Type 3	1. EFKON India Pvt. Ltd
1019.	4.8.18 - nDRC - Face Recognition Servers with 3xGPU - 8/461 (3)	8. RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 8GB Cache Memory on single / Multiple controllers.	1. 8GB Cache memory is restricting leading OEM participation. Also, 4 GB cache is more than sufficient for enterprise workload for safe cities, hence in order to enable leading OEM participation, kindly change the	Kindly Refer corrigendum Refer Appendix 6: Server Type 3	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco



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			clause as "RAID Controller - 12Gbps PCIe 3.0 with RAID 1, 5, 10, 50 with 4GB Cache Memory on single / Multiple controllers."		
1020.	4.8.18 - nDRC - Face Recognition Servers with 3xGPU - 16/462 (3)	16. LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LED Indicator / LCD Panel.	1. The clause/statement is not clear, hence in order to have more clarity, kindly modify the clause as "LCD/LED panel - Should display system ID, status information and system error code followed by descriptive text on LCD panels or should light up various LEDs on LED panel in different colors during normal system operation and error conditions"	Kindly Refer corrigendum Refer Appendix 6: Server Type 3	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco
1021.	4.8.18 - nDRC - Face Recognition Servers with 3xGPU - 18/462 (3)	Should provide effective protection, reliable detection & rapid recovery using: - Signed firmware updates - Support for Hardware root of trust / Silicon based hardware root of trust - Secure default passwords - Configuration and firmware drift detection - Persistent event logging including user activity - Secure alerting - Rapid OS recovery	1. "Rapid OS recovery" is specific to one OEM and restrict leading OEM participation. Removing this clause will not impact the desired functionality of the solution. Kindly delete "Rapid OS recovery" clause.	Kindly Refer corrigendum Refer Appendix 6: Server Type 3	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
1022.	4.8.18 - nDRC - Face Recognition Servers with 3xGPU - 18/462 (3)	Should provide system lockdown feature to prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware	1. This clause is specific to one OEM and restrict broader participation. Hence, in order to enable leading OEM participation without any impact on desired functionality, kindly change the clause as "Should provide detect and prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware"	Kindly Refer corrigendum Refer Appendix 6: Server Type 3	1. Cisco Matrix Security & Surveillance Pvt Ltd Cisco
1023.	4.8.18 - nDRC - Storage of application and tagged data (2 PB storage) /463 (2)	Storage of application and tagged data (2 PB storage)- SAN/ Unified	1. As per "Near Data Recovery Center (nDRC)", Page No. 452, 250 cameras would be used to for DR site. As per the requirement of the storage at the Near DRC, the storage should be SAN/Unified Storage. Considering department is allowing to opt for SAN storage: 1. Debarment would allow VMS vendor to allow SAN which support only FCP and iSCSI protocols, department believes that iSCSi and FCP protocols are supported by VMS vendor, than why scale-out with only SMB2 is required in Scale-Out Storage requirement? Please clarify. 2. Why reference with only Scale-Out NAS is required with VMS software when department agree that Surveillance storage can be supported on iSCSi and FCP protocols? Please clarify. 3. Please clarify which protocols should be used to provision VMS	Kindly Refer Corrigendum	1. SCS TECH INDIA PVT. LTD.



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			software (recording servers) at the Near DRC - iSCSI or FCP? 2. SAN and Unified are two different products - SAN Storage only Support FCP and iSCSI protocols, whereas Unified Storage support FCP, iSCSI, NFS and CIFS. As SAN is subset of Unified Storage we request you to consider only Unified Storage to bring all OEM to same product line. Hence we request you to change this clause and read it as: SAN / Unified Enterprise storage for 180 days – 2 PB (Storage for DB, boot, Flagged Data & Backup for 180 days)		
1024.	4.8.18 - nDRC - Storage of application and tagged data (2 PB storage) - 2/463 (2)	This dedicated storage section will serve the purpose of DMZ which will ensure better back lane throughput and compatibility of controllers and storage (20 PB) mentioned in the specifications.	As per "Scale out NAS Storage with rack for surveillance video data for 30 days – 20 PB", References for VMS on Scale-Out have been asked, only SMB2 protocols support is asked, however, to store Flag Data a Separate SAN/Unified Storage is been asked. Considering that the Data would be moved by VMS software from Scale-Out-NAS to SAN/Unified Storage to store Flag Data, VMS shall be able to read/write to SAN storage over FCP and/or iSCSI protocols and FCP, iSCSI, SMB and NFS for Unified Storage. As the Flag Data would be moved by VMS software, please clarify what functionality department is look for by specifying "Back lane throughput and compatibility of controller and storage (20PB) mentioned in the specifications" Please clarify.	Kindly Refer Corrigendum	1. SCS TECH INDIA PVT. LTD.



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			Please confirm and modify the clause if Department is looking for a Single Management Console for all the Storage Systems across 2 Data Centre. Hence we request you to modify & read the clause as : This dedicated storage section will serve the purpose of DMZ which will ensure better back lane throughput and compatibility of controllers and storage (20 PB) mentioned in the specifications with single management console.		
1025.	4.8.18 - nDRC - Storage of application and tagged data (2 PB storage) - 3/463 (1)	Hybrid storage system with Storage Operating System optimized for end to end to handle different types of drives like SSD, SAS & NL-SAS technology with built in QoS (Quality of Services) for optimal utilization of resources across the array. The storage should also support automated data tiering between these 3 types of drives.	1. Tiering help to place the hot data on high performing disk drive and cold data on low performing disk drives. This mechanism ensures that frequently used data can be placed on high performing disk drives and thus increasing the performance of the system and reducing the latency. Therefore dynamic tiering between either between SSD and SAS or SSD or NL-SAS Hence we request you to modify & read the clause as : Hybrid storage system with Storage Operating System optimized for end to end to handle different types of drives like SSD, SAS & NL-SAS technology with built in QoS (Quality of Services) for optimal utilization of resources across the array. The storage should also support automated data tiering between these 3 different types of drives.	Kindly Refer Corrigendum	1. SCS TECH INDIA PVT. LTD.



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1026.	4.8.18 - nDRC - Storage of application and tagged data (2 PB storage) - 4/463 (1)	Dual active-active populated with dual Xeon® Processor.	1. Specifying one type of processor is OEM specific and restricting wider participation for other OEM's. Hence we request you to modify & read the clause as: Dual active-active populated with dual Xeon® Processor.	Kindly Refer Corrigendum	1. SCS TECH INDIA PVT. LTD.
1027.	4.8.18 - nDRC - Storage of application and tagged data (2 PB storage) - 6/463 (1)	Deduplication and Compression functionalities should be supplied and supported on SSD capacity with all required licenses. Admin should be able to enable/disable reduction for individual volumes/application	1. Deduplication and compression is a storage software functionality which help achieve capacity savings irrespective of drive type. To ensure maximum efficiencies can be achieved with Deduplication and Compression it is requested to modify this clause and ask for this feature across disk types. Hence we request you to modify the clause to make it more open & read the clause as : Deduplication and Compression functionalities should be supplied and supported on SSD capacity offered disk types with all required licenses. Admin should be able to enable/disable reduction for individual volumes/application	Kindly Refer Corrigendum	1. SCS TECH INDIA PVT. LTD.
1028.	4.8.18 - nDRC - Storage of application and tagged data (2 PB storage) - 9/463 (1)	Minimum 500 disk drives should be supported within the proposed Controller Pair and Offered storage shall be scalable to 1000 Drives or above in cluster/federation of arrays.	1. As there are no drive restrictions in Scale-Out NAS Storage we request you to delete this clause. However, if department still wish to use the drive count they should allow the system to scale with multiple controllers as it is been implicitly mentioned in the Scale-Out Storage requirement. Hence we request you to modify the clause to allow wider participation.	Kindly Refer Corrigendum	1. SCS TECH INDIA PVT. LTD.



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			Please read the clause as : Minimum 500 disk drives should be supported within the proposed Controller Pair and Offered storage shall be scalable to 1000 Drives or above in cluster/federation of arrays within the same storage		
1029.	4.8.18 - nDRC - Storage of application and tagged data (2 PB storage) - 12/464 (1)	Minimum 256GB DRAM cache across dual controllers, Scalable to 1TB or more either by adding memory into existing controllers or by Adding controllers in cluster/federation of arrays.	1. In point no. 7 "controller scalability" scalability to up to 6 pairs or better is asked to meet capacity and performance when needed. Also the cache architecture is defined as per the model been used by the Vendor. The architecture is either scale-up or scale-out. In a scale-up architecture Storage System is configured with higher count of components like Cache and Ports resulting in higher acquisition cost. Contrary to that, in a scale-out architecture customer can start with minimum requirement (for capacity and performance) and then scale-out on Demand resulting in better cost management thus most of the next-generation Storage Technologies are based on scale-out architecture. Hence we request you to modify & read the clause as : Minimum 256GB DRAM cache across dual controllers, Scalable to 1TB or more either by adding memory into existing controllers or by Adding controllers in cluster/federation of arrays.	Kindly Refer Corrigendum	1. SCS TECH INDIA PVT. LTD.



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1030.	4.8.18 - nDRC - Storage of application and tagged data (2 PB storage) - 13/464 (1)	Minimum 16 x 32 Gbps Frontend FC Ports across the proposed controllers and should be scalable up to 24 Nos of FC Ports or higher. Should also be configured with 8 x 10Gbps SFP+ iSCSI Ports. The back-end of the array must be 8 x 12 Gbps or higher SAS ports per array. It should also support configuring native 10Gbps ports for storage-based replication.	1. As per heading of these specifications SAN/Unified Storage is been asked, we request you to please ask for Unified Storage which is a super-set of SAN storage. Asking for only SAN protocols raise two concerns: 1. As Flagged Data would be moved by the VMS software, two protocol provisioning need to be done to the VMS server one for SMB2 (which is explicitly asked in Scale-Out-Nas and should be removed) increasing the overall complexity of the solution, and 2. SAN are not equivalent to Unified Storage in cost. Allowing SAN storage would favour the OEM only offering SAN protocols and also take away the flexibility of the department to implement or make change in the solution. Hence we request you to modify & read the clause as :Minimum 16 x 32 Gbps/ 32 x16 Gbps Frontend FC Ports across the proposed controllers and should be scalable up to 24 Nos of FC Ports or higher across controller in scale-out architecture. Should also be configured with 8 x 10Gbps SFP+ iSCSI, NFS and SMB Ports. The back-end of the array must be 8 x 12/4 x 25 Gbps or higher SAS ports per array. It should also support configuring native 10Gbps ports for storage based replication.	Kindly refer Corrigendum	1. SCS TECH INDIA PVT. LTD.



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1031.	4.8.18 - nDRC - Storage of application and tagged data (2 PB storage) - 14/464 (1)	14. The storage must be supplied with 2000TB Usable Capacity in below configuration: 15. 400TB Usable Capacity using SSD Drives on RAID5 / RAID6 16. 1600TB Usable Capacity using minimum 7.2k rpm NL-SAS Drives on RAID6 17. 1 Hot spare for every 30 Drives should be configu	1. Today SSD drives are available with 3.8, 7.6, 15.3 and 30TB capacity. With higher capacity drives, like NL-SAS high density drives, it is always recommended that a Minimum Dual Disk protection should be asked. Hence we request you to opt for Dual Disk protection as OEM offering higher SLA does not let RAID 5 or equivalent configuration as a best practise. Also, the clauses in SAN/Unified Storage are totally different from the Scale-Out Storage. While Scale-Out Storage only asks for 3 drive protection across 20PB, a RAID level is been asked in SAN/Unified Storage. Again, the specification are specifically written to provide commercial and technical advantage to Storage Architecture offering based on RAIN in Scale-Out NAS and changed to meet the smaller system, increasing the complexity of the solution of Integrating both SMB2 and FCP/iSCSI at VMS level for flag data. We would also like to bring to department notice that, though SAN/Unified Storage asks for 1 Hot Spare for every 30 drives which is contrary to 10% hot spare capacity been asked, which again indicate skewness of RFP in favour of specific OEM in Scale-Out NAS. Hence we request you to modify to allow wider participation & read the	Kindly Refer Corrigendum	1. SCS TECH INDIA PVT. LTD.



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			clause as : The storage must be supplied with 2000TB Usable Capacity in below configuration: 400TB Usable Capacity using SSD Drives on RAID5 / RAID6 or equivalent 1600TB Usable Capacity using minimum 7.2k rpm NL-SAS Drives on RAID6 or equivalent 1 Hot spare for every 30 Drives should be configured.		
1032.	4.8.18 - nDRC - Storage of application and tagged data (2 PB storage) - 18/464 (1)	The array should be configured to deliver minimum of 70,000 IOPS with 64KB block size & 50:50 read: write ratio. The storage system should be scalable to more than 1,00,000 IOPS by adding more controllers in cluster/federation mode.	1. Clarification requested : Most of the applications writing patterns is observed to be sequential which writes data with block size 64KB therefore we request for more details on the type of workload like random/sequential, type of data etc to help us propose the right solution which is aligned to your business needs. SCS TECH INDIA Clarification requested : Most of the applications writing patterns is observed to be sequential which writes data with block size 64KB therefore we request for more details on the type of workload like random/sequential, type of data etc to help us propose the right solution which is aligned to your business needs.	Kindly Refer Corrigendum	1. SCS TECH INDIA PVT. LTD. 2. SCS TECH INDIA



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1033.	4.8.18 - nDRC - L3 Switch 24 Port 10/25 GB-B -1/466 (5)	Wire rate 24x 10/25 GbE SFP28 ports and 4x100GbE QSFP28 ports. All ports should be populated with Multi-mode transceivers.	1. Required clarification: All ports to be populated with which module? 1G/10G or 40G/100G module? 2. Arista: Wire rate 48x10 GbE SFP+ ports and 6x100GbE QSFP28 ports. Bidder need to size the quantities of transceivers and its type accordingly to solution and site requirement. please keep DR switch configuration same as the DC switches for fewer switch category providing simplified management.	Kindly Refer Corrigendum	1. Alcatel Lucent Enterprise 2. iValue InfoSolutions Pvt. Ltd. 3. Techspire Services Pvt. Ltd. 4. Online Micro Services Private Limited 5. Arista
1034.	4.8.18 - nDRC - L3 Switch 24 Port 10/25 GB-B -5/466 (5)	HA cables to be included as part of solution	1. Clarification required :Please specify DA cable bandwidth. 100g or 40G	As per RFP (Cables should be provided as per the solution requirement)	1. Techspire Services Pvt. Ltd. 2. iValue InfoSolutions Pvt. Ltd 3. Alcatel Lucent Enterprise 4. Online Micro Services Private Limited
1035.	4.8.18 - nDRC - L3 Switch 24 Port 10/25 GB-C -2/466 (3)	C. Performance 2. Latency 900ns	1. This clause is restricting participation, and deleting this clause will not impact the desired functionality of the solution. Hence in order to enable leading OEM participation, request you to kindly delete this clause.	Kindly Refer Corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd - Cisco
1036.	4.8.18 - nDRC - L3 Switch 24 Port 10/25 GB-D -2/466 (5)	32MB packet buffer memory.	1. Request to change clause as "16MB packet buffer memory." 32MB PBM is highly restrictive and OEM specific feature. 2. Requesting to please make it 16MB PBM to allow other leading OEMs to	As per RFP	1. Online Micro Services Private Limited (2) 2. iValue InfoSolutions Pvt. Ltd (1) 3. Techspire Services Pvt. Ltd. (2)



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			qualify. For wirespeed 16MB is more than sufficient. 3. Request to change clause as "16MB packet buffer memory." For wirespeed 16MB is more than sufficient. Rest is OEM specific design		4. Alcatel Lucent Enterprise (2)
1037.	4.8.18 - nDRC - L3 Switch 24 Port 10/25 GB-F -2/466 (5)	128K ARP table, 160K MAC addresses	1. The ask of 128K ARP table is on very higher side and is restricting leading OEM participation. Further, network performance may degrade during large ARP table lookup. Asking lower ARP table in the switches will not impact the desired functionality. Hence request you to kindly modify the clause as "48K ARP table, 160K MAC address" 2. Request to change the clause as "32K ARP table, 160K MAC addresses" This is restricting the healthy competition. Please consider 32K ARP tables to ensure meeting the project requirements with qualifying terms for all leading OEMs 3. Request to change the clause as "32K ARP table, 160K MAC addresses" Request to change as 128K is too high for this design Request to change the clause as "32K ARP table, 160K MAC addresses" 4. This is restricting the healthy competition. Please consider 32K ARP tables to ensure meeting the project requirements with qualifying terms for all leading OEMs Request to change the clause as "32K ARP table, 160K MAC addresses"	Kindly refer corrigendum.	1. Cisco (1) 2. Matrix Security & Surveillance Pvt Ltd (1) 3. Alcatel Lucent Enterprise (2) 4. iValue InfoSolutions Pvt. Ltd. (3) 5. Techspire Services Pvt. Ltd. (2) 6. Online Micro Services Private Limited (2) 7. Arista



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			5. This is restricting the healthy competition. Please consider 32K ARP tables to ensure meeting the project requirements with qualifying terms for all leading OEMs 6. Arista: 128K IPv4 routes table, 160K MAC address Requesting to remove ARP and use IPv4 scale. Scale requirements are generally mentioned in IP route and MAC scale only. Such high scale with ARP is generally not required.		
1038.	4.8.18 - nDRC - L3 Switch 24 Port 10/25 GB-F -4/466 (3)	F. Layer 2 features 4. 132K MAC addresses	1. This clause is in contradiction to the above clause F.2., kindly delete the same.	Kindly Refer Corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco
1039.	4.8.18 - nDRC - L2 Switch 24 Port 1GB- Design & Performance - 2/468 (3)	Design & Performance 2. Should have 1GB Flash & 1GB CPU memory	1. As per current trends, the memory ask may not be able to meet the future demand or load requirement and can lead to poor network performance, hence for project beneficial in longer run, please change the clause as "Should have min 2GB Flash & min 2GB CPU Memory"	Kindly Refer Corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco
1040.	4.8.18 - nDRC - L2 Switch 24 Port 1GB- Design & Performance - 3/468 (3)	Design & Performance 3. Should have LED indicator for per port status, FAN, PSU and Management Status	1. This is favouring to one OEM and restrict leading OEM participation. Kindly modify the clause as "Should have LED indicator for per port status, PSU and Management Status"	Kindly refer Corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco



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1041.	4.8.18 - nDRC - L2 Switch 24 Port 1GB- Design & Performanance - 4/468 (3)	4. 0°C to 50°C operating temperature and 10% to 95% relative humidity	1. This is favouring to one OEM and restrict leading OEM participation. Kindly modify the clause as "0°C to 45°C operating temperature and 10% to 90% relative humidity"	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco
1042.	4.8.18 - nDRC - L2 Switch 24 Port 1GB- Interface requirements - 1/468 (1)	Minimum of 24 ports 10/100/1000 Base-T and 4x 10G SFP+ ports	1. Please specify the type and quantity of 4x 10G SFP+ transceivers i.e. LR (10 Kms) or ER (40 Kms)?	Kindly refer corrigendum	1. Sterlite Technologies Limited
1043.	4.8.18 - nDRC - L2 Switch 24 Port 1GB- Switching/Routing - 2/468 (5)	Should support 10 K ARP entries	1. Request you to change clause as "Should support 1024 ARP entries" Industry standard is 1024 for L2 switch. It is submitted that this clause is highly restrictive. The project architecture and operations does not require this much 10K entries at near DRC. Please allow fair and non-restrictive participation to fulfill project needs.	Kindly refer corrigendum	1. Alcatel Lucent Enterprise 2. iValue InfoSolutions Pvt. Ltd. 3. InfoSolutions Pvt. Ltd 4. Techspire Services Pvt. Ltd. 5. Online Micro Services Private Limited
1044.	4.8.18 - nDRC - L2 Switch 24 Port 1GB- Switching/Routing - 6/468 (3)	Should have Port based VLAN, MAC based VLAN, private vlan and support GVRP	1. The 802.1ak is superseded by 802.1q, hence request you to kindly change the clause as "Should have Port based VLAN, MAC based VLAN, private vlan and 802.1 AK/VTP or equivalent for dynamic VLAN propagation"	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco



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1045.	4.8.18 - nDRC - L2 Switch 24 Port 1GB-Management - 7/469 (11)	Should be SDN capable with Open stack support and OpenFlow API support, should support IEEE P802.1Qaz	1. IEEE P802.1Qaz is data center technology known as ETS(Enhanced transmission selection) which provides customized bandwidth allocation to 802.1p classes of traffic. Assign different amounts of bandwidth to Ethernet, FCoE, or iSCSI traffic classes that require different bandwidth, latency, and best-effort treatment during network congestion in Data center. Kindly allow IEEE802.1P for L2 switch to comply. 2. Kindly modify clause as" Should be SDN capable with Open stack support and OpenFlow API support, should support IEEE P802.1Qaz or IEEE 802.1P" 3. Request to change clause as "Should be SDN capable with Open stack support and OpenFlow API support" It is submitted that IEEE P802.1Qaz is a L3 feature which specifies enhancement of transmission selection to support allocation of bandwidth amongst traffic classes.. This feature at L2 switch will not facilitate a fair competition in terms of ideal features and the related costs of an L3 switch. The leading OEMs with L3 switch for this feature will be restricted to participate if this feature is asked at L2 level. Requesting to remove this feature at L2 switch does require at the L3 switches available at DC.	Kindly refer corrigendum	1. Dell Technologies (1) 2. Alcatel Lucent Enterprise(3) 3. iValue InfoSolutions Pvt. Ltd.(3) 4. Elkosta Security Systems India (1) 5. Telecommunications Consultants India Limited (1) 6. Tech Mahindra (1) 7. Techspire Services Pvt. Ltd. (3) 8. NEC Corporation India Pvt. Ltd. (1) 9. Samsung SDS India Pvt Ltd.(1) 10. Online Micro Services Private Limited (3)



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1046.	4.8.18 - nDRC - L2 Switch 24 Port 1GB-Security -1/469 (3)	Security 1. Local authentication database for RADIUS Authentication for 802.1x login	1. We do support local authentication database which is used when RADIUS server is not reachable and centralised authentication database such as LDAP, AD, etc. are also supported. Please confirm our understanding on this clause is in-line to your requirement.	As per RFP	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd
1047.	4.8.18 - nDRC - L2 Switch 24 Port 1GB-Security -4/469 (8)	4. Should have dynamic arp inspection, DHCP snooping, Private VLAN, SYN attack protection, GARP protection	1. SYN attack/DDoS are initiated by the outside network to inside. Access layer do not support these protocol and needs to be removed from the clause. Also, in a production environment, advertisement of router IPs are not encouraged by the access switches, therefore we may not require the GARP protection but ARP is very much required. Request you to kindly modify the clause to protect ARP traffic which will meet the desired functionality. Kindly modify the clause as "Should have dynamic arp inspection, DHCP snooping, Private VLAN, ARP protection" 2. Request to change clause as "Should have dynamic arp inspection, DHCP snooping, Private VLAN, SYN attack protection, GARP protection/ARP Poison Detection" 3. It is requested to ARP poisoning (spoofing) as an option with GARP protection. 4. Alcatel used ARP Poison detection for same functionality.	Kindly refer corrigendum	1. Cisco (1) 2. Matrix Security & Surveillance Pvt Ltd (1) 3. Alcatel Lucent Enterprise (2) 4. iValue InfoSolutions Pvt. Ltd.(2) 5. Techspire Services Pvt. Ltd. (2) 6. Online Micro Services Private Limited (2)



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1048.	4.8.18 - nDRC - L2 Switch 24 Port 1GB-Security -6/469 (5)	Should have minimum 1 K ACL entry support and Time-Based ACL or Port-based ACL	1. Should have minimum 256 ACL entry support and Time-Based ACL 1K ACL is high value for L2 switch. It is submitted that this clause is highly restrictive. Please allow fair and non-restrictive participation to fulfill project needs. It is requested to keep it 256 ACL for a L2 switch which is appropriate and industry standard feature.	Kindly refer corrigendum	1. Alcatel Lucent Enterprise 2. iValue InfoSolutions Pvt. Ltd. 3. Techspire Services Pvt. Ltd. 4. Online Micro Services Private Limited
1049.	4.8.18 - nDRC - L2 Switch 24 Port 1GB-Switching/Routing - 14/469 (5)	Should have basic dynamic routing protocols like RIP, OSPF, PIM, VRRP on day one	1. Request to change clause as "Should have basic dynamic routing protocols like RIP from day one and be upgradeable to OSPF, VRRP" 2. PIM is OEM specific in L2 switch. Protocol Independent Multicast (PIM) is a highly restrictive feature incedently favoring an OEM in L2. It is requested to please remove PIM as the upgradable feature. 3. PIM is OEM specific in L2 switch. Protocol Independent Multicast (PIM) is a highly restrictive feature incedently favoring an OEM in L2. It is requested to please remove PIM as the upgradable feature.	As per RFP	1. Alcatel Lucent Enterprise (1) 2. iValue InfoSolutions Pvt. Ltd. (1) 3. Techspire Services Pvt. Ltd. (1) 4. Online Micro Services Private Limited (1)
1050.	4.8.18 - nDRC - L2 Switch 24 Port 1GB-Switching/Routing - 15/469 (3)	15. Should have Configurable multicast session limit per port	1. We do support multicast route limits and IP IGMP limits. Please confirm if our understanding is in-line to your requirement and kindly share the use case for the asked requirement.	Kindly Refer Corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco



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1051.	4.8.18 - nDRC - L2 Switch 24 Port 1GB- Certification - 1/470 (3)	Certification 1. Model should have safety and standards certifications as below IEC61000-4-6:2008/EN61000-4-6:2009, IEC61000-4-8:2009/EN61000-4-8:2010, EN 55022:2010 Class A, CISPR 22:2008 Class A, CISPR24:2010 Class A, Radiated Immunity 10V/criteria, UL60950-1 2ndEd, CE 2.0 Compliant or equivalent Indian Standards	1. Every OEM will go for IEC/FCC/CISPR or its equivalent certification and CE2.0 is specifically for carrier ethernet services which is not the case here, hence in order to have participation from leading OEM, kindly modify the clause as "Model should have safety and standards certifications as below: IEC & CISPR certificates as below : IEC61000-4-6:2008/EN61000-4-6:2009, IEC61000-4-8:2009/EN61000-4-8:2010 or equivalent, EN 55022:2010 Class A, CISPR 22:2008 Class A, CISPR24:2010 Class A, Radiated Immunity 10V/criteria, UL60950-1 2ndEd"	Kindly Refer Corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco
1052.	4.8.18 - nDRC - SAN Switch 12 port - 10/470 (3)	10. Security - Should support DH-CHAP (between switches and end devices), FCAP switch authentication; HTTPS, Ipsec, IP filtering, LDAP with Ipv6, OpenLDAP, Port Binding, RADIUS, TACACS+, user-defined RoleBased Access Control (RBAC), Secure Copy (SCP), Secure RPC, Secure Syslog, SFTP, SSH v2, SSL, Switch Binding, Trusted Switch. Should also support up to 12 inflight encryption and compression ports.	1. Some protocol asked are specific to one OEM and restrict leading OEM participation. Kindly modify the clause as "10. Security - Should support DH-CHAP/FC-SP (between switches and end devices), FCAP switch authentication; HTTPS, IPsec, IP filtering, LDAP/OpenLDAP, RADIUS, TACACS+, user-defined Role- Based Access Control (RBAC), Secure Copy (SCP)/Secure RPC, Secure Syslog, SFTP, SSH v2"	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd



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1053.	4.8.18 - nDRC - SAN Switch 12 port - 2/470 (7)	2. Fibber Channel Ports - Should be configured with 24 x 32Gbps FC Ports or higher on day one	- The Switch name mentions that the switch should be a 12 port switch while the specifications asks for 24 ports of 32Gbps each. Please clarify whether we need to quote a 12 Port switch or a 24 Port switch with 32Gbps FC Ports each. - Please correct the switch name to SAN Switch 24 port The Switch name mentions that the switch should be a 12 port switch while the specifications asks for 24 ports of 32Gbps each. Please clarify whether we need to quote a 12 Port switch or a 24 Port switch with 32Gbps FC Ports each.	Kindly Refer Corrigendum	- Telecommunications Consultants India Limited (1,2) - Tech Mahindra (1,2) - EFKON India Pvt. Ltd(2) - NEC Corporation India Pvt. Ltd. (1,2) - Dell Technologies (1,2) - Elkosta Security Systems India (1,2) - Samsung SDS India Pvt Ltd. (1,2)
1054.	4.8.18 - nDRC - SAN Switch 12 port - 6/470 (3)	6. Port Types supported - Should support D_PORT (Clear Link Diagnostic Port), E_PORT, EX_PORT, F_PORT, AE_PORT	AE_Port is specific to one PEM and restrict leading OEM participation, hence kindly modify the clause as "6. Port Types supported - Should support D_PORT (Clear Link Diagnostic Port), E_PORT, EX_PORT, F_PORT"	Kindly refer corrigendum	- Cisco - Matrix Security & Surveillance Pvt Ltd
1055.	4.8.18 - nDRC - Firewall 3 Gig /474 (5)	New Clause for WiFi code for Firewall	- The FIREWALL solution should not have any wireless code in the offered device or its family in hardware or software and should be able to integrate with the proposed on-premise Anti-APT solution to scan for zero-day malwares from Day 1 - please clarify on the wireless code requirements ?	As per RFP	- RAH InfoTech (P) Ltd - Palo Alto Networks - NEC Corporation India Pvt. Ltd. - INTEC INFONET PVT. LTD. - Marushika Technology Advisors Pvt. Ltd. - iValue InfoSolutions



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1056.	4.8.18 - nDRC - Firewall 3 Gig - 1/474 (11)	1. Firewall architecture should be DC grade with Data and control plane are different and should be in the Gartner Challengers/ Leaders from last 5 years and the OEM must have "Recommended" rating with min 97% Evasion proof capability and Security Effectiveness as per 2019 NSS Labs Firewall Comparative Test Report. Will be added advantage.	1. NSS Labs already seized their operations. Moreover, different OEM follow different Industry certification. Hence for broader participation we requesting change the clause as "Firewall architecture should be DC grade with Data and control plane are different and should be in the Gartner Challengers/ Leaders from last 5 years and the OEM minimally attain common criteria (CC) / NSS /Forrester wave or equivalent certification" 2. Request you to please amend this clause for wider and compititive participation: Firewall architecture should be DC grade with Data and control plane are different and should be in the Gartner Challengers/ Leaders/Visionary from last 4 years and the OEM must have "Recommended" rating with min 97% Evasion proof capability and Security Effectiveness as per 2019 NSS Labs Firewall Comparative Test/Retest Report. Will be added advantage.	Kindly refer corrigendum	1. Cisco (1) 2. Forcepoint(2) 3. NEC Corporation India Pvt. Ltd.(2) 4. iValue InfoSolutions Pvt. Ltd. (2) 5. Matrix Security & Surveillance Pvt Ltd (1) 6. RAH InfoTech (P) Ltd (1) 7. Sterlite Technologies Limited(1) 8. Larsen & Toubro Ltd (1)
1057.	4.8.18 - nDRC - Firewall 3 Gig - 2/474 (3)	Firewall appliance should be supplied with at least 4x40GE QSFP, 8x10GE SFP+, 10x GE RJ45.	1. port capacity (250 Gbps) & throughput requirements are not inline.. As per guidelines this requirements seems to oversized and favoring to one specific vendor with High TCO. 3Gbps throughput requirements can be easily met with 10G interfaces. Firewall appliance should be supplied	Kindly Refer Corrigendum	1. Check Point Software Technologies(I) Pvt Ltd 2. iValue InfoSolutions Pvt. Ltd.



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			with at least 8x10/100/1000 GBE & 2x10G SFP+ interface		
1058.	4.8.18 - nDRC - Firewall 3 Gig - 4/474 (5)	The Threat prevention (FW, IPS, User identification, AVC, Antivirus, logging and Antimalware) throughput should be at least 3 Gbps on Mix / Application Mix Production traffic and should be scalable to 4.5 Gbps.	1. Proposed Change : The Threat prevention (FW, IPS, User identification, AVC, Antivirus, logging and Antimalware) throughput should be at least 3 Gbps on Mix / Application Mix Production traffic and should be scalable to 4.5 Gbps. on the same chassis without involving any device shutdown or downtime in operations. Justification : Being a critical core Firewall the scalability should not involve operational downtime. such as shutdown, reboot etc and the performance parameter should be met in a single device.	As per RFP (The solution parameters are to be met on a single device.)	1. RAH InfoTech (P) Ltd 2. Marushika Technology Advisors Pvt. Ltd. 3. NEC Corporation India Pvt. Ltd. 4. Palo Alto Networks 5. INTEC INFONET PVT. LTD.
1059.	4.8.18 - nDRC - Firewall 3 Gig - 5/474 (3)	5. Firewall should support 100K new sessions per second, from day 1	1. New session per second are measured with application visibility turned on to ensure predictable Layer-7 performance and is supported by all leading OEMs. Kindly change the clause as "Firewall should support 100K new sessions per second with application visibility turned on, from day 1"	As per RFP (MSI are free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP.)	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd Cisco



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1060.	4.8.18 - nDRC - Firewall 3 Gig - 7/474 (10)	The appliance should be secure in itself with certifications NDPP/ EAL4, FIPS/ICSA. Extra certificate will be added advantage like NEBS etc.	1. Please confirm features asked as NEBS will be under the scope of QCBS ? Request you to please amend this clause since EAL has stopped. Amend clause as : The appliance should be secure in itself with certifications NDPP/ EAL4, FIPS/ICSA. Extra certificate will be added advantage like NEBS/FCC part 15 etc. Clarification: This clause is favouring specific OEM . Kindly change as suggested to allow to leading OEMs to participate. 2. Suggestive Clause: The appliance/firmware or its family should be secure in itself with certifications NDPP/ EAL4/FIPS/ICSA. Extra certificate will be added advantage like NEBS/NSS etc. Clarification: This clause is favoring specific OEM . Kindly change as suggested to allow to leading OEMs to participate.	Kindly refer corrigendum	1. Forcepoint (1) 2. Tech Mahindra(2) 3. NEC Corporation India Pvt. Ltd. (1) 4. Larsen & Toubro Ltd(2) 5. RAH InfoTech (P) Ltd (1) 6. iValue InfoSolutions Pvt. Ltd. (1)
1061.	4.8.18 - nDRC - Firewall 3 Gig - 8/474 (17)	8. The Firewall solution should support LLDP, ECMP, NAT64, and DNS64 & DHCPv6.	1. Translation of IPs version 6 to 4 is the job of the ISP or CGN/ Links load balancer devices, Hence request you to please amend this clause as: The Firewall solution should support LLDP, ECMP, NAT& DHCPv6. 2. DNS64 is relevant and used in telco networks. In Private network, IPv6 DNS query can be served by doing DNS reply modification and will not impact the solution functionality as asked. Hence in order to have	Kindly refer corrigendum	1. Forcepoint (1) 2. Cisco (2) 3. Check Point Software Technologies(I) Pvt Ltd (3) 4. Matrix Security & Surveillance Pvt Ltd (2) 5. RAH InfoTech (P) Ltd (3,1) 6. iValue InfoSolutions Pvt. Ltd. (1)



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			participation from leading OEM, kindly change the clause as "The Firewall solution should support LLDP, ECMP, NAT64, NAT66 and DNS 64 reply modification & DHCPv6/DHCPv6 relay" 3. Hyperscale security+ platform are designed with cyber security aspects at the core with comprehensive security capabilities, not networking capabilities. All these requirements can be achieved using networking devices and are in core feature list of routers, switches & load balancers. e.g. NAT64 is core feature of CGNAT - can be achieved from routers ECMP - for load balancing - can be achieved with load balancer. DNS64 - can be achieved using load balancer/global load balancers it is requested to remove the networking requirements from the list.		7. NEC Corporation India Pvt. Ltd. (1)
1062.	4.8.18 - nDRC - Firewall 3 Gig - 9/474 (6)	The proposed system shall be able to operate on either Transparent (bridge) mode to minimize interruption to existing network infrastructure or NAT/Route mode. Both modes can also be available concurrently using Virtual Contexts. Minimum 1 Virtual Firewall licenses to be provided with the solution and should be	1. Once a Virtual node is created in Master it will follow the master mode weather L3 or L2 so please rephrase this as : The proposed system shall be able to operate on either Transparent (bridge) mode to minimize interruption to existing network infrastructure or NAT/Route mode. Both modes can also be available using Virtual Contexts. Minimum 1 Virtual Firewall licenses to be provided with the solution and	Kindly Refer Corrigendum	1. RAH InfoTech (P) Ltd 2. Forcepoint 3. iValue InfoSolutions Pvt. Ltd. 4. NEC Corporation India Pvt. Ltd.



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		scalable to 5 Virtual Firewalls in future	should be scalable to 5 Virtual Firewalls in future		
1063.	4.8.18 - nDRC - Firewall 3 Gig - 11/475 (9)	High Availability: Active/Active and Active/Passive. The proposed system shall have built-in high availability (HA) features without extra cost/license or hardware component. Firewall should support ether channel or equivalent functionality for the failover control & data interfaces for providing additional level of redundancy	- The proposed system shall have built-in high availability (HA) features including fault tolerance & All the security gateways/chassis blades /appliances must be deployed in active-active mode with N+1 clustering. without extra cost/license or hardware component - Please clarify the requirement here, since HA is created using 2 appliances and here its mentioned not to use extra hardware ? Please clarify the ask here - Please clarify the requirement here, since HA is created using 2 appliances and here its mentioned not to use extra hardware? Please clarify the ask here	As per RFP (The solution parameters are to be met on a single device.)	- iValue InfoSolutions Pvt. Ltd (2,3) - Check Point Software Technologies(I) Pvt Ltd - iValue InfoSolutions Pvt. Ltd. - RAH InfoTech (P) Ltd (2,3) - Forcepoint (2,3) - NEC Corporation India Pvt. Ltd. (2,3)
1064.	4.8.18 - nDRC - Firewall 3 Gig - 12/475 (4)	12. The proposed system should have integrated Traffic Shaping functionality. The proposed firewall shall have native network traffic classification which identifies applications across all ports irrespective of port/protocol/evasive tactics. The firewall should support QoS and Policy	Policy based routing on the basis of application is OEM favouring and restrict broader participation. Hence in order to have participation from leading OEM, kindly change the clause as "The proposed system should have integrated Traffic Shaping/Rate limiting functionality. The proposed firewall shall have native network traffic classification which identifies applications across all ports irrespective of port/protocol/evasive	Kindly Refer Corrigendum	- Cisco - Matrix Security & Surveillance Pvt Ltd - Larsen & Toubro Ltd



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		based routing on the basis of application.	tactics. The firewall should support QoS on the basis of application and Policy based routing"		
1065.	4.8.18 - nDRC - Firewall 3 Gig - 13/475 (3)	The Firewall should have integrated SSL VPN solution to cater to 1000 SSL VPN concurrent users. Tunnels (SSL, IPsec, and XAUTH) – 1K from day 1.	1. please clarify on the SSL VPN requirement? Does client less support is needed - mobile user should access internal applications without requiring any thick client ? Requirement for on-demand security for compliance check , compliance based VPN & browser protection for remote users ? 2. Browser is the entry point for recent sophisticated attacks. VPN users are the most targeted attack vector , any compromise on VPN machine can lead to lateral movement into the data center. Its is suggested to define the additional SSL VPN requirement as follows 1. SSL VPN solution should be client less for high risk application.. user should access the application without requiring internal IP address assigned to mobile user (user should not be granted network access to high risk application, only browser based access should be permitted). 2. browser should be secured with Nano agent to detect compromise. Browser plugin should restrict users to visit the malicious domain, phishing urls and provide threat prevention 3. for low risk application VPN client	As per RFP	1. Check Point Software Technologies(I) Pvt Ltd(1) 2. iValue InfoSolutions Pvt. Ltd.(1)



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			should support compliance based access and client must have ability to contain the infected client from the network. Agent should continuously scan for anomalies and disconnect the user from the network in event of compromise.		
1066.	4.8.18 - nDRC - Firewall 3 Gig - 14/475 (8)	14. Concurrent SSL Decryption sessions – 250000. This should be substantiated with document from public website or testing/R&D report data. Declaration on letterhead will not be accepted. The proposed firewall shall be able to identify, decrypt and evaluate SSL Tunnel traffic in an inbound and outbound connections	1. SSL decryption sessions are not published by every OEM and restrict broader participation. Hence in order to have participation from leading OEM, kindly remove the clause. 2. SSL sizing data depends on the various network attributes including SSL / TLS version, Cipher suits, level of decryption required for inspection. And most of the OEM's doesn't publish this data due to these dependencies. Moreover the requirement is tightly coupled with application delivery / SSL offloading requirements. Having said that its recommended to remove the clause and consider the NGFW , NFTP performance benchmarking terminology widely used by leading OEM's	Kindly refer corrigendum	1. Larsen & Toubro Ltd (1) 2. Cisco (1) 3. Check Point Software Technologies(I) Pvt Ltd (2) 4. Matrix Security & Surveillance Pvt Ltd (1) 5. iValue InfoSolutions Pvt. Ltd. (2) 6. Sterlite Technologies Limited (1)
1067.	4.8.18 - nDRC - Firewall 3 Gig - 16/475 (3)	The proposed system should support a) IPSEC VPN b) PPTP Pass through or VXLAN inspection c) L2TP VPN or GRE Tunnel and inspection of headers	1. Security platform should offer the compatibility and integration with the networking fabric. several protocols are supported for the overlay/SDN requirements basis the architecture. its suggested to alter the requirement inline with software define	Kindly Refer Corrigendum	1. Check Point Software Technologies(I) Pvt Ltd 2. iValue InfoSolutions Pvt. Ltd.



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		with 802.1Q SGT d)SSL VPN	networking standards rather than protocol specific. The proposed system should support a) IPSEC VPN b) SSL VPN c) NSX, ACI & openstack and offered solution must not have reported critical vulnerabilities in the IPsec & SSL VPN module in last 5 years.		
1068.	4.8.18 - nDRC - Firewall 3 Gig - 17/475 (3)	The device support inbuilt hardware VPN acceleration	1. Acceleration functionary is dependent on the hardware architecture. Every OEM has their own algorithms and architecture for acceleration. The device support inbuilt hardware/software VPN acceleration	Kindly Refer Corrigendum	1. Check Point Software Technologies(I) Pvt Ltd 2. iValue InfoSolutions Pvt. Ltd.
1069.	4.8.18 - nDRC - Firewall 3 Gig - 20/475 (14)	20. The proposed solution must allow single policy rule creation for application control, user-based control, host profile, threat prevention, Anti-virus, file filtering, content filtering, QoS and scheduling at single place within a single rule and not at multiple locations. There must not be different places and options to define policy rules based on these parameters.	1. This clause is one OEM favouring. Different OEM uses different approaches/methods for meeting the desired functionality. Hence in order to enable leading OEM participation, kindly change the clause as "The proposed solution must allow single policy rule creation for application control, user-based control, threat prevention/Anti-virus, file filtering, content filtering, and scheduling at single place within a single rule and not at multiple locations. There must not be different places and options to define policy rules based on these parameters" 2. OEM Specific clause, please delete this clause	Kindly Refer Corrigendum	1. Larsen & Toubro Ltd(1) 2. RAH InfoTech (P) Ltd(2) 3. Matrix Security & Surveillance Pvt Ltd(1) 4. Cisco(1) 5. Sterlite Technologies Limited(3) 6. Forcepoint (2) 7. Check Point Software Technologies(I) Pvt Ltd(3) 8. iValue InfoSolutions Pvt. Ltd.(2,3) 9. NEC Corporation India Pvt. Ltd.(2)



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			3. This clause is one OEM favouring. Different OEM uses different approaches/methods for meeting the desired functionality. Hence in order to enable leading OEM participation, kindly change the clause as "The proposed solution must allow single policy rule creation for application control, user-based control, threat prevention/Anti-virus, file filtering, content filtering, and scheduling at single place within a single rule and not at multiple locations. There must not be different places and options to define policy rules based on these parameters" 4. Check Point: Every OEM has their own algorithms and architecture to meet the policy requirements. Its requested to alter the clause as The proposed solution must allow single policy rule/package creation for application control, user-based control, host profile, threat prevention, Anti-virus, file filtering, content filtering, QoS and scheduling at single place within a single rule and not at multiple locations. There must not be different places and options to define policy rules based on these parameters.		
1070.	4.8.18 - nDRC - Firewall 3 Gig - 21/475 (6)	Should have separate real time logging base on all Traffic, Threats, User IDs, URL filtering, Data filtering,	1. Data Filtering is the feature set of a DLP solution and already asked as seperate solution, hence request you to please amend this clause as: Should	As per RFP	1. RAH InfoTech (P) Ltd 2. Forcepoint 3. iValue InfoSolutions Pvt. Ltd.



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		Content filtering, unknown malware analysis, Authentication, Tunneled Traffic and correlated log view base on other logging activities	have separate real time logging base on all Traffic, Threats, User IDs, URL filtering, Content filtering, unknown malware analysis, Authentication, Tunneled Traffic and correlated log view base on other logging activities		4. NEC Corporation India Pvt. Ltd.
1071.	4.8.18 - nDRC - Firewall 3 Gig - 22/476 (5)	22. Should support the report generation on a manual or schedule (Daily, Weekly, Monthly, etc.) basis, also should allow the report to be exported into other format such as PDF, HTML, CSV, XML etc.	1. PDF and HTML as commonly supported report formats and CSV is used for log exports. Hence request you to please amend this clause as : The logging Appliance should support multiple types of report format PDF and HTML for reporting, and CSV for log exports Not all formats are supported by each OEM, hence in order to have participation from leading OEM, kindly change the clause as "Should support the report generation on a manual or schedule (Daily, Weekly, Monthly, etc.) basis, also should allow the report to be exported into other format such as PDF, HTML, CSV/XML." 2. Not all formats are supported by each OEM, hence in order to have participation from leading OEM, kindly change the clause as "Should support the report generation on a manual or schedule (Daily, Weekly, Monthly, etc.) basis, also should allow the report to be exported into other format such as PDF, HTML, CSV/XML."	Kindly refer corrigendum	1. Forcepoint (1) 2. Larsen & Toubro Ltd (2) 3. Cisco(2) 4. Matrix Security & Surveillance Pvt Ltd (2) 5. RAH InfoTech (P) Ltd (1) 6. iValue InfoSolutions Pvt. Ltd. (1) 7. Sterlite Technologies Limited (2) 8. NEC Corporation India Pvt. Ltd. (1)



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1072.	4.8.18 - nDRC - Firewall 3 Gig - 25/476 (6)	On device management service should be able to provide all the mentioned features in case of central management server failure	1. Request you to please amend this clause as: On device management service should be able to provide Command line access to perform reset the appliance and use Features like Firewall, IPS, Application control features in case of central management server failure	As per RFP	1. Forcepoint 2. iValue InfoSolutions Pvt. Ltd. 3. RAH InfoTech (P) Ltd 4. NEC Corporation India Pvt. Ltd.
1073.	4.8.18 - nDRC - Firewall 3 Gig - 28/476 (3)	The proposed system shall have the ability to detect, log and take action against network traffic based on over 3000 application signatures	1. Sensors would be deployed for the surveillance and other safety requirements. By design sensor doesn't offer strong security controls. IoT sensors are low hanging connected devices for the cyber criminals. Adversaries can use the compromised sensors to gain the foot hold on the network. The security gateway should have visibility of IOT protocols and must have ability deploy virtual patch for OS & application vulnerabilities. Our recommendation is to include the IoT applications in addition to public facing application user access. 2. The proposed system shall have the ability to detect, log and take action against network traffic based on over 3000 application signatures & over 1000 IoT and OT applications and commands to secure the IoT based communication. Solution should have ability to record the inventory of the sensors trying to connect to internet. solution must provide deducted IoT security policy enforcement with IoT protocol layer	As per RFP (MSI are free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP)	1. Check Point Software Technologies(I) Pvt Ltd(1) 2. iValue InfoSolutions Pvt. Ltd.(1)



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			based on sensor data collected by security controller.		
1074.	4.8.18 - nDRC - Firewall 3 Gig - 30/476 (5)	30. Static, RIP v2, OSPFv2/v3, Application based PBR, BGP v4 with graceful restart	1. Policy based routing on the basis of application is OEM favouring and restrict broader participation. Hence in order to enable leading OEM participation, kindly change the clause as "Static, RIP v2, OSPFv2/v3, PBR, BGP v4 with graceful restart"	Kindly refer corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd 3. Sterlite Technologies Limited 4. Larsen & Toubro Ltd
1075.	4.8.18 - nDRC - Firewall 3 Gig - 31/476 (4)	Firewall appliance should have integrated redundant hot swappable power supply and hot swappable fan tray.	1. Clarification: Kindly change as suggested to allow participation from all leading OEMs. Suggestive Clause: Firewall appliance should have integrated redundant hot swappable power supply and hot swappable fan tray or multiple fan modules. 2. Kindly relax the requirement, since performance can be met with 1U/2U appliances. Firewall appliance should have integrated redundant hot swappable power supply and redundant fan.	Kindly refer corrigendum	1. Tech Mahindra (1) 2. NEC Corporation India Pvt. Ltd. (1) 3. Check Point Software Technologies(I) Pvt Ltd (2) 4. Larsen & Toubro Ltd (1) 5. Fortinet (1) 6. iValue InfoSolutions Pvt. Ltd. (2)

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1076.	4.8.18 - nDRC - Firewall 3 Gig - 32/476	Proposed Firewall should not be proprietary ASIC-based in nature & should be open architecture based on multi-core CPU's to protect & scale against dynamic latest security threats.	3. Suggestive Clause: Proposed Firewall should not be proprietary ASIC-based in nature, if it is then can be disabled. Proposed Firewall should be open architecture based on multi-core CPU's to protect & scale against dynamic latest security threats. 4. Clarification: All OEMs have their own architecture to deliver the required	Kindly Refer corrigendum	1. Tech Mahindra (2) 2. NEC Corporatio India Pvt. Ltd. (2) 3. Larsen & Toubro Ltd (1) 4. Fortinet (2)



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			performance. We understand that objective is to ensure that proposed solution should comply to the performance & functional parameters asked in RFP. Any OEM should not be restricted to participate based on the architecture it follows. Fortinet provides best of performance & features among all competitors and hold a leading position in Security Effectiveness, Ability to Execute, Completeness of Vision (as highlighted in third party evaluation reports by GARTNER, NSS etc). Because of ASIC (Application specific integrated circuit) based architecture, Fortigate delivers high performance on the box, which directly translates to more optimized solution offering with lower TCO. This clause is restricting participation of a leading OEM (recognized by Gartner, NSS etc.) from bidding. This point has no significance in deriving solution. Suggest to delete this clause so that all leading OEMs participate equally. 5. Suggestive Clause: Proposed Firewall should not be proprietary ASIC-based in nature, if it is then can be disabled. Proposed Firewall should be open architecture based on multi-core CPU's to protect & scale against dynamic latest security threats.		
1077.	4.8.18 - nDRC - Firewall 3 Gig -	The proposed system shall allow administrator to prevent sensitive data from	1. A proper data classification (data in use, motion, rest) is required for preventing data leakage and Firewall's can't classify	Kindly Refer Corrigendum	1. Forcepoint (2) 2. Cisco (1) 3. Matrix Security



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	34/476 (10)	leaving the network. Administrator shall be able to define sensitive data patterns, and data matching these patterns that will be blocked and/or logged when passing through the unit.	the data. Also, RFP already has detailed DLP solution specifications at Page 509, hence this clause needs to be deleted in order to have participation from leading OEM. Kindly remove this clause. 2. This is a feature of a dedicated DLP solution and same has been asked in the bid separately as well. Hence request you to please delete this clause		Surveillance Pvt Ltd (1) 4. RAH InfoTech (P) Ltd (2) 5. iValue InfoSolutions Pvt. Ltd. (2) 6. Sterlite Technologies Limited (1) 7. NEC Corporation India Pvt. Ltd. (2)
1078.	4.8.18 - nDRC - Firewall 3 Gig - 35 A/476 (7)	The proposed system shall have built-in high availability (HA) features without extra cost/license or hardware component	Please clarify the requirement here, since HA is created using two appliances and here its mentioned not to use extra hardware? Please clarify the ask here	As per RFP (yes, MSI free to provide extra hardware without any cost implications)	1. Forcepoint 2. Larsen & Toubro Ltd 3. NEC Corporation India Pvt. Ltd. 4. RAH InfoTech (P) Ltd 5. iValue 6. InfoSolutions Pvt. Ltd.
1079.	4.8.18 - nDRC - Network Load Balancer /477 (2)	Additional Clause	As per RFP other security solutions like WAF is asked with EAL/NDcPP clause to measure the security certification of proposed device. Load Balancer is also a Critical component like other security solution, Hence we request to include EAL/NDcPP clause for DDoS solution as well. Request to change clause as "Offered solution should be EAL or NDPP (Network Device Protection Profile) / FIPS certified under Common Criteria Program for security related functions	As per RFP	1. F5
1080.	4.8.18 - nDRC - Network Load Balancer - 1/477 (4)	The Load Balancer shall distribute traffic efficiently while ensuring high application availability. It shall monitor server health to determine that application servers are not only reachable but alive. If the	1. As per clause 4.8.14 DC- Functional requirements & KPIs: iii. It will complement the load balancing actions of a dedicated Network Load Balancer in case of multiple ISP on a multicast network. Also, it will ensure aggregation and redundancy with NLB and core switch. As per Network Load Balancer	Kindly refer correngidum	1. F5 (1) 2. NEC Corporation India Pvt. Ltd. (2) 3. VMware Software India Pvt Limited (3) 4. RADWARE (4)



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		Load Balancer detects issues, it shall automatically remove downed servers from the server pool and rebalance traffic among the remaining servers. It shall be appliance based and shall facilitate multi-vendor, multi-application environment and shall support thirdparty products	specification it is more on Server load balancer instead of Link/ISP load Balancing. If requirement is of ISP/Link load Balancing request to modify the case as "The Load Balancer shall distribute traffic efficiently while ensuring high ISP/Link availability. It shall monitor link health to determine that ISP/Links are not only reachable but alive. If the Load Balancer detects issues, it shall automatically remove downed ISP/Link from the pool and rebalance traffic among the remaining ISP pool." 2. As per Government guidelines, there should open standards used for any system, it is suggested to use the standard VRRP for high availability between two appliances. It is suggested to amend the clause as "The Load Balancer shall deliver the high availability required by modern Data Centers. It should support Active/Passive or Active / Active HA configurations using standard VRRP (RFC – 2338). The Load Balancer shall automatically synchronize configurations between the pair and automatically failover if any fault is detected with the primary unit. 3. As you are aware, software based load balancer provides better flexible Implementation, scalability, ease of deployment and security without any restriction of features. Request you to allow even software load balancer. You		



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			may rephrase the statement as: 1. The Load Balancer shall distribute traffic efficiently while ensuring high application availability. It shall monitor server health to determine that application servers are not only reachable but alive. If the Load Balancer detects issues, it shall automatically remove downed servers from the server pool and rebalance traffic among the remaining servers. It shall be appliance/ software based and shall facilitate multi-vendor, multi-application environment and shall support third party products 4. For Security reasons, Device OS should be hardened and should not support any Open Source or Third party Software to Run within the device Itself. This may expose device to various malwares/viruses which may impact device functionality. Suggested Clause: The Load Balancer shall distribute traffic efficiently while ensuring high application availability. It shall monitor server health to determine that application servers are not only reachable but alive. If the Load Balancer detects issues, it shall automatically remove downed servers from the server pool and rebalance traffic among the remaining servers. It Should not Support any 3rd party/ open Source Software to install on the Proposed Appliance.		



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1081.	4.8.18 - nDRC - Network Load Balancer - 10/478 (3)	The server load balancer should have dedicated SSL card to support Minimum 28,000 q TPS (ECDSA-SHA256) & 40,000 SSL TPS 2K Keys.	1. Considering the scalable throughput requirement of Load Balancer form 5 GBPS to 20Gbps of SSL TPS must be scalable as well, also TPS ask is higher side compare to Throughput requirement. Request to change clause as " The server load balancer should have dedicated SSL card to support Minimum 3,000 ECC TPS (ECDSA-SHA256) & 5,000 SSL TPS 2K Keys and scalable up to Minimum 6000 ECC TPS (ECDSA-SHA256) & 10,000 SSL TPS." 2. In Order to achieve maximum participation and Allow Industry Leading OEM's to Qualify, we request to Generalize Sizing Parameters. The Proposed Device is Oversized, which will Incur Additional Overhead cost to Government of India. The Device should be Sized According to the Other Equipment Asked as Part of RFP. Suggested Clause: The server load balancer should have dedicated SSL card to support Minimum 12K SSL TPS/CPS with ECC Key & 20K SSL TPS/CPS with 2K Keys. Device should Support SSL Throughput of 10 Gbps.	Kindly refer corrigendum:	1. F5 (1) 2. RADWARE (2)
1082.	4.8.18 - nDRC - Network Load Balancer - 11/478 (8)	11. The sever load balancer should support Minimum 128GB RAM, 4TB HDD and should have minimum 4x1GbE copper ports, 4x10GbE SFP+ ports. Two 1G Copper dedicated management interface	40. Every OEM have different architecture to achieve the performance requirement. Like Windows OS need higher compute (CPU,Memory,HHD) to install any application while Linux OS take very less compute (CPU,Memory,HHD) to run same application. Defining the memory and HDD is providing undue advantage to	Kindly refer corrigendum	1. F5 (1) 2. RADWARE (2) 3. iValue InfoSolutions Pvt. Ltd. (3) 4. A10 Networks (3) 5. NEC Corporation India Pvt. Ltd. (3) 6. VMware Software India Pvt Limited (4)



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			single OEM. Hence request to change clause as "The sever load balancer should support enough RAM and HDD capacity to achieve the performance clause of Load Balancer and should have minimum 4x1GbE copper ports, 4x10GbE SFP+ports. One 1G Copper dedicated management interface" 41. In Order to achieve maximum participation and Allow Industry Leading OEM's to Qualify, we request to Generalize Sizing Parameters. The Proposed Device is Oversized, which will Incur Additional Overhead cost to Government of India. The Device should be Sized According to the Other Equipment Asked as Part of RFP. Device should have enough Storage to cater any possible requirement also it does not affect the functionality of appliance in anyway. For Log storage the centralized management station can be proposed for better correlation and forensics. Suggested Clause: The proposed appliance Should support 4 X 10 GE SFP+, 4 x 1 GE SFP , 4 x 1 GE RJ45 and Support Additional 12 x 1 GE SFP , 4 x 1 GE RJ45 for Future Use. Two 1G Copper dedicated management interface Memory: 32GB. Processor: Intel 12-core CPU The Solution should be proposed with Centralized Management, Logging, and Reporting functionality. 42. Physical specification requirement like RAM and HDD depends on archirecture		



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			of the hardware and OS and vary from OEM to OEM , since required performance is already mentioned in the compliance we request to remove the restriction of RAM and HDD 43. This point inclined towards hardware load balancer only. Request you to delete this point and allow the software based load balancer. or You may rephrase the statement as: 11. The sever load balancer should support Minimum 128GB RAM, 4TB HDD and should have minimum 4x1GbE ports.		
1083.	4.8.18 - nDRC - Network Load Balancer - 12/478 (1)	Local Application Switching, Server load Balancing, HTTP, TCP Multiplexing, Compression, Caching, TCP Optimization, Filter-based Load Balancing, Transparent Deployments, Content-based Load Balancing, Persistency, HTTP Content Modifications, QoS, Support for connection pooling to TCP request, Support for distributed denial-ofservice (DDos) protection	This point is inclined towards particular OEM/ vendor. Request you to rephrase this point to allow the other OEMs to participate in this opportunity. You may rephrase the statement as: 12. Local Application Switching, Server load Balancing, HTTP, TCP Multiplexing, Compression, Caching, TCP Optimization, Filter-based Load Balancing, Transparent/ Proxy mode Deployments, Content-based Load Balancing, Persistency/ HTTP Content Modifications, QoS, Support for connection pooling to TCP request, Support for distributed denial-ofservice (DDos) protection	As per RFP	1. VMware Software India Pvt Limited
1084.	4.8.18 - nDRC - Network Load Balancer - 14/478 (2)	Solution should support DDos attacks from day one like Protocol Attack: SSL invalid packet, SSL handshake attack, SSL renegotiation, HTTP invalid packet attack – Application	1. Dedicated Security Solution Such as Anti-DDoS Prevention, Intrusion Prevention Systems, Firewall, Web Application Firewall etc is Already Asked in the RFP. Also, Adding Security Functionality in LB will Include Additional Unnecessary Performance	Kindly Refer Corrigendum	1. RADWARE 2. VMware Software India Pvt Limited



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		Attacks: HTTP slow attack, HTTP flood attack, long form submission, Challenge Collapsar (CC), Hashdos, DNS NXDomain flood – Network Attacks: SYN flood, ICMP flood, Ping of Death, Smurf, IP option – HTTP & DNS ACL rules, ACL blacklist – Monitoring and Logging: PUSH/ ACK flood, FIN/RST flood, Connection flood, UDP flood – Machine learning of traffic patterns and automatic configuration of HTTP/DNS thresholds to defend against anomalous traffic	and License Costing to the Solution. Hence we Request you to remove this Clause. Suggested Clause: Kindly Remove this Clause. 2. This point is inclined towards particular OEM/ vendor. Request you to rephrase this point to allow the other OEMs to participate in this opportunity. You may rephrase the statement as: 14. Solution should support DDos attacks from day one like Protocol Attack: SSL invalid packet, SSL handshake attack, SSL renegotiation, HTTP invalid packet attack Application Attacks: HTTP slow attack, HTTP flood attack, long form submission, Challenge Collapsar (CC), Hashdos, DNS NXDomain flood Network Attacks: SYN flood, ICMP flood, Ping of Death, Smurf, IP option HTTP & DNS ACL rules, ACL blacklist Monitoring and Logging: PUSH/ ACK flood, FIN/RST flood, Connection flood, UDP flood Machine learning of traffic patterns and automatic configuration of HTTP/DNS thresholds to defend against anomalous traffic		
1085.	4.8.18 - nDRC - Network Load Balancer - 15/478 (2)	Should support machine authentication based on combination of HDD ID, CPU info and OS related parameters i.e. mac address to provide secure access to Data Center resources.	1. As per Industry Standard, Remote Authentication is not the Functionality of a Load Balancer. Hence we Request you to Remove this Clause. Suggested Clause: Kindly Remove this Clause 2. This point is inclined towards particular OEM/ vendor. Request you to delete the point to allow the other OEMs to participate in this opportunity. Kindly delete this point.	Kindly Refer Corrigendum	1. RADWARE (1) 2. VMware Software India Pvt Limited (2)



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1086.	4.8.18 - nDRC - Network Load Balancer - 2/477 (1)	The Load Balancer shall deliver the high availability required by modern Data Centers. It should support Active/Passive or Active / Active HA configurations. The Load Balancer shall automatically synchronize configurations between the pair and automatically failover if any fault is detected with the primary unit	As per Government guidelines, there should open standards used for any system, it is suggested to use the standard VRRP for high availability between two appliances. It is suggested to amend the clause as " The Load Balancer shall deliver the high availability required by modern Data Centers. It should support Active/Passive or Active / Active HA configurations using standard VRRP (RFC - 2338). The Load Balancer shall automatically synchronize configurations between the pair and automatically failover if any fault is detected with the primary unit.	As per RFP (MSI can considered VRRP for HA between two appliance)	1. Tech Mahindra
1087.	4.8.18 – nDRC – Network Load Balancer – 16/478 (1)	Supports SAML secure application access – Supports web single sign-on (SSO) – Serves as a SAML SP (service provider)	As per Industry Standard, Remote Authentication is not the Functionality of a Load Balancer. Hence we Request you to Remove this Clause. Suggested Clause: Kindly Remove this Clause	Kindly Refer Corrigendum	1. RADWARE
1088.	4.8.18 - nDRC - Network Load Balancer - 3/477 (1)	3. The load balancer shall be built on high-performance hardware, designed for Data Centers. It shall deliver application traffic of all types and scalable to meet the throughput needs of the most demanding applications	As you are aware, software based load balancer provides better flexible Implementation, scalability, ease of deployment and security without any restriction of features. Request you to allow even software load balancer. You may rephrase the statement as: 3. The load balancer shall be built on high-performance hardware/ software based solution, designed for Data Centers. It shall deliver application traffic of all types and scalable to meet the throughput needs of the most demanding applications	As per RFP	1. VMware Software India Pvt Limited
1089.	4.8.18 - nDRC - Network Load Balancer -	Solution should capable of blocking access through anonymous services (TOR,	1. Dedicated Security Solution Such as Anti-DDoS Prevention, Intrusion Prevention Systems, Firewall, Web	Kdindly Refer Corrigendum	1. RADWARE (1) 2. VMware Software India Pvt Limited (2)



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	17/478 (2)	VPN, open proxies, anonymizers)	Application Firewall etc is Already Asked in the RFP. Also, Adding Security Functionality in LB will Include Additional Unnecessary License Costing to the Solution. Hence we Request you to remove this Clause. Suggested Clause: Kindly Remove this Clause. 2. This point is inclined towards particular OEM/ vendor. Request you to rephrase this point to allow the other OEMs to participate in this opportunity. You may rephrase the statement as: 17. Solution should capable of blocking access through anonymous services (TOR/ VPN/ open proxies/ anonymizers)		
1090.	4.8.18 - nDRC - Network Load Balancer - 4/477 (1)	4. The Load Balancer shall support offloading of SSL connections and should support Certificate format such as "OpenSSL/ Apache, *.PEM", "MS IIS, *.PFX", and "Netscape, *.DB" etc. or better.	This point is inclined towards particular OEM/ vendor. Request you to delete the point to allow the other OEMs to participate in this opportunity. or You may rephrase the statement as: 4. The Load Balancer shall support offloading of SSL connections and should support Certificate format such as "OpenSSL/ Apache / *.PEM" / "MS IIS / *.PFX" / "Netscape/ *.DB" etc. or better. Integre: Mnetioned specs under Data Leakage Prevention are of Endpoint Protection. Hence request you to change the heading of section from Data Leakage Prevention to Endpoint Protection	As per RFP	1. VMware Software India Pvt Limited 2. Integre



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
1091.	4.8.18 - nDRC - Network Load Balancer - 5/478 (1)	5. Should provide support for cache rules/filters to define granular cache policies based on cache-control headers, host name, file type, max object size, TTL objects etc.	This point is inclined towards particular OEM/ vendor. Request you to delete the point to allow the other OEMs to participate in this opportunity. or You may rephrase the statement as: 5. Should provide support for cache rules/filters to define granular cache policies based on cache-control headers, host name/ file type, max object size, TTL objects etc.	As per RFP	1. VMware Software India Pvt Limited
1092.	4.8.18 - nDRC - Network Load Balancer - 6/478 (1)	The Load Balancer Shall have full traffic control and be able to route requests to servers based on region, device, browser, or a number of other factors. This enables organization to deliver customized application responses to users.	This point is inclined towards particular OEM/ vendor. Request you to delete the point to allow the other OEMs to participate in this opportunity. or You may rephrase the statement as: 6. The Load Balancer Shall have full traffic control and be able to route requests to servers based on region/ device/ browser, or a number of other factors. This enables organization to deliver customized application responses to users.	As per RFP	1. VMware Software India Pvt Limited
1093.	4.8.18 - nDRC - Network Load Balancer - 7/478 (3)	7. Should be high performance purpose built next generation multitenant hardware with NFV and SDN support. Platform should support multiple network functions including Server Load balancing, Application Security, Secure remote access and AAA network functions with dedicated	1. This point is inclined towards particular OEM/ vendor. Request you to rephrase the point to allow the other OEMs to participate in this opportunity. You may rephrase the statement as: 7. Should be high performance purpose built next generation multitenant hardware with NFV and SDN support. Platform should support multiple network functions including Server Load balancing, Application Security	Kindly refer corrigendum	1. VMware Software India Pvt Limited(1) 2. RADWARE(7,2,3) 3. RAH InfoTech (P) Ltd(2)



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		hardware resources for each virtual instance.	and AAA network functions with dedicated resources for each virtual instance. 2. The device should support next generation features like Virtualization that can that virtualizes the Device resources—including CPU, memory, network, and acceleration resources to provide complete separate environment from applications and management perspective. This provides the device with multiple virtual devices with individual boot options as multiple device has been as a part of single solution. Suggested Clause: The proposed appliance should have hypervisor based Virtualization feature that virtualizes the Device resources—including CPU, memory, network, I/O interfaces and acceleration resources. Each virtual instance contains a complete and separated environment of the following: a)Hardware Resources, b)Configurations, c)Management. d)OS The proposed device should have 5 Virtual Instances from Day 1 and scalable upto 10 Virtual Instances. 3. The device should support next generation features like Virtualization with its own Hypervisor (Not any open source or third party) that can that virtualizes the Device resources—		



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			including CPU, memory, network, configuration, operating system and acceleration resources to provide complete separate environment from applications and management perspective. Suggested Clause: The proposed appliance should have hypervisor based Virtualization feature with its own Hypervisor (Not any open source or third party) that virtualizes the Device resources—including CPU, memory, network, configuration, operating system and acceleration resources. The proposed device should have 5 Virtual Instances from Day 1 and scalable upto 30 Virtual Instances.		
1094.	4.8.18 - nDRC - Network Load Balancer - 8/478 (1)	8. Appliance should provide real time Dynamic Web Content Compression to reduce server load and solution should provide selective compression for Text, HTML, XML, DOC, Java Scripts, CSS, PDF, PPT, and XLS Mime types.	This point is inclined towards particular OEM/ vendor. Request you to rephrase the point to allow the other OEMs to participate in this opportunity. You may rephrase the statement as: 8. Appliance/ software based solution should provide real time Dynamic Web Content Compression to reduce server load and solution should provide selective compression for Text/ HTML/ XML/ DOC/ Java Scripts/ CSS/ PDF/ PPT/ XLS / Mime types.	As per RFP	1. VMware Software India Pvt Limited
1095.	4.8.18 - nDRC - Network Load Balancer - 9/478 (5)	The server load balancer should deliver 5Gbps L4 Throughput from day one and scalable to 40Gbps on same hardware with license upgrade	1. Factoring scalability from day 1 will help in accounting upgrade cost, we request to modify the clause as "The server load balancer should deliver 40 Gbps L4 Throughput from day one" factoring scalability from day 1 will help	Kindly refer corrigendum:	1. A10 Networks (1) 2. iValue InfoSolutions Pvt. Ltd.(1) 3. VMware Software India Pvt Limited (2)



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			in accounting upgrade cost , we request to modify the clause as "The server load balancer should deliver 40 Gbps L4 Throughput from day one" 2. This point is inclined towards particular OEM/ vendor. Request you to rephrase this point to allow the other OEMs to participate in this opportunity. You may rephrase the statement as: 9. The server load balancer should deliver 5Gbps L4 Throughput from day one and scalable to 40Gbps with license upgrade factoring scalability from day 1 will help in accounting upgrade cost, we request to modify the clause as "The server load balancer should deliver 40 Gbps L4 Throughput from day one" 3. 8 times scalability of network load balancer is higher side as other critical component like Firewall are asked for required throughput scalability at least 2 times of day-1. Hence request to change clause as " The server load balancer should deliver 5Gbps L4 Throughput from day one and scalable to 20Gbps on same hardware with license upgrade"		4. NEC Corporation India Pvt. Ltd. (1)
1096.	4.8.18 - nDRC - Network Load Balancer/479 (2)	New Clause Request	1. Industry standard certification must be considered. Suggested Clause: OEM should be present in Gartner's "LEADER" magic quadrant for ADC as per latest Published Report. OEM Should Have TAC based in INDIA. The proposed OEM should be Parent Technology OEM only (Should not be	As per RFP	1. RAH InfoTech (P) Ltd (2) 2. RADWARE (1)



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			Whitelabled or Co-branding or 3rd Party Technology). Industry standard certification must be considered. 2. Other Components in the RFP is Asked with Gartner's Qualification. Hence we request you to Include Gartner Leaders as OEM's Pre-Qualification Criteria to ensure Healthy Competition between Market Leaders. Note that 3 OEM's Qualify in Gartner's Leader Quadrant for ADC. Suggested Clause: OEM should be present in Gartner's "LEADER" magic quadrant for ADC as per latest Published Report. OEM Should Have TAC based in INDIA. The proposed OEM should be Parent Technology OEM only (Should not be Whitelabled or Co-branding or 3rd Party Technology).		
1097.	4.8.18 - nDRC - Network Load Balancer - 14/479 (2)	14. Solution should support DDos attacks from day one like Protocol Attack: SSL invalid packet, SSL handshake attack, SSL renegotiation, HTTP invalid packet attack – Application Attacks: HTTP slow attack, HTTP flood attack, long form submission, Challenge Collapsar (CC), Hashdos, DNS NXDomain flood – Network Attacks: SYN flood, ICMP flood, Ping of Death, Smurf, IP option – HTTP & DNS ACL	1. This point is inclined towards particular OEM/ vendor. Request you to rephrase this point to allow the other OEMs to participate in this opportunity. You may rephrase the statement as: 14. Solution should support DDos attacks from day one like Protocol Attack: SSL invalid packet, SSL handshake attack, SSL renegotiation, HTTP invalid packet attack Application Attacks: HTTP slow attack, HTTP flood attack, long form submission, Challenge Collapsar (CC), Hashdos, DNS NXDomain flood Network Attacks: SYN flood, ICMP flood, Ping of Death, Smurf,	Kindly Refer Corrigendum	1. VMware Software India Pvt Limited(1) 2. RADWARE (2)



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		rules, ACL blacklist - Monitoring and Logging: PUSH/ ACK flood, FIN/RST flood, Connection flood, UDP flood - Machine learning of traffic patterns and automatic configuration of HTTP/DNS thresholds to defend against anomalous traffic	IP option HTTP & DNS ACL rules, ACL blacklist Monitoring and Logging: PUSH/ ACK flood, FIN/RST flood, Connection flood, UDP flood Machine learning of traffic patterns and automatic configuration of HTTP/DNS thresholds to defend against anomalous traffic 2. Dedicated Security Solution Such as Anti-DDoS Prevention, Intrusion Prevention Systems, Firewall, Web Application Firewall etc is Already Asked in the RFP. Also, Adding Security Functionality in LB will Include Additional Unnecessary Performance and License Costing to the Solution. Hence we Request you to remove this Clause. Suggested Clause: Kindly Remove this Clause.		
1098.	4.8.18 - nDRC - Network Load Balancer - 15/479 (1)	15. Should support machine authentication based on combination of HDD ID, CPU info and OS related parameters i.e. mac address to provide secure access to Data Center resources.	This point is inclined towards particular OEM/ vendor. Request you to delete the point to allow the other OEMs to participate in this opportunity. Kindly delete this point.	Kindly Refer Corrigendum	1. VMware Software India Pvt Limited
1099.	4.8.18 - nDRC - Network Load Balancer - 18/479 (4)	18. Solution Must Prevents modifying the form data and cookies on the client side by controlling their invariability between the request and the response with Cookie Signing, Form Signing and AJAX requests Signing.	1. Dedicated Security Solution Such as Anti-DDoS Prevention, Intrusion Prevention Systems, Firewall, Web Application Firewall etc. is Already Asked in the RFP. Also, Adding Security Functionality in LB will Include Additional Unnecessary License Costing to the Solution. Hence we Request you to remove this Clause.	Kindly Refer Corrigendum	1. RADWARE (1) 2. VMware Software India Pvt Limited(2) 3. RAH InfoTech (P) Ltd (1)



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			Suggested Clause: Kindly Remove this Clause. 2. This point is inclined towards particular OEM/ vendor. Request you to delete the point to allow the other OEMs to participate in this opportunity. or You may rephrase the statement as: 18. Solution Must Prevents modifying the form data and cookies on the client side by controlling their invariability between the request and the response with Cookie Signing/ Form Signing/ AJAX requests Signing.		
1100.	4.8.18 - nDRC - Network Load Balancer - 20/479 (4)	20. It should support integrated antivirus module for scanning of malicious content in files uploads and should be able to integrate with the proposed on-premise Anti-APT, SIEM, DLP solution to scan for zero-day malwares from Day 1	1. Dedicated Security Solution Such as Anti-DDoS Prevention, Intrusion Prevention Systems, Firewall, Web Application Firewall etc. is Already Asked in the RFP. Also, Adding Security Functionality in LB will Include Additional Unnecessary License Costing to the Solution. As per Industry Standard, Anti-Virus is not the Functionality of a Load Balancer. Hence we Request you to remove this Clause. Suggested Clause: Kindly Remove this Clause. 2. This point is inclined towards particular OEM/ vendor. Request you to delete the point to allow the other OEMs to participate in this opportunity. Or You may rephrase the statement as: 20. It should support integration antivirus module for scanning of	Kindly Refer Corrigendum	1. RADWARE (1) 2. VMware Software India Pvt Limited (2) 3. RAH InfoTech (P) Ltd (1) 4. RADWARE(1)



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			malicious content in files uploads and should be able to integrate with the proposed on-premise Anti-APT, SIEM, DLP solution to scan for zero-day malwares from Day 1		
1101.	4.8.18 - nDRC - Network Load Balancer - 21/479 (3)	High Availability: 21. It should have feature of Global Server Load Balancing between different Data Centers without any additional license, from Day 1.	1. Request you to please confirm on the required environment for deployment & implementation of DMS & workflow system at Delhi Police for Safe city project, 1. Production (Stand-alone or in A-A or A-P clustering mode) 2. DR (what percentage of DC) 3. Test / UAT / Development Environment (Stand-Alone) Please confirm on the environment. The local server load balancing functionality is used to work as Authorities DNS for applications hosted in DC/DR. it should works as full DNS and support various DNS records. It is suggested to amend the clause as" It should have feature of Global Server Load Balancing between different Data Centers without any additional license, from Day 1 and should support advance functions Authoritative name sever, Full DNS bind records including A,MX, AAAA, CNAME, PTR, SOA etc. 2. The local server load balancing functionality is used to work as Authorities DNS for applications hosted in DC/DR. it should works as full DNS and support various DNS records. It is suggested to amend the clause as" It	As per RFP	1. Newgen Software Technologies(1) 2. NEC Corporation India Pvt. Ltd. (2)



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			should have feature of Global Server Load Balancing between different Data Centers without any additional license, from Day 1 and should support advance functions Authoritative name sever, Full DNS bind records including A,MX, AAAA, CNAME, PTR, SOA etc.		
1102.	4.8.18 - nDRC - Network Load Balancer - 22/479 (3)	The solution should provide comprehensive and reliable support for high availability and N+1 clustering based on stateful session failover with Active-active & active standby unit redundancy mode. Also support Single System Image for Load Balancer Function to create a single VIP (single ADC instance) out of any number of dedicated, virtualized or virtual ADV appliances to provide ultimate flexibility in scaling out.	As per industry standard, the proposed appliance should support Active-active and Active-passive mode of high Availability using Industry standard VRPP Protocol defined as per RFC-2338. It should not use any prosperity protocol for High Availability. Suggested Clause. The proposed device should support standard VRRP (RFC - 2338) for High Availability purpose (no proprietary protocol). The Load Balancer shall deliver the high availability required by modern Data Centers. It should support Active/Passive or Active / Active HA configurations.	As per RFP	1. RADWARE 2. RAH InfoTech (P) Ltd
1103.	4.8.18 - nDRC - Miscellaneous/ 479 (2)	Miscellaneous- Virtualization, OS for servers, etc. Virtualization Physical Servers 12 12 server Virtualization Security Windows OS -11 Server - 12 Physical Servers using two sockets in total 24 (12*2) quantity required for virtualization servers - 12 physical servers using two sockets in total 24 (12*2) quantity required for	Request to open this specification and provide the option to SI to choose between Windows & Linux OS Integre: Request to open this specification and provide the option to SI to choose between Windows & Linux OS	Kindly Refer Corrigendum	1. PruTech Solutions India Pvt. Ltd. 2. Bodhtree 3. Integre



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		security of DMZ virtualization servers Microsoft Windows OS for Virtualization Servers - 11 Physical Servers each having 4 VM's (Total 44 VM's). For each server we need to consider license for 40+40=80 cores (5 licenses of 16 cores) - Windows Server Data Center Edition 64-bit latest version			
1104.	4.8.18 - nDRC - Virtualization - 3/480 (1)	Live Virtual Machine migration between different generations of CPUs in the same cluster and without the need for shared storage option and long distances from one site to another with no disruption to users or loss of services, eliminating the need to schedule application downtime or business downtime.	Considering the security, we would recommend to consider encrypted live migration between and across clusters and also datacenters You may rephrase the statement as: Encrypted Live Virtual Machine migration between different generations of CPUs in the same cluster and without the need for shared storage option and long distances from one site to another with no disruption to users or loss of services, eliminating the need to schedule application downtime or business downtime.	Kindly Refer Corrigendum	1. VMware Software India Pvt Limited
1105.	4.8.18 - nDRC - Virtualization - 14/481 (1)	14. The Solution should offer virtual load balancers with L4-L7 load balancer with SSL offload and pass-through, server health checks	The clause is specific to one OEM and relaxing the clause will not impact the desired functionality of the solution and will broaden the leasing OEM participation. Kindly modify the clause as "The Solution should offer integration with physical and virtual L4-L7 load balancers"	Kindly Refer Corrigendum	1. Cisco
1106.	4.8.18 - nDRC - Virtualization - 17/481 (6)	Security. 17. Solution should protect every Virtual Machine with a stateful distributed firewall	1. Kindly clarify if agentless protection with firewall is required for securing server endpoints / virtual machines.	Kindly Refer Corrigendum	1. TREND MICRO (1) 2. Cisco (2) 3. HPE (1)



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		integrated into the host architecture and provide near line rate firewall throughput.	2. The clause is specific to one OEM and relaxing the clause will not impact the desired functionality of the solution and will broaden the leasing OEM participation. Kindly modify the clause as "Solution should protect every Virtual Machine, bare metal host, analytics host with a stateful or stateless distributed firewall integrated into the host architecture."		4. PruTech Solutions India Pvt. Ltd.(1) 5. Larsen & Toubro Ltd (1) 6. Bodhtree (1)
1107.	4.8.18 - nDRC - Virtualization - 18/481 (1)	Security 18. Solution should enable creation of security groups and security policies/ rules based on constructs like machine name, OS type, IP address, Logical Switches, Security Tags etc.	The clause is specific to one OEM and relaxing the clause will not impact the desired functionality of the solution and will broaden the leasing OEM participation. Kindly modify the clause as "Solution should enable creation of security groups and security policies/ rules based on constructs like machine name, OS type, IP address, FQDN, DNS, Security/custom Tags etc."	Kindly Refer Corrigendum	5. Cisco
1108.	4.8.18 - nDRC - Virtualization - 20/481 (5)	Integration of 3rd party endpoint security to secure the virtual machines with offloaded antivirus, antimalware, firewall and hips solutions without the need for agents inside the virtual machines.	We understand that this clause is more specific to hypervisor OEMs as for securing server endpoints, separate solution is required. Kindly clarify more in case of any different understanding.	As per RFP	6. PruTech Solutions India Pvt. Ltd. 7. TREND MICRO 8. HPE 9. Larsen & Toubro Ltd 10. Bodhtree
1109.	4.8.18 - nDRC - Virtualization - 24/482 (1)	The solution should offer converged visibility and analytics that tie together compute, network, storage and security and provide Physical to Virtual Correlation and troubleshooting, report the	The clause is specific to one OEM and removing this clause will not impact the desired functionality of the solution and will broaden the leasing OEM participation. Kindly delete the same.	Kindly Refer Corrigendum	59. Cisco



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		amount of East-West, North South, Internet, virtual machine to virtual machine, virtual machine to physical traffic within the datacenter Monitoring of OS level resources (CPU, disk, memory, network) for any OS and physical hardware resources of the hosts. These monitoring capabilities combined with patented analytics should extend operational visibility and proactive management capabilities across OS.			
1110.	4.8.18 - nDRC - Virtualization - 25/482 (1)	Management 25. The solution should offer comprehensive flow assessment and analytics and security groups and firewall rules suggestion for the purpose of implementing a zero-trust security within the data-center, provide a converged view of virtual and physical network, provide end to end topological view of path between two virtual machines. It should support leading hardware vendors as well. The solution shall provide the ability to identify and report on over-sized, under-	The clause is specific to one OEM and removing this clause will not impact the desired functionality of the solution and will broaden the leasing OEM participation. Kindly delete the same.	As per RFP	1. Cisco



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		sized, idle and powered-off virtual workloads such that the environment can be right-sized and resources can be reclaimed			
1111.	4.8.18 - nDRC - Virtualization - 29/483 (1)	Virtual Switch 29. In-built enhanced host-level packet capture tool which will provide functionalities like span, rspan, erspan and will capture traffic at uplink, virtual switch port and virtual NIC level. It should also be able to capture dropped packet	The clause is specific to one OEM and removing this clause will not impact the desired functionality of the solution and will broaden the leasing OEM participation. Kindly delete the same.	As per RFP	1. Cisco
1112.	4.8.18 - nDRC - Virtualization - 30/483 (1)	Virtual Switch 30. The Solution should provide distributed routing (OSPF & BGP), VXLAN based logical virtual switching, NAT function, server load balancer, Software L2 bridging to physical environments, L2 & L3 VPN, site-to-site IPSEC VPN services, distributed L2-L4 stateful firewall at vNIC level.	The clause is specific to one OEM and relaxing the clause will not impact the desired functionality of the solution and will broaden the leasing OEM participation. Kindly modify the clause as "The Solution should provide distributed routing (OSPF & BGP), VXLAN based switching,, distributed L2-L4 stateful/stateless firewall"	As per RFP	1. Cisco
1113.	4.8.18 - nDRC - Virtualization - 32/483 (1)	Virtual Switch 32. Solution should provide integrated smart alerts for health, performance and capacity degradation to identify building performance problems before they affect end users,	The clause is specific to one OEM and removing this clause will not impact the desired functionality of the solution and will broaden the leasing OEM participation. Kindly delete the same.	As per RFP	1. Cisco



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		should be able to collect and analyze all types of machine-generated log data, for example, application logs, network traces, configuration files, messages, performance data and system state dumps.			
1114.	4.9 - Security Parameters/484 (1)	Firewall: Firewall solution is first line of Defense and segmentation. The firewall protection for Safe City Project will be combination of traditional firewall with other Network Device filtering functionalities for the Incident, transaction data, data over HTTP, only. The appliance-based security platform should be capable of application visibility, and control, VPN functionality, intrusion preventions and advanced threat protection like deep packet inspection, etc. in a single appliance. This appliance should ideally consume 1 RU/2 RU space to utilize space in command center optimally. a. For better integration with other security solutions this should be based on open architecture based on multi-core CPU's to protect & scale against dynamic latest	1. The Threat intelligence supplied must be able to accelerate threat detection, investigation and response and enable SOC teams in below key areas: a) Prioritize and understand alerts generated by SIEM & other tools b) Detect hidden threats in data collected and Analyzed c) Improve confidence when stopping attackers during their attack tracks 2. The Threat intelligence supplied must be able to accelerate threat detection, investigation and response and enable SOC teams in below key areas: a) Prioritize and understand alerts generated by SIEM & other tools b) Detect hidden threats in data collected and Analyzed c) Improve confidence when stopping attackers during their attack tracks	As per RFP	3. iValue InfoSolutions Pvt. Ltd.(1) 4. RAH InfoTech(2)



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		security threats. RFP- for selection of MSI for implementation and O&M of surveillance System under Safe City Project of Delhi Police b. Supports multiple mechanisms for issuing alerts (e.g., SNMP, e-mail, SYSLOG). c. Denial of Service Attack (DDos) solution should be part of this FW, and DDos throughput shall be clearly mentioned in this.			
1115.	4.9 - Security Parameters/484 (46)	Additional Clause	2. A An interactive graphical representation of database access activity 3. B Automatic scheduled data export and archiving to long-term storage. 4. C Monitoring local access & encrypted connections (Oracle ASO, SSL, SSH etc.) 5. Create custom reports and organize on a personalized portal view. 6. Create specific rules on observed events, sending SMTP alerts when the rules are violated. 7. D. Executive Summary / Dashboard view 8. E. Both Online and Offline Security update capability 9. F. Monitoring of Database Memory at the server end. 10. If the solution uses agents on database servers, the same should not be sending	As per RFP	1. PruTech Solutions India Pvt. Ltd. 2. Forcepoint 3. iValue InfoSolutions Pvt. Ltd.



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			traffic to be analyzed to an external appliance. 11. Perform audits on a specific user and review all commands executed. 12. Product upgrades should be easily be downloadable from the OEM Official Website 13. Report on detailed SQL, including the source of the request, the actual SQL commands, the database user name, when the request was sent and what database objects the command was issued against. 14. Solution should support a functionality to perform Weak Password Scans that can detect any weak passwords set on the DBMS. 15. Solution should support Clustering/High Availability feature which can be used when one of the DAM Servers go down. Solution should have the ability to monitor Clustered DBMS instances 16. Solution should support the ability to perform Data Redaction which can mask the important information like Credit card information/Passwords when generating reports about statements executed on the DBMS. 17. Support 18. The OEM should provide a service which delivers the latest OEM product information by email — patch and upgrade notification; and critical alerts that require immediate attention.		



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			19. The OEM should provide a utility to collect product and system information to assist Support in diagnosing issues 20. The OEM support should be based out of India 21. The proposed solution should be capable of detecting and preventing advance database attacks such as SQL Injection, TNS Poisoning, Buffer Overflow, Table Foot printing etc. 22. The solution should be able to monitor all database activities and protection against insiders with privileged access. 23. The solution should be proposed with a Vulnerability Management Solution for Database. 24. The solution should be proposed with Premium Support 25. The solution should Capture and Report on non-administrators executing DDL. 26. The solution should easily monitor Access to Sensitive Data (e.g. show all access to Credit Card Table, UID Numbers etc.). 27. The solution should have the ability to detect that a service account only accesses a database from a defined source IP and only runs a narrow group of authorized queries as configured. 28. The solution should have the ability to enforce separation of duties on Database Administrators. (Auditing should include monitoring of DBA activity, select transactions. The solution should also prevent DBA		



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			manipulation or tampering with logs or recorded activity). 29. The solution should have the ability to generate alerts on policy violations. The Tool should provide recording activity, real time monitoring and rule based alerting. 30. The solution should have the ability to track approved database changes implemented in SQL. 31. The solution should provide Flexible audit and reporting capabilities suitable for PCI DSS, SOX and HIPAA, Basel II, ISO 27001-2. 32. The solution should provide Flexible rules that allow enforcement of Corporate Security Policy. 33. The solution should provide granular monitoring of database transactions with real-time alerts and prevention of breaches. 34. The solution should provide granular monitoring of queries, objects and stored procedures with real-time alerts and prevention of breaches. 35. The solution should provide multiple user roles that facilitate separation of duties. 36. The solution should provide protection of newly discovered and Zero-Day database vulnerabilities, providing immediate protection without the need for patching the database. 37. The solution should provide the ability to capture and parse all SQL in real time or near real time.		



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			38. The solution should provide: 39. The solution should record all SQL transactions: DML, DDL, DCL and Selects and should have the ability to store this activity securely. 40. The solution should specify and bear minimum impact on the performance of database, network, I/O. 41. The solution should support a Database Vulnerability Management functionality which scans the Database based upon the latest CVE's & reports about the existing vulnerabilities on the DBMS. 42. The solution should support a wide variety of Database Vendors on various Operating Systems like Windows, Linux, Solaris, HP-UX, AIX, AS 400, Z O/S. 43. The solution should support memory monitoring to capture the alerts executed locally on the DBMS & network monitoring to capturing the statements executed remotely using the Sniffer. 44. The solution should support the below mentioned DB types: 2. Oracle version 8.1.7 and later, running on Sun Solaris, IBM AIX, Linux, HP-UX, Microsoft Windows, including Oracle RAC and Oracle Exadata 3. Microsoft SQL 2000 and later on any supported Windows platform 4. IBM DB2 LUW 9.5, and later 5. Sybase ASE 12.5 and later on all supported platforms		



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			6. Teradata 12, 13, 13.10, 14,15, and 15.1 on Linux 7. MySQL 5.1, 5.5, 5.6 and 5.7 on Linux 8. MariaDB version 5.5 (5.5.32 and later), 10.0, 10.1 and 10.2 on Linux 9. IBM DB2 for Z/OS with CorreLog 10. IBM DB2 for iSeries (AS/400) with Raz-Lee 11. SAP HANA SPS 09, Revision 91 and later 12. PostgreSQL 9.2 and later on Linux 45. The solution should support Virtual patch functionality that alerts upon breaches like Known Exploits, Zero Day Threats, Ransomware attacks, SQL Injection attacks, Obfuscation, DBMS Probing, Brute force Attacks using Failed Logins & SQL Dictionary Attacks. 46. The solution should track and audit administrative commands such as GRANT, all failed logins. 47. Track execution of stored procedures, including who executed a procedure, what procedure name and when, which tables were accessed as a result.		
1116.	4.9 - Security Parameters/484 (3)	IoT securit	Considering the large foot print of the IOT sensor devices, week security posture, lack of domain expertise (cyber security) with IoT vendors. Attacker may exploit these vulnerabilities to compromise the sensor to gain the foothold in the network. Considering the complexity, scale and criticality of the safe city infrastructure its highly recommended to consider IOT security controls in overall security blueprint for enhanced security:	As per RFP (MSI are free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP.)	1. Check Point Software Technologies(I) Pvt Ltd 2. iValue InfoSolutions Pvt. Ltd.



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			proposed security gateways should support visibility and policy enforcement for IoT protocols and commands. solution must allow support for over 1000+ IoT application signatures. for threat prevention IPS/IDS must have ability to enforce virtual patching to prevent the cyber attacks. solution must provide service to scan the firmware vulnerabilities to uncover the security risks. solution can be proded as service and dashboard must allow binary image is uploaded, without exposing any source code. A comprehensive report is generated with mitigation recommendations		
1117.	4.9 - Security Parameters/484 (68)	Please add the proposed clause (New addation)	1. Cyber threat intelligence provider should be a Leader/Strong Performer in the latest "The Forrester New Wave™: External Threat Intelligence Services" 2. The asked Threat Intelligence feed has to be unique. This has to be from a different OEM and not the same as of SIEM Technology vendors. Threat intelligence should integrate with the SIEM & other analytical tools 3. The feeds must be validated by the provider with their analysts as first hand investigation to validate the behavior of a malicious TTP's , analyzing the indicators using their own tools & methodologies before disseminating for use as finsihed intelligence feeds (IOC's or TTP's). 4. The Key Use cases covered must be:	As per RFP (No change)	1. iValue InfoSolutions Pvt. Ltd. 2. RAH InfoTech



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			a. SECURITY INFRASTRUCTURE HEALTH ASSURANCE & CONTROLS EFFICIACY b. FRAMEWORK ALIGNMENT & ASSESSMENT c. CYBERSECURITY OPTIMIZATION d. OPERATIONALIZING THREAT INTELLIGENCE AT SECURITY CONTROL LEVELS e. UNEARTH ADVANCED MALWARE THREATS across deployed security tools 5. The provider should be able to provide tactical information on the threat indicators to help improve defenses with high fidelity machine-readable indicators of compromise (IOCs) with confidence Scoring and Contextual information. 6. The provider should be able to provide the facility to analyse the historical data of the threat actor, threat activity, threat objects (historical data of the IPs, URLs, etc. used by the malicious entity) 7. The Security vendor must be able to provide library with profiles of at least 30+ APT groups with comprehensive insights built on tracking of and responding to threats/breaches originating from these APT groups 8. The Security vendor must have deep knowledge and associated Library of attack methodologies, background, objectives, target countries/verticals categorised by specific APT groups and other advance threat actors		



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			9. The solution must provide evidence of execution or triggering of SIEM correlation rules based on the detection, blocking, alerting and/or other notification observed during execution of malicious behaviour or attack sequence. 10. The solution must have the capability of Auto Discover the deployed security technologies within the infrastructure including but not limited to SIEM, Proxy, IDS, Firewall, DLP, Endpoint Protection, Malware analysis & other Security tools. 11. The solution should have the ability to execute single or chain (kill chain scenario) of attack action, behaviour, file, batch or sequence of attack patterns / Scenarios. 12. The solution should have the ability to import and weaponized PCAP attack files or malicious traffic 13. The solution should have the capability of providing Corrective measure recommendation for remediation 14. The solution should have the capability to Auto-discover Network segmentation, deployed controls and communication path in the deployed infrastructure 15. The solution should have the capability to execute attacks with Pre & Post Compromise visibility, full kill chain execution (i.e. delivery, pre-infection recon, installation, lateral movement, etc.)		



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			16. The solution should have the capability to execute exfiltration actions, attempting to physically remove data with varying levels of compression. 17. The solution should have the capability to plan and run real APT attack scenarios (no altered, neutered, simulated) behaviours, files, ransomware, malware, sequences, and permutations within a production environment, in a safe model of deployment and authentication of the actors used to initiate the attacks 18. The solution should have the capability to provide evidence-based measurement for effectiveness of third party products by determining their ability to block, prevent, detect, alert and report on SIEM or other such log mechanisms across network, endpoint, email, and cloud platforms. 19. The solution should have the capability to schedule continuous evaluations to validate the Network segmentation in the infrastructure where this solution is deployed. 20. The solution should have the execution of Real Attacks including pcap's and malware files (not altered/neutered/"simulated") 21. The solution should Identify controls specific effectiveness of models (MITRE, NIST, etc) 22. The solution should provide the capability of creating new attack action,		



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			behaviour chaining and sequence capability using a easy to use wizard. 23. The solution should support cyber behaviour models (MITRE ATT&CK, kill chain scenarios, CVE) 24. The solution should support direct integrations with security technologies including Network, Endpoint, Email and SIEM for attack validations. 25. The solution should be deployed fully on-premise service architecture. 26. The threat data should not only be based on information gleaned from current adversary activities but also from information collected through profiling, countering and monitoring threat actor groups globally. 27. The Threat Intel vendor should provide access to Threat and Technical Intelligence Analyst with a minimum of 10 requests per quarter for additional information analysis. 28. The threat intelligence should, preferably, be able to provide insight into how attackers and campaigns are organized and what targets are being attacked and, in addition, guidance on how to protect the organization from the attacks. 29. Threat Intel OEM should have demonstrable tracking capabilities of APT groups. Vendor shall have more than 40+ published reports on tracking APT groups showcasing Advance attack methodologies, their capabilities and		



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			Tools, tactics & Procedures(TTP's) in cybercrime and espionage areas. 30. Threat Intelligence feed OEM should have experience of at least 10+ years of providing such threat intelligence. Confirmation required on OEM letter head and publicly available on internet 31. Vendor must also help onboard the Threat intelligence subscription on SIEM solution and provide perl/python scripts or other well defined & documented API's in order to integrate and consume the data feeds with multiple technologies 32. Vendor must provide the data feed availability in at least minimum three formats like XML, CSV, CEF, OpenIOC, STIX formats 33. Vendor must provide following attributes as part of data-feeds based on the availability. The Threat data should, preferably consist of Malware & Malware Families, Indicators, Threat Actors, Actor, Malware, Threat Actors specifically Nation States & Cybercrime focus, MITRE ATT&CK Graph mappings, including Known Vulnerabilities, Cyberincident News Analysis and also must include quarterly Intelligence Threat briefings. 34. Vendor must refresh the data feed whenever new data is available. The threat data elements should not be limited to open source information but should extend to closed (non-public) and targeted unique feed information		



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			that help identifying, responding and remediating advance unknown threats quickly RAH InfoTech(point 26 above) 35. The threat data should not only be based on information gleaned from current adversary activities but also from information collected through profiling, countering and monitoring threat actor groups globally. RAH InfoTech(point 34 above) 36. Vendor must refresh the data feed whenever new data is available. The threat data elements should not be limited to open source information but should extend to closed (non-public) and targetted unique feed information that help identifying, responding and remediating advance unknown threats quickly RAH InfoTech(point 33 above) 37. Vendor must provide following attributes as part of data-feeds based on the availability. The Threat data should, preferably consist of Malware & Malware Families, Indicators, Threat Actors, Actor, Malware, Threat Actors specifically Nation States & Cybercrime focus, MITRE ATT&CK Graph mappings,		



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			including Known Vulnerabilities, Cyberincident News Analysis and also must include quarterly Intelligence Threat briefings. RAH InfoTech(point 05 above) 38. The provider should be able to provide tactical information on the threat indicators to help improve defenses with high fidelity machine-readable indicators of compromise (IOCs) with confidence Scoring and Contextual information. Vendor must provide the data feed availability in atleast minimum three formats like XML, CSV, CEF, OpenIOC, STIX formats RAH InfoTech(point 31 above) 39. Vendor must also help onboard the Threat intelligence subscription on SIEM solution and provide perl/python scripts or other well defined & documented API's in order to integrate and consume the data feeds with multiple technologies RAH InfoTech(point 03 above) 40. The feeds must be validated by the provider with their analysts as first hand investigation to validate the behavior of a malicious TTP's , analyzing the indicators using their		



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			own tools & methodologies before disseminating for use as finished intelligence feeds (IOC's or TTP's). RAH InfoTech(point 30 above) 41. Threat Intelligence feed OEM should have experience of at least 10+ years of providing such threat intelligence. Confirmation required on OEM letter head and publicly available on internet RAH InfoTech(point 02 above) 42. The asked Threat Intelligence feed has to be unique. This has to be from a different OEM and not the same as of SIEM Technology vendors. Threat intelligence should integrate with the SIEM & other analytical tools RAH InfoTech(point 28 above) 43. The threat intelligence should, preferably, be able to provide insight into how attackers and campaigns are organized and what targets are being attacked and, in addition, guidance on how to protect the organization from the attacks. RAH InfoTech(point 06 above) 44. The provider should be able to provide the facility to analyse the historical data of the threat actor,		



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			threat activity, threat objects (historical data of the IPs, URLs, etc. used by the malicious entity) RAH InfoTech(point 27 above) 45. The Threat Intel vendor should provide access to Threat and Technical Intelligence Analyst with a minimum of 10 requests per quarter for additional information analysis. RAH InfoTech(point 01 above) 46. Cyber threat intelligence provider should be a Leader/Strong Performer in the latest "The Forrester New Wave™: External Threat Intelligence Services" RAH InfoTech(point 29 above) 47. Threat Intel OEM should have demonstrable tracking capabilities of APT groups. Vendor shall have more than 40+ published reports on tracking APT groups showcasing Advance attack methodologies, their capabilities and Tools, tactics & Procedures(TTP's) in cybercrime and espionage areas. RAH InfoTech(point 25 above) 48. The solution should be deployed fully on-premise service architecture.		



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			RAH InfoTech(point 25 above) 49. The Key Use cases covered must be: a) SECURITY INFRASTRUCTURE HEALTH ASSURANCE & CONTROLS EFFICIACY b) FRAMEWORK ALIGNMENT & ASSESSMENT c) CYBERSECURITY OPTIMIZATION d) OPERATIONALIZING THREAT INTELLIGENCE AT SECURITY CONTROL LEVELS e) UNEARTH ADVANCED MALWARE THREATS across deployed security tools RAH InfoTech(point 11 above) 50. The solution should have the ability to execute single or chain (kill chain scenario) of attack action, behaviour, file, batch or sequence of attack patterns / Scenarios. The Security vendor must have deep knowledge and associated Library of attack methodologies, background, objectives, target countries/verticals categorised by specific APT groups and other advance threat actors RAH InfoTech(point 07 above) 51. The Security vendor must be able to provide library with profiles of at least 30+ APT groups with comprehensive insights built on		



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			tracking of and responding to threats/breaches originating from these APT groups RAH InfoTech(point 08 above) 52. The solution should have the capability to provide evidence-based measurement for effectiveness of third party products by determining their ability to block, prevent, detect, alert and report on SIEM or other such log mechanisms across network, endpoint, email, and cloud platforms. RAH InfoTech(point 17 above) 53. The solution should have the capability to plan and run real APT attack scenarios (no altered, neutered, simulated) behaviours, files, ransomware, malware, sequences, and permutations within a production environment, in a safe model of deployment and authentication of the actors used to initiate the attacks RAH InfoTech(point 20 above) 54. The solution should have the execution of Real Attacks including pcap's and malware files (not altered/neutered/"simulated") RAH InfoTech(point 23 above)		



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			55. The solution should support cyber behaviour models (MITRE ATT&CK, kill chain scenarios, CVE) RAH InfoTech(point 21 above)		
			56. The solution should Identify controls specific effectiveness of models (MITRE, NIST, etc) RAH InfoTech(point 16 above)		
			57. The solution should have the capability to execute exfiltration actions, attempting to physically remove data with varying levels of compression. RAH InfoTech(point 12 above)		
			58. The solution should have the ability to import and weaponize PCAP attack files or malicious traffic RAH InfoTech(point 12 above)		
			59. The solution should have the capability to execute attacks with Pre & Post Compromise visibility, full kill chain execution (i.e. delivery, pre-infection recon, installation, lateral movement, etc.) RAH InfoTech(point 15 above)		
			60. The solution should provide the capability of creating new attack		



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			action, behaviour chaining and sequence capability using a easy to use wizard. RAH InfoTech(point 14 above) 61. The solution should have the capability to Auto-discover Network segmentation, deployed controls and communication path in the deplyed infrastructure RAH InfoTech(point 19 above) 62. The solution should have the capability to schedule continuous evaluations to validate the Network segmentation in the infrastructure where this solution is deployed. RAH InfoTech(point 10 above) 63. The solution must have the capability of Auto Discover the deployed security technologies within the infrastructure including but not limited to SIEM, Proxy, IDS, Firewall, DLP, Endpoint Protection, Malware analysis & other Secuirty tools. RAH InfoTech(point 24 above) 64. The solution should support direct integrations with security technologies including Network, Endpoint, Email and SIEM for attack validations.		



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			RAH InfoTech(point 09 above) 65. The solution must provide evidence of execution or triggering of SIEM correlation rules based on the detection, blocking, alerting and/or other notification observed during execution of malicious behaviour or attack sequence		
1118.	4.9 - Security Parameters - i/484 (7)	Firewall solution is first line of Defense and segmentation. The firewall protection for Safe City Project will be combination of traditional firewall with other Network Device filtering functionalities for the Incident, transaction data, data over HTTP, only. The appliance-based security platform should be capable of application visibility, and control, VPN functionality, intrusion preventions and advanced threat protection like deep packet inspection, etc. in a single appliance. "This appliance should ideally consume 1 RU/2 RU space to utilize space in command center optimally."	Different OEM have different architecture and the device will take rack space as per the performance asked in the RFP. Please remove the clause "This appliance should ideally consume 1 RU/2 RU space to utilize space in command center optimally."	Kindly Refer Corrigendum	1. Marushika Technology Advisors Pvt. Ltd. 2. RAH InfoTech (P) Ltd 3. paloaltonetworks 4. NEC Corporation India Pvt. Ltd. 5. Larsen & Toubro Ltd 6. Tech Mahindra 7. INTEC INFONET PVT. LTD.



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1119.	4.9 - Security Parameters - i/484 (1)	Establishing privacy and trust Considering the secured parameters in place, it will be the prime responsibility of MSI to establish a trust for privacy policies to be adopted by every user of the system. The security parameters will be updated from time to time with effective patch management modules and training sessions will also sensitize the users for quick adoption of the updated approaches in the system to ensure safeguarding against possible threats.	Please include Patch Management solution in BoQ line item with Quantity	As per RFP (MSI can considered patch management solutions in others section mention in BoQ)	3. Larsen & Toubro Ltd
1120.	4.9 - Security Parameters - ii/485 (1)	The solution architecture at Data Center will incorporate both type of firewalls for protection against the internal and external threats. Using Firewalls and Intrusion Prevention Systems such attacks and theft should be controlled and well supported (and implemented) with the security policy. All provisions for security of field equipment as well as protection of the software system from hackers and other threats needs to be ensured. Web Application	Please clarify whether internal and external firewalls are to be separate dedicated appliances, each type configured in HA mode.	As per RFP (Already East-West traffic for DMZ network and North-south firewall are mention in Specification and BoQ)	5. Larsen & Toubro Ltd



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		(Internet) Firewall of 2 GB will be provisioned which will cater to the DMZ security requirement at virtualization layer at the server levels.			
1121.	4.9 - Security Parameters-iv/486 (1)	(iv). Web Application Firewall:	Kindly add these component in SOR BOQ	As per RFP (It is already mentioned in SOR and BoQ)	12. Sterlite Technologies Limited
1122.	4.9 - Security Parameters/487 (2)	--	Data owner should have the right to release the data to the outsider by reviewing the same when it is sent from their reportee to keep the process of data sharing easy with audit when business has the requirement DLP should provide Incident Workflow capabilities where user/Business Manager can remediate the DLP policy violations actions from handsets/emails without logging into the Management Console	As per RFP	7. iValue InfoSolutions Pvt. Ltd.
1123.	4.9 - Security Parameters/487 (2)	--	Mostly data leakage happens when internal employee seek the easiest way to do their job and they are not aware about accidental data leakage due to not knowing the processes , DLP can give that visibility and control The DLP Solution must provide visibility into Broken Business process. For ex:-if unsecured sensitive content is sent daily from several users to a business partner, the users are probably not aware that they are doing something wrong.	As per RFP	4. iValue InfoSolutions Pvt. Ltd.



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1124.	4.9 - Security Parameters/487 (2)	--	Predefined helps the organisations to have defined policies based on the region and the type of bussiness, which further to fine tune the policies to getter outcomes. Hence request you to add these specifications The solution should have a comprehensive list of pre-defined policies and templates with over 1000+ patterns to identify and classify information pertaining to different industry like Energy, Petroleum industry vertical etc. and India IT Act.	As per RFP	2. iValue InfoSolutions Pvt. Ltd.
1125.	4.9 - Security Parameters/487 (2)	--	RFP has not asked for Data leakage prevention solution but it is recommended to have as an enterprise class DLP, where Smart city will be having confidential data of its citizens and Government data which needs to be protected for all the channels DLP should cover data in rest , data in motion, data in use , optical character recognition from image files and should provide centralize management, reporting & workflow	As per RFP (Minimum is asked, MSI can quote above and ask)	2. iValue InfoSolutions Pvt. Ltd.
1126.	4.9 - Security Parameters/487 (2)	--	Automated Response & Incident Management Since being critical infra with confidential data , Automated response in terms of blocking the data leakage and informing the manager to view the violation is required to proactively prevent the Data leakage	As per RFP	2. iValue InfoSolutions Pvt. Ltd.
1127.	4.9 - Security Parameters/487 (2)	--	Smart city being multiuser environment handling multiple incident could lead to the negligence of critical incident , Single user incident which is related to each other could	As per RFP	6. iValue InfoSolutions Pvt. Lt



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			be multiple , DLP should have that intelligence to correlate those incident and The Proposed DLP engine must performs a post-processing incident grouping step to avoid displaying related incidents in different cases. All incidents from the same user that have the same classification are combined into a group and DLP case card.		
1128.	4.9 - Security Parameters-v/491 (1)	a) Anti-Virus x. Gateway Level Anti-Spam and Anti-Virus Security Solution	Based on these 2 sections, we understand that the antivirus solution to be provided must include protection for endpoint, web and email traffic. Please confirm.	Yes, As per RFP	7. Larsen & Toubro Ltd
1129.	4.9 - Security Parameters-v-c/488 (1)	c) Public Key Infrastructure (PKI)	Please provide the Qty. for PKI solution i.e. the number of devices to be integrated with PKI.	As per Solution requirements mentioned in RFP, MSI can considered the qty.	2. Larsen & Toubro Ltd
1130.	4.9 - Security Parameters-v-d/488 (1)	d) Management and Reporting	Understand that all these are generic updates, reporting and dashboard which bidder has to cover from various sources and solutions and not as part of single solution. Please confirm or clarify if otherwise.	As per RFP	5. Larsen & Toubro Ltd
1131.	4.9 - Security Parameters- d-vi/488 (1)	vi. Real time glass door monitoring, analysis, Triage, Incident Mgmt. Monitoring and collating Threat Intelligence and cyber news and Security update.	Please suggest expectation and outcome of the statement cyber news and security update.	As per RFP Justification: Real time glass door monitoring means all logs should report in real time to monitor security threats from single unified window as single pane of glass.	4. Larsen & Toubro Ltd



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				Triage consists of Detect, Prevent and Respond security incidents via incident management. Incident management covers end to end cyber threat life cycle. Further threat intelligence feed refer to cyber threat intelligence feed which enrich SOC with dynamic feeds consist of feeds from CERT-IN, Threat Analytics Unit (TAU)/I4C/MHA, NCCC, suspicious ip, domains, emailid, url, file hash etc. Above all available with SOC platform under basic feature-set.	
1132.	4.9 - Security Parameters- d-viii/489 (1)	viii. Vulnerability Scanning and policy Compliance scanning.	Please provide benchmark for policy compliance scanning. Kindly elaborate which policy is referred here for Vulnerability scanning.	As per RFP (Vulnerability scanning as per security audit is concern.)	2. Larsen & Toubro Ltd
1133.	4.9 - Security Parameters - vi/489 (1)	vi. Network Traffic Analyzer (NTA) /Behavioral Analysis & Anomaly Detection Tool for the City Network	Please include NTA requirement in BoQ line item with Quantity Kindly add these component in SOR BOQ	As per RFP For specification: This is considered under penetrationtesting Refer Appendix1 PART2	2. Larsen & Toubro Ltd 3. Sterlite Technologies Limited
1134.	4.9 - Security Parameters- d-	a) Visibility identity Awareness ·	NTA solution should use packet based KPI information to quickly identify and troubleshoot network issues.	As per RFP (No extra sensors should be deployed accross the network)	2. DAK Infosoft (P) Ltd



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	vi-a/489 (1)	NTA Solution should provide the internal network visibility and actionable insight required to quickly identify and troubleshoot a wide variety of network issues. Additionally, NTA integrates user information with network traffic statistics to deliver detailed intelligence into user activity anywhere across the network. · NTA Solution should also collect and analyse device through integration with the NAC (Network Access Control) devices.	To collect these KPIs, solution should include sensors across network. Is our understanding correct?		
1135.	4.9 - Security Parameters- d- vi-c/489 (1)	c) Forensics and Incident Response By collecting, analysing and storing large amounts of flow data, NTA System provides a full audit trail of all network transactions for detecting anomalous traffic and performing more effective forensic investigations.	Solution should include packet based data collection to analyze the data which gives details of all traffic flows for effective forensic investigations. Is our understanding correct?	As per RFP (Yes)	7. DAK Infosoft (P) Ltd
1136.	4.9 - Security Parameters/490 (2)	--	Considering the situation and the flexibility to operate this functionality will provide the better coverage and easy for the operations of the Data center The Proposed Firewall solution should have no limitation on the number the client VPNs supported	As per RFP	5. iValue InfoSolutions Pvt. Ltd.



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1137.	4.9 - Security Parameters/490 (2)	--	Image analysis help to control the unwanted image to flow through the email, this features helps to control those content. Hence request you to please these specification The solution should support image based spam detection capability, such as the pornography images within the email and it allow customer to adjust the sensitivity level.	As per RFP (No Change)	3. iValue InfoSolutions Pvt. Ltd. 4. Forcepoint
1138.	4.9 - Security Parameters/490 (1)	--	ISP load balancing becomes the important factor in large to effective utilize and prioritize the traffic, hence request you to please add this point The Firewall shall support natively (without the need of any hotfix) minimally 4 independent ISP/WAN connections concurrently and the ability to combine multiple ISP/WAN link. (not just active /standby)	As per RFP (No Change)	4. iValue InfoSolutions Pvt. Ltd.
1139.	4.9 - Security Parameters/490 (2)	--	Its always recommended have easy reporting functionality to provide better visibility The Solution should report the false positive email and a button in the quarantine queue thus customer can simply click to have a report.	As per RFP (No Change)	4. iValue InfoSolutions Pvt. Ltd.



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1140.	4.9 - Security Parameters/490 (2)	--	Maintaining High Availability and upgrades in the live setups like these, it really important to have zero downtimes upgrades and update. This particular features helps to help the overall workload the SOC team and bring better ROI. Hence request you to please add this clause. The Firewall appliance should include the ability to support high availability of different model /appliances and versions within the same HA cluster	As per RFP (No Change)	3. iValue InfoSolutions Pvt. Ltd
1141.	4.9 - Security Parameters/490 (2)	--	Most common challenge is maintain the Email profencies and data loss through emails this feature help to control the same. The solution should have pre-defined dictionaries, key phrases to detect financial terms, offensive language etc. RAH InfoTech The solution should have pre-defined dictionaries, keyphrases to detect financial terms, offensive language etc.	As per RFP (No Change)	3. iValue InfoSolutions Pvt. Ltd 4. Forcepoint 5. RAH InfoTech
1142.	4.9 - Security Parameters/490 (2)	--	Most common challenge is maintain the Email profencies ad data loss through emails this feature help to control the same. The Solution should provide an attachment scanning capability to detect file-based spam messages	As per RFP (No Change)	2. iValue InfoSolutions Pvt. Ltd 3. Forcepoint
1143.	4.9 - Security Parameters/490 (2)	--	Most of the emails contains phishing attacks contains URL links and scanning of those link becomes very important to have an	As per RFP (No Change)	8. iValue InfoSolutions Pvt. Ltd 9. Forcepoint



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			effective Anti spam solution. Hence request you to please these spcification The Solution should support URL classification of the embedded links and it contributes for SPAM detection.		
1144.	4.9 - Security Parameters/490 (2)	--	Providing control to the end user helps to improve the overall SPAM control in the organisation The solution should also allow users to report SPAM mails.	As per RFP (No Change)	5. iValue InfoSolutions Pvt. Ltd
1145.	4.9 - Security Parameters/490 (3)	--	Reporting for understanding over all usage and threats landscape The solution should provide the report builder where the multiple reports can be generated based on the multiple parameters such as Source, destination , time etc.	As per RFP (No Change)	8. Forcepoint 9. iValue InfoSolutions Pvt. Ltd.
1146.	4.9 - Security Parameters/490 (1)	--	Smart City internet needs multiple layered protection being critical in terms of the data and environment, Solution protects and prohibit users accessing malicious sites and deep level of inspection of the packets for threat visibility and blocking Should provide proxy, caching, content filtering, SSL inspection, protocol filtering, inline AV and content inspection in block mode on the same Appliance. Should support behavioural sandboxing to enhance advanced threat detection for Malware detection.	As per RFP (No Change)	3. Forcepoint



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1147.	4.9 - Security Parameters/490 (4)	--	Solution proving visibilities into all the aspects of the email flow and content types, this be help to control the data leakage. Hence request you to add this specifications The solution should be able to look for content in the email header, body of message and also attachments. The solution should be able to restrict incoming, outgoing and internal mails based on file types, file size and also by file name and also through a combination of them. The solution should be able to fingerprint files, folders, databases and prevent the information from being sent over outbound mails.	As per RFP (No Change)	4. iValue InfoSolutions Pvt. Ltd
1148.	4.9 - Security Parameters/490 (2)	--	Solution proving visibilities into all the aspects of the email will be help to control the spams coming into the inbox. Hence request you to add this specifications The solution should be able to look for content in the email header, body of message and also attachments. The solution should be able to restrict incoming, outgoing and internal mails based on file types, file size and also by file name and also through a combination of them. The solution should be able to fingerprint files, folders, databases and prevent the information from being sent over outbound mails.	As per RFP (No Change)	3. iValue InfoSolutions Pvt. Ltd
1149.	4.9 - Security Parameters/490 (1)	--	This provide real time protection even from the sites which are legitimate but compromised.	AS per RFP (This already been taken care in firewall)	3. Forcepoint



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			a. Should be capable of dynamically blocking a legitimate website which has become infected and unblock the site in real time when the threat has been removed for below mentioned security categories and vulnerabilities. b. Should have real time content classification and security scanning with automatic database updates for security categories- Advanced malware command and control, Advanced malware payloads, Bot networks, Compromised websites, key loggers, Phishing and other frauds, Spywares		
1150.	4.9 - Security Parameters/490 (1)		This is to provide visibility on the outbound channel and categorization in terms of locating the accessible site a. Should inspect the sensitive content through 1500 pre-defined templates, textual content inside image, cumulative content control and inspection through web channel to prevent the content from being sent over outbound web channel. b. Should have ability to provide geo-location awareness for security incidents. Should have ability to protect the sensitive dat	As per RFP (No Change)	2. Forcepoint
1151.	4.9 - Security Parameters/490 (3)	--	This point is required in terms of having visibility that what all application users are trying to access which are placed over the cloud and also to provide controls over them	As per RFP (No Change)	5. Forcepoint 6. iValue InfoSolutions Pvt. Ltd.



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			which reduces the risk as cloud applications which are not officially required Should have visibility and blocking for cloud applications and shadow IT application usage for enhanced security		
1152.	4.9 - Security Parameters/490 (1)	--	Web Security solution(Proxy) helps to provide secure access to internet and centralised console help to have consolidate view of the events and policy framework Please include web security/proxy requirement in BoQ line item with Quantity. The Proposed web Security Solution should be deployed in the Smart City environment to provide internet access securely to the users and preventing web based threats for servers as well as desktop hiding the actual ip of them. The Proposed solution should natively integrate with DLP solution to provide Web DLP solution and the both Web Security and DLP should be managed from same console Sterlite Technologies Limited: Kindly add these component in SOR BOQ	As per RFP	2. Technologies Limited 3. Larsen & Toubro Ltd 4. Forcepoint 5. Sterlite Technologies Limited
1153.	4.9 - Security Parameters/490 (4)	--	Web Security solution (Proxy) helps to provide secure access to internet and centralised console help to have consolidate view of the events and policy framework Please include websecurity/proxy requirement in BoQ line item with Quantity.	As per RFP	2. Sterlite 3. Technologies Limited 4. Larsen & Toubro Ltd 5. Forcepoint



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			The Proposed web Security Solution should be deployed in the Smart City environment to provide internet access securely to the users and preventing web based threats for servers as well as desktop hindering the actual ip of them. The Proposed solution should natively integrate with DLP solution to provide Web DLP solution and the both Web Security and DLP should be managed from same console		
1154.	4.9 - Security Parameters - viii/490 (4)		Advanced Security for Endpoint Detection & Remediation In order to reduce no. of agents footprints on endpoint machines, we recommend to add below clause in EDR. Provide both Endpoint Protection Platform (EPP) and Endpoint Detection and Response (EDR) features in a single agent	As per RFP	2. HPE 3. PruTech Solutions India Pvt. Ltd. 4. TREND MICRO 5. Bodhtree
1155.	4.9 - Security Parameters - x/490 (3)	--	Zero day Protection, Sandboxing The Proposed web Security should come asking with on Prem APT solution from the same the OEM Firewall should be integrate with on Prem APT and should be from same OEM	As per RFP	2. Forcepoint 3. iValue InfoSolutions Pvt. Ltd.



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1156.	4.9 - Security Parameters/491 (3)	--	Dictionaries across Email Security and DLP helps to better control over the data and environment and centralised console help to have consolidate view of the events and policy framework The solution should support dictionaries scanning and dictionaries are built-in the product and allow customer to create his own dictionary. Email Security/Anti-spam solution should natively integrate with Proposed DLP Solution to provide Email DLP and should be managed from same console	As per RFP	3. Forcepoint 4. iValue InfoSolutions Pvt. Ltd.
1157.	4.9 - Security Parameters/491 (1)	--	It's always recommended have easy reporting functionality to provide better visibility The Solution should report the false positive email and a button in the quarantine queue thus customer can simply click to have a report.	As per RFP	3. Forcepoint
1158.	4.9 - Security Parameters/491 (1)		Predefined template make the work of the administrator and also help in the reducing the false positives. And integrating the same with Anti-APT solution helps to block the zero days malwares as well. The solution should have at least 500+ pre-defined content rules inbuilt with Email Security & embedded in the product. The solution should be able to identify spear phishing email containing malicious URLs and attachments and in case the proposed anti-spam technology is not able to understand then it should forward the same	As per RFP (No Change)	3. Forcepoint 4. RAH InfoTech



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			to Anti-APT solution for further analysis natively. RAH Infotech The solution should have at least 500+ pre-defined content rules inbuilt with Email Security & embedded in the product. The solution should be able to identify spear phishing email containing malicious URLs and attachments and in case the proposed anti spam technology is not able to understand then it should forward the same to Anti-APT solution for further analysis natively.		
1159.	4.9 - Security Parameters/491 (1)		Providing control to the end user helps to improve the overall SPAM control in the organisation The solution should also allow users to report SPAM mails.	As per RFP	2. Forcepoint
1160.	4.9 - Security Parameters/491 (2)	Solution proving visibilities into all the aspects of the email flow and content types, this be help to control the data leakage. Hence request you to add this specifications	9. The solution should be able to look for content in the email header, body of message and also attachments. 10. The solution should be able to restrict incoming, outgoing and internal mails based on file types, file size and also by file name and also through a combination of them. 11. The solution should be able to fingerprint files, folders, databases and prevent the information from being sent over outbound mails.	As per RFP	8. Forcepoint
1161.	4.9 - Security Parameters -	(x).Gateway Level Anti-Spam and Anti-Virus Security Solution	-- Kindly add these component in SOR BOQ	As per RFP	Sterlite Technologies Limited



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	x/491 (1)				
1162.	4.9 - Security Parameters - xi/491 (24)	xi. SIEM (Security Information and Event Management)	9. Volumetric Clarification Needed: How many sites needs to be considered for SIEM platform deployment Suggestive Input: Single Site i.e. Data Centre. 10. Volumetric Clarification Needed: What would be estimated event throughput (sustained events per second or peak events per second) Suggestive Input: Based on shared asset details, it is recommended to have atleast 5000 sustained EPS (20000 peak EPS). 11. Volumetric Clarification Needed: What should be considered for log retention period (online and offline) Suggestive Input: At least 3 months' online log retention needed and later can be extended as when required. 12. PruTech Solutions Volumetric Clarification Needed: SIEM platform deployment will be standalone or in high availability? Suggestive Input: Standalone deployment 13. Integre: Volumetric Clarification Needed: SIEM platform deployment will be standalone or in high availability? Suggestive Input: Standalone deployment	1. For data Center 2. Refer RFP for details 3. As per RFP (Already mentioned in page 514 of RFP)	2. Madras Security Printers Pvt.Ltd(1,2,3) 3. Micro Focus Software Solution India Private Limited (earlier Called as Hewlett Packard (1,2,3) 4. Software - HPE Software)(1,2,3) iValue 5. InfoSolutions Pvt. Ltd. (1,2,3) 6. PruTech Solutions (1,2,3) 7. Bodhtree(1,2,3) 8. PruTech Solutions 9. Integre



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
1163.	4.9 - Security Parameters - x-iv/491 (6)	Other Essential security parameters a) Anti-Virus iv) Support for IPv4 and IPv6 and able to leverage telemetry feeds from threat intelligence feeds that can analyse threat sources in ingress and egress emails, as well as other sources such as Web Security, IPS, Firewall, File History, and Advanced Malware.	All OEM work differently, hence request you please amend this clause as : Support for IPv4/IPv6 and able to leverage telemetry feeds from threat intelligence feeds natively from OEM backend updates or threat sources in ingress and egress emails, as well as other sources such as Web Security, IPS, Firewall, File History, and Advanced Malware.	As per RFP (MSI are free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP.)	10. Forcepoint 11. RAH InfoTech (P) Ltd 12. iValue InfoSolutions Pvt. Ltd. 1. NEC Corporation India Pvt. Ltd.
1164.	4.9 - Security Parameters - xii/492 (18)	xii. Cyber- Security Incident Response Service	2. Volumetric Clarification Needed: What would be anticipated alerts (in a day) expected for CSIR? Suggestive Input: At least 250 alerts per day 3. Volumetric Clarification Needed: CSIR platform deployment will be standalone or in high-availability? Suggestive Input: Standalone deployment 4. Volumetric Clarification Needed: How many sites needs to be considered for CSIR platform deployment Suggestive Input: Single Site i.e. Data Centre.	Refer RFP in details	1. Madras Security Printers Pvt.Ltd(1,2,3) 2. iValue InfoSolutions Pvt. Ltd(1,2,3) 3. Micro Focus Software Solution India Private Limited (earlier Called as Hewlett Packard Software – HPE Software) (1,2,3) 4. PruTech Solutions India Pvt. Ltd.(2,3,1) 5. Bodhtree(1,2,3)
1165.	4.9 - Security Parameters - xiii/492 (8)	(xiii). Privilege Identity Management: Security concerns in Identity and Access Management	We understand that PIM & IDAM solutions are to be provided in the overall proposed solution. Whereas, we don't see either PIM & IDAM in the BOQ. Please mention the same in BoQ. Volumetric Clarification Needed: What would be number of devices/servers to be integrated with PIM.	As per RFP (MSI are free to propose better solutions over and above the minimum requirements and specifications outlined in the RFP.)	7. Larsen & Toubro Ltd 8. iValue InfoSolutions Pvt. Ltd. 9. Madras Security Printers Pvt.Ltd 10. Micro Focus Software Solution India Private Limited (earlier Called as



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			Sterlite Technologies Limited: Kindly add these component in SOR BOQ		Hewlett Packard Software – HPE Software) 11. Sterlite Technologies Limited 12. PruTech Solutions India Pvt. Ltd. 13. Bodhtree
1166.	4.9 - Security Parameters - xx-j/496 (6)	j. Single-Sign On- The application should enable single-sign-on so that any user once authenticated and authorized by system is not required to be re-authorized for completing any of the services in the same session	2. Volumetric Clarification Needed: What would be number of users to be considered for single sign-on. 3. Please include SSO requirement in BoQ line item with Quantity	2. As per RFP	2. Madras Security Printers Pvt.Ltd 3. Micro Focus Software Solution India Private Limited (earlier Called as Hewlett Packard Software – HPE Software)(1) 4. PruTech Solutions India Pvt. Ltd. 5. iValue InfoSolutions Pvt. Ltd (1) 6. Bodhtree (1) 7. Larsen & Toubro Ltd (2)
1167.	4.9 - Security Parameters - xx-l/496 (1)	The Security solution will build a zero-trust security architecture where appropriate security controls are available for every Surveillance workload / application.	We request to rephrase this statement to "The Security solution will be built in accordance to zero-trust security architecture principles wherever appropriate security controls are available (as per the approved BoQ) for every Surveillance workload/application."	As per RFP	2. Larsen & Toubro Ltd
1168.	4.9 - Security Parameters - Firewall/498 (1)	--	Considering the situation and the flexibility to operate this functionality will provide the better coverage and easy for the operations of the Data center The Proposed Firewall solution should have no limitation on the number the client VPNs supported	As per RFP	2. Forcepoint 3. RAH InfoTech



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			RAH InfoTech The Proposed Firewall solution should have no limitation on the number the client VPNs supported		
1169.	4.9 - Security Parameters - Firewall/498 (1)	--	Firewall, IPS, Anti-APT, VAPT, DDoS Please clarify whether technical specifications mentioned for security components are applicable for DC firewall only or DR firewall as well, because the throughput for both firewalls is different.	As per RFP	2. Larsen & Toubro Ltd
1170.	4.9 - Security Parameters - Firewall /498 (1)	--	Getting the visibility of the endpoints in the environment helps to improve the overall security posture and reduce the risk in the environment, this particular features helps to provide this contextual information , hence request you to please add this clause Solution must support client based agent to check the security posture of endpoints and must be able to employ policies basis the attributes. Policy must be defined on Firewall appliance for discarding the user requests if AV is not updated, OS version is Obsolete, Load on Endpoint is high or any users is using the obsolete browsers along with ICAP integration with the proposed DLP solution natively to control data movement	As per RFP	3. Forcepoint
1171.	4.9 - Security Parameters - Firewall/498 (1)	--	ISP load balancing becomes the important factor in large to effective utilize and prioritize the traffic, hence request you to please add this point	As per RFP	2. Forcepoint



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			The Firewall shall support natively (without the need of any hotfix) minimally 4 independent ISP/WAN connections concurrently and the ability to combine multiple ISP/WAN link. (not just active/standby)		
1172.	4.9 - Security Parameters - Firewall/498 (1)		Maintaining High Availability and upgrades in the live setups like these, it really important to have zero downtimes upgrades and update. This particular features helps to help the overall workload the SOC team and bring better ROI. Hence request you to please add this clause. The Firewall appliance should include the ability to support high availability of different model /appliances and versions within the same HA cluster	As per RFP	2. Forcepoint
1173.	4.9 - Security Parameters - Firewall/498 (3)	--	NGFW should have integrated IPS to provide better security and effectiveness. Hence request you to please add this clause to further enhance the security IPS/ Anti-Bot along with file filtering must employ the below inspection technologies. 1. Multilayer traffic normalization 2. Vulnerability-based fingerprints 3. Evasion and anomaly logging 4. Decryption-based detection 5. Message length sequence analysis	As per RFP	2. Forcepoint 3. iValue InfoSolutions Pvt. Ltd
1174.	4.9 - Security Parameters - Firewall -1/498 (3)	1. Firewall architecture should be DC grade with Data and control plane are different and Gartner	Keeping the massive performance requirement, various security controls and significant investment under consideration. It's recommended to consider the hyperscale firewall platform with N+1	Kindly Refer Corrigendum	6. iValue InfoSolutions Pvt. Ltd 7. Check Point Software Technologies(I) Pvt Ltd



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		quadrant from last 5 years shall be preferred	clustering support to meet the requirements. All the security gateways/chassis blades /appliances must be deployed in active-active.		
1175.	4.9 - Security Parameters - Firewall -3/498 (3)	3. Next Generation Firewall Throughput should be at least 100 Gbps for Enterprise Mix / Application mix production traffic and should be scalable to 150 Gbps in Future	Different OEM follow different approach for performance testing. Hence in order to have participation from leading OEM, kindly change the clause as "Next Generation Firewall Throughput (FW+AVC+IPS) should be at least 100 Gbps for Enterprise Mix / Application mix/1024B traffic and should be scalable to 150 Gbps in Future"	Kindly Refer Corrigendum	2. Cisco 3. Matrix Security & Surveillance Pvt Ltd
1176.	4.9 - Security Parameters - Firewall -4/499 (3)	4. Firewall should have IPSec VPN throughput of 50 Gbps. The effective next generation firewall throughput should be 100 Gbps in real time/ Application/Enterprise traffic mix to cater bandwidth requirement of 100 Gig interface so as to ensure IDS for monitoring malicious activity or defined policy violations. It should be scalable to 100 Gbps or better	Different OEM follow different approach for performance testing. Hence in order to have participation from leading OEM, kindly change the clause as "Firewall should have IPSec VPN throughput of 50 Gbps. The effective next generation firewall throughput (FW+AVC+IPS) should be 100 Gbps in real time/ Application/Enterprise traffic mix/1024B to cater bandwidth requirement of 100 Gig interface so as to ensure IDS for monitoring malicious activity or defined policy violations. It should be scalable to 100 Gbps or better"	As per RFP	2. Cisco 3. Matrix Security & Surveillance Pvt Ltd
1177.	4.9 - Security Parameters - Firewall -6/499 (4)	6. The appliance should be secure in itself with certifications NDPP/ EAL4, FIPS/ICSA. Extra certificate will be added advantage like NEBS etc.	Clarification: This clause is favouring specific OEM. Kindly change as suggested to allow to leading OEMs to participate. Suggestive Clause: The appliance/ firmware or its family should be secure in itself with certifications NDPP/ EAL4/FIPS/ICSA. Extra certificate will be added advantage like NEBS/NSS etc.	Kindly Refer Corrigendum	2. Tech Mahindra 3. NEC Corporation India Pvt. Ltd. 4. Larsen & Toubro Ltd 5. Fortinet



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1178.	4.9 - Security Parameters - Firewall -7/499 (3)	The Firewall solution should support LLDP, ECMP, NAT64, and DNS64 & DHCPv6.	DNS64 is relevant and used in telco networks. In Private network, IPv6 DNS query can be served by doing DNS reply modification and will not impact the solution functionality as asked. Hence in order to have participation from leading OEM, kindly change the clause as "The Firewall solution should support LLDP, ECMP, NAT64, NAT66 and DNS64 reply modification & DHCPv6/DHCPv6 relay"	Kindly Refer Corrigendum	3. Matrix Security & Surveillance Pvt Ltd 4. Cisco 5. Check Point Software Technologies(I) Pvt Ltd 6. iValue InfoSolutions Pvt. Ltd.
1179.	4.9 - Security Parameters - Firewall -8/499 (5)	The proposed system shall be able to operate on either Transparent (bridge) mode to minimize interruption to existing network Infrastructure or NAT / Route mode. Both modes can also be available Concurrently using Virtual Contexts. Minimum 10 Virtual Firewall licenses to be provided with the solution and should be scalable to 225 Virtual Firewalls in future	225 Virtual Firewalls support is favouring to one OEM and restrict healthy participations. Hence in order to have participation from leading OEM, kindly change the clause as "The proposed system shall be able to operate on either Transparent (bridge) mode to minimize interruption to existing network infrastructure or NAT/Route mode. Both modes can also be available concurrently using Virtual Contexts. Minimum 10 Virtual Firewall to be provided with the solution and scalable to 18 virtual firewall in future"	Kindly Refer Corrigendum	2. Cisco 3. Sterlite Technologies Limited 4. Matrix Security & Surveillance Pvt Ltd 5. Cisco 6. Larsen & Toubro Ltd
1180.	4.9 - Security Parameters - Firewall -10/499 (3)	The Firewall should have integrated SSL VPN solution to cater to 5000 SSL VPN concurrent users.	Please clarify on the SSL VPN requirement? Does client less support is needed - mobile user should access internal applications without requiring any thick client? Requirement for on-demand security for compliance check, compliance based VPN & browser protection for remote users? Browser is the entry point for recent sophisticated attacks. VPN users are the most targeted attack vector, any compromise on VPN machine can lead to lateral movement into the data center. Its is	As per RFP (The solution parameters are to be met on a single device.)	2. Check Point Software Technologies(I) Pvt Ltd 3. iValue InfoSolutions Pvt. Ltd.



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			suggested to define the additional SSL VPN requirement as follows 1. SSL VPN solution should be client less for high risk application. user should access the application without requiring internal IP address assigned to mobile user (user should not be granted network access to high risk application, only browser based access should be permitted). 2. browser should be secured with Nano agent to detect compromise. Browser plugin should restrict users to visit the malicious domain, phishing urls and provide threat prevention 3. for low risk application VPN client should support compliance based access and client must have ability to contain the infected client from the network. Agent should continuously scan for anomalies and disconnect the user from the network in event of compromise.		
1181.	4.9 - Security Parameters - Firewall -11/499 (8)	11. The proposed device should minimally attain Common Criteria and Internet Computer Security Association (ICSA) Certification. The proposed system should support a) IPSEC VPN b) SSL VPN c) GRE, VX LAN inspection d) SSL and SSH decryption for both inbound and outbound apart from video streaming Data	SSH protocol is used for remote management and generally used by administrator and firewall should be pinned with minimum hole for business operation and hence should be removed. Also, not all OEMs go for ICSA certification. Hence in order to have participation from leading OEM, kindly change the clause as "The proposed device should minimally attain Common Criteria or Internet Computer Security Association (ICSA) Certification or NDcPP. The proposed system should support a) IPSEC VPN b) SSL VPN	Kindly Refer Corrigendum	3. Cisco 4. Matrix Security & Surveillance Pvt Ltd 5. Sterlite Technologies Limited 6. Larsen & Toubro Ltd 7. Check Point Software Technologies(I) Pvt Ltd 8. iValue InfoSolutions Pvt. Ltd.



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			c) GRE, VxLAN inspection d) SSL decryption for both inbound and outbound apart from video streaming Data" Check Point: Security platform should offer the compatibility and integration with the SDN networking fabric. several protocols are supported for the overlay/SDN requirements basis the architecture. its is suggested to alter the requirement inline with software define networking standards rather than protocol specific. The proposed system should support a) IPSEC VPN b) SSL VPN c) NSX, ACI & openstack and offered solution must not have reported critical vulnerabilities in the IPsec & SSL VPN module in last 5 years.		
1182.	4.9 - Security Parameters - Firewall -12/499 (5)	The device support be open based and not on the basis of proprietary Application specific integrated circuit.	Clarification: All OEMs have their own architecture to deliver the required performance. We understand that objective is to ensure that proposed solution should comply to the performance & functional parameters asked in RFP. Any OEM should not be restricted to participate based on the architecture it follows. Fortinet provides best of performance & features among all competitors and hold a leading position in Security Effectiveness, Ability to Execute, Completeness of Vision (as highlighted in third party evaluation reports by GARTNER, NSS etc). Because of ASIC (Application specific integrated circuit) based architecture, Fortigate delivers high	Kindly Refer Corrigendum	2. Tech Mahindra 3. Larsen & Toubro Ltd 4. Fortinet 5. NEC Corporation India Pvt. Ltd.



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			performance on the box, which directly translates to more optimized solution offering with lower TCO. This clause is restricting participation of a leading OEM (recognized by Gartner, NSS etc.) from bidding. This point has no significance in deriving solution. Suggest to delete this clause so that all leading OEMs participate equally. Suggestive Clause: The device support be open based and not on the basis of proprietary Application specific integrated circuit, if it is then can be disabled.		
1183.	4.9 - Security Parameters - Firewall -13/499 (4)	The Firewall Threat Prevention (FW + AVC + IPS+ Antivirus +Anti Malware) throughput should be 60 Gbps for Enterprise Mix / Application mix production traffic and should be scalable to 100 Gbps in Future	3. Considering 1.5x scalability requirements for NGFW (100-150Gbps). The TP performance number should be around 90gbps. It's is recommended to change the threat prevention scalability requirement to 90Gbps 4. Proposed Change : The Firewall Threat Prevention (FW + AVC + IPS+ Antivirus +Anti Malware) throughput should be 60 Gbps for Enterprise Mix / Application mix production traffic and should be scalable to 100 Gbps in Future on the same chassis without involving any device shutdown or downtime in operations. Justification: Being a critical core Firewall the scalability should not involve operational downtime. such as shutdown, reboot etc and the performance parameter should be met in a single device.	As per RFP (Minimum specifications are mentioned. Bidders are free to propose any thing over and above asked parameters.)	2. iValue InfoSolutions Pvt. Ltd.(1) 3. Marushika Technology Advisors Pvt. Ltd.(2)



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1184.	4.9 - Security Parameters - Firewall -14/499 (1)	FIREWALL solution should have capability to protect against Denial of Service (DOS) and DDOS attacks. Should have flexibility to configure threshold values for each of the Anomaly. DOS and DDOS protection should be applied and attacks stopped before firewall policy look-ups.	Proposed Change: FIREWALL solution should have capability to protect against Denial of Service (DOS) and DDOS attacks to an extent of 6 Million pps/fps. Should have flexibility to configure threshold values for each of the Anomaly. DOS and DDOS protection should be applied and attacks stopped before firewall policy look-ups	As per RFP	7. Paloaltonetworks
1185.	4.9 - Security Parameters - Firewall -17/500 (1)	The threat prevention (FW + AVC + IPS + Antivirus +Antimalware) throughput should be at least 60 Gbps on Enterprise Mix / application Production traffic	Proposed Change : The Firewall Threat Prevention (FW + AVC + IPS+ Antivirus +Anti Malware) throughput should be 60 Gbps for Enterprise Mix / Application mix production traffic and should be scalable to 100 Gbps in Future on the same chassis without involving any device shutdown or downtime in operations. Justification: Being a critical core Firewall the scalability should not involve operational downtime. such as shutdown, reboot etc and the performance parameter should be met in a single device.	As per RFP (Minimum specifications are mentioned, MSI can propose better solution)	4. INTEC INFONET PVT. LTD. 5. Marushika Technology Advisors Pvt. Ltd. 6. RAH InfoTech (P) Ltd 7. paloaltonetworks
1186.	4.9 - Security Parameters - Firewall -18/500 (4)	The proposed system should be able to block, allow or monitor only using AV signatures and file blocking based on per firewall policy based or based on firewall authenticated user groups with configurable selection of the following services: HTTP, HTTPS, SMTP, SMTPs, POP3, POP3s, IMAP, FTP etc.	Different OEM uses different approaches like AV or Anti-Malware for meeting the desired functionality. Hence in order to enable leading OEM participation, kindly change the clause as "18. The proposed system should be able to block, allow or monitor using AV/Antimalware and file blocking based on per firewall policy based or based on firewall authenticated user groups with configurable selection of the following services:	Kindly Refer Corrigendum	2. Cisco 3. Larsen & Toubro Ltd 4. Matrix Security Surveillance Pvt Ltd



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			HTTP, HTTPS, SMTP, SMTPs, POP3, POP3s, IMAP, FTP etc." Different OEM uses different approaches like AV or Anti-Malware for meeting the desired functionality. Hence in order to enable leading OEM participation, kindly change the clause as		
1187.	4.9 - Security Parameters - Firewall -20/500 (4)	The proposed system should be able to block or allow oversize file based on configurable thresholds for each protocol types and per firewall policy.	This clause is favouring to one OEM and restrict healthy participations. Hence in order to have participation from leading OEM, kindly change the clause as "The proposed system should be able to block or allow oversize file based on configurable thresholds."	Kindly Refer Corrigendum	3. Cisco 4. Larsen & Toubro Ltd 5. Matrix Security 6. Surveillance Pvt Ltd
1188.	4.9 - Security Parameters - Firewall -21/500 (8)	The FIREWALL solution should not have any wireless code in the offered device or its family in hardware or software and should be able to integrate with the proposed on-premise Anti-APT solution to scan for zero-day malwares from Day 1	Clarification: All OEMs have their own architecture to deliver the required performance. We understand that objective is to ensure that proposed solution should comply to the performance & functional parameters asked in RFP. Any OEM should not be restricted to participate based on the architecture it follows. Fortinet provides best of performance & features among all competitors and hold a leading position in Security Effectiveness, Ability to Execute, Completeness of Vision (as highlighted in third party evaluation reports by GARTNER, NSS etc). Fortigate delivers the platform architecture which directly translates to more optimized solution offering with lower TCO. This clause is restricting participation of a leading OEM from bidding.	Kindly Refer Corrigendum	2. Fortinet 3. Tech Mahindra 4. Larsen & Toubro Ltd 5. Check Point Software Technologies(I) Pvt Ltd 6. NEC Corporation India Pvt. Ltd. 7. Fortinet 8. iValue InfoSolutions Pvt. Ltd.



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			This point has no significance in deriving solution. Suggesting changes so that all 4 OEMs participate equally. Suggestive Clause: The FIREWALL solution should not have any enabled wireless code in the offered device or its family in hardware or software and should be able to integrate with the proposed on-premise Anti-APT solution to scan for zero-day malwares from Day 1 Check Point : please clarify on the wireless code requirements ?		
1189.	4.9 - Security Parameters - Firewall -23/500 (3)	The proposed system shall have the ability to detect, log and take action against network traffic based on over 3000 application signatures	Sensors would be deployed for the surveillance and other safety requirements. By design sensor doesn't offer strong security controls. IoT sensors with weak security are low hanging connected devices for the cyber criminals. Adversaries can use the compromised sensors to gain the foot hold on the network. The security gateway should have visibility of IOT protocols and must have ability to deploy virtual patch to fix the application vulnerabilities at gateway level. Our recommendation is to include the IoT applications in addition to public facing application user access. The proposed system shall have the ability to detect, log and take action against network traffic based on over 3000 application signatures & over 1000 IoT and OT applications and commands to secure the IoT based communication. Solution should have ability to record the inventory of the sensors trying to connect to	As per RFP (Minimum specifications are mentioned in RFP, MSI can propose better solution)	2. Check Point Software Technologies(I) Pvt Ltd 3. iValue InfoSolutions Pvt. Ltd.



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			internet. Solution must provide dedicated IoT security policy enforcement with IoT protocol layer based on sensor data collected by security controller.		
1190.	4.9 - Security Parameters - Firewall -26 & 27/500 (5)	26. Data Leakage Prevention 27. The proposed system shall allow administrator to prevent sensitive data from leaving the network. Administrator shall be able to define sensitive data patterns, and data matching these patterns that will be blocked and/or logged when passing through the unit.	A proper data classification (data in use, motion, rest) is required for preventing data leakage and Firewall's can't classify the data. Also, RFP already has detailed DLP solution specifications at Page 509, hence this clause needs to be deleted in order to have participation from leading OEM. Kindly remove this clause.	Kindly Refer Corrigendum	3. Cisco 4. Sterlite Technologies Limited 5. Larsen & Toubro Ltd 6. Matrix Security 7. Surveillance Pvt Ltd
1191.	4.9 - Security Parameters - Firewall -29/500 (3)	The proposed system shall have built-in high availability (HA) features without extra cost/license or hardware component	The proposed system shall have built-in high availability (HA) features including fault tolerance & All the security gateways/chassis blades /appliances must be deployed in active-active mode. For Chassis the solution must support inter & intra chassis high availability.	As per RFP	3. Check Point Software Technologies(I) Pvt Ltd 8. iValue InfoSolutions Pvt. Ltd.
1192.	4.9 Security Parameters-WAF (QTY No.2 in HA)- 1/501 (3)	The proposed appliance should provide minimum 2Gbps WAF (HTTPs) throughput	With 25M HTTP Request Per Second required is mismatching with 2Gbps throughput .Requesting clarification on same.	Kindly Refer Corrigendum	3. Haltdos Inc 4. suttantra 9. Principal Cyber Security Consultant
1193.	4.9 Security Parameters-WAF (QTY No.2 in HA)- 3/501 (8)	Traffic ports: 6 x 10G QSFP+ and 6 x 10G SFP+ ports and 4TB HDD	In Order to achieve maximum participation and Allow Industry Leading OEM's to Qualify, we request to Generalize Sizing Parameters. The Proposed Device should have enough number of ports to Cater Current and Future Requirement.	Kindly Refer Corrigendum	8. RADWARE 9. RAH InfoTech (P) Ltd 10. PruTech Solutions India Pvt. Ltd. 11. Tech Mahindra 12. NEC Corporation India Pvt. Ltd. 13. F5



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			500GB of Storage is more than enough to cater any possible requirement also it does not affect the functionality of appliance in anyway. For Log storage the centralized management station can be proposed for better correlation and forensics. Suggested Clause: The proposed appliance Should have 10X 10G SFP+ and Support upto 24X10G SFP+ Ports. Processor: Intel 6-core CPU Storage: 500 GB The Solution should be proposed with Centralized Management, Logging, and Reporting functionality. QSFP+ is generally used for 40 G interfaces and 10G interfaces is also asked. As per other components like NLB, 4x40G ports are asked along with 10 G ports. It is suggested to amend the clause as "Traffic ports: 4 x 40G QSFP+ and 8 x 10G SFP+ ports and 4TB HDD" F5: Other Datacenter Security component like Firewall is asked with 100G interface from day one, WAF solution must also include 100G interface so that it should not impact the performance of datacenter. Also QSFP+ represent 40Gig interface instead of 10G. Every OEM have different architecture to achieve the performance requirement. Like Windows OS need higher compute (CPU,Memory,HDD) to		14. Bodhtree



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			install any application while Linux OS take very less compute (CPU,Memory,HHD) to run same application. Defining the 4TB HDD is providing undue advantage to single OEM. Hence Request to change clause as "Traffic ports: 4 x 100GQSFP28, 6x40G QSFP+ and 6 x 10G SFP+ ports and 1TB HDD"		
1194.	4.9 Security Parameters-WAF (QTY No.2 in HA)- 4/501 (3)	Should support 25M HTTP Request Per Second 100000 SSL TPS with RSA2K Key and 75000 with ECC	In Order to achieve maximum participation and Allow Industry Leading OEM's to Qualify, we request to Generalize Sizing Parameters. The Proposed Device is Oversized, which will Incur Additional Overhead cost to Government of India. The Device should be Sized According to the Other Equipment Asked as Part of RFP. Suggested Clause: The server load balancer should have dedicated SSL card to support Minimum 20KSSL TPS/CPS with ECC Key & 30K SSL TPS/CPS with 2K Keys It should support SSL Throughput of 20 Gbps. The proposed device should not be oversized, which will add unnecessary additional cost to Government of India. The device should be sized according to technical requirement and other equipment asked as Part of RFP. Hence, we request to reconsider sizing parameters.	Kindly Refer Corrigendum	2. RADWARE 3. RAH InfoTech (P) Ltd
1195.	4.9 Security Parameters-WAF (QTY No.2 in	Should support 25 Million HTTP request per second &	In Order to achieve maximum participation and Allow Industry Leading OEM's to	Kindly Refer Corrigendum	2. RADWARE 3. RAH InfoTech (P) Ltd



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	HA)- 5/501 (3)	10 Million L7 request per second	Qualify, we request to Generalize Sizing Parameters. The Proposed Device is Oversized, which will Incur Additional Overhead cost to Government of India. The Device should be Sized According to the Other Equipment Asked as Part of RFP. Hence, we request to reconsider Sizing Parameters and remove this Clause Suggested Clause: Remove this Clause. The proposed device should not be oversized, which will add unnecessary additional cost to Government of India. The device should be sized according to technical requirement and other equipment asked as Part of RFP. Hence, we request to reconsider sizing parameters. Suggested Clause: Should handle 2 Million Layer-7 request per second & 1 Million Layer-4 connection per second The proposed device should not be oversized, which will add unnecessary additional cost to Government of India. The device should be sized according to technical requirement and other equipment asked as Part of RFP. Hence, we request to reconsider sizing parameters. Suggested Clause: Should handle 2 Million Layer-7 request per second & 1 Million Layer-4 connection per second		
1196.	4.9 Security Parameters-WAF (QTY No.2 in	Should support 25 Million HTTP request per second &	2. In Order to achieve maximum participation and Allow Industry	Kindly Refer Corrigendum	2. RADWARE (1) 3. RAH InfoTech (P) Ltd (2)



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	HA)- 5/501 (3)	10 Million L7 request per second	Leading OEM's to Qualify, we request to Generalize Sizing Parameters. 3. The Proposed Device is Oversized, which will Incur Additional Overhead cost to Government of India. The Device should be Sized According to the Other Equipment Asked as Part of RFP. Hence, we request to reconsider Sizing Parameters and remove this Clause Suggested Clause: Remove this Clause. The proposed device should not be oversized, which will add unnecessary additional cost to Government of India. The device should be sized according to technical requirement and other equipment asked as Part of RFP. Hence, we request to reconsider sizing parameters. Suggested Clause: Should handle 2 Million Layer-7 request per second & 1 Million Layer-4 connection per second The proposed device should not be oversized, which will add unnecessary additional cost to Government of India. The device should be sized according to technical requirement and other equipment asked as Part of RFP. Hence, we request to reconsider sizing parameters. Suggested Clause: Should handle 2 Million Layer-7 request per second & 1 Million Layer-4 connection per second		



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1197.	4.9 Security Parameters-WAF (QTY No.2 in HA)- 7/501 (3)	The proposed appliance should have virtual administrative domains feature that support multiple tenant environments. The proposed device should have 5 Virtual Instances from Day 1 and scalable upto 20 Virtual Instances.	The device should support next generation features like Virtualization that can that virtualizes the Device resources—including CPU, memory, network, and acceleration resources to provide complete separate environment from applications and management perspective. This provides the device with multiple virtual devices with individual boot options as multiple device has been as a part of single solution. Suggested Clause: The proposed appliance should have hypervisor based Virtualization feature that virtualizes the Device resources—including CPU, memory, network, I/O interfaces and acceleration resources. Each virtual ADC instance contains a complete and separated environment of the following: - Hardware Resources, - Configurations, - Management. - OS The Proposed Device should NOT have Open Source/3rd party Network Functions. WAF and Load balancer should be from same OEM. The device should support next generation features like Virtualization with its own Hypervisor (Not any open source or third party) that can that virtualizes the Device resources—including CPU, memory, network, configuration, operating system and acceleration resources to provide complete separate environment from applications and management perspective.	Kindly refer correigendum	- RADWARE - RAH InfoTech (P) Ltd



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1198.	4.9 Security Parameters-WAF (QTY No.2 in HA)- 9/501 (8)	The WAF should be able to bypass the traffic in case of its failover.	2. As WAF is Asked in High Availability, Bypass Functionality is Not relevant here. Also, As in Case of Fail, Open the Application can be Exposed directly to the Attacker and lead to Application level Exploit. Request you to Kindly remove this Clause 3. Suggested Clause: Kindly Remove this Clause 4. Bypassing the WAF in failover will bypass security control for applications. As WAF is asked in High Availability mode, rather than bypass it must failover to backup device with TCP and SSL session mirroring so that there is no impact on the user experience. Request to change clause as "The WAF should be able to failover to backup device with TCP and SSL session mirroring"	Kindly Refer Corrigendum	2. RADWARE (1) 3. RAH InfoTech (P) Ltd (1) 4. PruTech Solutions India Pvt. Ltd.(3) 5. Larsen & Toubro Ltd(3) 6. F5 (3) 7. Bodhtree (3)
1199.	4.9 Security Parameters-WAF (QTY No.2 in HA)/502 (3)	Additional	Other Components in the RFP is Asked with Gartner's Qualification. Hence we request you to Include Gartner Leaders as OEM's Pre-Qualification Criteria to ensure Healthy Competition between Market Leaders. Note that 3 OEM's Qualify in Gartner's Leader Quadrant for ADC. Suggested Clause: OEM should be present in Gartner's "LEADER" magic quadrant for ADC as per latest Published Report. OEM Should Have TAC based in INDIA. The proposed OEM should be Parent Technology OEM only (Should not be Whitelabeled or Co-branding or 3rd Party Technology).	As per RFP	2. RADWARE 3. RAH InfoTech (P) Ltd



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			Industry standard certification must be considered.		
1200.	4.9 Security Parameters-WAF (QTY No.2 in HA)- 32/502 (2)	The solution must protect against FTP, SMTP, HTTP, HTTPS and Application layer Dos and DDOS attacks including stress-based DOS and Heavy URL attacks.	2. As per Industry Standard, Web Application Firewall is A dedicated Security Solution to Protect Application running over HTTP/HTTPS. WAF Doesn't cater protection from SMTP OR FTP based Application. Hence, we request you to amend this Clause. Suggested Clause: The solution must protect application over HTTP, HTTPS and should provide Application layer Dos and DDOS protection. 3. In general WAF is used for HTTP and HTTPS applications not SMTP. For SMTP there is separate mail security solutions. It is suggested to amend the clause as The solution must protect against HTTP, HTTPS and Application layer Dos and DDOS attacks including stress-based DOS and Heavy URL attacks.	Kindly Refer Corrigendum	2. RADWARE (1) 3. Tech Mahindra (2) 4. RAH InfoTech (P) Ltd 5. NEC Corporation India Pvt. Ltd. (2)
1201.	4.9 Security Parameters-WAF (QTY No.2 in HA)- 32/503 (3)	WAF should support inbuilt capability or via integration with 3rd party solution to protect against the mobile/tablet application-based attacks through Anti-Bot Mobile SDK which whitelist establish trust based on an embedded software package within the application code and corresponding cookie verification to protect	Specific to one OEM	As per RFP (Minimum is asked, MSI can quote above and asked, MSI can provide similar feature using third party tool)	1. Haltdos Inc 2. Suttantra 6. Principal Cyber Security Consultant



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		application against attacks generated from mobile			
1202.	4.9 Security Parameters-WAF (QTY No.2 in HA)- 33/502 (1)	The solution must support integration with third party DAST tool to perform virtual patching for its protected web applications. The solution must support integration with leading DAST solutions like WhiteHat, QualysGuard, and IBM etc. to virtually patch web application vulnerabilities	With Auto discovery device can understand the complete application behaviour and change the configuration accordingly without any manual intervention. Hence this feature should be included as devices with ability to Auto discover can discover changes in application and does not require any external/inbuilt vulnerability scanner. Suggested Clause: The solution must support integration with third party DAST tool or have Autodiscovery feature.	As per RFP	1. RADWARE 2. RAH InfoTech (P) Ltd
1203.	4.9 Security Parameters-WAF (QTY No.2 in HA)- 33/503 (2)	Offered solution should be EAL or NDPP (Network Device Protection Profile) certified under Common Criteria Program for security related functions	These certifications are of network Firewall which is entirely separate technology and should not be part of WAF specifications. Please remove this clause ICSA Certified WAF should be considered. Suggested Clause: Offered solution should be ICSA or EAL or NDPP (Network Device Protection Profile) certified.	Kindly Refer Corrigendum	1. NEC Corporation India Pvt. Ltd. 2. Tech Mahindra 3. RAH InfoTech (P) Ltd 4. RADWARE
1204.	4.9 Security Parameters-WAF (QTY No.2 in HA)- 33/502 (1)	The solution must support integration with third party DAST tool to perform virtual patching for its protected web applications. The solution must support integration with leading DAST solutions like WhiteHat, QualysGuard, and IBM etc. to virtually patch	With Autodiscovery device can understand the complete application behavior and change the configuration accordingly without any manual intervention. Hence this feature should be included as devices with ability to Autodiscover can discover changes in application and does not require any external/inbuilt vulnerability scanner. Suggested Clause: The solution must support integration with third party DAST tool or have Autodiscovery feature.	As per RFP	1. RADWARE 2. RAH InfoTech (P) Ltd



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			With Autodiscovery device can understand the complete application behavior and change the configuration accordingly without any manual intervention. Hence this feature should be included as devices with ability to Autodiscover can discover changes in application and does not require any external/inbuilt vulnerability scanner.		
1205.	4.9 Security Parameters-WAF (QTY No.2 in HA)- 33/503 (1)	The proposed solution should support below services to protect and manage access to applications: • Identity Federation and SSO – Creates a single point of policy-based access for cloud and on premise/private applications with MFA support. • Client and Web-based SSL VPN Access – Policy-based access to network VPN service through web-plugins or clients on mobile and desktop operating systems. • Web Portal Access to Applications – Open web applications to users instead of opening up your network. • Desktop Application and VDI Support – Policy-based access to virtualized applications through a single, consolidated gateway along	These specifications are of network Firewall which is entirely separate technology and should not be part of WAF specifications. Please remove this clause Malware Protection, Antivirus protection, Identity Management, VPN is not the feature of WAF. Hence we request you to remove this Clause. Suggested Clause: Remove this Clause.	Kindly Refer Corrigendum	1. NEC Corporation India Pvt. Ltd. 2. RADWARE 3. Tech Mahindra 4. RAH InfoTech (P) Ltd



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		with native VDI support and a customizable, web portal. • Secure Web Gateway Proxy Services – Provides web-based malware protection and URL filtering through Secure Web Gateway Services			
1206.	4.9 Security Parameters-WAF (QTY No.2 in HA)- 34/503 (4)	OEM of WAF product should be ISO-9001, ISO-27001 certified	As per RFP other security solutions like Firewall, SD-WAN, Backup software etc. must be Gartner Leaders or Challengers quadrant. WAFs also a Critical security control like other security solution, Hence we request to include Gartner clause for WAF solution as well. Request to change clause as " Proposed vendor must be placed in Leader or Challengers Quadrant in Gartner report for Web Application Firewall and OEM of WAF product should be ISO-9001, ISO-27001 certified.	Kindly Refer Corrigendum	1. PruTech Solutions India Pvt. Ltd. 2. F5 3. Bodhtree
1207.	4.9 Security Parameters-Anti-APT/503 (3)	--	Request for addition in Anti-APT section Please add the clause so that solution provided has appropriate mechanism in place to run successfully Sandbox engine must support microtasking within sandbox O.S (for Windows, Macintosh & Linux environments) VM's such as analysis using different versions and service packs of operating systems and different versions of applications (Adobe PDF, MS Word and etc.) by performing the analysis in parallel (i.e. To use multiple virtual machines in parallel) with all licenses and dependencies included in the platform.	As per RFP	1. iValue InfoSolutions Pvt. Ltd. 2. PruTech Solutions India Pvt. Ltd. 3. RAH InfoTech (P) Ltd 4. Integre



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			depending upon the sizing and future growth considerations. This is important from performance and submission rate perspective to security team Bidder should provide security threat intel feeds for the solution in non-sharing mode without any requirement to submit the data externally for any analysis or to OEM cloud for further analysis or verdicts. Integre: Please add the clause so that there is no compromise on solution. Sandbox engine must support microtasking within sandbox O.S (for Windows, Macintosh & Linux environments) VM's such as analysis using different versions and service packs of operating systems and different versions of applications (Adobe PDF, MS Word and etc) by performing the analysis in parallel (i.e. To use multiple virtual machines in parallel) with all licenses and dependencies included in the platform. depending upon the sizing and future growth considerations This is important from performance and submission rate perspective to security team		
1208.	4.9 Security Parameters-Anti-APT/503 (2)	--	Predefined template make the work of the administrator and also help in the reducing the false positives. And integrating the same with Anti-APT solution helps to block the zero days malwares as well. The solution should have at least 500+ pre-defined content rules inbuilt with Email Security & embedded in the product. The	As per RFP	1. iValue InfoSolutions Pvt. Ltd



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			solution should be able to identify spear phishing email containing malicious URLs and attachments and in case the proposed anti-spam technology is not able to understand then it should forward the same to Anti-APT solution for further analysis natively.		
1209.	4.9 Security Parameters-Anti-APT/503 (1)	--	Request for addition in Anti-APT section Please add the clause so that solution provided has appropriate mechanism in place to run successfully Bidder should provide security threat intel feeds for the solution in non-sharing mode without any requirement to submit the data externally for any analysis or to OEM cloud for further analysis or verdicts. Integre: Please add the clause so that soluton provided has appropriate mechanism in place to run successfully. Bidder should provide security threat intel feeds for the solution in non-sharing mode without any requirement to submit the data externally for any analysis or to OEM cloud for further analysis or verdicts.	As per RFP	1. iValue InfoSolutions Pvt. Ltd 2. Integre
1210.	4.9 Security Parameters-Anti-APT- 1/503 (10)	The solution should be able to communicate bi-directionally with the proposed FIREWALL solution for automatic blocking/threat update	1. For automatic blocking/threat update, since IPS is also placed in-line, it should also communicate bi-directionally with IPS as well as IPS caters to maximum threat detection and blocking at network level. Clause should read as : The solution should be able to communicate bi-directionally with the	As per RFP	1. HPE (1,3) 2. RAH InfoTech (P) Ltd (2) 3. PruTech Solutions India Pvt. Ltd. (1) 4. Larsen & Toubro Ltd(3) 5. iValue InfoSolutions Pvt. Ltd. (2) 6. TREND MICRO(1,3) 7. Bodhtree (1,3)



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			proposed FIREWALL/IPS solution for automatic blocking/threat update 2. The clause is not asking for an enterprise level dedicated solution and is being communicated as a top-up Module as part of Firewall solution. This compromises the basic Defense in Depth approach and also makes you vulnerable to a single point of failure on multiple capabilities and solution functionalities. As an enterprise a dedicated security solution layer at APT is required to have the desired outcome and service. Vendors do have multiple solution propositions with licenses/modules or Dedicated solution components to be proposed. In certain cases vendors do take advantage of common functionalities and create a compromised solution with no dedicated functionality. The scale and importance of this project where security safeguards are of utmost importance we humbly submit and request to remove this clause and adopt a defense in depth security approach. the current approach is a solution or appliance approach traditionally adopted by SMB (small and medium businesses) to cater to common Security and compliance focus requirements where security is not major functionality use case for them.		



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			Request the clause to be changed and updated as proposed: Bidder is expected to deploy an enterprise level Anti-APT (Advance Persistent Threat) Detection & response management solution. The solution should be a dedicated purpose built platform deployed independently without any functional reliance on existing layers of security adhering to defense in depth architecture approach with inline detection & prevention capabilities on email and network infection vectors. 3. For automatic blocking/threat update, since IPS is also placed in-line, it should also communicate bi-directionally with IPS as well as IPS caters to maximum threat detection and blocking at network level.		
1211.	4.9 Security Parameters-Anti-APT/503 (1)	--	Request for addition in Anti-APT section Please add the clause so that solution provided has appropriate mechanism in place to run successfully Bidder should provide security threat intel feeds for the solution in non-sharing mode without any requirement to submit the data externally for any analysis or to OEM cloud for further analysis or verdicts.	As per RFP (No Change)	1. iValue InfoSolutions Pvt. Ltd
1212.	4.9 Security Parameters-Anti-APT- 2/503 (5)	The solution should support deep packet inspection of SSL encrypted traffic (including HTTPS) for both incoming and outgoing	Please provide the appropriate sizing & performance requirements of desired SSL inspection throughout on network to be factored in the proposed solution	As per RFP	1. RAH InfoTech (P) Ltd 2. iValue InfoSolutions Pvt. Ltd. 3. PruTech Solutions India Pvt. Ltd. 4. Bodhtree



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
1213.	4.9 Security Parameters-Anti-APT- 4/504 (15)	The solution must employ an on premise (not on cloud) analysis engine using virtual execution to detect zero day and unknown threats and must not be signature based. But should have option to work in hybrid mode if required.	1. OEM specific clause, request you to please generalize the same as: The solution must employ an on premise (not on cloud) analysis engine using virtual execution to detect zero day and unknown threats and must not be signature based. 2. Hybrid mode asked is OEM favouring. Moreover cloud availability in India could be an issue with OEMs. Hence for broader participation we are requesting change. Hence in order to have participation from leading OEM, kindly change the clause as "The solution must employ an on premise (not on cloud) analysis engine using virtual execution to detect zero day and unknown threats and must not be signature based. Appliance must support clustering" 3. Integre: As a critical organization, we anticipate that no objects, files, traffic would be taken or submitted out of the project locations. Hence, the clause must be amended to ensure there is no dependency on detection via cloud or out of network 3rd party submission. Kindly refer to modified clause. The solution must employ an on premise (not on cloud) analysis engine using virtual execution to detect zero day and unknown threats and must not be signature based.	Kindly Reer Corrigendum	1. RAH InfoTech (P) Ltd(1) 2. Matrix Security 3. Surveillance Pvt Ltd (2) 4. iValue InfoSolutions Pvt. Ltd. (1) 5. Cisco (2) 6. Forcepoint (1) 7. Larsen & Toubro Ltd (2) 8. NEC Corporation India Pvt. Ltd. (1) 9. PruTech Solutions India Pvt. Ltd.(3) 10. RAH InfoTech (P) Ltd (1) 11. Bodhtree(3) 12. Integre



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1214.	4.9 Security Parameters-Anti-APT- 9/504 (5)	The proposed solution should analyze advanced malware against a cross-matrix of different operating systems and various versions of pre-defined applications.	1. Due to the Specific nature of threat landscape and its evolution over time, the dynamic analysis is required on all major environments used within the project to cater to wider attack Surface. The atack surface needs to cater to O.S's like Windows, Macintosh & Linux. The APT may not only be used to detect threats bound to Users, it should also uncover threats targetted at servers published or used by the organization. We recommend the modificaton to be used in the clause Request to change: The proposed solution should analyze advanced malware against a cross-matrix of different operating systems (windows, Macintosh & Linux) and various versions of pre-defined applications.	As per RFP	1. iValue InfoSolutions Pvt. Ltd 2. RAH InfoTech (P) Ltd 3. PruTech Solutions India Pvt. Ltd. 4. Bodhtree
1215.	4.9 Security Parameters-Anti-APT- 10/504 (10)	The solution must support pre-populated Licensed copies of Operating systems and applications/software's (like Microsoft Office). There should be no requirement for the customer to buy additional license.	We request you to kindly provide details of operating systems which are going to present in the environment. Trend Micro recommends to factor in OS for endpoints as well along with Server OS so that samples can be submitted from endpoint security solution as well. Also if possible please remove this clause as this is specific to few OMEs only.	Kindly Refer Corrigendum	1. TREND MICRO 2. PruTech Solutions India Pvt. Ltd. 3. iValue InfoSolutions Pvt. Ltd 4. HPE 5. RAH InfoTech (P) Ltd 6. Larsen & Toubro Ltd 7. Bodhtree
1216.	4.9 Security Parameters-Anti-APT- 11/504 (11)	11. The proposed solution should have the ability to analyse, detect and block malware in common file formats including but not limited to executables, JAVA, PDF, MS Office documents as	1. Request to remove "should be mentioned on public website" for broader participation from leading OEMs. Kindly modify the clause as "The proposed solution should have the ability to analyse, detect and block malware in common file formats	Kindly Refer Corrigendum	1. Matrix Security (1) 2. Surveillance Pvt Ltd (1) 3. iValue InfoSolutions Pvt. Ltd. (2) 4. PruTech Solutions India Pvt. Ltd.(3) 5. TREND MICRO (3)



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		per the OEM policy, links in email and ZIP/RAR/7ZIP/TNEF archives to prevent advanced Malware and Zeroday attacks and should be able to convert unknown to known in 300 seconds post detection and should be mentioned on public website.	including but not limited to executables, JAVA, PDF, MS Office documents as per the OEM policy, links in email and ZIP/RAR/7ZIP/TNEF archives to prevent advanced Malware and Zeroday attacks and should be able to convert unknown to known in 300 seconds post detection" 2. The post detection signature creation time limitations may be specific to some vendor, who may have a certain architecture supirting the process. There is no industry solution which has a hard & fast rule of the 300 seconds timeline. Keeping in view the complexity and analysis of platform requirements for Automated malware analysis, mostly the process is autoated during detection phase and does depend on malware analysis and detection time. In order to ensure the proposed solution caters to real world responses, with varied and diverse file types there should be a configurable max dynamic Analysis time. Like our solution does have an Automated creaton of such IOC;s without any human involvemnet and is generated based on Dynamic Analysis verdict with the specified Maximum Analysis time that is configurable. In order to ensure the vendor neutrality is maintained please accept the modified clause which covers majority of the requirements in an enterprise and		6. Cisco (1) 7. Larsen & Toubro Ltd (1,3) 8. Bodhtree (3)



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			dedicated solution to help uncover advanced threats Request to change: Proposed solution must be capable of analysis of different file types, including portable executables (PEs), web content, web objects, images, java, microsoft, Adobe applications,, archive files, multimedia etc including all such file types which have shown presence in global advance attackers TTP profiles, via multiple delivery & infection channels, for initial compromise, backdoor, later stage or other malicious dropper delivery. Additionally the capability to analyze network data including server O.S specific file types like PHP, WAR, JSP, ASP, ASPX etc The Dynamic Analysis max time should be configurable in environment during deployment and an automated signature /IOC creation without any cloud or human intervention for zeroday attcks must be part of the proposed solution. 3. For conversion from unknow to known in 300 seconds, we request you to kindly remove this capping as this will impact the analysis of the flies with high severity level. For conversion from unknow to known in 300 seconds, we request you to kindly remove this capping as this will impact the analysis of the flies with high severity level.		



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1217.	4.9 Security Parameters-Anti-APT- 12/504 (5)	The proposed solution should be able to analyse email attachments and malicious links for static and dynamic analysis	1. The clause is asking for very high level requirement. Email being the primary vector targeting users, needs to have comprehensive coverage for multiple threat attack surfaces. Please accept the modified clause, so that appropriate and enterprise level solutions are factored by bidders. Request to change: The proposed solution should dedicated solution having independent sandbox component to be able to analyse email attachments and malicious links for static and dynamic analysis at scale and performance. The solution must be able to detect evasion technique used by attackers by scanning all malicious URL's embedded inside attachments or mailbody and block emails with malicious attachments. Solution should detect and prevent from credential phishing campaigns, domain typo-squatting based attacks, including International domain name URL detection (multiple languages e.g; IDN (International Domain names))	As per RFP	1. iValue InfoSolutions Pvt. Ltd. 2. HPE 3. RAH InfoTech (P) Ltd 4. Larsen & Toubro Ltd 5. PruTech Solutions India Pvt. Ltd. 6. Bodhtree
1218.	4.9 Security Parameters-Anti-APT- 16/504 (8)	16. Minimum number of Interfaces – 4x GE RJ45 ports	1. The clause should be modified as every vendor has different modes of deployment and requirements. Would suggest if the ports requirements is only restricted to Network component and rest components let the bidder decide best for their performance. For network APT which gets deployed inline please refer to modified clause Request to change:	Kindly Refer Corrigendum	1. iValue InfoSolutions Pvt. Ltd (1,2) 2. Check Point Software Technologies(I) Pvt Ltd (2) 3. RAH InfoTech (P) Ltd (1) 4. iValue InfoSolutions Pvt. Ltd.(1,2) 5. PruTech Solutions India Pvt. Ltd.(1)



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			Web APT appliances must be supplied with the minimum number of Interfaces - 4 x 1 GE copper & 4 x 10G SFP+ fiber ports with dedicated management and IPMI ports. The appliance onboard must have Dual power supply, Hard Disk Drive of minimum 2 x 4TB, with min 7.2k rpm for optimal performance. 2. Anti-APT common deployment scenarios include a) out of band deployment, b) inline deployment c) ICAP & API integration. For inline bridge deployment fail open NIC card to be factored. It is suggested to add the 2x10G fail open NIC cards in addition to 4xGE RJ 45 ports		6. Bodhtree(1)
1219.	4.9 Security Parameters-Anti-APT- 17/504 (11)	Number of VM's should be at least 25 on Day1, scalable to 50 VMs	1. The number of sandbox VM's for simultaneous execution depend on analyzed traffic and volume. It should not be dependent on choice of appliance model being supplied. Different vendors have different metrics and ways to license their solution. Being an enterprise solution, it is recommended to perform the sizing based on submissions per minute for dynamic Analysis to ensure all vendors size their solution appropriately. Submissions include Files, Web objects, scripts, etc irrespective of any filtering mechanisms to ensure no false sense of security is demonstrated by analysing only selective files. For email the recommendation for sizing is that every hour one unique user will have one Attachment and one URL	As per RFP	1. iValue InfoSolutions Pvt. Ltd.(1) 2. RAH InfoTech (P) Ltd (1) 3. Forcepoint (2) 4. RAH InfoTech (P) Ltd (2) 5. Forcepoint (2) 6. iValue InfoSolutions Pvt. Ltd (1,2) 7. NEC Corporation India Pvt. Ltd. (2) 8. PruTech Solutions India Pvt. Ltd. 9. Bodhtree(1)



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			for analysis and that is appropriate sizing. The number can be as per requirements. Network sizing is also recommended to be made quantifiable at par with traffic sizing at network & web layer. There is no mention of Internal lateral movement traffic ANti-Apt detection which becomes more important in case of an integrated wproject like this. It is requestd to add this as a requirement in addition to Web APT of 3 Gbps throughput mentioned in RFP. With that assumption, please find the modified clause to ensure sizing is at par with all vendors. There is no need to specify VM's or restrict your solution on number of files. Request to change: Bidders should propose APT solution with below minimum sizing parameters: Web Anti-APT Layer: Minimum 3 Gbps traffic analysis in redundancy mode to inspect internet traffic (North South traffic) and at the minimum 20 submissions per minute performance sizing. Internal Network Layer (lateral Movement): Minimum 10 Gbps traffic throughput analysis to inspect Internal network traffic (East-West) for IntraSubnet & inter-subnet (Server bound segments) monitoring with a		



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			minimum 60 submissions per minute performance sizing. Email Layer: Minimum 2000 Mailbox analysis inline in redundancy mode to inspect complete email traffic (MTA mode) with the minimum 2000 Attachments & URL's submissions per hour performance sizing. 2. Leading Anti- APT solution providers work do not work on the bases of Golden Image or VM methodology. We work on the concept of Full system emulation. Hence request you to please this clause as: Number of VM's should be at least 25 on Day1, scalable to 50 VMs or Solution should provide/use Full system Emulation techniques.		
1220.	4.9 Security Parameters-Anti-APT- 18/504 (5)	The APT appliance should be able to process minimum of 150000 files/month and scalable to 3,00,000 files/month (either web or mail or both)	3. As cited against Query at Sr. No 10, the sizing seems very conservative and open ended, keeping in view the environment and dynamic information changes that would be part of this integrated project. The sizing is asking for files/month which metrics is in itself customizable and not at par with vendors. As the number of file analysis quantity cannot not be aceratined, giving possible chance for bidders to adjust their solution sizing using file selection & filtering mechanisms to remain within the compliance thereby compromising the overall solution output. The ideal and vendor neutral sizing would to ascertain minimum unique	Kindly Refer Corrigendum	1. iValue InfoSolutions Pvt. Ltd. (3,4) 2. Check Point Software Technologies(I) Pvt Ltd (4) 3. RAH InfoTech (P) Ltd (3) 4. PruTech Solutions India Pvt. Ltd.(3) 5. Bodhtree (3)



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			submissions that would require Dynamic Analysis (sandbox submissions) per minute/hour/day. Submissions rate is the best possible tradeoff for bidders to remain compliant and your organization to ensure performance is guaranteed without any compromise. This way no vendor can tune their solution to minimum and sizing parameters would be applicable for all bidders with clear deliverables. With humble submission, we request you to remove this clause and make the single proposed clause at #10 above, as unified single sizing clause in order to have clarity and neutrality for all bidders. 4. 150,000 file per month equates to 5000 files per day and 625 per hour considering the 8 hours working day. Its is recommended to increase the performance requirements. The APT appliance should be able to process minimum of 3,00,000 files/month and scalable to 6,00,000 files/month (either web or mail or both) and system must offer 4 Gbps of network throughput		
1221.	4.9 Security Parameters-Anti-APT- 19/505 (15)	19. High Availability & Maximum Scalability up to 20 devices in cluster	1. Scalability ask of up to 20 devices in cluster is OEM specific and is restricting broader participation. Hence it is suggested to reduce the scalability ask in order to enable participation from the leading OEM. Kindly modify the clause as	Kindly Refer Corrigendum	1. Sterlite Technologies Limited (1) 2. iValue InfoSolutions Pvt. Ltd (2) 3. Forcepoint(3) 4. Cisco (1) 5. Matrix Security 6. Surveillance Pvt Ltd (1)



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			"High Availability & Maximum Scalability up to 7 devices in cluster" 2. The restriction on cluster seems to be vendor specific hardware and we request for removal of the same. Please accept the modified clause as proposed. Request to Change: High Availability & Maximum Scalability should be provided to run the solution from day 1 and there should be no dependency on any license, hardware or other components in the proposed solution 3. OEM Specific clause, Please delete this clause		7. RAH InfoTech (P) Ltd (2) 8. NEC Corporation India Pvt. Ltd.(3) 9. Larsen & Toubro Ltd (1) 10. Bodhtree (2)
1222.	4.9 Security Parameters-Anti-APT- 20/505 (16)	The solution should have dual AC power supply fully populated (within box) and 2 TB in RAID 1 from day one and should have at least 4 extra bays for future scalability	1. OEM Specific clause, Please delete this clause 2. Kindly provide more details on extra bays and how this will help in achieving scalability 3. This clause is specific to a vendor appliance type and needs modification for it to be vendor neutral. Some solutions do have higher than the asked storage capacity provided upfront and would be at a disadvantage in this case. Therefore in order to have a level playing field please accept the amended clause proposed. Request to change: The solution should have dual AC power supply fully populated (within box) and minimum 2 TB in RAID 1 from day one.	Kindly Refer Corrigendum	1. Forcepoint 2. TREND MICRO (2) 3. iValue InfoSolutions Pvt. Ltd (3) 4. HPE(2) 5. RAH InfoTech (P) Ltd (3) 6. PruTech Solutions India Pvt. Ltd.(2) 7. Corporation India Pvt. Ltd. 8. Larsen & Toubro Ltd (2) 9. Bodhtree (2,3)



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			This clause is specific to a vendor appliance type and needs modification for it to be vendor neutral. Some solutions do have higher than the asked storage capacity provided upfront and would be at a disadvantage in this case. Therefore in order to have a level playing field please accept the amended clause proposed. Request to change: The solution should have dual AC power supply fully populated (within box) and minimum 2 TB in RAID 1 from day one.		
1223.	4.9 Security Parameters-Intrusion Prevention System (IPS)-1/505 (10)	The IPS solution must be a purpose-built dedicated appliance or a subset of proposed firewall appliance should be capable handling seamless throughput of 50 Gbps scalable to 100 Gbps	1. Regarding subset of proposed firewall, we request you to kindly remove this clause as IPS within a firewall can't be dedicated. Below are few points why Trend Micro recommends dedicated IPS appliance: 1. Dedicated throughput can't be achieved from IPS inside the firewall. 2. Dedicated filters of multiple attack vector categories can't be applied to the IPS inside firewall 3. As per govt. guidelines of NIST, MoUD, CERT-In & DSCI, it is always recommended to adhere layered security architecture instead of point security component which can lead to single point of failure. 4. Enabling SSL inspection within firewall will drastically degrade performance of NGFW can same can be	Kindly Refer Corrigendum	1. TREND MICRO (1,2) 2. HPE (1,2)) 3. PruTech Solutions India Pvt. Ltd. 4. Bodhtree (1,2) 5. PruTech Solutions 6. Integre



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			validated by referring NSS reprot statistics. 5. Dedciated NIPS provides out-of-box configuration that will protect the network straight from initial deployment. 6. Dedciated NIPS can be integrated with leading 3rd party VA scanners (Qyalys, Nesus etc.) to shield open known vulnerabilities on perimeter itself using virtual patching technology 7. With IPS inside firewall, it impacts perfomance/user experience by intorducing higher latency. 8. Dedicated NIPS does support Asymmetric Routing traffic inspection. 2. For throughout, as mentioned on page no. 485 of the RFP, premierter firewall is supposed to handle 50 Gig of video feeds traffic, so ideally for IPS to monitor malicious traffic it should be less then 50 Gig as IPS will sit behind firewall and firewall as first layer of defense will also detect and block some part of traffic out of 50 Gig. So factoring 50 Gbps of IPS scalable upto 100 Gbps is over kill not required beyond 25 Gig scalable upto 40 Gig. And this significat impact on the cost as well. Hence we request to change this clause as below: The IPS solution must be a purpose-built dedicated appliance and should be capable handling seamless throughput of 25Gbps scalable to 40 Gbps		



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			PruTech Solutions The IPS solution must be a purpose-built dedicated appliance or a subset of proposed firewall appliance should be capable handling seamless throughput of 70 Gbps scalable to 100 Gbps. The appliance should also support SSL inspection on the box without requiring any third party solution with minimum throughput with ssl inspection enabled of 30 Gbps scalable to 50 Gbps. Integre: The IPS solution must be a purpose-built dedicated appliance or a subset of proposed firewall appliance should be capable handling seamless throughput of 70 Gbps scalable to 100 Gbps. The appliance should also support SSL inspection on the box without requiring any third party solution with minimum throughput with ssl inspection enabled of 30 Gbps scalable to 50 Gbps.		
1224.	4.9 Security Parameters-Intrusion Prevention System (IPS)-3/505 (2)	Intrusion Prevention solution should have in built or external zero-day threat protection with customize simulation environment and should integrate with the asked APT solution.	1. Intrusion Prevention solution should have in built or external zero-day threat protection with customize simulation environment and should integrate bi-directionally with either the asked APT solution or Intrusion Prevention vendor provided APT solution	Kindly Refer Corrigedum	1. PruTech Solutions India Pvt. Ltd. 2. Bodhtree
1225.	4.9 Security Parameters-Intrusion	6. The IPS must protect against the following categories: - Exploits,	1. Clarifications: Different OEMs follow different set of functionaities to achieve and fullfill	Kindly Refer Corrigedum	1. Fortinet 2. Tech Mahindra



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	Prevention System (IPS)- 6/505 (7)	Identity Theft/Phishing, Reconnaissance, Security Policy, Spyware, Virus, Vulnerabilities and should support inspection of headers with 802.1Q for specific Layer 2 security group tag (SGT) values and drop the packet based on Zone Protection profile.	requirement. Asking SGT specific do favour some specific OEM rather all 4 gartner leading OEMs. This should be asked in form on functionality rather a specific way of achieving it. Suggestive Clause: The IPS must protect against the following categories: - Exploits, Identity Theft/Phishing, Reconnaissance, Security Policy, Spyware, Virus, Vulnerabilities and should support inspection of headers with 802.1Q for specific Layer 2 security group tag (SGT) values or equivalent and drop the packet based on Zone Protection profile		3. PruTech Solutions India Pvt. Ltd. 4. NEC Corporation India Pvt. Ltd. 5. Larsen & Toubro Ltd 6. Bodhtree
1226.	4.9 Security Parameters- Intrusion Prevention System (IPS)- 8/505 (2)	8. The IPS filter must support network action set such as Block (drop packet), Block (TCP Reset), Permit, Trust, Notify, Trace (Packet Capture), Rate Limit & proposed IPS solution must support signatures, protocol anomaly, vulnerabilities and traffic anomaly filtering methods to detect attacks. The IPS should have native protection against credential theft attacks (without the need of endpoint agents) with ability to prevent the theft and abuse of stolen credentials. (DLP feature)	1. The IPS filter must support network action set such as Block (drop packet), Block (TCP Reset), Permit, Quarantine, Alert, Rate Limit & proposed IPS solution must support signatures, protocol anomaly, vulnerabilities and statistical anomaly filtering with self learning capability methods to detect attacks. The IPS should be able to Control traffic based on geographical location. 2. Clarifications: This is functionality of WAF & End Point Security. In tender WAF and End Point has already been asked for, there is no need to specifically to be collaborate here as it is favouring one specific OEM. Suggestive Clause: Kindly delete.	Kindly Refer Corrigendum	1. PruTech Solutions India Pvt. Ltd. (1) 2. Bodhtree (1) 3. Fortinet (2) 4. Tech Mahindra (2) 5. Cisco 6. NEC Corporation India Pvt. Ltd. (2) 7. Larsen & Toubro Ltd (2) 8. Fortinet(2) 9. Matrix Security 10. Surveillance Pvt Ltd 11. Sterlite Technologies Limited 12. Matrix Security And Surveillance Pvt Ltd 13. L&T 14. Sterlite Technologies Limited



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			3. Credentials theft attack protection and abuse of stolen credentials prevention requires combination of solution including endpoint security. Hence in order to have participation from leading OEM, kindly remove the clause. 4. Credentials theft attack protection and abuse of stolen credentials prevention requires combination of solution including endpoint security. Hence in order to have participation from leading OEM, kindly remove the clause. 5. Credentials theft attack protection and abuse of stolen credentials prevention requires combination of solution including endpoint security. Hence in order to have participation from leading OEM, kindly remove the clause.		
1227.	4.9 Security Parameters-Intrusion Prevention System (IPS)-10/506 (6)	Must have 4 x 10 G interface, 2 X 100 Gbps and 8 x 1 G copper port. IPS Should have bypass capability considering internal issues i.e. memory hang, firmware crash etc.	1. Regarding 2x100 Gbps ports requirement, we request you to decrease port speed from 100G to 40G as considering the above explanation and requirement of bandwidth, 40G of port can suffice the overall requirement. This clause is OEM specific and highly restrictive. Clause should read as: Must have 4 x 10 G interface, 1 X 40 Gbps and 8 x 1 G copper port. IPS Should have bypass capability considering internal	Kindly Refer Corrigendum	1. TREND MICRO (1) 2. HPE (1) 3. PruTech Solutions India Pvt. Ltd.(1) 4. Bodhtree (1,2)



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			issues i.e. memory hang, firmware crash etc. 2. Must have 32 x 10 G SFP+ interfaces, 8 X 100 Gbps QSFP interfaces and 16 x 1 G copper port. IPS Should have bypass capability – internal or external.		
1228.	4.9 Security Parameters-Intrusion Prevention System (IPS)-11/506 (5)	The single device must have minimum Inspected throughput of 60 Gbps scalable to 120 Gbps for all kinds of real world/enterprise mix/application mix traffic in Active-Active or Active-Passive mode.	1. As stated in above clause, since inspection throughput requirement for IPS should be around 30Gbps considering firewall filters traffic as first layer of defense. 2. Also we request you to kindly remove word "Single" from the clause to allow maximum participation as removing word "single" won't impact any throughout requirements in IPS. This clause is OEM specific and highly restrictive 3. Integre: The IPS solution must be capable of handling seamless inspection throughput of 70 Gbps scalable to 100 Gbps. The appliance should also support SSL inspection on the box without requiring any third party solution with minimum ssl inspection throughput of 30 Gbps scalable to 50 Gbps.	Kindly Refer Corrigedum	1. TREND MICRO (1,2) 2. HPE (1,2) 3. PruTech Solutions India Pvt. Ltd.(1,2) 4. Bodhtree (1,2) 5. Integre
1229.	4.9 Security Parameters-Intrusion Prevention System (IPS)-15/506 (5)	NIPS solution should have inbuilt or external zero-day threat simulation and then create IOC's within 5 minutes post detection and revert back to inline device to block threats on real time.	We request you to kindly remove capping on timings for zero-day simulation to happen as it depends on severity of file and techniques while creating zero-day malware. For instance, if conversion time exceeds beyond to specified time cap, in that case zero-day simulation may gets bypassed and sandboxing will get effected.	Kindly Refer Corrigedum	1. TREND MICRO 2. HPE 3. PruTech Solutions India Pvt. Ltd. 4. Larsen & Toubro Ltd 5. Bodhtree



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1230.	4.9 Security Parameters-Intrusion Prevention System (IPS)-18/506 (2)	18. The centralized management server if provided as separate from asked Firewall management, should provide dashboard for various summary i.e. top attackers, top targets, categories of attack, categories of traffic based on geolocation/application protocol/os	The centralized management server should provide dashboard for various summary i.e. top attackers, top targets, categories of attack, categories of traffic based on geolocation/application protocol/os	Kindly Refer Corrigendum	1. PruTech Solutions India Pvt. Ltd. 2. Bodhtree
1231.	4.9 Security Parameters-DDos/507 (14)	Additional Clause	1. Suggested Clause: The proposed solution should support REAL-TIME attacker intelligence feeds, pertaining to a active attack sources recently involved in DDoS attacks. The feed should support real-time and ongoing validated and actionable threat intelligence from multiple sources for preemptive protection. 2. Other Components in the RFP is Asked with Gartner's Qualification. There is not Gartner Available for Anti-DDoS Solution. Hence we request you to Include Forrester Leaders as OEM's Pre-Qualification Criteria to ensure Healthy Competition between Market Leaders. Note that 5 OEM's Qualify in Forrester's Leader Quadrant for ADC. Suggested Clause: OEM should be present in Forrester's LEADERS quadrant for Anti-DDoS Solution as per latest Published Report. OEM Should Have TAC based in INDIA. The proposed OEM should be Parent Technology OEM only (Should not be	As per RFP (Minimum specifications are mentioned, Bidders are free to propose better solution)	1. RADWARE 2. RAH InfoTech (P) Ltd 3. PruTech Solutions India Pvt. Ltd. 4. F5 5. INTEC 6. INFONET PVT. LTD. 7. Marushika Technology Advisors Pvt. Ltd 8. Bodhtree



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			Whitelabeled or Co-branding or 3rd Party Technology). 3. OEM scrubbing support should also been asked to effectively mitigate attacks. Suggested Clause: The proposed solution should support Integration with OEM Cloud based Scrubbing Centers, in case of Bandwidth Saturation attacks, using the same technology. DDoS Scrubbing Centre must be in INDIA. 4. Proposed Change : SDWAN solution shall have built in feature to protect CPU under DoS/DDos attacks to the extent of min 5 Million pps/fps		
1232.	4.9 Security Parameters- DDos- 1/507 (1)	DDos mitigation solution should be a dedicated appliance (not a part of Router or IPS or Next Generation firewall solution). Also, IPS, Next Generation firewall and Anti-DDos should be from different OEM for better security purpose	It should be Noted that the DDoS Solution should not be Part of Any Stateful or Proxy based Architecture as it can itself become a bottleneck and target for a DDoS Attack. Hence we request you to amend this Clause. Suggested Clause: DDos mitigation solution should be a dedicated appliance (not a part of Router or UTM or Next Generation firewall or ADC or any Proxy Based Architecture). Also, Next Generation firewall and Anti-DDos should be from different OEM for better security purpose. It should be Noted that the DDoS Solution should not be Part of Any	As per RFP	1. RADWARE



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			Stateful or Proxy based Architecture as it can itself become a bottleneck and target for a DDoS Attack. Hence we request you to amend this Clause. Suggested Clause: DDos mitigation solution should be a dedicated appliance (not a part of Router or UTM or Next Generation firewall or ADC or any Proxy Based Architecture). Also, Next Generation firewall and Anti-DDos should be from different OEM for better security purpose.		
1233.	4.9 Security Parameters- DDos- 2/507 (8)	2. Dedicated appliance based DDOS Mitigation solution with: i) Legitimate throughput handling of 100Gbps with 100 Million concurrent connections ii) Mitigation Capacity of 80 Gbps ii) Inspection Ports supported: 4 x 40G QSFP+ and 16 x 10G SFP+ ports	1. In Order to achieve maximum participation and Allow Industry Leading OEM's to Qualify, we request to Generalize Sizing Parameters. The Proposed Device is Oversized, which will Incur Additional Overhead cost to Government of India. Also, DDoS Should be Placed at the Perimeter to protect Network, Network Equipment, Application from the Target DDoS Attack. Hence, the Sizing of the DDoS Should be Done according the Internet pipe Size. Suggested Clause: Dedicated appliance based DDOS Mitigation solution with:. i) Attack Concurrent Sessions: Unlimited ii) Mitigation Capacity of 20 Gbps	Kindly Refer Corrigendum	1. RADWARE (1,2) 2. RAH InfoTech (P) Ltd (2) 3. PruTech Solutions India Pvt. Ltd. 4. Larsen & Toubro Ltd (3) 5. F5 (3) 6. Bodhtree (3)



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			iii) Inspection Ports supported: 16 x 10G SFP+ ports scalable upto 24 x 10G SFP+. 2. The Proposed Device should not be Oversized, which will unnecessary add Additional cost to Government of India. Also, DDoS Should be Placed at the Perimeter to protect Network and Application from the Target DDoS Attack. Hence, the Sizing of the DDoS Should be Done according the Internet pipe Size. 3. Other Datacenter Security component like Firewall is asked with 100G interface from day one, WAF solution must also include 100G interface so that it should not impact the performance of datacenter. Every OEM have different architecture to achieve the performance requirement. Like Windows OS need higher compute (CPU,Memory,HHD) to install any application while Linux OS take very less compute (CPU,Memory,HHD) to run same application. Defining the 4TB HDD is providing undue advantage to single OEM. Hence Request to change clause as "Traffic ports: 4 x 100GQSFP28, 4x40G QSFP+ and 16x 10G SFP+ ports.		
1234.	4.9 Security Parameters-DDos- 3/507 (6)	Dedicated appliance-based solution with DDos flood prevention rate/ Syn Cookies per second of 200 Million and support of handling 100000 SSL-CPS on RSA 2K Key and	1. In Order to achieve maximum participation and Allow Industry Leading OEM's to Qualify, we request to Generalize Sizing Parameters. 2. The Proposed Device is Oversized, which will Incur Additional Overhead	Kindly refer corrigendum	1. RADWARE (1,2) 2. RAH InfoTech (P) Ltd(2) 3. Haltdos Inc (3) 4. Suttantra (3) 5. Principal Cyber Security Consultant



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		75000 SSL-CPS on ECC with 50Gbps of SSL throughput	cost to Government of India. Also, DDoS Should be Placed at the Perimeter to protect Network, Network Equipment, Application from the Target DDoS Attack. Hence, the Sizing of the DDoS Should be Done according the Internet pipe Size. Suggested Clause: Dedicated appliance-based solution with DDos flood prevention rate of 25 MPPS and Max Mitigation Capacity of 20 Gbps. It should support of handling 90K SSL-CPS. 3. 200 Million Syn cookies is mismatching with the required Bandwidth which is 100 Gbps throughput. Requesting clarification on same.		
1235.	4.9 Security Parameters-Intrusion Prevention System (IPS)-26/507 (2)	The NIPS solution should be able to prioritizes risky hosts and users, including active botnets, through the identification of anomalous network behavior.	1. The NIPS solution should support advanced callback detection against zero day bots. It should consist of multiple heuristic checks such as protocol anomaly for http and ssl, response errors in DNS, SMTP and suspicious behavior such port scan stealth scan.	Kindly refer Corrigendum	1. PruTech Solutions India Pvt. Ltd. 2. Bodhtree
1236.	4.9 Security Parameters-Data- Leakage Prevention/509 (1)		CD/DVD and USB are common channels for the data exfiltration, these features will helpful to further increase data protection The endpoint solution should Blocking of non-Windows CD/DVD burners, it should also Inspect and optionally block Explorer writes to WPD class devices. The endpoint solution should encrypt information copied to removable media. It Should support both	NA	1. Forcepoint



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			Native and Portable Encryption and manage the Encryption and DLP policies from the same management Console.		
1237.	4.9 Security Parameters- Data- Leakage Prevention/509 (11)	--	Data Leakage Prevention 1. The Data Leakage Prevention specification mention under this heading are not the specification of DLP solution, its looks to be of Anti-virus and HIPS solution, Hence request you to please provide the detailed specification DLP solution, since there would a lot Sensitive data in the environment which required protected and controlled to prevent data leakages 2. Mentioned specs under Data Leakage Prevention are of Endpoint Protection. Hence request you to change the heading of section from Data Leakage Prevention to Endpoint Protection	1. As per RFP (Kindly refer RFP in detail, MSI can provide as per requirement and sizing) 2. As per RFP (Minimum specifications are mentioned, Bidders are free to propose better solution)	1. Forcepoint (1) 2. iValue InfoSolutions Pvt. Ltd 3. RAH InfoTech (P) Ltd (1) 4. iValue InfoSolutions Pvt. Ltd. (1) 5. NEC Corporation India Pvt. Ltd. (1) 6. Larsen & Toubro Ltd (1,2) 7. HPE (2) 8. PruTech Solutions India Pvt. Ltd. 9. TREND MICRO (2) 10. Bodhtree (2)
1238.	4.9 Security Parameters- Data- Leakage Prevention/509 (1)	--	Data owner should have the right to release the data to the outsider by reviewing the same when it is sent from their reportee to keep the process of datasharing easy with audit when business has the requirement DLP should provide Incident Workflow capabilities where user/Business Manager can remediate the DLP policy violations actions from handsets/emails without logging into the Management Console	As per RFP	1. Forcepoint
1239.	4.9 Security Parameters- Data- Leakage Prevention/509 (1)	--	Endpoint Applications like print screen are most common ways of the having confidential data moving out and hence request you to please add this point in the DLP Specifications	As per RFP (Minimum is asked, MSI can quote above and asked)	1. Forcepoint



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			The solution should Support PrtSc blocking on endpoint when configurable list of specific application are running, no matter it is in the foreground or background. The actual PrtSc capture will also be submitted to the DLP system as forensic evidence. And the solution support 60+ Endpoint applications for the better control		
1240.	4.9 Security Parameters- Data- Leakage Prevention/509 (1)	Mostly data leakage happens when internal employee seek the easiest way to do their job and they are not aware about accidental data leakage due to not knowing the processes , DLP can give that visibility and control	The DLP Solution must provide visibility into Broken Business process. For ex:-if unsecured sensitive content is sent daily from several users to a business partner, the users are probably not aware that they are doing something wrong.	As per RFP	1. Forcepoint
1241.	4.9 Security Parameters- Data- Leakage Prevention/509 (1)	Predefined helps the organisations to have defined policies based on the region and the type of bussiness, which further to fine tune the policies to getter outcomes. Hence request you to add these speifications	The solution should have a comprehensive list of pre-defined policies and templates with over 1000+ patterns to identify and classify information pertaining to different indutry like Energy, Petroleum industry vertical etc and India IT Act.	As per RFP	1. Forcepoint
1242.	4.9 Security Parameters- Data- Leakage Prevention/509 (1)	RFP has not asked for Data leakage prevention solution but it is recommended to have as an enterprise class DLP, where Smart city will be having confidential data of its citizens and Government data which needs to be protected for all the channels	DLP should cover data in rest , data in motion, data in use , optical character recognition from image files and should provide centralize management, reporting & workflow	As per RFP	1. Forcepoint



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1243.	4.9 Security Parameters- Data- Leakage Prevention/509 (1)	Since being critical infra with confidential data , Automated reponse in terms of blocking the data leakage and informing the manager to view the voilation is required to proactively prevent the Data leakage	Automated Response & Incident Management	As per RFP	1. Forcepoint
1244.	4.9 Security Parameters- Data- Leakage Prevention/509 (1)	Slow data leakage is one of the most common ways to exfiltrating the data and through images files. Hence request you to please add these specifications. Centralised console help to have consolidate view of the events and policy framework.	The solution should enforce policies to detect low and slow data leaks and the solution should be able to enforce policies to detect data leaks even through image files through OCR technology for both Web and Email Channel by integrating with Email Security and web Security managed from same console as of DLP with functionality to provide ICAP/native integration with proxy and Firewall solution	As per RFP	1. Forcepoint
1245.	4.9 Security Parameters- Data- Leakage Prevention/509 (1)	Smart city being multiuser environment handling multiple incident could lead to the negligence of critical incident, Single user incident which is related to each other could be multiple , DLP should have that intelligence to correlate those incident and	The Proposed DLP engine must performs a post-processing incident grouping step to avoid displaying related incidents in different cases. All incidents from the same user that have the same classification are combined into a group and DLP case card.	As per RFP	1. Forcepoint
1246.	4.9 Security Parameters- Data- Leakage Prevention- 1/509 (2)	Must offer comprehensive customer/server security by protecting enterprise networks which includes virus protection, spyware, rootkits, bots, grayware, adware, malware and other	Most of the specifications of DLP is from AV prospective which entirely different technology is. It is suggested to add the specification for dedicated DLP solution for data protection. It is suggested to include below minimum specs for DLP:	Kindly Refer Corrigendum	1. Tech Mahindra 2. NEC Corporation India Pvt. Ltd.



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		computer borne threats or mixed threat attacks or any emerging cyber-attacks	The solution can be as hardware based solution for Network and endpoint Protection. The solution must have Identity and Role Based policy capabilities that integrate with AD/LDAP/HR database. The solution should be capable of "Segmentation of Duty" (SoD) based Enforcement of Information Security and the solution should enforce "Automatic Access Control" on Data and Information The solution must be able to apply different policies to different employee groups. The solution should have a comprehensive Information Classification methodology that would be readily deployable. The solution MUST use automated policy mechanism and should have built-in Automated Policy Synthesis mechanism. The solution should be able to monitor and prevent Advanced Persistent Threats (APT) The solution should have a comprehensive Auto data Classification inbuilt. Most of the specifications of DLP is from AV prospective which is entirely different technology. It is suggested to add the specification for dedicated DLP solution for data protection. It is suggested to include below minimum specs for DLP:		
1247.	4.9 Security Parameters- Data- Leakage Prevention/512 (1)	Data Leakage Prevention	Mentioned specs under Data Leakage Prevention are of Endpoint Protection. Hence request you to change the heading of section from Data Leakage Prevention to Endpoint Protection	Kindly Refer Corrigendum	1. Larsen & Toubro Ltd
1248.	4.9 Security Parameters- Data- Leakage	AV should be seamlessly implemented on all the	Kindly provide Operating System details in terms of variants on Which AV needs to be implemented.	Kindly Refer Corrigendum	1. HPE 2. PruTech Solutions India Pvt. Ltd.



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	Prevention-66/512 (4)	variants of the Operating System.			3. TREND MICRO 4. Bodhtree
1249.	4.9 Security Parameters-SIEM Appliance (Should work in HA Mode)/513 (10)	Additional Point	1. IS there requirement for a DR site for redundancy of SIEM stack so that security team operations are not impacted as part of business continuity planning 2. Is the network fiber or copper? Kindly confirm so that appropriate ports can be provided on SIEM collector appliances 3. SIEM Qty is 1? Is there requirement for DR? 4. Kindly suggest if there is a requirement for OEM training for SOC team? Kindly specify the number of man days 5. Kindly add clause that the SIEM solution should be in rated as leader's in Gartner leaders quadrant in any if the last 2 years to ensure the solution quoted is of highest quality 6. Kindly add Pre Qualifications for Security OEM as per below :- "The OEM must have supplied similar solution in at least 3 Safe cities/Smart City projects in India"	1. MSI to decide during implementation 2. Both fiber and copper 3. Not required at DR 4. As and when required 5. As per RFP 6. As per RFP	1. Elkosta Security Systems India 2. Telecommunications Consultants India Limited
1250.	4.9 Security Parameters-SIEM Appliance (Should work in HA Mode)/513 (3)	SIEM Specifications Heading SIEM Appliance (Should work in HA Mode)	It is mentioned that SIEM should work in HA mode, however QTY specified is 1. Kindly confirm if QTY required is 2 for hardware level redundancy to meet the HA criteria.	As per RFP (SIEM to be provisioned in 1 set HA mode.)	1. RSA 2. Elkosta Security Systems India 3. Telecommunications Consultants India Limited
1251.	4.9 Security Parameters-SIEM Appliance (Should work in	The SIEM solution should provide a dedicated appliance with provision of scaling up with distributed	1. Recommendation: next Gen SIEM tools are generally offered as Software solution on dedicated hardware. This	Kindly Refer Corrigendum	1. RAH InfoTech (P) Ltd (1) 2. Madras Security Printers Pvt.Ltd(1)



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	HA Mode)- 1/513 (9)	architecture and should have minimum 100 TB of built-in/DAC storage capable of processing 20000 EPS with scalability to 30000 EPS in future. And 1Gbps capture rate scalable to 5GBPS without appliance change. The solution should have no limitation of number of devices for integration.	supports horizontal scalability as per requirement in future Amendment: The SIEM solution should be provided as software solution on dedicated hardware with provision of scaling up with distributed architecture and should have minimum 100 TB of built-in/DAC storage capable of processing 20000 EPS with scalability to 30000 EPS in future. And 1Gbps capture rate scalable to 5GBPS without appliance change. The solution should have no limitation of number of devices for Integration. 2. Clarification Needed: This is proprietary specification favoring one OEM. 3. Recommendation: next Gen SIEM tools are generally offered as Software solution on dedicated hardware. This supports horizontal scalability as per requirement in future Amendment. :The SIEM solution should be provided as software solution on dedicated hardware with following dedicated components: - Management & Reporting - Normalization and Indexing - Integrated Correlation Engine for logs and packets. - Data Management		- iValue InfoSolutions Pvt. Ltd (2) - Micro Focus Software Solution India Private Limited (earlier Called as Hewlett Packard Software – HPE Software) (2) - PruTech Solutions India Pvt. Ltd.(1) - NEC Corporation India Pvt. Ltd. (1) - Larsen & Toubro Ltd (2) - Bodhtree (2) - Johnson Controls - RAH Infotech



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			4. Recommendation: next Gen SIEM tools are generally offered as Software solution on dedicated hardware. This supports horizontal scalability as per requirement in future Ammendment. :The SIEM solution should be provided as software solution on dedicated hardware with following dedicated components: - Management & Reporting - Normalization and Indexing - Integrated Correlation Engine for logs and packets. - Data Management		
1252.	4.9 Security Parameters- SIEM Appliance (Should work in HA Mode)- 2/514 (7)	The SIEM solution must be able to store both the raw event log as well as the parsed event log/normalized data. Storage should be sized to provide 1-year online log storage at central site. Both raw logs and normalized logs should be made available with minimum 100 TB usable of storage expandable to 200 TB provided by OEM on the same appliance.	Clarification Needed: This is proprietary specification favouring one OEM. Clarification Needed: This is propretary specification favoring one OEM. Recommendations: The SIEM solution must be able to store both the raw event log as well as the parsed event log/normalized data. Storage should be sized to provide 1-year online log storage at central site Intgre: Clarification Needed: This is propretary specification favoring one OEM. Recommendations: The SIEM solution must be able to store both the raw event log as well as the parsed event log/normalized	Kindly refer Corrigendum	1. Madras Security Printers Pvt.Ltd 2. PruTech Solutions India Pvt. Ltd. 3. iValue InfoSolutions Pvt. Ltd 4. Micro Focus Software Solution India Private Limited (earlier Called as Hewlett Packard Software - HPE Software) 5. Larsen & Toubro Ltd 6. Bodhtree 7. Integre



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			data. Storage should be sized to provide 1-year online log storage at central site.		
1253.	4.9 Security Parameters- SIEM Appliance (Should work in HA Mode)- 5/514 (7)	5. The solution must have the ability to capture live network traffic at 1 Gbps and import PCAP files using the same infrastructure and it must be able to detect malicious payload in network traffic • Detect and reconstruct files back to its original type • Detect hidden or embedded files • Detect and flag out renamed files • Complete session reconstruction with support for HTTP/2 protocol	1. Recommendation: SIEM can be integrated with any third party PCAP tool to ingest live traffic flow logs and can import PCAP files Amendment: SIEM should be able to integrate with PCAP tools to capture live network traffic at 1 Gbps and import PCAP files using the same infrastructure and it must be able to detect malicious payload in network traffic • Detect and reconstruct files back to its original type • Detect hidden or embedded files • Detect and flag out renamed files • Complete session reconstruction with support for HTTP/2 protocol 2. Storage for logs is mentioned, however pcap storage requirement is not mentioned under SIEM. Kindly confirm storage requirement for raw packets and normalized packets at 1Gbps. Best practice is to keep 7 days of RAW packets and 15 days of normalized pcap files. Kindly confirm if this can be used to size storage for pcap for average traffic/line rate of 1 Gbps	Kindly Refer Corrigendum	1. NEC Corporation India Pvt. Ltd. (1) 2. RSA (2) 3. RAH InfoTech (P) Ltd (1) 4. Elkosta Security Systems India (2) 5. Telecommunications Consultants India Limited (2)
1254.	4.9 Security Parameters- SIEM Appliance (Should work in HA Mode)- 14/514 (2)	Solution should analyze following application types: a. Web pages: HTML, HTTP--GET, HTTP--POST, HTTP--RESP b. Email and attachments: EML c. Document files: DOC,	SIEM analyzes data in log file. Analyzing given application types is not a functionality of SIEM tool. Kindly provide relaxation on the same.	Kindly Refer Corrigendum	1. RAH InfoTech (P) Ltd 2. NEC Corporation India Pvt. Ltd.



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		DOCX, XLS, XLSX, PPT, PPTX, PDF, WPD d. Images: JPG, BMP, GIF, PNG e. Config, system files			
1255.	4.9 Security Parameters- SIEM Appliance (Should work in HA Mode)- 15/514 (2)	Should be able to provide complete packet-by-packet details pertaining to one or more session of interest including Session replay, page reconstruction, image views, artefact & raw packet and object extractions.	Recommendation: The above functionality can be achieved by integration with any third party PCAP tool Amendment: Solution should be able to integrate with 3rd party PCAP tool to provide complete packet-by-packet details pertaining to one or more session of interest including Session replay, page reconstruction, image views, artefact & raw packet and object extractions.	Kindly Refer Corrigendum	1. RAH InfoTech (P) Ltd 2. NEC Corporation India Pvt. Ltd.
1256.	4.9 Security Parameters- SIEM Appliance (Should work in HA Mode)- 16/514 (2)	16. Should store RAW packet DATA and normalized packet data and correlate that with logs in the correlation engine to find threats such as: 1) Payload based attacks 2) Encrypted tunnels 3) Extract exe / pdf / JavaScript / malicious files for analysis 4) Full session reconstruction 5) Uncompress http payload and detect malicious content on the fly	Recommendation: The above functionality can be achieved by integration with any third party PCAP tool Amendment: Should support integration with PCAP tool to store RAW packet DATA and normalized packet data and correlate that with logs in the correlation engine to find threats such as: 1) Payload based attacks 2) Encrypted tunnels 3) Extract exe / pdf / JavaScript / malicious files for analysis 4) Full session reconstruction 5) Uncompress http payload and detect malicious content on the fly	Kindly Refer Corrigendum	1. RAH InfoTech (P) Ltd 2. NEC Corporation India Pvt. Ltd.
1257.	4.9 Security Parameters- VAPT- 1/513 (3)	Vulnerability Assessment and Penetrating Testing (VAPT) must ensure series of tests on the system architectural associated IP devices throughout the network.	Tenable provides end to end lifecycle of Vulnerability Management. As far as PT is concerned, it's a process of revalidating the findings of Vulnerability Management tool. To check the reliability (there are lot of false positive) of the VM Tool PT is being performed. As far as Tenable is considered it	As per RFP	1. iValue InfoSolutions Pvt. Ltd 2. PruTech Solutions India Pvt. Ltd.



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			is the most trusted solution in Vulnerability Management and is six sigma certified, hence we don't need PT to be performed on our VM results.		
1258.	4.9 Security Parameters-VAPT- 5/513 (3)	Proactively discover vulnerabilities in web and mobile applications using authenticated and un-authenticated scanning, protecting the system from unauthorized access.	Tenable is a global leader in Vulnerability Management Tool as per IDC, Gartner & Forester. There are different tools available in the market for identifying mobile application vulnerabilities. Therefore we suggest to remove this point.	As per RFP (MSI can quote tools along with VAPT tools)	1. iValue InfoSolutions Pvt. Ltd 2. PruTech Solutions India Pvt. Ltd.
1259.	4.9 Security Parameters-VAPT- 7/513 (3)	Event Management: There has to be a feature of Management Module/ tool to establish link with EMS platform & SIEM.	SIEM OEM to be confirmed	As per RFP	1. iValue InfoSolutions Pvt. Ltd 2. PruTech Solutions India Pvt. Ltd.
1260.	4.9 Security Parameters-VAPT- D/513 (3)	Mitigating or eliminating the most serious vulnerabilities for the most valuable resources	The given specification is not applicable for Vulnerability Management Tool as its a monitoring/visibility platform , mitigaiton or elimination can be achieved from other security controls like AV, EDR, NAC, patch management, etc.	As per RFP (MSI's responsibility)	1. iValue InfoSolutions Pvt. Ltd 2. PruTech Solutions India Pvt. Ltd.
1261.	4.9 Security Parameters-AAA Server (NAC)- 1/516 (6)	Dedicated redundant Hardware Appliances. Should be supplied with 20000 AAA (Endpoint licenses)	1. Please confirm the required quantity of AAA/NAC server as the details mentioned under technical specifications are contradictory to the Bill of Quantity details mentioned under following clauses: -Chapter 5: Price Bid Format, 6.36, AAA Server (NAC), Page No. 600 - Quantity mentioned is 1. -Chapter 3 : Schedule of Requirements, 3.1.1 Hardware and Software and Networking Components, (d) Security,	Kindly Refer Corrigendum	1. iValue InfoSolutions Pvt. Ltd (1) 2. Extreme Networks (2) 3. NEC Corporation India Pvt. Ltd. (1) 4. PruTech Solutions India Pvt. Ltd. (2)



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			AAA Server (NAC), Sr. No. 11 – Page No. 128 2. Dedicated redundant Hardware Appliances. Should be supplied with 20000 AAA (Endpoint licenses)		
1262.	4.9 Security Parameters-AAA Server (NAC)-3/516 (4)	Must provide Network Access Control and visibility in single pane of glass for the entire infrastructure from day 1 spread across multiple Network Locations / Zones	Please confirm if NAC capabilities like Posture Check, Guest Access (Captive Portal), Network Device Visibility are also required from day 1 for all 20,000 endpoints including AAA (Radius and TACACS+) functionality OR only AAA licenses are required in Phase 1 to managed network Switches, routers, etc. The reason for this clarification is, NAC license is required only for Managed endpoints like desktops and laptops, it is not required for an unmanaged device like switches, routers, IP printer, IP camera, IP phone, etc. Hence please confirm the total number of managed endpoints for which NAC capability/license is required from day 1 along with AAA functionality if NAC also is the requirement. As a best practise, we would strongly recommend to go with at least two quantity of Appliances to run it in High Availability mode if NAC features are also required from day 1 as the quantity of endpoints is significantly high i.e. 20,000. Extremenetworks: Dedicated redundant Hardware Appliances. Should be supplied with 20000 AAA (Endpoint licenses)	As per RFP (For licenses refer point above)	1. iValue InfoSolutions Pvt. Ltd 2. NEC Corporation India Pvt. Ltd. 3. PruTech Solutions India Pvt. Ltd. 4. Extremenetworks



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1263.	4.9 Security Parameters-AAA Server (NAC)-6/516 (5)	Must allow for graphing or viewing in table format and multiple OIDs that are user selectable.	Specific to one OEM and restrict broader participation. Hence, in order to have participation from leading OEM, Kindly remove this clause.	Kindly Refer Corrigendum	1. Cisco 2. Matrix Security 3. Surveillance Pvt Ltd 4. Sterlite Technologies Limited 5. Larsen & Toubro Ltd
1264.	4.9 Security Parameters-AAA Server (NAC)-8/516 (9)	Must provide a utility to view and select MIB objects from a tree- based representation and include a compiler for new or third-party MIBs.	1. As the name suggests AAA/NAC is a solution which controls unauthorized access to the network or networking devices like switches, routers, etc. It is not a network monitoring tool which heavily depends on SNMP protocol and runs SNMP queries for identifying the status of the device. What it does is that it uses SNMP for network device visibility/discovery and for access enforcement. This point is not relevant to AAA or NAC, but for a network monitoring tool, hence kindly remove this point or rephrase it as follows: "Must provide an option to view, select and add new devices for SNMP based discovery and enforcement" 2. Specific to one OEM and restrict broader participation. Hence, in order to have participation from leading OEM, Kindly remove this clause. 3. Specific to one OEM and restrict broader participation. Hence, in order to have participation from leading OEM, Kindly remove this clause.	Kindly Refer Corrigendum	1. PruTech Solutions India Pvt. Ltd. 2. iValue InfoSolutions Pvt. Ltd 3. Cisco 4. Matrix Security & Surveillance Pvt Ltd 5. NEC Corporation India Pvt. Ltd. 6. Sterlite Technologies Limited 7. Larsen & Toubro Ltd 8. Matrix Security And Surveillance Pvt Ltd 9. Sterlite Technologies Limited



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1265.	4.9 Security Parameters-AAA Server (NAC)-12/516 (5)	When integrated with security devices such as IDS it must be able to dynamically deny, limit or change the characteristics of the user's access to the network	Different OEM have different approach/methods to control the affected endpoint. Hence in order to in order to enable participation from the leading OEM. Kindly modify the clause as "When integrated with security devices such as IDS it must be able to dynamically deny, limit or change the characteristics of the user's/compromised host access to the network"	Kindly Refer Corrigendum	1. Cisco 2. Matrix Security 3. Surveillance Pvt Ltd 4. Sterlite Technologies Limited 5. Larsen & Toubro Ltd
1266.	4.9 Security Parameters-AAA Server (NAC)-14/516 (9)	Must enable diagnosis of network issues and performance through real-time NetFlow analysis.	This functionality belongs to NBAD solution and is not applicable here. Kindly delete the clause. Network issue and performance analysis are a feature for network monitoring tool and not AAA or NAC. Since AAA/NAC is out-of-band solution, they don't have direct visibility of the network traffic and patterns and hence, the specification mentioned in this specification is vendor specific and is a feature of NMS tool. Kindly remove this point as its not applicable to AAA or NAC solutions.	Kindly Refer Corrigendum	1. Cisco 2. iValue InfoSolutions Pvt. Ltd. 3. Matrix Security 4. Surveillance Pvt Ltd 5. PruTech Solutions India Pvt. Ltd. 6. Sterlite Technologies Limited 7. NEC Corporation India Pvt. Ltd. 8. Larsen & Toubro Ltd
1267.	4.9 Security Parameters-AAA Server (NAC)-22/517 (4)	22. Should be able to perform posture check for compute end points (Windows & MAC) for OS health for parameters like Registry Keys, allowed process, AV or Firewall Enabled etc. Should include licenses towards posture check for the above mentioned no. of devices.	Please confirm if Posture Check license is required from day 1 for all 20,000 endpoints OR only AAA licenses are required in Phase 1 to managed network Switches, routers, etc. The reason for this clarification is, NAC license is required only for Managed endpoints like desktops and laptops, it is not required for an unmanaged device like switches, routers, IP printer, IP camera, IP phone, etc. If posture check license is also required form day 1, please confirm the total	As per RFP	1. NEC Corporation India Pvt. Ltd. 2. iValue InfoSolutions Pvt. Ltd. 3. PruTech Solutions India Pvt. Ltd.



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			number of managed endpoints for which NAC capability/license is required. As a best practice, we would strongly recommend to go with at least two quantity of Appliances to run it in High Availability mode if NAC features are also required from day 1 as the quantity of endpoints is significantly high i.e. 20,000.		
1268.	4.9 Security Parameters-AAA Server (NAC)-36/518 (5)	36. Must be able to define policies to rate-limit bandwidth, throttle the rate of new network connections, prioritize based on Layer 2 or Layer 3 QoS mechanisms, apply packet tags, isolate/quarantine a particular port or VLAN, and/or trigger pre-defined actions.	Rate-limiting bandwidth, QoS, throttling are the functionality of gateway device and is not applicable here. Kindly modify the clause as "Must be able to define policies to isolate/quarantine a particular port or VLAN, and/or trigger pre-defined actions"	Kindly Refer Corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd 3. Sterlite Technologies Limited 4. Larsen & Toubro Ltd
1269.	4.9 Security Parameters-AAA Server (NAC)-39/518 (6)	Must be able to provide a centralized history of firmware and configuration changes and other inventory management operations made to a device.	This functionality belongs to NMS solution and is not applicable here. Kindly delete the clause from here and can be added under NMS section.	Kindly Refer Corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd 3. Sterlite Technologies Limited 4. Larsen & Toubro Ltd
1270.	4.9 Security Parameters-AAA Server (NAC)-40/518 (5)	Must be able to download text-based (ASCII format) configuration emplates to one or more devices.	Specific to one OEM and restrict broader participation. Hence, in order to have participation from leading OEM, Kindly remove this clause.	Kindly Refer Corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd 3. Cisco 4. Larsen & Toubro Ltd 5. Sterlite Technologies Limited
1271.	4.9 Security Parameters-AAA Server (NAC)-	Must enable diagnosis of network issues and performance through real-	1. This functionality belongs to NBAD solution and is not applicable here. Kindly delete the clause.	Kindly Refer Corrigendum	1. Cisco(1) 2. iValue InfoSolutions Pvt. Ltd. (2)



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	44/518 (10)	time Flow analysis (sflow / Netflow / jFlow)	2. Network issue and performance analysis are a feature for network monitoring tool and not AAA or NAC. Since AAA/NAC is out-of-band solution, they don't have direct visibility of the network traffic and its patterns and hence, the specification mentioned in this specification is vendor specific and is a feature of NMS tool. Kindly remove this point as its not applicable to AAA or NAC solutions.		3. Matrix Security & Surveillance Pvt Ltd (1) 4. PruTech Solutions India Pvt. Ltd.(2) 5. NEC Corporation India Pvt. Ltd. (2) 6. Larsen & Toubro Ltd (1) 7. Cisco (1) 8. Sterlite Technologies Limited (1)
1272.	4.9 Security Parameters-AAA Server (NAC)- 53/519 (5)	53. VLAN steering and port bouncing via SNMP	Different OEM have different approach/methods to meet the desired functionality. Hence in order to in order to enable participation from the leading OEM. Kindly modify the clause as "VLAN steering and port bouncing via SNMP/RADIUS"	Kindly Refer Corrigendum	1. Sterlite Technologies Limited 2. Cisco 3. Matrix Security & Surveillance Pvt Ltd
1273.	4.9 Security Parameters-AAA Server (NAC)- 56/519 (4)	AAA framework must allow for the complete separation of Authentication and Authorization sources. For example, authentication against Active Directory but authorize against an external SQL database.	Specific to one OEM and restrict broader participation. Hence, in order to have participation from leading OEM, Kindly remove this clause.	Kindly Refer Corrigendum	1. Cisco 2. Matrix Security & Surveillance Pvt Ltd 3. Sterlite Technologies Limited
1274.	4.9 Security Parameters- Network load balancer- 1/520 (1)	The Load Balancer shall distribute traffic efficiently while ensuring high application availability. It shall monitor server health to determine that application servers are not only reachable but alive. If the Load Balancer detects issues, It shall be appliance based	For Security reasons, Device OS should be hardened and should not support any Open Source or Third party Software to Run within the device Itself. This may expose device to various malwares/viruses which may impact device functionality. Suggested Clause: The Load Balancer shall distribute traffic efficiently while ensuring high application availability. It shall monitor server health to	As per RFP (The third party software or multi application environment is with respect to the application servers and not on the proposed appliance)	1. RADWARE



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		and shall facilitate multi-vendor, multi-application environment and shall support third-party products	determine that application servers are not only reachable but alive. If the Load Balancer detects issues, it shall automatically remove downed servers from the server pool and rebalance traffic among the remaining servers. It Should not Support any 3rd party/ open Source Software to install on the Proposed Appliance.		
1275.	4.9 Security Parameters- Network load balancer- 2/520 (2)	2. The Load Balancer shall deliver the high availability required by modern Data Centers. It should support Active/Passive or Active / Active HA configurations. The Load Balancer shall automatically synchronize configurations between the pair and automatically failover if any fault is detected with the primary unit.	As per Government guidelines, there should open standards used for any system, it is suggested to use the standard VRRP for high availability between two appliances. It is suggested to amend the clause as "The Load Balancer shall deliver the high availability required by modern Data Centers. It should support Active/Passive or Active / Active HA configurations using standard VRRP (RFC – 2338). The Load Balancer shall automatically synchronize configurations between the pair and automatically failover if any fault is detected with the primary unit.	As per RFP	1. NEC Corporation India Pvt. Ltd. 2. Tech Mahindra
1276.	4.9 Security Parameters- Network load balancer- 7/521 (2)	7. Should be high performance purpose built next generation multitenant hardware with NFV and SDN support. Platform should support multiple network functions including Server Load balancing, Application Security, Secure remote access and AAA network functions with dedicated hardware resources for each virtual instance.	The device should support next generation features like Virtualization with its own Hypervisor (Not any open source or third party) that can that virtualizes the Device resources—including CPU, memory, network, configuration, operating system and acceleration resources to provide complete separate environment from applications and management perspective. Suggested Clause: The proposed appliance should have hypervisor based Virtualization feature with its own Hypervisor (Not any open source or third party) that virtualizes the Device resources—including CPU, memory,	Kindly Refer Corrigendum	1. RADWARE



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			network, configuration, operating system and acceleration resources. The proposed device should have 5 Virtual Instances from Day 1 and scalable upto 30 Virtual Instances.		
1277.	4.9 Security Parameters- Network load balancer- 9/521 (4)	The server load balancer should deliver 160Gbps L4 Throughput	The proposed device should not be oversized, which will add unnecessary additional cost to Government of India. The device should be sized according to technical requirement and other equipment asked as Part of RFP. Hence, we request to reconsider sizing parameters. Suggested Clause: Device L4 Throughput : 60 Gbps scalable to 80 Gbps Layer 4 connections per second: 1M CPS Layer 7 requests per second: 2M RPS SSL Throughput: 20 Gbps	Kindly Refer Corrigendum	1. RAH InfoTech (P) Ltd 2. iValue InfoSolutions Pvt. Ltd
1278.	4.9 Security Parameters- Network load balancer- 10/521 (3)	The server load balancer should have dedicated SSL card to support Minimum 76,000 ECC TPS (ECDSA-SHA256) & 110,000 SSL TPS 2K Keys.	The proposed device should not be oversized, which will add unnecessary additional cost to Government of India. The device should be sized according to technical requirement and other equipment asked as Part of RFP. Hence, we request to reconsider sizing parameters. Suggested Clause: The server load balancer should have dedicated SSL card to support Minimum 20K ECC TPS (ECDSA-SHA256) & 30K SSL TPS 2K Keys.	Kindly refer corrigendum:	1. RADWARE 2. RAH InfoTech (P) Ltd
1279.	4.9 Security Parameters- Network load balancer- 11/521 (7)	The sever load balancer should support Minimum 512GB RAM, 4TB HDD and should have minimum 16x10GbE SFP+ ports, 4x40GbE QSFP+ ports. Two	1. Physical specification requirement like RAM and HDD depends on archirecture of the hardware and OS and vary from OEM to OEM , since required performance is already mentioned in	Kindly Refer Corrigendum	1. iValue InfoSolutions Pvt. Ltd. (1) 2. RAH InfoTech (P) Ltd (2) 3. RADWARE (2) 4. A10 Networks (1)



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		1G Copper dedicated management interface	the compliance we request to remove the restriction of RAM and HDD 2. The proposed device should not be oversized, which will add unnecessary additional cost to Government of India. The device should be sized according to technical requirement and other equipment asked as Part of RFP. Hence, we request to reconsider sizing parameters. 500GB of Storage is sufficient to cater any possible requirement also it does not affect the functionality of appliance in anyway. For Log storage the centralized management station can be proposed for better correlation and forensics. Suggested Clause: The proposed appliance Should support 24X10G SFP+ Ports. (Bidder to populate appropriate SFP's as per the proposed solution). Two 1G Copper dedicated management interface Memory: 32GB Scalable upto 256GB. Storage: 500 GB Radware The Proposed Device is Oversized, which will Incur Additional Overhead cost to Government of India. The Device should be Sized According to the Other Equipment Asked as Part of RFP. Hence, we request to reconsider Sizing Parameters suggested as below. 500GB of Storage is more than enough		5. NEC Corporation India Pvt. Ltd. (1) 6. Radware



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			to cater any possible requirement also it does not affect the functionality of appliance in anyway. For Log storage the centralized management station can be proposed for better correlation and forensics. Suggested Clause: The proposed appliance Should support 6X10G and 6X1G Ports scalable upto 12 X 10G and 12 X 1G Ports. Memory: 32GB Scalable upto 256GB. Processor: Intel 6-core CPU Storage: 500 GB The Solution should be proposed with Centralized Management, Logging, and Reporting functionality.		
1280.	4.9 Security Parameters- Network load balancer- 13/521 (3)	Solution should support DDos attacks from day one like Protocol Attack: SSL invalid packet, SSL handshake attack, SSL renegotiation, HTTP invalid packet attack – Application Attacks: HTTP slow attack, HTTP flood attack, long form submission, Challenge	Dedicated Security Solution Such as Anti-DDoS Prevention, Intrusion Prevention Systems, Firewall, Web Application Firewall etc is Already Asked in the RFP. Also, Adding Security Functionality in LB will Include Additional Unnecessary License Costing to the Solution. Hence we Request you to remove this Clause. Suggested Clause: Kindly Remove this Clause.	Kindly Refer Corrigendum	1. RAH InfoTech (P) Ltd 2. RADWARE
1281.	4.9 Miscellaneous- Virtualization, OS for servers/522 (1)	Virtual Machines	77 Physical Servers using two sockets in total 154 (77*2) quantity required for virtualization servers	As per RFP	1. AMD India Pvt.Ltd



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1282.	4.9 Security Parameters- Multi-Factor Authentication/522 (6)	Multi-Factor Authentication (with Finger print biometric and hard token devices) at all workstations	Volumetric Clarification Needed: 1. What would be number of users to be considered for MFA. 2. Hard tokens need to consider for all users? If not, please provide volumetric. AMD With use of virtual machines in architecture, data is always at risk once the VM is switched-off and to protect this data from leakage, processor must encrypt this data. This being a prestigious project, security must be a high priority. Would request department consider this necessary along with secure boot and other security measures.	1. Minimum 1500 numbers of users and provisions to scalable to 2500 users. 2. Kindly Refer Corrigendum	1. Madras Security Printers Pvt.Ltd(1,2) 2. PruTech Solutions India Pvt. Ltd.(1,2) 3. iValue InfoSolutions Pvt. Ltd (1,2) 4. Micro Focus Software Solution India Private Limited (earlier Called as Hewlett Packard Software – HPE Software) (1,2) 5. Bodhtree (1,2) 6. AMD
1283.	4.9 Security Parameters- Network load balancer/522 (1)	New Clause Request	Other Components in the RFP is Asked with Gartner's Qualification. Hence we request you to Include Gartner Leaders as OEM's Pre-Qualification Criteria to ensure Healthy Competition between Market Leaders. Note that 3 OEM's Qualify in Gartner's Leader Quadrant for ADC. Suggested Clause: OEM should be present in Gartner's "LEADER" magic quadrant for ADC as per latest Published Report. OEM Should Have TAC based in INDIA. The proposed OEM should be Parent Technology OEM only (Should not be Whitelabeled or Co-branding or 3rd Party Technology).	As per RFP	1. RADWARE
1284.	4.9 Security Parameters- Network load balancer-	Should support machine authentication based on combination of HDD ID, CPU info and OS related parameters i.e. mac address	As per Industry Standard, Remote Authentication is not the Functionality of a Load Balancer. Hence we Request you to Remove this Clause. Suggested Clause:	Kindly Refer Corrigendum	1. RADWARE



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	14/522 (1)	to provide secure access to Data Center resources.	Kindly Remove this Clause		
1285.	4.9 Security Parameters- Network load balancer- 15/522 (1)	Supports SAML secure application access – Supports web single sign-on (SSO) – Serves as a SAML SP (service provider)	As per Industry Standard, Remote Authentication is not the Functionality of a Load Balancer. Hence we Request you to Remove this Clause. Suggested Clause: Kindly Remove this Clause	Kindly Refer Corrigendum	1. RADWARE
1286.	4.9 Security Parameters- Network load balancer- 16/522 (3)	Solution should capable of blocking access through anonymous services (TOR, VPN, open proxies, anonymizers)	Dedicated Security Solution Such as Anti-DDoS Prevention, Intrusion Prevention Systems, Firewall, Web Application Firewall etc is Already Asked in the RFP. Also, Adding Security Functionality in LB will Include Additional Unnecessary License Costing to the Solution. Hence we Request you to remove this Clause. Suggested Clause: Kindly Remove this Clause.	Kindly Refer Corrigendum	1. RADWARE 2. RAH InfoTech (P) Ltd
1287.	4.9 Security Parameters- Network load balancer- 17/522 (1)	Solution Must Prevents modifying the form data and cookies on the client side by controlling their invariability between the request and the response with Cookie Signing, Form Signing, AJAX request Signing.	Dedicated Security Solution Such as Anti-DDoS Prevention, Intrusion Prevention Systems, Firewall, Web Application Firewall etc is Already Asked in the RFP. Also, Adding Security Functionality in LB will Include Additional Unnecessary License Costing to the Solution. Hence we Request you to remove this Clause. Suggested Clause: Kindly Remove this Clause.	Kindly Refer Corrigendum	1. RADWARE
1288.	4.9 Security Parameters- Network load balancer- 19/522 (1)	It should support integrated antivirus module for scanning of malicious content in files uploads and should be able to integrate with the proposed on-	Dedicated Security Solution Such as Anti-DDoS Prevention, Intrusion Prevention Systems, Firewall, Web Application Firewall etc is Already Asked in the RFP. Also, Adding Security Functionality in LB will Include Additional Unnecessary License Costing to	Kindly Refer Corrigendum	1. RADWARE



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		premise Anti-APT, SIEM, DLP solution to scan for zero-day malwares from Day 1	the Solution. As per Industry Standard, Anti-Virus is not the Functionality of a Load Balancer. Hence we Request you to remove this Clause. Suggested Clause: Kindly Remove this Clause.		
1289.	4.9 Security Parameters- Network load balancer- 21/522 (1)	The solution should provide comprehensive and reliable support for high availability and N+1 clustering based on stateful session failover with Active-active & active standby unit redundancy mode. Also support Single System Image for Load Balancer Function to create a single VIP (single ADC instance) out of any number of dedicated, virtualized or virtual APV appliances to provide ultimate flexibility in scaling out.	As per industry standard, the proposed appliance should support Active-active and Active-passive mode of high Availability using Industry standard VRPP Protocol defined as per RFC-2338. It should not use any prosperity protocol for High Availability. Suggested Clause. The proposed device should support standard VRRP (RFC - 2338) for High Availability purpose (no proprietary protocol). The Load Balancer shall deliver the high availability required by modern Data Centers. It should support Active/Passive or Active / Active HA configurations.	As per RFP	1. RADWARE
1290.	4.9 Miscellaneous- Virtualization, OS for servers/523 (2)	Microsoft Windows OS for Virtualization Servers - 73 Physical Servers each having 4 VM's (Total 308 VM's). For each server we need to consider license for 40+40=80 cores (5 licenses of 16 cores) 18 physical servers using two sockets in total 36 (18*2) quantity required for security	Request to open this specification and provide the option to SI to choose between Windows & Linux OS	Kindly Refer Corrigendum	1. PruTech Solutions India Pvt. Ltd. 2. Bodhtree



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		of DMZ virtualization servers - Windows Server Data Center Edition 64-bit latest version			
1291.	4.9 Miscellaneous Compute Virtualization - 14/525 (1)	The Solution should offer virtual load balancers with L4-L7 load balancer with SSL offload and pass-through, server health checks	The clause is specific to one OEM and relaxing the clause will not impact the desired functionality of the solution and will broaden the leasing OEM participation. Kindlt modify the clause as "The Solution should offer integration with physical and virtual L4-L7 load balancers"	Kindly Refer Corrigendum	1. Cisco
1292.	4.9 Miscellaneous Compute Virtualization - 17/525 (1)	Solution should protect every Virtual Machine with a stateful distributed firewall integrated into the host architecture and provide near line rate firewall throughput.	The clause is specific to one OEM and relaxing the clause will not impact the desired functionality of the solution and will broaden the leasing OEM participation. Kindlt modify the clause as "Solution should protect every Virtual Machine, bare metal host, analytics host with a stateful or stateless distributed firewall integrated into the host architecture."	Kindly Refer Corrigendum	1. Cisco
1293.	4.9 Miscellaneous Compute Virtualization - 18/525 (1)	Solution should enable creation of security groups and security policies/ rules based on constructs like machine name, OS type, IP address, Logical Switches, Security Tags etc.	The clause is specific to one OEM and relaxing the clause will not impact the desired functionality of the solution and will broaden the leasing OEM participation. Kindlt modify the clause as "Solution should enable creation of security groups and security policies/ rules based on constructs like machine name, OS type, IP address, FQDN, DNS, Security/custom Tags etc."	Kindly Refer Corrigendum	1. Cisco
1294.	4.9 Miscellaneous Compute Virtualization -	The solution should offer converged visibility and analytics that tie together compute,	The clause is specific to one OEM and removing this clause will not impact the desired functionality of the solution and will	Kindly Refer Corrigendum	1. Cisco



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	24/526 (1)	network, storage and security and provide Physical to Virtual Correlation and troubleshooting, report the amount of East-West, North-South, Internet, virtual machine to virtual machine, virtual machine to physical traffic within the datacenter Monitoring of OS level resources (CPU, disk, memory, network) for any OS and physical hardware resources of the hosts. These monitoring capabilities combined with patented analytics should extend operational visibility and proactive management capabilities across OS.	broaden the leasing OEM participation. Kindly delete the same.		
1295.	4.9 Miscellaneous Compute Virtualization - 25/526 (1)	The solution should offer comprehensive flow assessment and analytics and security groups and firewall rules suggestion for the purpose of implementing a zero-trust security within the data-center, provide a converged view of virtual and physical netw	The clause is specific to one OEM and removing this clause will not impact the desired functionality of the solution and will broaden the leasing OEM participation. Kindly delete the same.	As per RFP	2. Cisco
1296.	4.9 Miscellaneous	Virtual Switch 29. In-built enhanced host-	The clause is specific to one OEM and removing this clause will not impact the	As per RFP	1. Cisco



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	Compute Virtualization - 29/527 (1)	level packet capture tool which will provide functionalities like span, rspan, erspan and will capture traffic at uplink, virtual switch port and virtual NIC level. It should also be able to capture dropped packet	desired functionality of the solution and will broaden the leasing OEM participation. Kindly delete the same.		
1297.	4.9 Miscellaneous Compute Virtualization - 30/527 (1)	Virtual Switch 30. The Solution should provide distributed routing (OSPF & BGP), VXLAN based logical virtual switching, NAT function, server load balancer, Software L2 bridging to physical environments, L2 & L3 VPN, site-to-site IPSEC VPN services, distri	The clause is specific to one OEM and relaxing the clause will not impact the desired functionality of the solution and will broaden the leasing OEM participation. Kindlt modify the clause as "The Solution should provide distributed routing (OSPF & BGP), VXLAN based switching,, distributed L2-L4 stateful / stateless firewall"	As per RFP	1. Cisco
1298.	4.9 Miscellaneous Compute Virtualization - 32/527 (1)	Virtual Switch 32. Solution should provide integrated smart alerts for health, performance and capacity degradation to identify building performance problems before they affect end users, should be able to collect and analyze all types of mac	The clause is specific to one OEM and removing this clause will not impact the desired functionality of the solution and will broaden the leasing OEM participation. Kindly delete the same.	As per RFP	1. Cisco
S. No.	Clause/Page (Total Queries)	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
1299.	4.10 Field Devices-A. Cameras and	The fixed box cameras should have sharp, instant and concentrated Field of	1. The fixed box/bullet cameras should have sharp, instant and concentrated Field of View as desired. It should have Max Image	Kindly refer corrigendum	1. Globalrays Technologies (1) 2. Triflex Solutions (1)



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	sensors- h/529 (4)	View as desired. It should have Max Image Resolution 2688 X 1520 or better and Lens 2.8 to 12mm lens, Auto/DC/P-IRIS, or better varifocal motorized.	Resolution 2592 X 1520 or better and Lens 2.8 to 12mm lens, Auto/DC/P-IRIS, or better varifocal motorized. Request you to allow both the options of camera housing -box & bullet. Also please change the minimum resolution to 2592 x 1520 (4MP) as this is standard among the OEMs, same has been asked by you in the RFP in PTZ camera section or make it 2592x1592/2688x1592 for wider participations.		3. Bodhtree (1) 4. PruTech Solutions India Pvt. Ltd. (1)
1300.	4.10 Field Devices-A. Cameras and sensors- I/529 (2)	I. The ANPR- Vehicle Surveillance cameras must ensure highly reliable results of min 90% + capture and OCR accuracy min 90% in both day and night. The ANPR Vehicle Surveillance camera has to conduct H.265 codec compression at 25/30 FPS. There will be provision of external IR illuminator with required accessories.	1. Different accuracy for ANPR camera is mentioned in RFP at different locations. Kindly make it universal as 90% in all respective sections.	As per RFP (Camera and software spec. are highlighted separate)	1. vehant TECHNOLOGIES (1)
1301.	4.10 Field Devices-D. Outdoor Cabinets / Junction Boxes- b/534 (2)	Outdoor Cabinets / Junction Boxes: MSI will reserve additional room in the location controller cabinet to accommodate the future system requirements.	1. Rack size and no. of equipment already defined in RFP. Hence additional space should not be mandated to maintain by MSI. Kindly amend this clause accordingly.	As per RFP	1. Presto (1) 2. Presto Infosolutions Pvt. Ltd. (1)
1302.	4.10 Field Devices-D. Outdoor Cabinets / Junction Boxes-	The size of outdoor cabinet / Junction Boxes shall be sufficient to house all the system components, which	1. Request you to rephrase:- c) The size of outdoor cabinet / Junction Boxes shall be min 15U sufficient to house all the system components, which may be installed at the location or	Kindly refer corrigendum	1. Marushika Technology Advisors Pvt. Ltd. (1) 2. Elkosta Security Systems India(2)



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	c/534 (4)	may be installed at the location or nearby. Ingress Protection should be Outdoor – IP55 or better for Junction Box to be dustproof and impermeable to splash-water. It shall be suitable for Delhi's environmental conditions and it shall have provision for two types of cabinet as follows: Power cabinet: This cabinet shall have the provision to house the electricity meter and the redundant power supply system Control cabinet: This cabinet shall house the controllers for all the field components at that particular location e.g. ANPR, PTZ, Fixed cameras etc.	nearby. Ingress Protection should be Outdoor – IP55 or better for Junction Box to be dustproof and impermeable to splash-water meeting IP55 to DIN EN60529, TUV and UL2416, UL60950-1 certified solution It shall be suitable for Delhi's environmental conditions and it shall have provision for two types of cabinet Compartment as follows: -Power cabinet Compartment: This cabinet shall have the provision to house the electricity meter and the redundant power supply system -Control cabinet Compartment: This cabinet shall house the controllers for all the field components at that particular location e.g. ANPR, PTZ, Fixed cameras etc. Contradictory to clause (f) as per clause "f" page 534 JB should have two compartment for power and control technically to achieve IP55 It is suggested to have one outdoor cabinet with two partition as per clause "f" for Power and control similar to all smart city projects instead of two cabinets.... The word cabinet is suggested to be replaced with compartment since the word cabinet generally refers to be a dedicated & separate box. This will bring out clarity. The specifications need to be complemented with the suggested certifications like IP55 to DIN EN60529, TUV and UL certified solution. This will enable good prominent and desired		3. Transline Technologies Pvt. Ltd. (1) 4. INTEC INFONET PVT. LTD. (1) 5. Transline Technologies



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			junction box of lead competent players & will restrict the low quality products which are not certified and are not 3rd party compliant. 2. IP55 Certification details is not mentioned request you to add min certification:- c) The size of outdoor cabinet / Junction Boxes shall be sufficient to house all the system components, which may be installed at the location or nearby. Ingress Protection should be Outdoor – IP55 or better for Junction Box to be dustproof and impermeable to splash-water meeting IP55 to DIN EN60529, TUV and UL certified solution It shall be suitable for Delhi's environmental conditions and it shall have provision for two types of cabinet Compartment as follows: -Power cabinet Compartment: This cabinet shall have the provision to house the electricity meter and the redundant power supply system -Control cabinet Compartment: This cabinet shall house the controllers for all the field components at that particular location e.g. ANPR, PTZ, Fixed cameras etc. <u>Transline Technologies</u> request you to rephrase:- c) The size of outdoor cabinet / Junction Boxes shall be min 15U sufficient to house all the system components, which may be installed at the location or		



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			nearby. Ingress Protection should be Outdoor – IP55 or better for Junction Box to be dustproof and impermeable to splash-water meeting IP55 to DIN EN60529, TUV and UL2416, UL60950-1 certified solution It shall be suitable for Delhi's environmental conditions and it shall have provision for two types of cabinet Compartment as follows: -Power cabinet Compartment: This cabinet shall have the provision to house the electricity meter and the redundant power supply system -Control cabinet Compartment: This cabinet shall house the controllers for all the field components at that particular location e.g. ANPR, PTZ, Fixed cameras etc. Contradictory to clause (f) as per clause "f" page 534 JB should have two compartment for power and control technically to achieve IP55 It is suggested to have one outdoor cabinet with two partition as per clause "f" for Power and control similar to all smart city projects instead of two cabinets....		
1303.	4.10 Field Devices-D. Outdoor Cabinets / Junction Boxes-c/534 (1)	Outdoor Cabinets / Junction Boxes It shall be suitable for Delhi's environmental conditions and it shall have provision for two types of cabinet as follows:	1. Section 4.10, D says there will be two junction box at every location for Power and Data, whereas Chapter 5 Price Bid format says only one type of junction box (Either floor mounted or Pole mounted). Kindly confirm we need to design two separate Field junction box or Single	As per RFP (Point is self-explanatory, Single Enclosure/JB with two compartments)	1. EFKON India Pvt. Ltd (1)



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		Power cabinet: This cabinet shall have the provision to house the electricity meter and the redundant power supply system Control cabinet: This cabinet shall house the controllers for all the field components at that particular location e.g. ANPR, PTZ, Fixed cameras etc.	Enclosure with two separate cabinet for power and data.		
1304.	4.10 Field Devices-Civil and Electrical Works/535 (1)	Civil and Electrical Works	1. Kindly confirm on the scope for arrangement of HT grid feeder supply from different substation to CCC, DC, Near DR etc.	As per RFP (It is already at site, MSI has to survey it accordingly)	1. EFKON India Pvt. Ltd (1)
1305.	4.10 E. Civil and Electrical Works-i/536 (1)	The power connections (electrical meters) charges will be paid by MSI and the recurring power charges will be borne by the Delhi Police from Go-Live phase respective to each phase. Appointed MSI will coordinate the execution of connections with Electrical	1. We request Delhi Police/ CDAC to pay the electricity charges from the time of powering on of the field devices rather than from the GO-Live of the respective phases, since the time lag may be significant and shall lead to cost loading by the MSI.	As per RFP	1. Sterlite Technologies Limited (1)
1306.	4.10 Field Devices-A. Outdoor Fixed Camera/536 (4)	A. Outdoor Fixed Camera - 4MP	1. Request you to allow both the options of camera housing -box & bullet under Outdoor fixed camera (4MP) for the wider participations.	As per RFP (Point is self-explanatory)	1. Globalrays Technologies (1) 2. Triflex Solutions (1) 3. Bodhtree (1) 4. PruTech Solutions India Pvt. Ltd. (1)
1307.	4.10 Field Devices-A. Outdoor Fixed	General	1. In order to have healthy participation and to allow a level playing field to all Potential Indian Camera OEMs please	As per RFP	1. IDIS Securitem Solutiones Pvt. Ltd. (1)



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	Camera - 4MP/536 (1)		modify to Profile S/G. Also note that the only profile required for integrating between different OEMs of Cameras and VMS is Profile-S. Therefore kindly change to Profile SIG.		
1308.	4.10 Field Devices-A. Outdoor Fixed Camera - 4MP-2/536 (6)	2. Max Image Resolution: 2688 X 1520 or better	1. Please standardised the image resolution as 2560 X 1440 or better, for all 4MP Cameras. 2. Kindly amend it as 2560 X 1440 or better, which is mostly available with all reputed CCTV OEMs. Also requesting you to kindly modify the same in the POC/ATP requirement page. 3. Max Image Resolution: 2592 X 1520 or better Request you to please change the minimum resolution to 2592 x 1520 (4MP) as this is standard among the OEMs, also same has been asked by you in the RFP in PTZ camera section or make it 2592x1592/2688x1592 for wider participations. 4.Different Brands have different standard on 4MP, Request you change to 4MP, and allow different standard values. BECIL: Request you to ammend 4MP as 2560 X 1440 or better, for allowing other global OEMs to participate in the bid.	Kindly refer corrigendum	1. Telecommunications Consultants India Limited (1) 2. Sterling & Wilson Pvt.Ltd (2) 3. Globalrays Technologies (3) 4. Radius Infotech (P) LTD. (4) 5. Triflex Solutions Bodhtree(3) 6. PruTech Solutions India Pvt. Ltd.(3) 7. BECIL



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1309.	4.10 Field Devices-A. Outdoor Fixed Camera - 4MP-3/536 (3)	3. Lens : 2.8 to 12mm lens, Auto/DC/P-IRIS, or better varifocal	1. Kindly amend it as "2.8 - 12mm lens, Auto/Manual/DC/P-IRIS, or better Varifocal". Also requesting you to kindly modify the same in the POC/ATP requirement page. 2. Request to please Change 3.7 ~ 9.4mm (2.5x) motorized varifocal lens as each OEM has different set of lens and the change would not effect the functional requirement as the coverage angle and distance is approx equivalent. BECIL: Request you to ammend "2.8 to 12mm lens, Auto/DC/P-IRIS, or better varifocal" as 2.8 - 12mm lens, Auto/Manual/DC/P-IRIS, or better Varifocal; for allowing other global OEMs to participate in the bid.	Kindly Refer Corrigendum	1. Sterling & Wilson Pvt.Ltd (1) 2. Hanwha International India Pvt Ltd (2) 3. Elkosta Security Systems India (2) 4. BECIL
S. No.	Clause/Page (Total Queries)	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
1310.	4.10 Field Devices-A. Outdoor Fixed Camera - 4MP-6/536 (6)	6. Minimum Illumination / Light Sensitivity : Color: 0.01Lux @f/1.6 or better, B/W: 0.05Lux @f/1.6(IR on) or better	1. Kindly Allow for Color: 0.04Lux @f/1.6 or better, B/W: 0Lux @f/1.6(IR on) or better 2. Kindly amend it as Color: 0.05 Lux @ F1.6 or better, B/W: 0.01 Lux @ F1.6 or better. As because lower illumination required in B/W mode compared to Color. Also requesting you to kindly modify the same in the POC/ATP requirement page. 3. Please amend it as Color : 0.05 Lux @ F1.6 or better, B/W: 0.01 Lux @ F1.6 or better. This is because the values were wrongly put	Kindly refer corrigendum	4. Sterling&Wilson Pvt.Ltd (2) 5. TechMahindra (3) 6. Honeywell Automation India Ltd. (1) 7. Johnson Controls (3) 8. Radius Infotech (P) LTD. (4) 9. Tech Mahindra 10. Radius Infotech



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			in the sections of COLOUR & MONO/BW in view of half moon/full moon/quarter moon optics concept needing lower illumination required for MON or B/W and Colour illumination value should be more than that of MONO or Double. 4.0.01 lux illumination is normally for F number 1.2 (F1.2) and for F1.6 standard illumination is 0.02 Lux. Thus, requesting to please amend the clause as - Minimum Illumination / Light Sensitivity IR Filter: Color: 0.01Lux @f1.2 or better, B/W: 0.05Lux @f1.2 (IR on) or better. 5. Please amend it as Color : 0.05 Lux @ F1.6 or better, B/W: 0.01 Lux @ F1.6 or better. This is because the values were wrongly put in the sections of COLOUR & MONO/BW in view of half moon/full moon/quarter moon optics concept needing lower illumination required for MON or B/W and Colour illumination value should be more than that of MONO or Double. Radius Infotech 0.01 lux illumination is normally for F number 1.2 (F1.2) and for F1.6 standard illumination is 0.02 Lux. Thus, requesting to please amend the clause as - Minimum Illumination / Light Sensitivity IR Filter: Color: 0.01Lux		



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			@f1.2 or better, B/W: 0.05Lux @f1.2 (IR on) or better		
1311.	4.10 G. UPS for field devices - b/536 (1)	G. UPS for field devices: b) The UPS should be capable to provide 60 min. of power backup in field which will be placed inside the Junction Box with the set of batteries. c) A UPS of 1 KVA, 2 KVA load for every pole mounted and floor mounted Junction Box	1. For field equipment powering up, 1 kVA and 2 kVA UPS are mentioned with 60 mins of battery back of 4633 qty. Kindly provide the breakup of the 1 KVA and 2KVA UPS separate quantities for equal evaluation of the cost and better clarity to all bidders.	As per RFP	1. Sterlite Technologies Limited (1)
1312.	4.10 Field Devices-A. Outdoor Fixed Camera - 4MP- 10/537 (1)	10. Video Compression : H.264, H.265 (Dynamic group of pictures) or better	1. Kindly amend it as "H.264, H.265 (Dynamic group of Pictures / I-frames). As the I-frames are standard terminology used for similar functionality like Dynamic GOP. Also requesting you to kindly modify the same in the POC/ATP requirement page.	Kindly refer corrigendum	1. Sterlite Technologies Limited (1) 2. Wilson Pvt.Ltd (1)
1313.	4.10 Field Devices-A. Outdoor Fixed Camera - 4MP- 15/537 (1)	15. Image Settings : Colour, Brightness, Sharpness, Contrast, White balance, Backlight compensation, Image Mirroring, Text and image overlay, BLC/HLC/ AGC required	1. Kindly remove the Colour parameter as because Colour settings can be achieved by adjusting Brightness, Sharpness and Contrast. Also requesting you to kindly modify the same in the POC/ATP requirement page.	As per RFP (clause is self-explanatory)	1. Sterlite Technologies Limited (1) 2. Wilson Pvt.Ltd (1)
1314.	4.10 Field Devices-A. Outdoor Fixed Camera - 4MP- 16/537 (4)	16. Supported Protocol: HTTP, HTTPS/SSL/TLS, TCP, ICMP/RTSP, RTP, UDP, IGMP, RTCP, SMTP, FTP, DHCP, UPnP/ARP/DNS, SMTP, Ipv4, Ipv6.	1. Supported Protocol: HTTP, HTTPS/SSL/TLS, TCP, ICMP/RTSP, RTP, UDP, IGMP, RTCP, SMTP, FTP, DHCP, UPnP/ARP/DNS, SMTP, Ipv4, Ipv6.	Kindly refer corrigendum	1. Globalrays Technologies (1) 2. Bodhtree (1) 3. Triflex Solutions (1) 4. PruTech Solutions India Pvt. Ltd. (1)
1315.	4.10 Field Devices-A. Outdoor Fixed	18. ONVIF : Profile S, G / Profile S, G, T	1. Change/Amendment Requested : Profile S, G, T	As per RFP	1. RAH InfoTech (P) Ltd (1)



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	Camera - 4MP- 18/537 (5)		Justification: ONVIF is for compatibility across different OEMs, there are different profiles of ONVIF for different level of compatibility. ONVIF profiles S is initial level of compatibility which do not cover the compatibility in terms of SD card storage , since card is asked in the specifications the camera must be ONVIF profile G also to have compatibility in terms of SD card. ONVIF profile T provides integration with H.265 streams Kindly consider ONVIF profile S, G and T for deep level of integration across OEMs. 2.In order to have healthy participation and to allow a level playing field to all Potential Indian Camera OEMs please modify to Profile S/G. Also note that the only profile required for integrating between different OEMs of Cameras and VMS is Profile-S. Therefore kindly change to Profile S/G.		2. BHARAT ELECTRONICS LIMITED (2) 3. Gurusons Communications Pvt. Ltd. (1) 4. Impulse Networks (1)
1316.	4.10 Field Devices-A. Outdoor Fixed Camera - 4MP- 19/537 (4)	19. Operating Temp: -30 °C ~ 60 °C, Up to Humidity 90%	1.In order to have healthy participation and to allow a level playing field to all potential Indian camera OEMs please modify to -20C to +50C. 2.Considering the extreme ambient conditions of Delhi notice so far it should be relax Operating Temperature / Humidity: -40°C ~ +55°C(-40°F ~ +131°F) / Less than 90% RH The terpature	Kindly refer corrigendum	1. IDIS Securitem Solutions Pvt. Ltd. (1) 2. Hanwha International India Pvt Ltd (2) 3. BHARAT ELECTRONICS LIMITED (1) 4. Elkosta Security Systems India (2)
1317.	4.10 Field Devices-A. Outdoor Fixed Camera - 4MP-	20. HLC, BLC : Auto	1.Kindly amend this parameter as HLC / BLC, as the same HLC / BLC asked in the Image Settings parameter as per serial no 15.	Kindly refer corrigendum	1. Honeywell (2) 2. Sterling &Wilson Pvt.Ltd (1)



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	20/537 (1)		2.Kindly Allow for HLC/BLC BECIL Request you to ammend this parameter as HLC / BLC, for allowing other global OEMs to participate in the bid. HLC and BLC can not run simultaneously, hence we need to choose either option. WDR feature shall balance the different lighting conditions along with HLC/BLC.		3. Honeywell Automation India Ltd. (2) 4. BECIL
1318.	4.10 Field Devices-A. Outdoor Fixed Camera - 4MP- 22/537 (7)	22. Housing : IP 67 Rated IK 10 rated for outdoor use	1. • IP66 Enclosure - IP rated as "dust tight" and protected against heavy seas or powerful jets of water. • IP 67 Enclosures - IP rated as "dust tight" and protected against immersion. • Please share the need of IP67 certificate as cameras will be deployed on Poles and thus at a sufficient height where they don't have an application of being 'immersed in water'. Requesting you to amend the Clause as : IP66/IP67 rated, IK10 rated for outdoor use 2.Kindly amend it as IP66/67 rated and IK10 rated for outdoor use, as because the same will be available mostly all other reputed CCTV OEMs. Also requesting you to kindly modify the same in the POC/ATP requirement page. 3.Please ammend IP67 as IP66 in view of Delhi climatic conditions and the majority of global/leading OEMs having IP66 for 4MP or	Kindly Refer Corrigendum	1. Samriddhi Automations Pvt Ltd (SPARSH) (1) 2. Sterling Wilson Pvt.Ltd (2) 3. Telecommunications Consultants India Limited (3) 4. VOLKSARA TECHNO SOLUTIONS PRIVATE LIMITED (1) 5. Hanwha International 6. Elkosta Security Systems India 7. BECIL



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			higher resolution camera. It does not affect the performance of the cameras. Hanwha International Request to Kindly change the IP66, IK10, NEMA4X, NEMA-TS 2(2.2.8, 2.2.9). The IP 67 rating is used for under water installation upto 1 meter. IP 66 is sufficient for any outdoor weather condition and cameras with IP 66 rating is deployed in multiple outdoor projects which is working successfully . The change will help in healthy competition among the OEM's. Elkosta Security Systems India : Request to Kindly change the IP66, IK10, NEMA4X, NEMA-TS 2(2.2.8, 2.2.9). The IP 67 rating is used for under water installation upto 1 meter. IP 66 is sufficient for any outdoor weather condition and cameras with IP 66 rating is deployed in multiple outdoor projects which is working successfully . The change will help in healthy competition among the OEM's. BECIL: Request you to ammend " IP 67 Rated IK 10 rated for outdoor use" as IP66/67 rated and IK10 rated for outdoor use, for allowing other global OEMs to participate in the bid. Delhi knowing its		



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			not a coastal or tropical zone what shall require outdoor IP-67 rated product. IP 66 is what is required for environment condition like Delhi against dust and pollution. NEMA-4X if retained shall benefit specific OEM and will not confirm fair participation and equal opportunity to Global OEMs in environment conditions like Delhi. BECIL: Request you to ammend " IP 67 Rated IK 10 rated for outdoor use" as IP66/67 rated and IK10 rated for outdoor use, for allowing other global OEMs to participate in the bid. Delhi knowing its not a coastal or tropical zone what shall require outdoor IP-67 rated product. IP 66 is what is required for environment condition like Delhi against dust and pollution. NEMA-4X if retained shall benefit specific OEM and will not confirm fair participation and equal opportunity to Global OEMs in environment conditions like Delhi.		
1319.	4.10 Field Devices-A. Outdoor Fixed Camera - 4MP- 23/537 (1)	23. Certifications : CE, FCC, UL/cUL, BIS, NEMA 4X	1. • UL/cUL and NEMA-4X are foreign certifications. • BIS is an Indian equivalent certificate to UL/cUL and is covered as mandatory certification for CCTV cameras as per CRO. • IP66 is an Indian equivalent certificate to NEMA-4X and both are used for water and	Kindly refer corrigendum	1. Samriddhi Automations Pvt Ltd (SPARSH) (1) 2. IDIS Securitem Solutions Pvt. Ltd. (2) 3. Sterling Wilson Pvt.Ltd (3)



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			dust protection for outdoor environment. - Ministry of Finance had issued an Office Memorandum dated 12th May 2020 which emphasising the mandatory use of Indian Standards in Technical Specifications. ".....wherever Indian Technical specifications and Quality Certifications exist, the procuring entity should prescribe them" - Asking mandatory foreign certifications like UL/cUL and NEMA-X is a restrictive clause for Indian OEMs as per he clause no "10. Specifications in Tenders cluase e" on page no 7 of DPIIT Public Procurement (preference to Make-in -India) order 2017 dated 16th September, 2020. "Specific Foreign Certifications/unreasonable technical specifications /brands/models in the bid document is restrictive and discriminatory practise against local suppliers" Requesting you to amend the certification as: CE, FCC and UL/cUL/BIS, NEMA-4X/IP66 2.Tender specification requires IP66/67 protection but certification asked for NEMA 4X, please modify this to CE, FCC, LjL/cUL/BIS, NEMA 4%Å/IP66., Also note that the industry standard for weather protection of camrea is IP66/IP67 and IK10 for Vandal proofing. The NEMA 4X as protection criteria is used for products exposed in hazardous environment.		- RAH InfoTech (P) Ltd (4) - Globalrays Technologies (5) - BHARAT ELECTRONICS LIMITED (2,6) - Telecommunications Consultants India Limited (7) - Gurusons Communications Pvt. Ltd. (4) - VOLKSARA TECHNO SOLUTIONS PRIVATE LIMITED (1) - Impulse Networks (4) - Triflex Solutions (5) - Bodhtree (5) - PruTech Solutions India Pvt. Ltd. (5) - Triflex Solutions - BECIL



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			3.Kindly amend it as CE, FCC, UL/cUL and BIS, as because NEMA 4X is not required in the onsite requirment of Delhi ambient condition and also the proposed certifications will be available mostly all other reputed CCTV OEMs. Also requesting you to kindly modify the same in the POC/ATP requirement page. [3] 4.Change/Amendment Requested : CE, FCC, UL/cUL, BIS Justification : NEMA 4X is equivalent to IP66 , However IP67 is already is considered in the specifictions which is better tham NEMA 4X so kindly remove NEMA 4X 5.Certifications: CE, FCC, UL/cUL, BIS, NEMA 4X/IP66 NEMA 4X rating is equivalent to IP66 rating of the products so request you to allow IP66 certificate as an option with NEMA 4X for wider participation. https://www.siemon.com/en/home/support/compliance/nema-ratings-and-ip-equivalents 6.Kindly confirm whether camera should have UL certification in addition to BIS or only BIS is sufficient. 7.Please remove NEMA 4X as it shall be a brrier for major OEMs to participate and also NEMA-4X has no advantage or utility in Delhi environment. Its more dust & pollution and against which IP66 is more than sufficient.		



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			Triflex Solutions Please ask any 3 certificate's test reports out of CE, FCC, UL/cUL, BIS, NEMA 4X/IP67 certificates. Also NEMA 4X rating is equivalent to IP66 rating of the products so request you to allow both IP67 & NEMA-4X in options for wider participation. BECIL Request you to ammend "CE, FCC, UL/cUL, BIS, NEMA 4X" as CE, FCC, UL/cUL and BIS, for allowing other global OEMs to participate in the bid. NEMA 4X is not desired in environment condition like Delhi knowing its not a coastal or tropical zone what shall require outdoor NEMA-4X rated product. IP 66 is what is required for environment condition like Delhi against dust and pollution. NEMA-4X if retained shall benefit specific OEM and will not confirm fair participation and equal opportunity to Global OEMs in environment conditions like Delhi. BECIL: Request you to ammend "CE, FCC, UL/cUL, BIS, NEMA 4X" as CE, FCC, UL/cUL and BIS, for allowing other global OEMs to participate in the bid. NEMA 4X is not desired in environment		



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			condition like Delhi knowing its not a coastal or tropical zone what shall require outdoor NEMA-4X rated product. IP 66 is what is required for environment condition like Delhi against dust and pollution. NEMA-4X if retained shall benefit specific OEM and will not confirm fair participation and equal opportunity to Global OEMs in environment conditions like Delhi.		
1320.	4.10 Field Devices-A. Outdoor Fixed Camera - 4MP- 24/537 (2)	24. Power Requirement : PoE+	1.Kindly amend it as 12 VDC, PoE / PoE+ supported. Multiple type of Power Supply will provide redundancy on the same, hence if one power supply get failed then the Camera can draw the power from other type power supply unit subject to having power connectivity on both. 2.Please amend for better as 12 VDC, PoE / PoE+ supported.	As per RFP	1. Sterling & Wilson Pvt.Ltd (1) 2. Telecommunications Consultants India Limited (2)
1321.	4.10 Field Devices-A. Outdoor Fixed Camera - 4MP- 26/537 (10)	26. EMI EMC: Surge test (Level 4) as per IEC:61000-4- 5(Level 4)	1.Please remove this clause 2.Change/Amendment Requested : Surge protection inbuilt or external to the camera Justification : Surge protection is the primary requirement hence kindly consider inbuilt or external surge protection for EMI EMC , asking for Surge test (Level 4) as per IEC:61000-4- 5(Level 4) shall limit the competition. 3.Since IP66/NEMA 4X are almost similar type of certifications and most of the OEMs	Kindly refer corrigendum	1. Honeywell Automation India Ltd. (1) 2. RAH InfoTech (P) Ltd (2) 3. Johnson Controls (3) 4. Larsen & Toubro Ltd (4,5) 5. Radius Infotech (P) LTD. (6) 6. Gurusons Communications Pvt. Ltd. (2) 7. Impulse Networks (2)



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			either have IP66 or NEMA 4x, therefore kindly amend it as: Certifications: CE, FCC, UL/cUL, BIS, IP66/NEMA 4X 4.Kindly amend it as: Camera should have surge protection 5.Kindly clarify the Surge protection inbuilt or external to the camera 6.Surge Test (Level 4) is basically supported by PTZ cameras. Thus, request you to please delete this Clause for Bullet / Box Cameras		
1322.	4.10 Field Devices-A. Outdoor Fixed Camera - 4MP- 28/537 (4)	28. MTBF : Min 100000 Hours or better	1.Kindly amend it as 70000 Hours or better. As because, by achieving 70000 Hours MTBF in the Camera, the Camera will sustain 8 years. And also the Contract period asked in the tender as 8 years (Warranty - 5 Years and O&M - 3 Years) only, hence MTBF 70000 Hours will be sufficient and get fitted with the tender requirement. Also requesting you to kindly modify the same in the POC/ATP requirement page. 2.Please standardised the MTBF as 80000 Hours or better. 3. Please amend it as 70000 Hours or better. Since RFP is specific to the requirement of 8 years' of OEM Contract Period covering Warranty + AMC can be met by (365 days per year X 24hours per day X 8 Years of Contract Period = 70080 HOURS). Adding	Kindly refer corrigendum	1. Sterling Wilson Pvt.Ltd (1) 2. Telecommunications Consultants India Limited (2) 3. Tech Mahindra (3) 4. Johnson Controls (3)



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			20000 more hours dont justify RFP requirement rather than only to benefit a specific OEM. In view of the Technical justification inline with RFP SLA & OEM Contract Period, request you to ammend the MTBF to 70000 HOURS or BETTER.		
1323.	4.10 Field Devices-A. Outdoor Fixed Camera - 4MP- 9/537 (5)	9. Shutter Speed: Auto/Manual, 1/3 - 1/30000s or better	1.In order to have healthy participation and to allow a level playing field to all potential Indian camera OEMs please modify to Change to 1~1/10000 for wider participation as it is restrictive 2.Request to kindly change with Minimum / Maximum / Anti flicker (2~1/12,000sec) as not available with major OEM's . This will not cause any change in functional requirement. 3.Kindly amend the Specification " Shutte Speed: Auto /Manual, 1s ~ 1/10000 Sec or better	Kindly refer corrigendum	1. IDIS Securitem Solutiones Pvt. Ltd. (1) 2. Hanwha International India Pvt Ltd (2) 3. Larsen & Toubro Ltd (3) 4. BHARAT ELECTRONICS LIMITED (1) 5. Elkosta Security Systems India (2)
1324.	4.10 Field Devices-B. Outdoor PTZ Camera - 4MP- 12/538 (1)	B.12. Tilt Travel : 0 to 90°, auto flip 180°	1. Kindly amend it as "-10° to 90° with auto flip supported (90°/180°)", which will give better tilt coverage as above horizon and supported by all other reputed CCTV OEMs.	Kindly refer corrigendum	1. Sterling Wilson Pvt.Ltd (1)
1325.	4.10 Field Devices-B. Outdoor PTZ Camera - 4MP- 2/538 (1)	2. Number of pixels : 2592 × 1520 (4MP)	1.Different Brands have different standard on 4MP, Request you change to 4MP, and allow different standard values.	As per RFP	1. Radius Infotech (P) LTD. (1)



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1326.	4.10 Field Devices-B. Outdoor PTZ Camera - 4MP-23/538 (2)	Auto / Manual /ATW/Indoor/Outdoor/Day light lamp/Sodium lamp	1.Kindly allow for Auto / Fixed Current / Manual	As per RFP	1. Honeywell (1) 2. Honeywell Automation India Ltd. (1)
1327.	4.10 Field Devices-B. Outdoor PTZ Camera - 4MP-5/538 (3)	B.5. Minimum Illumination / Light Sensitivity : Color: 0.01 lux @f1.6 or better B/W: 0.05 lux (with IR on) @f1.6 or better	1.Kindly amend it as Color : 0.05 Lux @ F1.6 or better, B/W: 0.01 Lux @ F1.6 or better. As because lower illumination required in B/W mode compared to Color. Also requesting you to kindly modify the same in the POC/ATP requirement page. 2.Please amend it as Color : 0.05 Lux @ F1.6 or better, B/W: 0.01 Lux @ F1.6 or better. This is because the values were wrongly put in the sections of COLOUR & MONO/BW in view of half moon/full moon/quarter moon optics concept needing lower illumination required for MON or B/W and Colour illumination value should be more than that of MONO or Double. 3.The cameras Day & Night operation. the automatic switching will change the picture from color to B&W which is 0 lux with IR on. Therefore please modify to standard 0.1 lux for color and 0 lux for with IR on. 4.Kindly allow for Color: 0.04 lux @f1.6 or better B/W: 0.0 lux (with IR on) @f1.6 or better The cameras are Day & Night operation, the automatic switching will change the picture from color to B&W which is 0 lux with IR on.	Kindly refer corrigendum	1. Sterling & Wilson Pvt.Ltd (1) 2. Tech Mahindra (2) 3. IDIS Securitem Solutiones Pvt. Ltd. (3) 4. Honeywell (4) 5. Honeywell Automation India Limited (4) 6. BHARAT ELECTRONICS LIMITED (3) 7. Honeywel 8. INTEC INFONET 9. TCIL



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			Therefore please modify to standard 0.1 lux for color and 0 lux for B&W with IR On. Kindly allow for Color: 0.04 lux @f1.6 or better B/W: 0.0 lux (with IR on) @f1.6 or better Request you to consider clause to amend Minimum Illumination: Color 0.10 Lux @ f1.6 /B/W :0.01 lux @F/16 or better TCIL: Request you to consider clause to amend Minimum Illumination: Color 0.10 Lux @ f1.6 /B/W :0.01 lux @F/16 or better Justification -Request you to consider to amend clause , it will not impact on functional requirement of systems.		
1328.	4.10 Field Devices-B. Outdoor PTZ Camera - 4MP-7/538 (2)	4.5 mm – 135 mm or 4.3 mm - 129 mm or 4.8 mm - 144 mm or 6mm - 180 mm	1. Allow for 4.94mm ~ 148.24mm,	As Per RFP	1. Honeywell (1) 2. Honeywell Automation India Ltd. (1)
1329.	4.10 Field Devices-B. Outdoor PTZ Camera - 4MP-8/538 (5)	8. Max Aperture: F1.6 – F5.0	1. Standard Aperture for PTZ camera is F1.5 to F4.5. Thus, requesting to please amend the Clause as - Max Aperture: F1.6 – F4.5 2. Max Aperture: F1.5 – F5.0 (Any range between the specified range is allowed) Request you to allow a aperture range as every OEM have their own design to get the same image output.	Kindly refer corrigendum	1. Radius Infotech (P) LTD. (1) 2. Globalrays Technologies (2) 3. Triflex Solutions (2) 4. Bodhtree (2) 5. PruTech Solutions India Pvt. Ltd. (2)



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1330.	4.10 Field Devices-B. Outdoor PTZ Camera - 4MP- 25/539 (4)	25. Protocols: IPv4/IPV6, HTTP, HTTPS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP	1. Protocols: IPv4, IPV6, HTTP, HTTPS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP Request you to keep both IPv4 IPv6 mandatory to consider the Future integration.	Kindly refer corrigendum	1. Triflex Solutions (1) 2. Globalrays Technologies (1) 3. Bodhtree (1) 4. PruTech Solutions India Pvt. Ltd. (1)
1331.	4.10 Field Devices-B. Outdoor PTZ Camera - 4MP- 28/539 (2)	24 VAC, 3 A ($\pm 10\%$), PoE+ (802.3at)/POE+	1. Kindly allow 24 VAC (50 / 60 Hz), POE/POE+/UPOE/HPOE Change/Amendment Requested : CE, FCC, UL/cUL, BIS	As Per RFP	1. Honeywell (1) 2. RAH InfoTech (P) Ltd (1) 3. Gurusons Communications Pvt. Ltd. (1) 4. Honeywell Automation India Ltd. (1) 5. Impulse Networks (1)
1332.	4.10 Field Devices-B. Outdoor PTZ Camera - 4MP- 31/539 (1)	ONVIF Profile S & G/S,G,T	1. Change/Amendment Requested : Profile S, G,T Justification: ONVIF is for compatibility across different OEMs , there are different profiles of ONVIF for different level of compatibility . ONVIF profiles S is initial level of compatibility which do not cover the combability in terms of SD card storage , since card is asked in the specifications the camera must be ONVIF profile G also to have compatibility in terms of SD card. ONVIF profile T provides integration with H.265 streams Kindly consider ONVIF profile S , G and T for deep level of integration across OEMs. 2. In order to have healthy participation and to allow a level playing field to all Potential Indian Camera OEMs please modify to	As per RFP	1. Impulse Networks IDIS Securitatem Solutiones Pvt. Ltd. (1) 2. BHARAT ELECTRONICS LIMITED (2) 3. RAH InfoTech (P) Ltd (1) 4. Gurusons Communications Pvt. Ltd. (1)



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			Profile S/G. Also note that the only profile required for integrating between different OEMs of Cameras and VMS is Profile-S. Therefore kindly change to Profile S/G.		
1333.	4.10 Field Devices-B. Outdoor PTZ Camera - 4MP-32/539 (1)	32. Certification: CE, FCC, UL/cUL, BIS, NEMA 4X	1.Certifications: CE, FCC, UL/cUL, BIS, NEMA 4X/IP66 NEMA 4X rating is equivalent to IP66 rating of the products so request you to allow IP66 certificate as an option with NEMA 4X for wider participation. https://www.siemon.com/en/home/support/compliance/nema-ratings-and-ip-equivalents 2.UL/cUL and NEMA-4X are foreign certifications. • BIS is an Indian equivalent certificate to UL/cUL and is covered as mandatory certification for CCTV cameras as per CRO.IP66 is an Indian equivalent certificate to NEMA-4X and both are used for water and dust protection for outdoor environment. • Ministry of Finance had issued an Office Memorandum dated 12th May 2020 which emphasising the mandatory use of Indian Standards in Technical Specifications. "Whereever Indian Technical specifications and Quality Certifications exist; the procuring entity should prescribe them" Asking mandatory foreign certifications like UL/cUL and NEMA-X is a restrictive clause for Indian OEMs as per he clause no "10. Specifications in Tenders clause e" on page no 7 of DPIIT Public Procurement (preference to Make-in -India)	Kindly refer corrigendum	1. Triflex Solutions (1) 2. Samriddhi Automations Pvt Ltd (SPARSH) (2) 3. IDIS Securitem Solutions Pvt. Ltd. (3) 4. Globalrays Technologies (1) 5. BHARAT ELECTRONICS LIMITED (3) 6. VOLKSARA TECHNO SOLUTIONS PRIVATE LIMITED (1) 7. Bodhtree (1) 8. PruTech Solutions India Pvt. Ltd. (1) 9. Radius Infotech (P) LTD. (4)



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			order 2017 dated 16th September, 2020."Specific Foreign Certifications/unreasonable technical specifications /brands/models in the bid document is restrictive and discriminatory practise against local suppliers" Requesting you to amend the certification as: CE, FCC and UL/cUL/BIS, NEMA-4X/IP66 3.Tender specification requires IP66/67 protection but certification asked for NEMA 4X, please modify this to CE, FCC, UL/cUL/BIS, NEMA 4x/lp66., Also note that the industry standard for weather protection Of camrea is IP66/IP67 and IK10 for Vandal proofing. The NEMA 4X as protection criteria is used for products exposed in hazardous environment. 4. NEMA 4X is used primarily to provide a degree of protection against corrosion. For other protection like protection against dust and rain, splashing water etc. is supported by IP67 as well. NEMA 4X certification is supported by anticorrosion cameras which will indirectly increse the cost of overall solution. NEMA 4X and IP67 are usually in options.		
1334.	4.10 Field Devices-B. Outdoor PTZ Camera - 4MP-34/539 (4)	EMI EMC : Surge test (Level 4) as per IEC:61000-4-5(Level 4)	1.Change/Amendment Requested : Surge protection inbuilt or external to the camera Justification : Surge protection is the primary requirement hence kindly consider inbuilt or external surge protection for EMI EMC , asking for Surge test (Level 4) as per	Kindly refer corrigendum	1. Impulse Networks (1) 2. Lookman Electroplast Industries Ltd (2) 3. Honeywell (3) 4. RAH InfoTech (P) Ltd (1)



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			IEC:61000-4- 5(Level 4) shall limit the competition. 2.IEC is the governing body, we request to please allow equivalent Indian, European (EN 61000) or ISO 61000 etc, which follows the IEC guidelines for certification of surge protection. 3.Please remove this clause		5. Gurusons Communications Pvt. Ltd. (1)
1335.	4.10 Field Devices-B. Outdoor PTZ Camera - 4MP- 35/539 (2)	35. Housing IP 67 Rated IK 10 rated for outdoor use	1.IP66 Enclosure - IP rated as "dust tight" and protected against heavy seas or powerful jets of water. IP 67 Enclosures - IP rated as "dust tight" and protected against immersion. • Please share the need of IP67 certificate as cameras will be deployed on Poles and thus at a sufficient height where they don't have an application of being 'immersed in water'.Requesting you to amend the Clause as : IP66/IP67 rated, IK10 rated for outdoor use 2.Kindly allow for IP66 & IK10 for maximum participation 3.Requesting you to kindly amend it as IP66/IP67 with IK10, so that it will be supported by all the reputed CCTV OEMs. Also requesting you to kindly modify the same in the POC/ATP requirement page. In order to have healthy participation and to allow a level playing field to all Potential Indian Camera OEMs please modify to IP66/IP67 and IK10.	Kindly refer corrigendum	1. Samriddhi Automations Pvt Ltd (SPARSH) (1) 2. VOLKSARA TECHNO SOLUTIONS PRIVATE LIMITED (2) 3. Honeywell (2) 4. Sterling & Wilson Pvt.Ltd (3) 5. Matrix Security And Surveillance Pvt Ltd 6. Bharat Electronics Limited 7. Honeywel



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			Kindly allow for IP66 & IK10 for maximum participation		
1336.	4.10 Field Devices-B. Outdoor PTZ Camera - 4MP- 37/539 (1)	B.37. HLC, BLC : Auto BECIL: Request you to ammend this parameter as HLC / BLC, for allowing other global OEMs to participate in the bid. HLC and BLC can not run simultaneously, hence we need to choose either option. WDR feature shall balance the different lighting conditions along with HLC/BLC.	1.Kindly amend this parameter as HLC / BLC : Auto, as HLC / BLC asked in the Image Settings Parameter as per tender.	Kindly refer corrigendum	1. Sterling Wilson Pvt.Ltd (1) 2. BECIL
1337.	4.10 Field Devices-B. Outdoor PTZ Camera - 4MP- 38/539 (2)	B.38. MTBF : Minimum 80000 Hours or better	1.Kindly allow for Min 50000 Hours or better 2.Kindly amend it as 70000 Hours or better. As because, by achieving 70000 Hours MTBF in the Camera, the Camera will sustain 8 years. And also the Contract period asked in the tender as 8 years (Warranty - 5 Years and O&M - 3 Years) only, hence MTBF 70000 Hours will be sufficient and get fitted with the tender requirement. Also requesting you to kindly modify the same in the POC/ATP requirement page.	As per RFP	1. Honeywell (1) 2. Sterling Wilson Pvt.Ltd (2) 3. Honeywell Automation India Ltd. (1) 4. Tech Mahindra (3)



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			3.Please amend it as 70000 Hours or better. Since RFP is specific to the requirement of 8 years' of OEM Contract Period covering Warranty + AMC can be met by (365 days per year X 24hours per day X 8 Years of Contract Period = 70080 HOURS). Adding 20000 more hours dont justify RFP requirement rather than only to benefit a specific OEM. In view of the Technical justification inline with RFP SLA & OEM Contract Period, request you to ammend the MTBF to 70000 HOURS or BETTER. 4. Please amend it as 70000 Hours or better. Since RFP is specific to the requirement of 8 years' of OEM Contract Period covering Warranty + AMC can be met by (365 days per year X 24hours per day X 8 Years of Contract Period = 70080 HOURS). Adding 20000 more hours dont justify RFP requirement rather than only to benefit a specific OEM. In view of the Technical justification inline with RFP SLA & OEM Contract Period, request you to ammend the MTBF to 70000 HOURS or BETTER.		
1338.	4.10 Field Devices-C. Outdoor Fixed ANPR with IR Illuminator- 2MP- 13/540 (10)	13. Minimum illumination: Color: 0.001Lux @f/1.6 B/W: 0.001Lux @f/1.6 Or better	1.Kindly allow for 0.06 Lux / 0Lux (@F1.9, IR on) 2.The cameras are Day & Night operation. the automatic switching will change the picture from color to B&W which is 0 lux with IR on. Therefore please modify to standard 0.1 lux for coor and 0 lux for B&W with IR On 3.Kindly amend it as Color : 0.005 Lux @	Kindly refer corrigendum	1. Honeywell (1) 2. IDIS Securitem Solutiones Pvt. Ltd. (2) 3. Sterling Wilson Pvt.Ltd (3) 4. RAH InfoTech (P) Ltd (4) 5. Tech Mahindra(6)



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			F1.6 or better, B/W: 0.001 Lux @ F1.6 or better. As because lower illumination required in B/W mode compared to Color. Also requesting you to kindly modify the same in the POC/ATP requirement page. Also requesting you to kindly modify the same in the POC/ATP requirement page. 4.Change/Amendment Requested : Color: 0.01Lux @f/1.6 , B/W: 0.001Lux @f/1.6 Or better with IR Justification : 0.001 lux is the starlight illumination however for ANPPR camera , starlight illumination is not required as number plate capture is the only purpose of camera for which IR becomes operational during low light for efficiently capturing the number plate . 5.Please amend it as Color : 0.005 Lux @ F1.6 or better, B/W: 0.001 Lux @ F1.6 or better. AThis is because the values were wrongly put in the sections of COLOUR & MONO/BW in view of half moon/full moon/quarter moon optics concept needing lower illumination required for MON or B/W and Colour illumination value should be more than that of MONO or Double. 6.Requesting you to please consider options in F number i.e. F1.2 or F1.6 and standard lux level of 0.002 lux. Thus, requesting you to please amend the clause as - Color: 0.002 Lux @ (F1.6 / F1.2,		6. Radius Infotech (P) LTD. (5) 7. Honeywell Automation India Ltd. (7) 8. Gurusons Communications Pvt. Ltd. (8) 9. BHARAT ELECTRONICS LIMITED(2) 10. Impulse Networks(8)



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			AGC ON), 0.0005 Lux @ (F1.6 / F1.2 with IR. 7. Kindly allow for 0.06 Lux / 0Lux (@F1.9, IR on) 8. Change/Amendment Requested : Color: 0.01Lux @f/1.6 , B/W: 0.001Lux @f/1.6 Or better with IR Justification : 0.001 lux is the starlight illumination however for ANPPR camera , starlight illumination is not required as number plate capture is the only purpose of camera for which IR becomes operational during low light for efficiently capturing the number plate .		
1339.	4.10 Field Devices-C. Outdoor Fixed ANPR with IR Illuminator- 2MP- 15/540 (2)	IR distance- 80 Mtr. Or better; Inbuilt or External IR	1.80 M inbuilt IR is specific to Single OEM , Kindly allow for Inbuilt 60 m for Maximum Participation	Kindly refer corrigendum	1. Honeywell (1) 2. Honeywell Automation India Ltd. (1)
1340.	4.10 Field Devices-C. Outdoor Fixed ANPR with IR Illuminator- 2MP- 16/540 (4)	Shutter Speed: Auto /Manual, 1/3 s ~ 1/30000 Sec	1.Request to kindly change with Minimum / Maximum / Anti flicker (2~1/12,000sec) as not available with major OEM's . This will not cause any change in functional requirement 2.Kindly amend the Specification " Shutte Speed: Auto /Manual, 1s ~ 1/10000 Sec or better 3.In order to have healthy participation and to allow a level playing field to all potential Indian camera OEMs please modify to	Kindly refer corrigendum	1. Hanwha International India Pvt Ltd (1) 2. Larsen & Toubro Ltd (2) 3. BHARAT ELECTRONICS LIMITED (3) 4. Elkosta Security Systems India (1)



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			Change to 1~1/10000 for wider participation as it is restrictive		
1341.	4.10 Field Devices-C. Outdoor Fixed ANPR with IR Illuminator- 2MP- 20/540 (1)	20. Streaming Method : Unicast, Multicast, Broadcast support along with multi stream support	1.Broadcasting belongs to all . while unicast and multicast is quit secured over broadcasting. only authorized person should get stream with proper credentials. this Surveillance asset belongs to delhi police administartion for security and management reasons only. Thus request you kindly remove braodcasting streaming.	Kindly refer corrigendum	1. Radius Infotech (P) LTD. (1)
1342.	4.10 Field Devices-C. Outdoor Fixed ANPR with IR Illuminator- 2MP- 22/540 (6)	22. Image Settings: Colour, Anti-glare Brightness, Sharpness, Contrast, White balance, Backlight compensation, Image Mirroring, Text and image overlay, HLC, 3D DNR, Defog, EIS, ROI, AGC, bmp format,	1.Kindly remove the Colour parameter as because Colour settings can be achieved by adjusting Brightness, Sharpness and Contrast and remove Antiglare as the similar functionality can be better achieved with WDR as already mentioned in the Camera Specification as per tender. Also requesting you to kindly modify the same in the POC/ATP requirement page. 2. Image Settings: Colour, Anti-glare Brightness, Sharpness, Contrast, White balance, Backlight compensation, Image Mirroring, Text and image overlay, HLC, 3D DNR, Defog, EIS, ROI, AGC, bmp/jpg format, Request you to remove EIS as this is applicable only for the cameras which is having Pan & Tilt functionality. Also please allow jpg format also in option with bmp for wider participations. 3.Since .jpg takes lessar bandwidth than bmp and has better quality therefore Kindly amend it as: Image Settings: Colour, Sharpness,	Kindly refer corrigendum	1. Sterling Wilson Pvt.Ltd (1) 2. Globalrays Technologies (2) 3. Johnson Controls (3) 4. Radius Infotech (P) LTD. (4) 5. Triflex Solutions (2) 6. Bodhtree (2) 7. PruTech Solutions India Pvt. Ltd. (2) 8. Honeywell (5) 9. Honeywell Automation India Ltd. (5)



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			Contrast, White balance, Backlight compensation, Image Mirroring, Text and image overlay, HLC, 3D DNR, EIS, ROI, AGC, jpg/bmp format. 4 bmp format is supported by some Specific OEM. Thus, requesting you to please delete bmp format and amend the clause as - Image Settings: Colour, Anti-glare Brightness, Sharpness, Contrast, White balance. 5.Please remove EIS		
1343.	4.10 Field Devices-C. Outdoor Fixed ANPR with IR Illuminator- 2MP- 23/540 (1)	23. Supported Protocol: HTTP, HTTPS/SSL/TLS, TCP, ICMP/RTSP, EAP-TLS, EAP-MD5, RTP, UDP, IGMP, RTCP, SMTP, FTP, DHCP, UPnP/ARP/DNS/ DynDNS, SMTP, Ipv4/Ipv6.	1.Please remove Dyndns , BLC EAP-MDS 2. Supported Protocol: HTTP, HTTPS/SSL/TLS, TCP, ICMP/RTSP, EAP-TLS/EAP-MD5, RTP, UDP, IGMP, RTCP, SMTP, FTP, DHCP, UPnP/ARP/DNS/DynDNS, SMTP, Ipv4, Ipv6. Request you to keep both IPv4 & IPv6 mandatory to consider the future integrations. Also allow EAP-TLS & EAP-MD5 is in option so that maximum OEMs can participate. 3.Kindly amed it as: Supported Protocol : HTTP, HTTPS/SSL/TLS, TCP, ICMP/RTSP, TLS, RTP, UDP, IGMP, RTCP, SMTP, FTP, DHCP, UPnP/ARP/DNS/ DynDNS, SMTP, Ipv4/Ipv6. 4.EAP-TLS, EAP-MD5 protocols are bacially	Kindly refer corrigendum	1. Honeywell (1) 2. Globalrays Technologies (2) 3. Johnson Controls (3) 4. Radius Infotech (P) LTD. (4) 5. Honeywell Automation India Ltd. (1) 6. Triflex Solutions (2) 7. Bodhtree (2) 8. PruTech Solutions India Pvt. Ltd. (2)



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			not required for this application. This protocols are supported by specific OEM. Thus, requesting to please delete the EAP-TLS, EAP-MD5 protocols and amend the clause as - Supported Protocol: HTTP, HTTPS/SSL/TLS, TCP, ICMP/RTSP, RTP, UDP, IGMP, RTCP, SMTP, FTP, DHCP, UPnP/ARP/DNS/ DynDNS, SMTP, Ipv4/Ipv6.		
1344.	4.10 Field Devices-C. Outdoor Fixed ANPR with IR Illuminator- 2MP- 7/540 (4)	7. Cameras should be able to detect Number plates of Vehicle upto 120 Kmph without any distortion in image.	1.As asked frame rate support in camera is 25/30FPS and with 30FPS camera it is not possible to detect the number plates at speed of 120 Kmph, please clarify on this. Also the detection of number plates & speed will be done by camera+software together, hope our understanding on this is clear, please confirm.	Kindly refer corrigendum	1. Globalrays Technologies (1) 2. Bodhtree (1) 3. Triflex Solutions (1) 4. PruTech Solutions India Pvt. Ltd. (1)
1345.	4.10 Field Devices-C. Outdoor Fixed ANPR with IR Illuminator- 2MP- 8/540 (2)	1/2" Progressive Scan CMOS Sensor 2.0 megapixel or better CMOS.	1.Sensor size is OEM specific , Please allow for 1/2.8" Progressive Scan CMOS Sensor 2.0 megapixel or better CMOS. 2.Change/Amendment Requested: 1/2.8" Progressive Scan CMOS Sensor 2.0 megapixel or better CMOS. Justification: Sensor size 1/2.8" is standard for 2MP camera across the industry , so kindly consider the 1/2.8" CMOS sensor size. 3. Image sensor: 1/2.8" Progressive Scan CMOS Sensor 2.0 megapixel or better CMOS. Request you to change the image sensor to 1/2.8" as per the standard among the OEMs for the ANPR cameras. 4. As most of the smart/safe city	Kindly refer corrigendum	1. Honeywell (1) 2. RAH InfoTech (P) Ltd (2) 3. Globalrays Technologies (3) 4. BHARAT ELECTRONICS LIMITED (4) 5. Larsen & Toubro Ltd (5) 6. Radius Infotech (P) LTD. (6) 7. Honeywell Automation India Ltd. (1) 8. Gurusons Communications Pvt. Ltd. (2) 9. Impulse Networks (2) 10. Triflex Solutions (3) 11. Bodhtree (3)



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			surveillance, they asked for 1/2.8" or 1/3" image sensor. For a healthy competition we request you to change it as: Image sensor : 1/2.8" Progressive Scan CMOS Sensor 2.0 megapixel or better CMOS. 5.Image Sensor:1/2.8" Progressive Scan CMOS Sensor 2.0 megapixel or better CMOS. 6.1/2" Progressive scan CMOS un-identical Size in most of brands in the market. It may or may not belongs to particular brand .Thus request you kindly amend it like 1/2-1/3"or better. So other brand can participate easily.		12. PruTech Solutions India Pvt. Ltd. (3) 13. Johnson Controls (4)
1346.	4.10 Field Devices-C. Outdoor Fixed ANPR with IR Illuminator-2MP-10 /540 (1)	10. Lens: C/CS or inbuilt with 5- 50 mm or better	1.ANPR camera works in a fixed field of view (FOV) environment to capture license number plate,hence vari focal lense is add to cost and fixed lens shall better work to achieve the desired accuracy rate. So, Kindly amend the clause to: "Fixed lens as per OEM standard to achieve the accuracy rate as asked in RFP". 2.Please help to confirm for ANPR application, Software/Server based solution is preferred for ANPR i.e. ANPR analytic system or need features in Edge based as well. As Software/Server based analytics are preferred than we can	As per RFP	1. Lookman Electroplast Industries Ltd (1) 2. Radius Infotech (P) LTD. (2)



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			propose Normal cameras and overall cost of the solution will be reduced.		
1347.	4.10 Field Devices-C. Outdoor Fixed ANPR with IR Illuminator-2MP- 25/541 (1)	ONVIF Profile S & G/S,G. T	1.Change/Amendment Requested : Profile S, G, T Justification : ONVIF is for compatibility across different OEMs , there are different profiles of ONVIF for different level of compatibility . ONVIF profiles S is initial level of compatibility which do not cover the combability in terms of SD card storage , since card is asked in the specifications the camera must be ONVIF profile G also to have compatibility in terms of SD card. ONVIF profile T provides integration with H.265 streams Kindly consider ONVIF profile S , G and T for deep level of integration across OEMs. 2.In order to have healthy participation and to allow a level playing field to all Potential Indian Camera OEMs please modify to Profile S/G. Also note that the only profile required for integrating between different OEMs of Cameras and VMS is Profile-S. Therefore kindly change to Profile S/G.	As Per RFP	1. IDIS Securitem Solutiones Pvt. Ltd. (1) 2. BHARAT ELECTRONICS LIMITED (2)
1348.	4.10 Field Devices-C. Outdoor Fixed ANPR with IR Illuminator-2MP- 26/541 (1)	-30 cc 60 •C, Up to Humidity 90%	1.In order to have healthy participation and to allow a level playing field to all potential Indian camera OEMs please modify to -20C to +50C. 2.Considering the extreme ambient conditions of Delhi notice so far it should be relax Operating Temperature /	Kindly refer corrigendum	1. IDIS Securitem Solutiones Pvt. Ltd. (1) 2. BHARAT ELECTRONICS LIMITED (1) 3. Hanwha International India Pvt Ltd (2) 4. Elkosta Security Systems India (2)



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			Humidity: -10°C~+55°C (-14°F~+131°F) / Less than 90% RH		
1349.	4.10 Field Devices-C. Outdoor Fixed ANPR with IR Illuminator-2MP- 27/541 (1)	C.27. HLC, BLC : Auto	1. Kindly amend this parameter as HLC / BLC : Auto, as HLC and BLC can not run simultaneously, hence we need to choose either option. Moreover, here WDR feature will be more beneficial compared to HLC as asked in the tender to bring balanced clarity to both light and dark parts of an Image. Also requesting you to kindly modify the same in the POC/ATP requirement page.	Kindly refer corrigendum	1. Sterling Wilson Pvt.Ltd (1)
1350.	4.10 Field Devices-C. Outdoor Fixed ANPR with IR Illuminator-2MP- 28/541 (2)	IR 80 meters to be considered Internal or external or better	1. 80 M inbuilt IR is specific to Single OEM , Kindly allow for Inbuilt 60 m for Maximum Participation	Kindly refer corrigendum	1. Honeywell (1) 2. Honeywell Automation India Ltd. (1)
1351.	4.10 Field Devices-C. Outdoor Fixed ANPR with IR Illuminator-2MP- 29/541 (2)	29. Input / Output Min 2/2 or better	1.Input / Output: Min 2/1 or better Request you to change it to 2/1 (In/ Out) as this is the standards among the OEMs. 2.Change/Amendment Requested : Min 1/1 or better Justification : Physical alarm input or output is nevetr used with the ANPR cameras , however in extreme camer 1inut and 1 output is more than sufficient. 3.Kindly allow for '2/1 alarms 4.Please share the application purpose of 2 Input and 2 Output ports. As per BOQ all field equipment's are being directlty connected with Field Switches and	Kindly refer corrigendum	1. Gurusons Communications Pvt. Ltd. (2) 2. PruTech Solutions India Pvt. Ltd. (1) 3. RAH InfoTech (P) Ltd (2) 4. Honeywell (3) 5. Samriddhi Automations Pvt Ltd (SPARSH) (4) 6. Globalrays Technologies (1) 7. Honeywell Automation India Ltd. (3) 8. Hanwha International India Pvt Ltd (5)



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			all required alarms are integrated on Internet Protocol with VMS and CCC. • 1/1 Alarm In/Out is available as standard in cameras and also available with most of the OEMs. • 2 Alarm Input/Output is specific to few OEMs and will also increase the product cost. Requesting you to amend the Clause as : Input/Output Min 1/1/ or better 5.Request to kindly change with Input 1ea / Output 1ea as not available with major OEM's . This will not cause any change in functional requirement 6.We request you to kindly modify this specification as per industry standards to "Input / Output: Min 1/1 or better" , to accommodate more OEMs and increase competition 7.Most of the cameras have 2input 1 output therefore kindly amend it as: Input / Output:Min 2/1 or better 8. input & 1 output is widely used in all of brands for third party alarm. Thus request you kindly amend it to 1 input and 1 output or provide clarity for 2 in & 2 out. Radius Infotech 1 input & 1 output is widely used in all of brands for third party alarm. Thus		9. Lookman Electroplast Industries Ltd (6) 10. Johnson Controls (7) 11. Radius Infotech (P) LTD. (8) 12. VOLKSARA TECHNO SOLUTIONS RIVATE LIMITED (4) 13. Elkosta Security Systems India (5) 14. Bodhtree (1) 15. Impulse Networks (2) 16. Triflex Solutions (1) 17. Radius Infotech



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			request you kindly r amend it to 1 input and 1 output or provide clarity for 2 in & 2 out.		
1352.	4.10 Field Devices-C. Outdoor Fixed ANPR with IR Illuminator- 2MP- 30/541 (2)	30. Housing IP 67 Rated IK 10 rated for outdoor use;	1.IP66 Enclosure - IP rated as ""dust tight"" and protected against heavy seas or powerful jets of water. IP 67 Enclosures - IP rated as ""dust tight"" and protected against immersion. Please share the need of IP67 certificate as cameras will be deployed on Poles and thus at a sufficient height where they don't have an application of being 'immersed in water'. Requesting you to amend the Clause as : IP66/IP67 rated, IK10 rated for outdoor use" 2.In order to have healthy participation and to allow a level playing field to all Potential Indian Camera OEMs please modify to IP66/IP67 and 1K10.	Kindly refer corrigendum	1. Samriddhi Automations Pvt Ltd (SPARSH) (1) 2. IDIS Securitem Solutions Pvt. Ltd. (2) 3. BHARAT ELECTRONICS LIMITED (2) 4. VOLKSARA TECHNO SOLUTIONS PRIVATE LIMITED (2)
1353.	4.10 Field Devices-C. Outdoor Fixed ANPR with IR Illuminator- 2MP- 31/541 (2)	31. Certifications CE, FCC, UL/cUL, BIS, NEMA 4X	1.Certifications: CE, FCC, UL/cUL, BIS, NEMA 4X/IP66 NEMA 4X rating is equivalent to IP66 rating of the products so request you to allow IP66 certificate as an option with NEMA 4X for wider participation. https://www.siemon.com/en/home/suppo rt/compliance/nema-ratings-and-ip-equivalents	Kindly refer corrigendum	1. PruTech Solutions India Pvt. Ltd. (1) 2. Bodhtree (1) 3. Samriddhi Automations Pvt Ltd (SPARSH) (2) 4. IDIS Securitem Solutions Pvt. Ltd. (3) 5. Sterling Wilson Pvt.Ltd (4) 6. Globalrays Technologies (1)



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			2. UL/cUL and NEMA-4X are foreign certifications. BIS is an Indian equivalent certificate to UL/cUL and is covered as mandatory certification for CCTV cameras as per CRO. IP66 is an Indian equivalent certificate to NEMA-4X and both are used for water and dust protection for outdoor environment. Ministry of Finance had issued an Office Memorandum dated 12th May 2020 which emphasising the mandatory use of Indian Standards in Technical Specifications. wherever Indian Technical specifications and Quality Certifications exist, the procuring entity should prescribe them, Asking mandatory foreign certifications like UL/cUL and NEMA-X is a restrictive clause for Indian OEMs as per the clause no "10. Specifications in Tenders clause e" on page no 7 of DPIIT Public Procurement (preference to Make-in -India) order 2017 dated 16th September, 2020. "Specific Foreign Certifications/unreasonable technical specifications /brands/models in the bid document is restrictive and discriminatory practice against local suppliers" Requesting you to amend the certification as: CE, FCC and UL/cUL/BIS, NEMA-4X/IP66" 3.Tender specification requires IP66/67 protection but certification asked for NEMA AX, please modify this to CE, FCC, UL/cUL/BIS, NEMA 4x/IP66. Also note that the industry standard for weather protection of camera is IP66/IP67 and IK10		7. BHARAT ELECTRONICS LIMITED (3) 8. Telecommunications Consultants India Limited (5) 9. Triflex Solutions (1) 10. VOLKSARA TECHNO SOLUTIONS PRIVATE LIMITED (1)



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			for Vandal proofing. The NEMA 4X as protection criteria is used for products exposed in hazardous env.ronment. 4.Kindly amend it as CE, FCC, UL/cUL and BIS, as because NEMA 4X is not required in the onsite requirment of Delhi ambient condition and also the proposed certifications will be available mostly all other reputed CCTV OEMs. Also requesting you to kindly modify the same in the POC/ATP requirement page. 5.Please remove NEMA 4X as it shall be a brrier for major OEMs to participate and also NEMA-4X has no advantage or utility in Delhi environment. Its more dust & pollution and against which IP66 is more than sufficient.		
1354.	4.10 Field Devices-C. Outdoor Fixed ANPR with IR Illuminator- 2MP- 32/541 (1)	Power Requirement : Power Over Ethernet (P.O.E.),POE+	1.High performance global shutter to function appropriately with the required processing power for edge analytics as well. In such cases POE power may not be sufficient, POE in such specialised product should be made optional for fair competition. Request you to kindly amend this clause as " Power Supply- POE+/AC24V/DC12V/220V AC "	As per RFP (MSI should meet the functional requirement)	1. Lookman Electroplast Industries Ltd (1)



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1355.	4.10 Field Devices-C. Outdoor Fixed ANPR with IR Illuminator- 2MP- 34/541 (1)	34. EMI EMC: Surge test (Level 4) as per IEC:61000-4-5(Level 4)	1.Change/Amendment Requested : Surge protection inbuilt or external to the camera Justification : Surge protection is the primary requirement hence kindly consider inbuilt or external surge protection for EMI EMC , asking for Surge test (Level 4) as per IEC:61000-4- 5(Level 4) shall limit the competition. 2.Please remove this clause 3.Surge Test (Level 4) is basically supported by PTZ cameras. Thus, request you to please delete this Clause for ANPR Cameras	Kindly refer corrigendum	- Gurusons Communications Pvt. Ltd. (1) - Honeywell (2) - RAH InfoTech (P) Ltd (1) - Honeywell Automation India Ltd. (2) - Radius Infotech (P) LTD. (3) - Impulse Networks (1)
1356.	4.10 Field Devices-C. Outdoor Fixed ANPR with IR Illuminator- 2MP- 35/541 (1)	Audio:1 Channel Audio IN/ 1 Channel Audio Out or Built In MIC/ 1 Channel Audio Output, Support two-way audio (Optional)	1.ANPR cameras work for specific requirements of Number Plate capturing and any audio In/ Out may effect the result of accuracy drastically. SO, we request to remove this clause.	As Per RFP	Lookman Electroplast Industries Ltd (1)
1357.	4.10 Field Devices-C. Outdoor Fixed ANPR with IR Illuminator- 2MP- 36/541 (1)	A. Field Devices: C.36. MTBF : Min 100000 Hours or better	1.Kindly amend it as 80000 Hours or better. As because, by achieving 80000 Hours MTBF in the Camera, the Camera will sustain more than 9 years. Whereas the Contract period asked in the tender as 8 years (Warranty - 5 Years and O&M - 3 Years), hence MTBF 80000 Hours will be sufficient and get fitted with the tender requirement. Even you also asked same MTBF value in other Camera, as for PTZ Camera. Also requesting you to kindly	Kindly refer corrigendum	- Sterling Wilson Pvt.Ltd Telecommunications Consultants India Limited (1) - Tech Mahindra (2)



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			modify the same in the POC/ATP requirement page. 2.Please standardised the MTBF as 80000 Hours or better. Please amend it as 70000 Hours or better. Since RFP is specific to the requirement of 8 years' of OEM Contract Period covering Warranty + AMC can be met by (365 days per year X 24hours per day X 8 Years of Contract Period = 70080 HOURS). Adding 20000 more hours dont justify RFP requirement rather than only to benefit a specific OEM. In view of the Technical justification inline with RFP SLA & OEM Contract Period, request you to ammend the MTBF to 70000 HOURS or BETTER.		
1358.	4.10 Field Devices-D. Poles - for Cameras with 1 mtr ARMs for Fixed & PTZ - 5/541 (1)	Clause D Poles - for Cameras with 1 mtr ARMs for Fixed & PTZ Sl No. 5 - Foundation - wind speed of 180 km/hr. Sl NO. 10 - Wind velocity = Min 180 KMPH (pole mounted at ground level).	1.The Wind Speed of 180 KMPH mentioned in the RFP is normally specified for Coastal and Cyclone Prone areas. As Delhi is not located in any of these areas, the wind speed of 80 KMPH will be appropriate. Request you to kindly ammend the clause as 80 KMPH instead of 180 KMPH	Kindly refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd (1)
1359.	4.10 Field Devices-E. Poles - Cantilever Poles for ANPR camera- 5/543 (1)	E. Poles - Cantilever Poles for ANPR camera Sl No. 5 - Foundation - wind speed of 180 km/hr. Sl No. 11 - Wind velocity = Min 180 KMPH (pole mounted at ground level).	1.The Wind Speed of 180 KMPH mentioned in the RFP is normally specified for Coastal and Cyclone Prone areas. As Delhi is not located in any of these areas, the wind speed of 80 KMPH will be appropriate. Request you to kindly ammend the clause as 80 KMPH instead of 180 KMPH	Kindly refer corrigendum	1. Matrix Security & Surveillance Pvt Ltd (1)
1360.	4.10 Field Devices-F. Network Access Switches - 8 or		1. End to end convergence design is not clear as some switches have been asked with STP while others are asked with G.8032. Further, no clarity has been	1. For SD-WAN it can done through hub and spoke.	1. Matrix Security & Surveillance Pvt Ltd 2. Cisco



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	more ports/544 (14)		given on how the same will be done over SDWAN for all traffic including Multicast, which is the critical traffic. Kindly clarify the same. 2. RFC 3619 support is asked in L2 switches at C3i and C2i locations. It may be noted that RFC 3619 is informational only and currently only one OEM has contributed to this RFC. There are other standard RFCs which are available for the asked requirement and can be used for the same. Kindly clarify. 3. The proposed DC will be hosting multiple applications which will be used for City Surveillance as well various analytics tools like FRS, ANPR, PIU, etc. Also, there will also be integration with the existing departmental application across various functionality. Hence an Application Performance Monitoring tool is highly recommended to be deployed in the DC which can help in Application performance visibility, performance impact analytics, deep application in-sight, end-user experience tracking and unified App-Infra visibility. request you to kindly consider the same. 4. The RFP asks for G.8032 support whereas it requires L3 also, hence IP-FRR (IP Fast Reroute), TI-LFA (Topology-Independent Loop-Free Alternate) based protection should also be asked. Kindly clarify.	2. MSI can provide RFC 3619 or equivalent protocol accordingly for switch uptime. 3. As per RFP. 4. Minimum is asked, bidder can quote above and asked. 5. As per RFP. 6. Kindly refer RFP in detail.	



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			5. The RFP asks for PIM for multicast but no L3 or MPLS features has been asked which leaves solution incomplete. Kindly clarify the same. 6. The RFP talks about community cameras to be connected with the system, which means lot of connectivity requirement from SP hence the design proposed may not be scalable enough to meet the requirement. Kindly clarify.		
1361.	4.10 Field Devices-F. Network Access Switches - 8 or more ports/544 (2)	Additional suggestions	1.As the field switches are going to be the most critical component of the city surveillance network, following feature will have added advantage and enhance the desired functionality of the solution ask. It is suggested to kindly add the clause as "Shall support SPAN session, RSPAN should be supported and removable storage (SD Card or USB) for configuration backup" As the field switches are going to be the most critical component of the city surveillance network and field camera will be getting connected to it, hence security features like MACsec-128, static Inter-VLAN routing, etc. will help in strengthening security at access/field level. It is suggested to kindly add the following clause under field switches as "Shall support MACsec-128 bit encryption, Static Inter-VLAN routing"	As per RFP	1. Matrix Security & Surveillance Pvt Ltd (1)
1362.	4.10 Field Devices-F. Network Access Switches - 8 or more ports-	Minimum 8 x of 10,100,1000 RJ45 interfaces with POE+ Supporting IEE802.3af and 802.3 at standards and 4 x 1G SFP interface and 2x1G	1. Kindly clarify the functional requirement of 4x1G SFP interface. 2. Clarification required : EEE is intreperted as PoE	Kindly refer corrigendum	1. HFCL Limited (1) 2. Alcatel Lucent Enterprise (2) 3. RAH InfoTech (P) Ltd (3)



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	1/544 (6)	single mode optix on day one. Simultaneous active port count should be 12 or more. Support EEE on all copper ports	3. Kindly clarify whether 4x1G SFP ports are required for connecting end clients or only used as fiber uplinks ? Can 2x1G SFP ports serve the purpose ? 4. Clarification required : EEE is intrepretted as PoE 5. We understand it is typo error and this is POE on All copper ports . Kindly confirm . 6. Clarification required : EEE is intrepretted as PoE		4. iValue InfoSolutions Pvt. Ltd. (4) 5. Larsen & Toubro Ltd (5) 6. Techspire Services Pvt. Ltd. (6) 7. Online Micro Services Private Limited (6)
1363.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 2/544 (2)	2. Performance and Reliability: It should be industrial grade switch which should operate at wider temperature range (-10 to 60 deg) or better withstands greater shock, vibrations, temperature and EMI/EMC tests.	1.Request to change clause as "It should be industrial grade switch which should operate at wider temperature range (-10 to 60 deg) or better withstands greater shock, vibrations, temperature and EMI/EMC tests. It should have non-blocking wire-speed architecture. It should be architected to support real time applications like voice, video, data by having distributed architecture. Should support IP 30 rating. MTBF value not less than 20/25 years It should be stackable with atleast 2 units in a stack" It is submitted that in a public place deployment the current type of requirement must be complemented with stacking provision of switches and arrangement for scalability aspects. The switches should ideally be provisioned for stacking in outdoor environments to cater to additional camera incorporations. It is to be understood that additional re-laying of network will not be the prior choice in case	Kindly refer corrigendum	1. iValue InfoSolutions Pvt. Ltd. (1) 2. Alcatel Lucent Enterprise (1) 3. Globalrays Technologies (2) 4. BHARAT ELECTRONICS LIMITED (4) 5. Triflex Solutions (2) 6. Telecommunications Consultants India Limited (4) 7. iValue InfoSolutions Pvt. Ltd (4) 8. Techspire Services Pvt. Ltd. (1) 9. Online Micro Services Private Limited (1)



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			of increased future needs. Stacking is mandatory in outdoor switch as there is always need for additions of camera/switch and new fiber laying is not possible 2. Performance and Reliability: It should be industrial grade switch which should operate at wider temperature range (-20 to 70 deg) or better withstands greater shock, vibrations, temperature and EMI/EMC tests. Switching Operationing Temperature should support as per field requirements, Considering Temprature raise in enviornmental and switch positiong (-20 to 70 deg) is must required for field Switches. "It should be industrial grade switch which should operate at wider temperature range (-20 to 70 deg) or better withstands greater shock, vibrations, temperature and EMI/EMC tests." 4. Industrial field switch wider temperature range should be (-10 to 70 deg) considering tempertaure scenario in Delhi NCR. Temperature in and around delhi peaks to 48 deg C in summers. In order to provide better functionality a 20 deg additional range is requested in switches and hence most of the tender clauses takes temperature range of -10 to 70 deg C.		
1364.	4.10 Field Devices-F. Network Access Switches - 8 or more ports-	POE Budget – 240 watts.	1. Request to change POE Budget – 150 watts. It is submitted that though inside Junction Box temperature of 45 deg has been asked in the RFP, however it is to be noted that this temperature for prolonged working	As per RFP	1. iValue InfoSolutions Pvt. Ltd. (1) 2. Alcatel Lucent Enterprise (1) 3. Techspire Services Pvt. Ltd. (1)



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	3/545 (5)		duration in summers in Delhi will be difficult and impractical for outside road environs where the heat trap buffer of additional 15 deg has to be considered inside a JB. Though fan based cooling/ AC baased cooling can be the adopted criteria, however, maintaining 240w output over PoE will be impractical and risky preposition even while achieving success to maintain 45 deg within JB. Henceforth, it is requested to consider 150W PoE budget which is practical to achieve and maintain in the demographics where the project has to be implemented.No Ruggedised switch will give 240w PoE when it works under 60Deg for more than 4 hrs. The PoE budget of 240watts is under standard 45deg. As the temp increases, the PoE budget reduces. This is specific by certain OEMS.[1,2,3,4]		4. Online Micro Services Private Limited (1)
1365.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 4/545 (5)	b. Dynamic VLAN with VTP / MVRP /PIM	1.This is OEM specific Request to change clase as " b. Dynamic VLAN with VTP / MVRP" Request to Remove PIM as this is not required in 8 port switch.	Kindly refer corrigendum	1. Techspire Services Pvt. Ltd. (1) 2. Alcatel Lucent Enterprise (1) 3. iValue InfoSolutions Pvt. Ltd. (1) 4. Online Micro Services Private Limited (1)



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1366.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 4/545 (3)	4.c. IP Subnet VLAN, d. 802.1v	1.IP Subnet VLAN is not a generic feature in Industrial Switches and typically used in SCADA environment. 802.1v protocol-based vlan is for protocols like Appletalk, ARAP etc., which is not the case in OT deployments. Port-based vlan as asked in the specs will suffice the desired functionality and enable participation from the leading OEMs. Hence request you to kindly delete this clause.	Kindly refer corrigendum	1. Cisco (1) 2. Matrix Security & Surveillance Pvt Ltd (1)
1367.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 4/545 (1)	a. Minimum 1024 active VLANS b. Dynamic VLAN with VTP / MVRP /PIM c. IP subnet VLAN d. 802.1v e. 802.1ad (q-in-q) f. Private VLAN	1.Number of VLAN are varies OEM to OEM hence need to Mention min. vLAN 256 Numbers so Standard OEM can also qualify. And VLAN standard is Port-based VLAN, IEEE 802.1Q VLAN, and GVRP so request to consider it as mention standard (· 802.1v · 802.1ad (q-in-q) · Private Vlan) are OEM Specific,	Kindly refer corrigendum	1. NEC Corporation India Pvt. Ltd. (1)
1368.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 4/545 (2)	VLAN Support: f. Private VLAN	1.The same functionality can be achieved with VLAN and port based filters. Please confirm if the same can be proposed as an alternatives to private VLAN. The same functionality can be achieved with VLAN and port based filters. Please confirm if the can be proposed as an alternatives to private VLAN.	Kindly refer corrigendum	1. HFCL Limited (1) 2. RAH InfoTech (P) Ltd (1)
1369.	4.10 Field Devices-F. Network Access Switches - 8 or more ports-	5.h. Ipv4 & ipv6 sFlow Agent	1.Flow-based monitoring is not required for L2 based deployments and primarily cater towards layer 3 and 4 attributes which is useful for IT to gain insights. Further, removal of this clause will not impact the desired functionality.	Kindly refer corrigendum	1. Cisco (1) 2. Matrix Security & Surveillance Pvt Ltd (1)



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	5/545 (3)		Hence it is requested to kindly delete this clause. Alternatively, as POC has asked "k. PIM protocol-based multicast functionality if provided will be added advantage.", hence request you to kindly change the clause as "Switch shall support OSPF, EIGRP, BGPv4, IS-IS, PIM-SM, PIM-SSM, 802.1ae MACsec, IPv4 & IPv6 sflow or equivalent agents"		
1370.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 5/545 (5)	a. 802.1x support b. MAC-based Authentication c. DHCP Server ipv4 & ipv6, Client, Relay, Snooping, option 82/Relay, d. ACL based on L2, L3, L4 rules e. IP source Guard f. Storm Control for unicast, broadcast and multicast. g. Cable diagnostics to measure cable length h. Ipv4 & ipv6 sFlow Agent	1.Request to change clause as" a. 802.1x support b. MAC-based Authentication c. DHCP Server ipv4 & ipv6, Client, Relay, Snooping, option 82/Relay, d. ACL based on L2, L3, L4 rules e. IP source Guard f. Storm Control for unicast, broadcast and multicast. g. Cable diagnostics to measure cable length h. Ipv4 & ipv6 sFlow Agent i. MACSec on all ports" It is submitted that the RFP demands a highly complex network topology wherein the data flow has to be secured through adequate preventive measure for middle way attack in the data carrying media. MAC to MAC binding of the ports through MAC Sec protocol will ensure the data dycryption and accessability will happen at the defined destination only. In the desired public deployment, the security parameters the breach of authorized accessability (MITM) is highly probable through middle way attacks which is not only to be monitored however	Kindly refer corrigendum	1. iValue InfoSolutions Pvt. Ltd (1) 2. Techspire Services Pvt. Ltd. (1) 3. Alcatel Lucent Enterprise (1) 4. NEC Corporation India Pvt. Ltd. (3) 5. Online Micro Services Private Limited (1) 6. Johnson Controls



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			prevented. Henceforth, it is recommended to consider MAC Sec protocol on all ports of the switch in project interest 2.Request to change clause as" a. 802.1x support b. MAC-based Authentication c. DHCP Server ipv4 & ipv6, Client, Relay, Snooping, option 82/Relay, d. ACL based on L2, L3, L4 rules e. IP source Guard f. Storm Control for unicast, broadcast and multicast. g. Cable diagnostics to measure cable length h. Ipv4 & ipv6 sFlow Agent i. MACSec on all ports". 3.IP source guard and Dynamic ARP Inspection (DAI) etc are Security features for commercial grade switches. For industrial grade, IEC 62443-4-2 is baseline requirement and non proprietary standard of the industrial automation control systems. It relates to cyber threats posed by hackers, which is the most common attack experienced in unsecured industrial networks hence we request you to kindly consi 4. IP source guard and Dynamic ARP Inspection (DAI) etc are Security features for commercial grade switches. For industrial grade, IEC 62443-4-2 is baseline requirement and non proprietary standard of the industrial automation control systems. It relates to cyber threats posed by		



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			hackers, which is the most common attack experienced in unsecured industrial networks hence we request you to kindly consider		
1371.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 6/545 (2)	6. Surveillance Traffic handling Features: a. 8K MAC table b. 8 QoS queues per port, DSCP remarking c. NTP over IPv6. D. Bandwidth control rate limit, Per VLAN port mirror e. Ring Protocol for fast failover. Link loss recovery < 50ms f. IGMP snooping - v1, v2, v3, MLD snooping, MVR/PIM	1. Surveillance Traffic handling Features: D. Bandwidth control rate limit, Per VLAN / Port mirror For larger participation, Leverage will allow all the vendors to participate with the specifications and department will be benefited by getting very competitive product in terms of technology & pricing.	Kindly refer corrigendum	1. Globalrays Technologies (1) 2. Triflex Solutions (1)
1372.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 6/545 (3)	6.b. 8 QoS queues per port, DSCP remarking	1.The clause 8 QoS queues per port is favouring one OEM and restrict leading OEM participation. Further reducing number from 8 QoS queues to 4QoS queues would not have any impact on the solution functionality or ask. Request you to kindly change the clause as "4 QoS queues per port, DSCP remarking"	Kindly refer corrigendum	1. Cisco (1) 2. Matrix Security & Surveillance Pvt Ltd (1)
1373.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 6/545 (1)	a. 8K MAC table b. 8 QoS queues per port, DSCP remarking c. NTP over IPv6. D. Bandwidth control rate limit, Per VLAN port mirror e. Ring Protocol for fast failover. Link loss recovery < 50ms	1.Multicast Protocols For Video: IGMP snooping v1 , v2 and v3, MLD snooping (v1 and v2), PIM for IPv4 & IPv6, PIM for video multicast. So please remove these features. IGMP feature is used for End point Multicasting and can suffice the requirement. Or please amend as GMP snooping - v1, v2, v3, OR MLD snooping MVR/PIM	Kindly refer corrigendum	1. NEC Corporation India Pvt. Ltd. (1)



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		f. IGMP snooping - v1, v2, v3, MLD snooping, MVR/PIM			
1374.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 6/545 (4)	D. Bandwidth control rate limit, Per VLAN port mirror	1.D. "Bandwidth control rate limit, Per VLAN / Port mirror" For larger participation, Leverage will allow all the vendors to participate with the specifications and department will be benefited by getting very competitive product in terms of technology & pricing.	As per RFP	1. Presto Infosolutions Pvt. Ltd. (1) 2. Telecommunications Consultants India Limited (1) 3. BHARAT ELECTRONICS LIMITED (1)
1375.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 6/545 (6)	e. Ring Protocol for fast failover. Link loss recovery < 50ms	1. e. Ring Protocol based on ERv2 for fast failover. Link loss recovery < 50ms No specification for RING is mentioned which will lead to daisy chain topology This clause seems to be favoring certain make where core switches and access switches are of same make. Request you to please make link loss recovery as < 1 sec as per IEEE standard.	Kindly refer corrigendum	1. Alcatel Lucent Enterprise (1) 2. NEC Corporation India Pvt. Ltd. (1) 3. Techspire Services Pvt. Ltd. (1) 4. iValue InfoSolutions Pvt. Ltd (1) 5. Online Micro Services Private Limited (1)
1376.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 6/545 (2)	Surveillance Traffic handling Features: f. IGMP snooping - v1, v2, v3, MLD snooping, MVR/PIM	1.MVR is useful for IPTV streaming kind of a application, where the end user client ports receive the streams are configured with MVR. However in CCTV application, it is not applicable for end PoE switches as camera is not the client to receive such streaming traffic, rather camera streams to central server or users. Request to remove the MVR function as it doesn't find any use case in CCTV surveillance application. 2.MVR/PIM is multicast routing functionality that is applicable to Layer-3 switch or router and not L2 access	Kindly refer corrigendum	1. HFCL Limited (1) 2. RAH InfoTech (P) Ltd (2)



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			switches. IGMP and MLD are used as standards for multicast applications at access switches. Request to remove MVR/PIM functionality for 8-Port PoE+ access field switches.		
1377.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 7/545 (2)	7. Management: f. Switch Port Analyzer per VLAN	1. Management: f. Switch Port Analyzer per VLAN / Port Mirroring For larger participation, Leverage will allow all the vendors to participate with the specifications and department will be benefited by getting very competitive product in terms of technology & pricing.	As per RFP	1. Globalrays Technologies (1) 2. Triflex Solutions (1)
1378.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 7/545 (2)	7. Management: h. Support for RFC 2544 or better	1. Remove this Clause Kindly delete this clause for larger participation, RFC2544 is benchmark methodology, and it was use by benchmark device like IXIA or testcenter, not for industrial switch 2. This seems to be OEM specific so that request you to remove the this clause.	Kindly refer corrigendum	1. Globalrays Technologies (1) 2. Triflex Solutions (1) 3. NEC Corporation India Pvt. Ltd. (2)
1379.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 7/545 (3)	7.e. PoE management - Scheduling of Power Delivery, Power limit by device type and Power delivery prioritization	1. This statement is specific to one OEM and is restricting leading OEM participation. Normally, all leading OEM supports 802.3af/802.3at standards and meets the desired functionality. Also removing this specific clause do not have any impact on the solution functionality, hence request you to kindly change the clause as "PoE Management - Should support 802.3af and 802.3at standards"	Kindly refer corrigendum	1. Cisco (1) 2. Matrix Security & Surveillance Pvt Ltd (1)
1380.	4.10 Field Devices-F. Network Access Switches - 8 or more ports-	--	7:Management Request for Addition The Switch shall persistent PoE/equivalent functionality to feed PoE power to camera during switch reboot	As per RFP (minimum is asked , MSI can quote better than asked)	1. Netstack Infratech Pvt (1)



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	7/545 (1)		1. Considering switches at data centre have been considered with SDN OpenFlow support, so its highly recommended to consider at edge switch to ensure seamless interoperability. As per DoT mandate, the network should be IPv6 ready, so IPv4 and IPv6 dual stack at switch level is highly required else switch shall not work while IPv6 migration. Considering 24x7 CCTV operations, it is highly recommended to consider persistent PoE/equivalent feature in order to ensure continuous PoE power to the camera during switch reboot. With this, during switch reboot, the CCTV streams shall be archived with in IP CCTV internal SD card and upon switch reboot completion, all streams shall transferred to data centre. This way, we can have 24x7 surveillance. In absence of this feature, during switch reboot, the switch shall stop powering PoE power to the camera which leads to shutdown of camera during reboot.		
1381.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 7/545 (5)	7:Management a. GUI - should be supplied with software for mass configuration of switches. b. IP v6 compatible and management with support for SSH, Telnet, SNMP, RMON c. Support Syslog for alarm d. Dedicated Management port with industry standard CLI e PoE management - Scheduling of Power	1. On Edge switch DNS client and relay are required while server required at central command and control centre, please relax DNS server feature. Support for RFC 2544 or better - the RFC2544 in switch level implementation is OEM specific, please relax it on switch level.[4,5,6] 2. DNS server is core layer functionality, and not required at edge swiches, so please relax the same. We hope, DNS server shall be at Data centre level	Kindly refer corrigendum	1. Tatvik System Solutions Pvt Ltd 2. DRS IT Consultancy Pvt. Ltd. 3. Dievas Technologies Pvt Ltd 4. INTEC INFONET PVT. LTD. 5. Transline Technologies Pvt. Ltd. 6. Marushika Technology Advisors Pvt. Ltd.



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		Delivery, Power limit by device type and Power delivery prioritization f. Switch Port Analyzer per VLAN g. RADIUS (Authentication and Accounting), TACACS+ 3.0 , RMON I and II, DNS Server, Client and Proxy, Configurable LLDP-MED values h. Support for RFC 2544 or better	3. Support for RFC 2544 or better - It is specific to Extreme Networks, please relax the same 4. Considering DNS server shall be configured centrally at Data Centre/ICC, with "DNS server" functionality, please clarify, do we need to configure the switch with central DNS server IP as DNS server is Core Switch functionality 5. Support for RFC 2544 or better - Please clarify, do we need to submit switch test reports as per RFC 2544? RFC2544 in switch is OEM specific. 6. IPv6 compatible- Please clarify, with IPv6 compability, do we need to support IPv6 host traffic like IP CCTV camera with IPV4 and IPv6 dual stack.		
1382.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 7/545 (9)	7:Management g. RADIUS (Authentication and Accounting), TACACS+ 3.0 , RMON I and II, DNS Server, Client and Proxy, Configurable LLDP-MED values h. Support for RFC 2544 or better	1.DNS server functionality is required at central command and control centre core switch and its has no relevance at edge switch level, so please delete "DNS server" feature. h.As switches are tested as per RFC 2544, so please change it as "Switch test report as per RFC 2544 or better" 2.Please clarify, why DNS server functionality is required at edge switch ? As per our understanding, edge switch shall be configured with centrally configured one DNS server IP address only, so please delete DNS server feature. H. Please do clarify, do we need to submit switch test reports as per RFC 2544?	Kindly refer corrigendum	1. Marushika Technology Advisors Pvt. Ltd. (1) 2. A S Infotech E-Solutions Pvt. Ltd. (2) 3. Transline Technologies Pvt. Ltd. (1) 4. PICONET INNOVATIVE SOLUTION PVT LTD (1) 5. Dievas Technologies Pvt Ltd (1) 6. INTEC INFONET PVT. LTD. (1) 7. HFCL Limited (3) 8. RAH InfoTech (P) Ltd (3) 9. Netstack Infratech Pvt (4)



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			Theses are generated via testing equipment not via switch itself. 3.DNS Server and Proxy is the functionality of routers or separate standalone servers. It is not part of access switches since DNS IP defined inside the end client like camera belongs to either remote router or server. Access switch can only act as client. Request to remove DNS server and proxy for 8-port PoE+ access switches. 4. DNS server shall be configured at core DC layer, so its not a edge switch functionality, so would request you to delete "DNS server" functionality h. Considering switch interfaces are tested as per RFC 2544, so please change it as "RFC 2544 test reports of switch" for better clarity		
1383.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 7/545 (6)	7:Management Request for Addition The Switch shall persistent PoE/equivalent functionality to feed PoE power to camera during switch reboot	1.Considering 24x7 CCTV operations, it is highly recommended to consider persistent PoE/equivalent feature in order to ensure continuous PoE power to the camera during switch reboot. With this, during switch reboot, the CCTV streams shall be archived with in IP CCTV internal SD card and upon switch reboot completion, all streams shall tranfered to data centre. This way, we can have 24x7 surveillance. In absence of this feature, during switch reboot, the switch shall stop powering PoE power to the camera which leads to shutdown of camera during reboot.	As per RFP (minimum is ask, MSI can provide above and asked)	1. Dievas Technologies Pvt Ltd (1) 2. Marushika Technology Advisors Pvt. Ltd. (1) 3. A S Infotech E-Solutions Pvt. Ltd. (1) 4. PICONET INNOVATIVE SOLUTION PVT LTD (1) 5. Transline Technologies Pvt. Ltd. (1) 6. INTEC INFONET PVT. LTD. (1)



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1384.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 7/545 (1)	7:Management Request for Addition The Switch shall support SDN OpenFlow v1.3 and IPv4-IPv6 dual stack for host and management traffic	1.SDN OpenFlow v1.3 is an open standard for network management to ensure ease of manageability and network automation. It shall also ensure seamless interoperability with SDN data centre switches, so would request you to consider the required feature. 2.Considering switches at data centre have been considered with SDN OpenFlow support, so its highly recommended to consider at edge switch to ensure seamless interoperability. As per DoT mandate, the network should be IPv6 ready, so IPv4 and IPv6 dual stack at switch level is highly required else switch shall not work while IPv6 migration.	As per RFP	1. Marushika Technology Advisors Pvt. Ltd. (1) 2. A S Infotech E-Solutions Pvt. Ltd. (2) 3. PICONET INNOVATIVE SOLUTION PVT LTD (1) 4. Transline Technologies Pvt. Ltd. (1) 5. Dievas Technologies Pvt Ltd (1) 6. INTEC INFONET PVT. LTD. (1)
1385.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 7/545 (1)	F. Network Access Switches - 8 or more ports 7:Management PoE management - Scheduling of Power Delivery, Power limit by device type and Power delivery prioritization	1. Request for Addition The Switch shall persistent PoE/equivalent functionality to feed PoE power to camera during switch reboot It is highly recommended to ensure higher availability	Kindly refer corrigendum	1. Transline Technologies Pvt. Ltd. (1)
1386.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 7/545 (3)	F. Network Access Switches - 8 or more ports 7:Management a. GUI - should be supplied with software for mass configuration of switches. b. IP v6 compatible and management with support	1. On Edge switch DNS client and relay are required while server required at central command and control centre, please relax DNS server feature. 2. Support for RFC 2544 or better - the RFC2544 in switch level implementation is OEM specific, please relax it on switch level.	1. Yes, DNS server will be at Data center. 2. Kindly refer corrigendum	1. Marushika Technology Advisors Pvt. Ltd. (2) 2. Transline Technologies Pvt. Ltd. (2) 3. INTEC INFONET PVT. LTD. (2)



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		for SSH, Telnet, SNMP, RMON c. Support Syslog for alarm d. Dedicated Management port with industry standard CLI e PoE management - Scheduling of Power Delivery, Power limit by device type and Power delivery prioritization f. Switch Port Analyzer per VLAN g. RADIUS (Authentication and Accounting), TACACs+ 3.0 , RMON I and II, DNS Server, Client and Proxy, Configurable LLDP-MED values h. Support for RFC 2544 or better			
1387.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 7/545 (4)	f. Switch Port Analyzer per VLAN	1. "Switch Port Analyzer per VLAN / Port Mirroring" For larger participation Leverage will allow all the vendors to participate with the specifications and department will be benefited by getting very competitive product in terms of technology & pricing.	As per RFP	1. Presto Infosolutions Pvt. Ltd. (1) 2. Telecommunications Consultants India Limited (1) 3. BHARAT ELECTRONICS LIMITED (1)
1388.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 8/545 (5)	a. EN 61000-4-5 Surge b. EN 60950c c. RoHS and WEEE compliant d. NEMA- TS2	1.Request to change clause as below a. EN 61000-4-5 Surge b. EN 60950c c. RoHS and WEEE compliant d. NEMA- TS2 e. IEC 60255-21-2 (mechanical shock) f. IEC 60255-21-1 (vibration) g UL 508 h. UL 61010 Standard industrial grade certifications are not included which will lead to High	Kindly refer corrigendum	1. Techspire Services Pvt. Ltd. (1) 2. Alcatel Lucent Enterprise (1) 3. iValue InfoSolutions Pvt. Ltd (1) 4. Online Micro Services Private Limited (1)



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			temperature with being positioned as Ruggedised switch		
1389.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 8/545 (6)	c. RoHS and WEEE compliant	1.c. RoHS or WEEE compliant RoHS regulates the hazardous substances used in the manufacture of electrical and electronic equipment (EEE), while WEEE regulates the disposal of this same equipment. Both deal with same thing and WEEE is for EU market and hence may not be suitable/ available for OEM which are Asian make. Requested to allow for ROHS or WEEE compliant. 2. Certification: c. RoHS or WEEE compliant RoHS regulates the hazardous substances used in the manufacture of electrical and electronic equipment (EEE), while WEEE regulates the disposal of this same equipment. All applicable products for the EU market must pass WEEE compliance So Kindly give option for larger participation,	Kindly refer corrigendum	- Presto (1) - Telecommunications Consultants India Limited (1) - Presto Infosolutions Pvt. Ltd. (1) - BHARAT ELECTRONICS LIMITED (1) - Globalrays Technologies (2) - Triflex Solutions (2)
1390.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 8/545 (2)	Certification: a. EN 61000-4-5 Surge b. EN 60950c c. RoHS and WEEE compliant d. NEMA- TS2	1. The certifications asked in the RFP are foreign certifications which adhere to European and American standards. DIPP PPP MII order dated 16.09.2020 categorically says that specifying foreign certifications in the bid document is restrictive and discriminatory practice against Local OEMs. 2. Please allow PMA compliant Indian OEMs to submit the undertaking that their product meets the specification and all standards equivalent to EN 61000-4-5 , EN 60950c, RoHS, WEE & NEMA-TS2 as per the RFP requirement. The certifications of above standards from	Kindly Refer Corrigendum	- HFCL Limited (1) - RAH InfoTech (P) Ltd (2,3)



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			standard lab approved/ authorized by Govt. of India shall be submitted at the time of delivery. 1. All asked certifications are foreign certifications which adhere to European and American standards. DIPP PPP MII order dated 16.09.2020 categorically says that specifying foreign certifications in the bid document is restrictive and discriminatory practice against Local OEMs. 2. Please allow PMA compliant Indian OEMs to produce certificate from standard lab approved/ authorized by Govt. of India that their product are equivalent to EN 61000-4-5 , EN 60950c, RoHS, WEE & NEMA-TS2 and meets all standard and specification of above certifications. 3. Also request to allow submission of above certificates on or before delivery of equipments. An undertake by OEM & bidders regarding compliance of above standards can be submitted along with technical bid.		
1391.	4.10 Field Devices-F. Network Access Switches - 8 or more ports- 9/546 (2)	9. Operating conditions: temperature -10° ~ 60°C, humidity 5% to 95% (Non-condensing)	1. Operating conditions: temperature -20° ~ 70°C, humidity 5% to 95% (Non-condensing) Switching Operationing Temperature should support as per field requirements, Considering Temperature raise in environmental and switch positiong (-20 to 70 deg) is must required for field Switches. 2. Temperature -20° ~ 70°C, humidity 5% to 95% (Non-condensing), Industrial field switch wider temperature	Kindly refer corrigendum	1. Globalrays Technologies (1) 2. BHARAT ELECTRONICS LIMITED (2) 3. Triflex Solutions (1) 4. Telecommunications Consultants India Limited (1)



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			range should be (-10 to 70 deg) considering temperature scenario in Delhi NCR. Temperature in and around delhi peaks to 48 deg C in summers. In order to provide better functionality a 20 deg additional range is requested in switches and hence most of the tender clauses takes temperature range of -10 to 70 deg C.		
1392.	4.10 Field Devices-G. Junction Box - Floor placed and Pole mounted- 1/546 (5)	1) Ingress Protection Outdoor – IP55 or better, Floor mount Dimension -16U (800 W x (16U) x 800 D), Pole Mount -12U (600Wx(12U)x600D (in mm)	1. Outdoor IP55 to DIN EN60529, TUV and UL2416, UL60950-1 certified, Floor mount Dimension -16U (800 W x (16U) x 800 D), Pole Mount -12U (600Wx(12U)x600D (in mm) Request to add min quality certification for 10 year life and corrosion protection as per clause 9 2.Outdoor IP55 to DIN EN60529, TUV and UL2416, UL60950-1 certified, Floor mount Dimension -16U (800 W x (16U) x 800 D), Pole Mount -12U (600Wx(12U)x600D (in mm)	Kindly Refer Corrigendum	1. INTEC INFONET PVT. LTD. (1) 2. Transline Technologies Pvt. Ltd. (1) 3. Presto Infosolutions Pvt. Ltd. (1) 4. Marushika Technology Advisors Pvt. Ltd. (1) 5. Elkosta Security Systems India (2)
1393.	4.10 Field Devices-G. Junction Box - Floor placed and Pole mounted- 2/546 (4)	Force Cooling Thorough Fan with filter provisions. Fan and filter housing unit min 02 (top/side mounted) or better. The final number of fans will be decided by thermal calculations of actual load.	1.FAN based solution asked for outdoor racks, however as per our understanding the inside temperature can not be maintained with FAN based solution, hence AC based solution required for outdoor racks. Kindly clarify. It is also recommended to use Industrial grade (Outdoor AC Rack) since temperature in Delhi reach 45 degree in summer. In addition, Outdoor enclosure/Junction boxes recommend to install at floor instead to mount on poles.	As per RFP (MSI should meet the functional requirement)	1. Presto (1) 2. Schneider Electric (2) 3. Presto Infosolutions Pvt. Ltd (1) 4. WQ INDIA (3)



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			2. Please change Filter provisioning at Front Door. Exhaust fan mounted at Top. 3. It is recommended to have thermostat based fans with temperature indicator which will run at set temperatures, this helps low consumption of UPS power by fans and also the life of fans .		
1394.	4.10 Field Devices-G. Junction Box - Floor placed and Pole mounted- 4/546 (1)	4) Material Galvanised Iron (GI) Sheet - 120GSM, Galvanised Iron (GI) sheet gauge for · Floor mount JB- 1.6 mm or better · Pole Mount JB- 1.2- 1.5 mm Surface treatment PP Coating 80-120 Micron Nano ceramic coated, electro-phoretic (EC) dip coat primed and then powder coated	1. Galvanised Iron (GI) Sheet - 120GSM, Galvanised Iron (GI) sheet gauge for · Floor mount JB- 1.6 1.2-1.5 mm or better · Pole Mount JB- 1.2- 1.5 mm Surface treatment PP Coating 80-120 Micron Nano ceramic coated, electro-phoretic (EC) dip coat primed and then powder coated 1.6mm is not standard steel sheet thickness request you to change similar to what mentioned for pole mount The floor mount JB should have equal or greater thickness than the pole mounted JB. This will ensure adequate safeguarding of the equipment placed inside with the desired locking system that has been asked in the RFP. It may also be noted that 1.6 mm gauge is a non standard thickness which is not offered by the certified steel vendors. 2. Recommended to have CRCA for better finish as the properties of CRCA is better than GI. Also it is recommended to have anti corrosive PP coating which comes with default 10 years warranty.	As per RFP	1. Marushika Technology Advisors Pvt. Ltd. (1) 2. WQ INDIA (2) 3. Elkosta Security Systems India (1) 4. Larsen & Toubro Ltd (1) 5. Transline Technologies Pvt. Ltd. (1) 6. INTEC INFONET PVT. LTD. (1) 7. Schneider Electric (3) 8. BECIL



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			3.Please change to "Nano-Ceramic Pre-Treated Pure Polyester Power Coated with 60-100 Microns BECIL: Galvanised Iron (GI) Sheet - 120GSM, Galvanised Iron (GI) sheet gauge for • Floor mount JB 1.2-1.5 mm or better • Pole Mount JB- 1.2- 1.5 mm Surface treatment PP Coating 80-120 Micron Nano ceramic coated, electro-phoretic (EC) dip coat primed and then powder coated		
1395.	4.10 Field Devices-G. Junction Box - Floor placed and Pole mounted- 5/546 (1)	5) Temperature Inside cabinet temperature should be maintained between 0 to 40°C or better	1.either increase to 65 Degree or Airconditioner based Outdoor cabinets needs to be provisioned to achieve 40 degree operating temperature This temperature is not possible to achieve with fan cooling as delhi ambinet is 50 degree hence delta of 15 degree will be there for sheet metal enclosure ... request for re validation and addition of suggested solution. It is submitted that the requirment in the RFP highlights the provisions of the fan based cooling which is not evident & capable to achieve the mentioned 40deg celcius temperature in demograpghy of Delhi. It is suggested that junction boxes shaould have the capapbities of maintaining the required operating temperture of 40 deg as per RFP out of 65 deg celcius (as the temperature inside the compartment of JBs	Kindly refer corrigendum	1. Transline Technologies Pvt. Ltd. (1) 2. INTEC INFONET PVT. LTD. (1) 3. WQ INDIA (2) 4. L&T 5. Schneider-Electric 6. BECIL



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			is considered to be at least 15 deg above the ambient temperature. Or, the JB's as desired, can be accompanied with AC cooling to achieve the desired 40 deg temperature inside the JB's. 2. Separate rain canopy protects in direct sunlight to the cabinet thus ensuring the temperature is maintained. L&T: Operating temperature is lower than ambient of Delhi this calls for AC to be used for cooling in each request confirmation to include AC in each JB to maintain 40 degree operating temperature. As per Weather Department Delhi Ambient Temperature is 48-50 degree, to achieve 40 degree inside JB is only possible using Airconditioned Junction Box, please confirm should we consider AC unit with each JB to maintain desired Temperature Schneider-Electric Heat Load Required with in the cabinet. BECIL: As per Weather Department Delhi Ambient Temperature is 48-50 degree, to achieve 40 degree inside JB is only possible using Airconditioned Junction Box, please confirm should we consider AC unit with each JB to maintain desired Temperature		



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1396.	4.10 Field Devices-G. Junction Box - Floor placed and Pole mounted- 6/546 (1)	3-point spring loaded locking mechanism with Pad lock and Allen key with antirusting metal protective cover Opening leaver/handles should be made of metal	1. Change it to "3-point locking mechanism with Pad lock and Allen key with antirusting metal protective cover" 2.Recommended to have bluetooth locking through mobile phones with electric triggers. This helps accessing of cabinets only through authorised personnel and also the locks are IP enabled.	As per RFP	1. Schneider Electric (1) 2. WQ INDIA (2)
1397.	4.10 Field Devices-G. Junction Box - Floor placed and Pole mounted- 10/547 (1)	1.Caging for security of Junction Box from vandalism and theft 2.Removable high-quality EPDM gasket for IP rating	1. Change to "Vandal Proof". 2. Change to "FIP - Foam in Place", moulded Gasket.	1. Kindly refer corrigendum 2. As per RFP	1. Schneider Electric (1,2)
1398.	4.10 Field Devices-G. Junction Box - Floor placed and Pole mounted- 9/547 (1)	'9. Anticorrosion Warranty & JB Life Minimum 10 years or better from date of installation at site	1.Do you wish to have Minimum 10 years or better Anticorrosion Warranty & Life for Junction Box including Fan, Lock and all component from date of installation at site? To achieve 10 year life and better SLA please add: Junction Box, Fan, Lock and all component should from single OEM and should be in Buisness of enclosures for Min 25 Years of mnaufcaturing in india. request to add for 10 year life and corrosion protetcion. Th anti-corrosion protection is applicable on the components like JB, FAN, Lock and keys etc. henceforth, it is requested to consider the JB and such allied components to be from a single make, in order to ensure better manageable warranty and services under the desired SLAs.	As per RFP. (Can be from single or multiple OEMs being made and offered as single product meeting all technical & SLA Terms including Warranty & Serviceability)	1. Transline Technologies Pvt. Ltd. (1) 2. INTEC INFONET PVT. LTD. (1) 3. Elkosta Security Systems India 4. BECIL



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			Elkosta Security Systems India: to achive 10 year life and better SLA it is important to have single OEM for all components such as :Junction Box, Cooling System/Fan, Lock, PDU, thermostat request you to kindly accept. Single OEM will help in ensuring 10 year life of JB in Dlehi Harsh Climate conditions. BECIL: to achive 10 year life and better SLA it is important to have single OEM for all components such as :Junction Box, Cooling System/Fan, Lock, PDU, thermostat request you to kindly accept.		
1399.	4.10 Field Devices- I. Public Address System + loudspeaker/548 (1)	I. Public Address System + loudspeaker At 182(c2i) +16(c3i) +2(c4i) + 100(loudspeaker in field) = 300 identified spots (locations) centrally regulated at C4i	1. As per section "I. Public Address System + loudspeaker" there are 300 PA locations, where as section "b. PAS - Technical Requirements and Compliance Sheet for MSI" at point no. 12 there are 200 PA locations mentioned. Kindly confirm on the Number of PA locations	As per RFP (Extra field 100 locations will be in field; locations will be provided by C-DAC/MSI at the time of deployment)	1. EFKON India Pvt. Ltd (1)
1400.	4.10 Field Devices- I. Public Address System + loudspeaker - 5/551 (1)	Software Client for making Calls to PA and ECB	1. There is no mention of ECB in BOQ or scope of work. Kindly clarify if the same needs to be included. If so, please add line item for ECB with quantities in BOQ.	Kindly refer corrigendum	1. Larsen & Toubro Ltd (1)
1401.	4.10 Field Devices-J.	1 KVA , 2 KVA, Point No. 1, Capacity	1.As per industry standard all small KVA Rating UPS Systems like 1 KVA & 2 KVA	Kindly refer corrigendum	1. Elkosta Security Systems India (1)



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	UPS(60 Minutes Backup)- 1KVA,2 KVA - 1/551 (6)		have 0.8 output power factor design with all major manufacturers, request you to accept 1 KVA / 800 Watts ad 2 KVA / 1600 watts UPS Systems also. 2. The single phase UPS rating from 1 kVA to 3 KVA comes with 0.8 output power factor whereas > 3 kVA upto 10 kVA comes with 0.9 output power factor. Please confirm.		2. Eaton Power Quality Pvt.Ltd. (1) 3. Schneider Electric (2) 4. Modi Infosol Pvt. Ltd. (1) 5. Telecommunications Consultants India Limited (1) 6. Tech Mahindra (1)
1402.	4.10 Field Devices-J. UPS(60 Minutes Backup)- 1KVA,2 KVA - 6/551 (1)	Input Configuration: 1Ph, L-N+PE (176 to 300Vac) +/- 3% on full load & shall support upto 110Vac for 60% load).	1. The single phase UPS system comes with 280V AC as upper voltage limit at full load and 110V AC at 50% load. Please confirm.	As per RFP (MSI can provide as per KVA requirement mention with load factor mention)	1. Schneider Electric (1)
1403.	4.10 Field Devices-J. UPS(60 Minutes Backup)- 1KVA,2 KVA - 11/552 (1)	Output voltage distortion-< = 2% max full linear load	1. In line with IEEE 519 standards, Single Phase UPS complied to < 3% THD@ linear load. Please confirm	Kindly refer corrigendum	1. Schneider Electric (1)
1404.	4.10 Field Devices-J. UPS(60 Minutes Backup)- 1KVA,2 KVA - 12/552 (1)	Output PowerFactor-0.9	1.The single phase UPS rating from 1 kVA to 3 KVA comes with 0.8 output power factor whereas & 3 kVA upto 10 kVA comes with 0.9 output power factor. Please confirm.	Kindly refer corrigendum	1. Schneider Electric (1)
1405.	4.10 Field Devices-J. UPS(60 Minutes Backup)- 1KVA,2 KVA - 17/552 (8)	1 KVA , 2 KVA, Point No. 17, Output Connection min 10Amps X 4 Nos. – C13 Type inbuilt to the UPS back.	1. As the UPS required is with external battery (large back-up) so the output standard socets available ar 3 x IEC C13 , 10 Amps. Please allow to offer 3 output sockets also.	Kindly refer corrigendum	1. Eaton Power Quality Pvt.Ltd. (1) 2. Modi Infosol Pvt. Ltd. (1) 3. Elkosta Security Systems India (1)



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			2. 1 KVA UPS comes with builtin 4 numbers of 5 A India socket. 2 KVA- Builtin 2 Numbers of IEC 320 C13 Please confirm. 3.Considering small rating UPS systems & having <9Amp Charger to charge the batterieis, we kindly request to change as "Minimum 5Amps X 3Nos. for 1KVA & Minimum 5Amps X 4Nos. for 2KVA – C13 Type inbuilt to the UPS back" & oblige. Johnson Controls : Considering small rating UPS systems & having <9Amp Charger to charge the batteries, we kindly request to change as "Minimum 5Amps X 3Nos. for 1KVA & Minimum 5Amps X 4Nos. for 2KVA – C13 Type inbuilt to the UPS back" & oblige.		4. Telecommunications Consultants India Limited (1) 5. Tech Mahindra (1) 6. Schneider Electric (2) 7. Microtek International Pvt. Ltd (3) 8. Suttantra (3) 9. Johnson Controls
1406.	4.10 Field Devices-J. UPS(60 Minutes Backup)- 1KVA,2 KVA - 22/552 (5)	1 KVA , 2 KVA, Point No. 22, Battery Back-up	1). The word" 30 Minutes" mentioned here looks to be a typo error. The back-up should be 60 minutes only. 2). The VAH mentioned for 1 KVA is very less, pls check and advice correct VAH. 3). Please Specify the VAH for 2 KVA also.	As per RFP	1. Eaton Power Quality Pvt.Ltd. (1,2,3) 2. Modi Infosol Pvt. Ltd. (1,2,3) 3. Elkosta Security Systems India (1,2,3) 4. Telecommunications Consultants India Limited (1,2,3) 5. Tech Mahindra (1,2,3)
1407.	4.10 Field Devices-J. UPS(60 Minutes Backup)- 1KVA,2 KVA – 23.5/553 (5)	1 KVA , 2 KVA, Point No. 23.5, Battery Back-up	1 KVA / 2 KVA UPS Systems are Generally Tower Type Only. These are sleek Models and can be kept vertical and horizontal both as required.	As per RFP	1. Eaton Power Quality Pvt.Ltd. (1) 2. Modi Infosol Pvt. Ltd. (1) 3. Elkosta Security Systems India (1)



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					4. Telecommunications Consultants India Limited (1) 5. Tech Mahindra (1)
1408.	4.10 Field Devices-K. Mobile hand held devices - 26/554 (1)	Mobile hand held devices for Police Officials: The tool to manage devices data security push device policies push custom apps reports management of applications and devices for example white list or blacklist applications URLs control device functionality as camera Bluetooth WIFI,4G Enabled, Private APN for SIM	1. 4G SIM with Pvt. APN required with Open Internet or MPLS cloud. Please clarify. In addition, Supply of SIMs should be in ISP/TSP scope; Qty, Data Usage detail and Type of SIM (Normal/Industry Grade) not defined in RFP.	As per RFP (MSI will be providing the handheld devices with SIM card)	1. Presto Infosolutions Pvt. Ltd. (1)

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1409.	4.11 Mobile Command Control Vehicle/555 (1)	Mobile Command Control Vehicle	1.Considering the power load of 5KVA UPS and air-condition, one 7.5 KVA genset may not suffice the power requirements for the MCCV 2.Please advise if the necessary HW to deploy the onboard VMS application in MCCV also to be considered and included in the techno commercial proposal, please confirm	1. As per RFP 2. Yes (already workstation has been considered, if any other hardware required MSI can quote the same being turnkey project)	1. Mistral Solutions Pvt Ltd(1) 2. NEC Corporation India Pvt. Ltd.(2)
1410.	4.11 Mobile Command Control Vehicle-K -1/555 (1)	2 SFP Port	Please specify the type of SFP ports req?	Kindly refer corrigendum	1. Sterlite Technologies Limited



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1411.	4.11 Mobile Command Control Vehicle-D/557 (1)	D. PC for Operator / Industrial PC based Network Video Recorder	For vehicle specialised Mobile Network video recorder used. Which is compatible with vehicle power and vibration environment by default. While asked PC based Network video recorder not standard as per market. Thus request you kindly amend it as per requirement to get best solution and its benefits.	As per RFP (Minimum is asked, MSI can quote better than asked in the specification)	1. Radius Infotech (P) LTD.
1412.	4.11 Mobile Command Control Vehicle-E -1/558 (4)	1. General: ONVIF, CGI, PSIA	1. General: ONVIF, CGI/PSIA/SDK/API Request you to allow integration options in options as suggested for the wider participation.	Kindly refer corrigendum	1. Globalrays Technologies 2. Triflex Solutions 3. Bodhtree 4. PruTech Solutions India Pvt. Ltd.
1413.	4.11 Mobile Command Control Vehicle-E -1/558 (1)	1/1.9" Progressive Scan CMOS or better	As most of the OEMs have 1/2.8" or 1/3" image sensors, therefore kindly amend it as: General: 1/2.8" or 1/3" Progressive Scan CMOS or better	Kindly refer corrigendum	1. BHARAT ELECTRONICS LIMITED 2. Johnson Controls 3. Lookman Electroplast Industries Ltd
1414.	4.11 Mobile Command Control Vehicle-E -2/558 (4)	2. Focal Length: 5.9-135.7mm, 23X or better	2. Focal Length: 4.5 mm – 135 mm or 4.3 mm - 129 mm or 4.8 mm - 144 mm or 6mm -180 mm, 30X or better As 23X is not standard optical zoom and is blocking the OEMs so request you to allow 30X optical zoom with same lens combinations which is asked in PTZ surveillance cameras section for the wider participations.	Kindly refer corrigendum	1. Globalrays Technologies 2. Triflex Solutions 3. Bodhtree 4. PruTech Solutions India Pvt. Ltd.
1415.	4.11 Mobile Command Control Vehicle-E -4/558 (1)	E. Vehicle Mast mounted PTZ Camera with Keyboard and Joystick Min. Working Distance: 10-	As most of the PTZ cameras have 100-1000mm working distance. Therefore, kindly amend it as: Min. Working Distance: 100-1000mm (Wide-Tele) or better	Kindly refer corrigendum	1. Johnson Controls



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		1500mm (Wide-Tele) or better			
1416.	4.11 Mobile Command Control Vehicle- E -5/558 (1)	E. Vehicle Mast mounted PTZ Camera with Keyboard and Joystick Camera Function: Auto iris, Auto focus, Auto white balance, Backlight compensation and auto day & night switch Min. Illumination: Color : 0.002Lux @ (F1.5, AGC ON), B/W : 0.0002Lux	Kindly amend it as: Camera Function: Auto iris, Auto focus, Auto white balance, Backlight compensation and auto day & night switch Min. Illumination: Color : 0.02Lux @ (F1.5, AGC ON), B/W : 0.002Lux @ (F1.5, AGC ON)	Kindly refer corrigendum	2. Johnson Controls
1417.	4.11 Mobile Command Control Vehicle- E -6/558 (1)	E. Vehicle Mast mounted PTZ Camera with Keyboard and Joystick Smart Functions: Image processing: shall support defog, HLC/BLC, Smart codec: low bit rate, ROI	Kindly amend it as: Shall support HLC/BLC, Smart codec: low bit rate, ROI	Kindly refer corrigendum	1. Johnson Controls
1418.	4.11 Mobile Command Control Vehicle- E -10/559 (5)	10. Pan & Tilt Functions: PT Number of Preset: 300	10. Pan & Tilt Functions: PT Number of Preset: 255 Request you to change the number of preset to 255 as this the standard nos. in Vehicle PTZ cameras. Since most of the MPTZ has 255 presets, therefore kindly amend it as: PT Number of Preset: 255 Generally that much presets are not being used in practical scenario.	Kindly refer corrigendum	1. Bodhtree 2. Johnson Controls 3. Globalrays Technologies 4. BHARAT ELECTRONICS LIMITED 5. PruTech Solutions India Pvt. Ltd. 6. Triflex Solutions
1419.	4.11 Mobile Command Control Vehicle-	12. IR: Up to 150m IR Light Source	12. IR: Up to 80m IR Light Source Request you to correct the IR range to 80m as asked in S. No. 1, also 80 m is standard in	Kindly refer corrigendum	1. Bodhtree 2. PruTech Solutions India Pvt. Ltd.



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	E -12/559 (4)		vehicle PTZ cameras.		3. Globalrays Technologies 4. Triflex Solutions
1420.	4.11 Mobile Command Control Vehicle- E -13/559 (9)	E. Vehicle Mast mounted PTZ Camera with Keyboard and Joystick Housing:IP67 rated IK10 rated for outdoor unit	1. Housing: IP66/67 rated IK10 rated for outdoor unit Request you to correct the housing rating to IP66 as asked in S. No. 1, also IP66 is more than enough in vehicle PTZ cameras. Vehicle mount Mobile PTZ camera comes with IP66 standard. Thus, requesting to please amend the clause as - Housing: IP66 rated for outdoor unit Kindly amend it as: "• IP66 Enclosure - IP rated as ""dust tight"" and protected against heavy seas or powerful jets of water. • IP 67 Enclosures - IP rated as ""dust tight"" and protected against immersion. • Please share the need of IP67 certificate as cameras will be deployed on Poles and thus at a sufficient height where they don't have an application of being 'immersed in water'. Requesting you to amend the Clause as : IP66/IP67 rated, IK10 rated for outdoor use" 2. NEMA 4X and IP67 rated IK10 are similar thus certifications for both may not be available in the same product. Recommend to make it either of these	Kindly refer corrigendum	1. Bodhtree 2. PruTech Solutions India Pvt. Ltd. 3. Radius Infotech (P) LTD. 4. Johnson Controls 5. Samriddhi Automations Pvt Ltd (SPARSH): 6. Globalrays Technologies 7. VOLKSARA TECHNO SOLUTIONS PRIVATE LIMITED 8. Triflex Solutions 9. Mistral Solutions Pvt Ltd
1421.	4.11 Mobile Command Control Vehicle-	14. Certifications CE, FCC, UL/cUL, BIS, NEMA 4X	14. Certifications: CE, FCC, UL/cUL, BIS, NEMA 4X/IP66 NEMA 4X rating is equivalent to IP66 rating	Kindly refer corrigendum	3. Bodhtree 4. PruTech Solutions India Pvt. Ltd.



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	E -14/559 (8)		of the products so request you to allow IP66 certificate as an option with NEMA 4X for wider participation. https://www.siemon.com/en/home/support/compliance/nema-ratings-and-ip-equivalents NEMA 4X is used primarily to provide a degree of protection against corrosion. For other protection like protection against dust and rain, splashing water etc. is supported by IP66/IP67 as well. NEMA 4X certification is supported by anticorrosion cameras which will indirectly increase the cost of overall solution. NEMA 4X and IP66/IP67 are usually in options. Thus, requesting to please amend the clause as - Certification: CE/FCC, UL/cUL, BIS, NEMA 4X / IP66 Thus, requesting to please amend the clause as - Certification: CE/FCC, UL/cUL, BIS, NEMA 4X / IP66 UL/cUL and NEMA-4X are foreign certifications. BIS is an Indian equivalent certificate to UL/cUL and is covered as mandatory certification for CCTV cameras as per CRO. IP66 is an Indian equivalent certificate to NEMA-4X and both are used for water and dust protection for outdoor environment. Ministry of Finance had issued an Office Memorandum dated 12th May 2020 which emphasising the mandatory use of Indian Standards in Technical Specifications. wherever Indian Technical specifications and Quality Certifications exist, the procuring entity		5. Triflex Solutions 6. Radius Infotech (P) LTD. 7. Radius Infotech (P) LTD. 8. Samriddhi Automations Pvt Ltd (SPARSH): 9. Globalrays Technologies 10. VOLKSARA TECHNO SOLUTIONS PRIVATE LIMITED



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			should prescribe them, Asking mandatory foreign certifications like UL/cUL and NEMA-X is a restrictive clause for Indian OEMs as per the clause no "10. Specifications in Tenders clause e" on page no 7 of DPIIT Public Procurement (preference to Make-in -India) order 2017 dated 16th September, 2020." "Specific Foreign Certifications/unreasonable technical specifications /brands/models in the bid document is restrictive and discriminatory practise against local suppliers		
1422.	4.11 Mobile Command Control Vehicle- E -7/559 (1)	E. Vehicle Mast mounted PTZ Camera with Keyboard and Joystick Network Functions:H.265,H.264,MJPEG video compression H.264&H.265 encoding with Baseline/Main/High profile ROI(Region of Interest) encoding Built-in Web server Multiple	As most of the mobile PTZ has H.264 compression therefore kindly amend it as: Network Functions:H.265/H.264,MJPEG video compression H.264&H.265 encoding with Baseline/Main/High profile ROI(Region of Interest) encoding Built-in Web server Multiple network protocols supported: IPv4/Ipv6, HTTP, HTTPS, 802.1X, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE	Kindly refer corrigendum	1. Johnson Controls
1423.	4.11 Mobile Command Control Vehicle- E -9/559 (7)	9. Connections: Network Protocols: ATP, Telnet, ODP, TCP, IP, HTTP, IGMP, ICMP, ARP, SNMP, ONVIF	9. Connections: Network Protocols: ATP, Telnet, ODP, TCP, IP, HTTP, IGMP, ICMP, ARP, SNMP, ONVIF ATP is for P2P network which is not required in the solution defined in the RFP & ODP are very specific to microsoft and every OEM have their own method to integrate the API/SDK so request you to remove these protocols. Kindly amend it as:	Kindly refer corrigendum	1. PruTech Solutions India Pvt. Ltd. (1) 2. Bodhtree (1) 3. BHARAT ELECTRONICS LIMITED (2) 4. Globalrays Technologies (1) 5. Triflex Solutions (1) 6. Radius Infotech (P) LTD.



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			Network Protocols: ATP, Telnet, TCP, IP, HTTP, IGMP, ICMP, ARP, SNMP, ONVIF ODP is not much useful in case of CCTV Cameras Triflex Solutions 9. Connections: Network Protocols: ATP, Telnet, ODP, TCP, IP, HTTP, IGMP, ICMP, ARP, SNMP, ONVIF ATP is for P2P network which is not required in the solution defined in the RFP & ODP are very specific to microsoft and every OEM have their own method to integrate the API/SDK so request you to remove these protocols.		7. Johnson Controls 8. Triflex Solutions
1424.	4.11 Mobile Command Control Vehicle-F -10/560 (5)	10. Auto adjustment: Color, brightness, sharpness, contrast, white balance, exposure control, backlight compensation, Gain Control, Electronic Image Stabilization	10. Auto adjustment: Color, brightness, sharpness, contrast, white balance, exposure control, backlight compensation, Gain Control, Electronic Image Stabilization Request you to remove EIS as this is applicable only for the cameras which is having Pan & Tilt functionality. Requesting you to please amend the feature as - Auto adjustment: Color, brightness, sharpness, contrast, white balance, backlight compensation, Gain Control.	As per RFP	1. Triflex Solutions (1) 2. Bodhtree (1) 3. PruTech Solutions India Pvt. Ltd. (1) 4. Radius Infotech (P) LTD.(2) 5. Globalrays Technologies(1)
1425.	4.11 Mobile Command Control Vehicle-F -12/560 (2)	12. Housing IP67 rated IK10 rated for outdoor unit	Vehicle mount Mobile camera comes with IP66/IP67 standard. Thus, requesting to please amend the clause as - Housing: IP66/IP67 rated for outdoor unit	Kindly refer corrigendum	1. VOLKSARA TECHNO SOLUTIONS PRIVATE LIMITED 2. Radius Infotech (P) LTD. 3. Samriddhi Automations Pvt Ltd (SPARSH):
1426.	4.11 Mobile Command	13. Certifications CE, FCC, UL/cUL, BIS, NEMA 4X	13. Certifications: CE, FCC, UL/cUL, BIS, NEMA 4X/IP66	Kindly refer corrigendum	1. Triflex Solutions 2. Bodhtree



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	Control Vehicle- F -13/560 (2)		NEMA 4X rating is equivalent to IP66 rating of the products so request you to allow IP66 certificate as an option with NEMA 4X for wider participation. https://www.siemon.com/en/home/support/compliance/nema-ratings-and-ip-equivalents NEMA 4X is used primarily to provide a degree of protection against corrosion. For other protection like protection against dust and rain, splashing water etc. is supported by IP66/IP67 as well. NEMA 4X certification is supported by anticorrosion cameras which will indirectly increase the cost of overall solution. NEMA 4X and IP66/IP67 are usually in options. Thus, requesting to please amend the clause as - Certification: CE/FCC, UL/cUL, BIS, NEMA 4X / IP67		3. Globalrays Technologies 4. VOLKSARA TECHNO SOLUTIONS PRIVATE LIMITED 5. PruTech Solutions India Pvt. Ltd. 6. Radius Infotech (P) LTD. 7. Samriddhi Automations Pvt Ltd (SPARSH):
1427.	4.11 Mobile Command Control Vehicle- G -2/561 (2)	G. Video Management System: Video Viewing: c.) Play Audio Alert on Motion	This is OEM specific requirement. Please remove.	Kindly refer corrigendum	1. Honeywell Automation India Ltd. 2. Honeywell
1428.	4.11 Mobile Command Control Vehicle- G -5/561 (2)	G. Video Management System: Camera Settings: Saturation Iris Frame Rate (5-30fps) Bit Rate (64kbps-4.6mbps) Auto Low Light Mode Environment Settings Flicker Settings	This is OEM specific requirement. Please remove.	Kindly refer corrigendum	1. Honeywell Automation India Ltd. 2. Honeywell
1429.	4.11 Mobile Command	Analytics: The minimal analytics	We understand from minimal analytics requirement is for basic analytics like	Kindly refer corrigendum	1. Honeywell Automation India Ltd.



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	Control Vehicle- G -8/562 (2)	features should be part of the VMS for the cameras.	motion detection and tamper detection. Please confirm. We understand from minimal analytics requirement is for basic analytics like motion detection and tamper detection. Please confirm.		2. Honeywell

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1438.	4.12/568 (1)	Network- Connectivity Backbone The Networking infrastructure and the associated bandwidth measures to operate the entire infrastructure on field for video stream dissemination from field devices to Data Center,integration with external Govt. datasets and conduction of Post Analytical Operations with all security parameters in place will be the responsibility of the Internet Service Provider (ISP). The ISP will be the Networking Agency, who will be appointed through a distinct Competitive Bid Process.	We understand that Bandwidth required for the Project shall be provided by Internet Service Provider (ISP) which shall be appointed by customer and payment of same shall be through a Tripartite agreement. Hence MSI for this project shall not include any Cost towards Network Extension & Bandwidth in this bid. Request you to confirm the same.	MPLS and ILL are in the scope of ISP.	1. Larsen & Toubro Ltd
1439.	4.12 A/568 (1)	A Planning and Execution : The MSI will ensure all coordination help to the ISP to execute list of activities for laying of fiber cables for	We understand that Point-to-point bandwidth can be provided only by Telecom Service provider (TSP) licensee and ISPs are not allowed to offer point-to-point	As per RFP	6. Sterlite Technologies Limited



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		installation of the network backbone work to ensure desired last mile Connectivity starting from site survey of respective locations, laying and installation of various cables, hardware, UAT, Testing and signoff. All the ISP dependencies on the MSI for final stitching of the solution requirement to operationalize the system will be addressed proactively with the objective that the project does not suffer towards the tailing stages of the project.	bandwidth. Hence request you to amend the clause to replace ISP with TSP.		
1440.	4.12 A i/568 (1)	A. Planning & Execution i. ROW application to be submit in various Municipal and Development Offices. ii. ROW demand note received from authority. v. Liaisoning with authority for ROW permission ix. Duct laying started post ROW receive	1. MSI will take care of Planning and Execution for scope related to Connectivity at field from Junction box to till cameras and field devices. It will be responsibility of the MSI to ensure all Liaoning and coordination with the Govt. Authorities to get the RoW and restoration work done for their specified scope only. ISP has to take care for their piece of work including ROW and respective charges. Kindly amend this clause accordingly. Please confirm who will be bearing the Applicable RoW Charges for duration of this Project. 2. MSI will take care of Planning and Execution for scope related to	1. Kindly refer RFP in detail. (This planning and execution mention in RFP where MSI scope is mention has to take care by MSI, Whereas for ISP scope refer ISP RFP in detail of safe city Delhi project). 2. Kindly refer RFP in detail. (This planning and execution mention in RFP where MSI scope is mention has to take care by MSI, Whereas for ISP scope	1. Presto Infosolutions Pvt. Ltd.(1,2) 2. NEC Corporation India Pvt. Ltd.(1,2) 3. Presto 4. Online Micro Services 5. EFKON India



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			Connectivity at field from Junction box to till cameras and field devices. It will be responsibility of the MSI to ensure all Liaoning and coordination with the Govt. Authorities to get the RoW and restoration work done for their specified scope only. ISP has to take care for their piece of work including ROW and respective charges. Kindly amend this clause accordingly. 3. As per the experience we have in Delhi and other Cities, the ROW permissions are normally provided by the client. ROW permissions for a private party is a challenge and will delay the project enormously. The ROW permissions are given to Government departments without much hassels. hence we request you to consider these works in the Clients scope 4. We understand ROW charges, if any shall be reimbursed. Please confirm.	refer ISP RFP in detail of safe city Delhi project) 3. As per RFP 4. As per RFP	
1441.	4.12 A/569 (2)	Network- Connectivity Backbone: a. Planning & Execution; The following essential activities to be coordinated by the MSI as per the requirement (if any) to enable ISP for execution of implementation activities and services to ensure time bound completion	MSI will take care of Planning and Execution for scope related to Connectivity at field from Junction box to till cameras and field devices. It will be responsibility of the MSI to ensure all liasoning and coordination with the Govt. Authorities to get the RoW and restoration work done for their specified scope only. ISP has to take care for thier piece of work including ROW and respective charges. Kindly amend this clause accordingly.	Kindly refer RFP of MSI and ISP of safe city in detail	1. presto 2. Presto Infosolutions Pvt. Ltd.



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1442.	4.12 A/569 (2)	The following essential activities to be coordinated by the MSI as per the requirement (if any) to enable ISP for execution of implementation activities and services to ensure time bound completion of under mentioned infrastructure laying targets: i. ROW	i) We understand that the documentation and obtaining RoW permission is in the scope of ISP for which a different RFP is to be floated by CDAC. SI only needs to provide the required information for filing the ROW application. Kindly confirm ii) ROW if required for implementation of surveillance system in the field shall be reimbursed at actuals by CDAC (tendering agency). Understand that all the permissions required by the ISP to provide backhaul Bandwidth will be taken care by respective ISPs. The MSI will not have any role in obtaining the ROW/ other permissions as the backhaul bandwidth is being procured through a separate RFP. Please confirm	Kindly refer RFP of MSI and ISP of safe city in detail	1. HFCL Limited 2. Sterlite Technologies Limited
1443.	4.12 A viii/569 (1)	Network- Connectivity Backbone viii. Manual digging or with HDD machine depends the track is hard rock/concrete/simple track.	We understand that MSI shall be responsible for trenching & Restoration works but we request that the Charges required for Reinstatement to be paid by the Authority directly to various Municipal and Development Offices. Inclusion of these charges in the Bid shall unnecessary increase the Bid Prices. Request your confirmation for same.	As per RFP	1. Larsen & Toubro Ltd
1444.	4.12 B/569 (1)	B. Bandwidth estimated requirement	Can bidder allowed to do bandwidth estimation based on camera model selected and experience?	Bandwidth is in ISP scope, where MSI can suggest	1. NEC Corporation India Pvt. Ltd.
1445.	4.13 Service Level Agreement/570 (1)	Service Level Agreement for Project Implementation for MSI Table 1: SLA Performance Level.	The points given for baseline Matrix is not 100 points. The total points given for this is 85.5. Request you to kindly clarify on this.	Kindly Refer Appendix 13 (SLA)	1. Matrix Security & Surveillance Pvt Ltd



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1446.	4.13 Service Level Agreement/570 (3)	SLA	(1) We submit that SLA penalty should be capped at 10% of quarterly invoice value. (2) Since clause 2.1.21(f) states that timeline for team mobilization is T+45 days, we request that the target for Team Mobilization under clause 4.13(a) be modified to T+6 weeks.	Kindly Refer Appendix 13 (SLA)	1. Hewlett Packard Enterprise India Private Limited 2. HPE
1447.	4.13 - Measurement of SLA/571 (2)	Measurement of SLA: * The MSI will get 100% of the Contracted value (Net Project Cost) if all the baseline performance metrics are compiled and the cumulative credit points are 100 * The MSI will get lesser payment in case of the lower performance. (For e.g. if SLA point score is 80 then the MSI will get 20% less on the quarterly payment) * If the performance of the MSI in respect of any parameter falls below the prescribed lower performance limit, debit points are imposed for the breach.	This clause is contradictory with ref. to clause 2.1.19 of Liquidated Damages where in penalty is charged on delayed goods or unperformed services only. Kindly amend this clause accordingly.	Kindly Refer Appendix 13 (SLA)	1. Presto Infosolutions Pvt. Ltd.
1448.	4.13 - Measurement of SLA/572 (2)	Penalties to be levied during Post Implementation period shall be capped at 10% of the Total Project Cost.	Penalties to be levied during Post Implementation period shall be capped at 10% of the Quarterly O&M Cost.	Kindly Refer Appendix 13 (SLA)	1. Honeywell Automation India Ltd. 2. Honeywell
1449.	4.13 - Measurement of	Service Level Agreement for Project Implementation for MSI Total penalties to be	We request you to amend the clause as, "Total penalties to be levied on the MSI shall be capped at 10% of the Total Project Cost.	Kindly Refer Appendix 13 (SLA)	1. Larsen & Toubro Ltd(1) 2. Sterlite Technologies Limited(2)



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	SLA/572 (1)	levied on the MSI shall be capped at 10% of the Total Project Cost. However, the Authority would have right to invoke termination of the contract in case the overall penalties	However, the Authority would have right to invoke termination of the contract in case the overall penalties equals 10% of Total Project Cost. Penalties to be levied during Post Implementation period shall be capped at 10% of the Total Opex Cost Project Cost. The Authority would also have right to invoke termination of contract in case cumulative debit point (breach points) are above 30 in two consecutive quarters." Request you to kindly amend the clause as below: Total Yearly penalties to be levied on the MSI shall be capped at 10% of the Quarterly O&M Total Project Cost		
1450.	4.13 - Measurements & Targets -a/573 (2)	Data Center and Surveillance related Performance Levels/ Camera Feed and Quality: The SLA metrics provided specifies performance parameters as baseline performance, lower performance and breach. All SLA calculations will be done on quarterly basis. The SLA also specifies the liquidated damages for lower performance and breach conditions. Payment to the MSI is linked to the compliance with the SLA metrics for various components involved.	1. Maximum SLA penalty should not be more than 10% as per standard SLA norms. 2. You are also requested to kindly specify the payment %age if the score falls between 81 to 99 scores.	Kindly Refer Appendix 13 (SLA)	1. Presto Infosolutions Pvt. Ltd.



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		The matrix specifies three levels of performance namely,			
1451.	4.13 - Measurements & Targets -a 1/573 (2)	Measurements & Targets - MSI must mobilize its complete project team as expected with in 7 days. Penalty Amount per instance of non- compliance/ fault:	This is too stringent clause since no MSI can start the onbaording process and to mobilize the team without the PO and contract in place. In addition, this is contracdictory with ref. clause 2.1.21.f wherein MSI is expected to reporting and availability of resources (90% Key personnel as per the RFP requirement at C-DAC office for the project within 30 days from the Award of the Contract and remaining 10% in next 15 days). Kindly amend this clause accordingly. This is too stringent clause since no MSI can start the onbaording process and to mobilize the team without the PO and contract in place.	Kindly Refer Appendix 13 (SLA)	1. Presto Infosolutions Pvt. Ltd.
1452.	4.13 - Measurements & Targets -a 1/573 (1)	Team mobilization and commencement of work 1) Delay beyond 7 calendar days = 0.5% of the contract value 2) Delay beyond 15-30 calendar days = 0.6% of the contract value 3) Delay beyond 30 days = 0.7% of the contract value per week or may lead to Termination of the Contract at the discretion of TSP (C-DAC).	We understand that SI shall be responsible for overall delivery of the project as per scope of work within the timeline specified in RFP. So we request you to reduce this penalty and kindly amend the as below and allow the MSI to deploy the Resources as per Project actual requirement:- Team mobilization and commencement of work 1) Delay upto 15 calendar days = 0.01% of the contract Capex value 2) Delay upto 16-90 calendar days = 0.03% of the contract Capex value 3) Delay beyond 90 calendar days= 0.05% of the contract Capex value till Manpower deployment	Kindly Refer Appendix 13 (SLA)	1. Larsen & Toubro Ltd



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1453.	4.13 Service Level Agreement - General/573 (1)	General	The availability range in the all SLA parameters is very large and discourages corrective action by the MSI since as soon as the availability falls below the threshold, penalty levied is disproportionate to the degradation/impact on project objectives. It is therefore requested that 1 mark is deducted for every 1% fall in availability so that the MSI is encouraged to not let the availability drop to the next 1% instead of the current range of 5% or so. This is critical to have a balanced approach towards keeping the performance in check and incentivizing the MSI towards taking corrective actions.	Kindly Refer Appendix 13 (SLA)	1. Sterlite Technologies Limited
1454.	4.13 - Measurements & Targets -a /574 (2)	Table 1: SLA Performance Level	As per the RFP, total points is 85.5 instead of 100 including SLAs pertaining to backhaul connectivity. Since the backhaul connectivity is to be procured through a separate tender, we request that the SLAs are revisited to exclude those SLAs and also correct the total SLA marks. Understand that any outage due to input power failure beyond the UPS Back-up time will be excluded from the SLA calculations. Kindly confirm. Understand that any damage due to reasons beyond the control of MSI will be excluded from SLA calculation and the Downtime shall be calculated only from the time site is free of all encumbrances. For incidents causing damage to the pole/foundation itself, the incident shall be wholly excluded from downtime. Please confirm	Kindly Refer Appendix 13 (SLA)	1. Sterlite Technologies Limited



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1455.	4.13 Security Breach SLA - Note/578 (1)	Table 1: SLA Performance Level Note: During post-implementation period, in case the pole /outdoor cabinets or any other field equipment is damaged by a vehicular Accident (or due to any other reason outside the control of MSI)and needs repair/replacement,	As per the RFP, total points is 85.5 instead of 100 including SLAs pertaining to backhaul connectivity. Since the backhaul connectivity is to be procured through a separate tender, we request that the SLAs are revisited to exclude those SLAs and also correct the total SLA marks. Understand that any outage due to input power failure beyond the UPS Back-up time will be excluded from the SLA calculations. Kindly confirm. Understand that any damage due to reasons beyond the control of MSI will be excluded from SLA calculation and the Downtime shall be calculated only from the time site is free of all encumbrances. For incidents causing damage to the pole/foundation itself, the incident shall be wholly excluded from downtime. Please confirm	Kindly Refer Appendix 13 (SLA)	1. Sterlite Technologies Limited
1456.	4.13 SLA Matrix - 1/578 (1)	MSI should keep minimum 5% spare at any given point of project execution.		NA	1. NEC Corporation India Pvt. Ltd.
1457.	4.13 Explanation Notes for SLA Matrix- C/580 (1)	Explanation Notes for SLA Matrix : C. Quality of Feed The average availability of the quality of feed should be at 99.94%. This period is excluding the period of unavailability of camera. (i.e. the camera video quality would be judged for the period its a	The SLA for Quality of feeds shall not be applicable to MSI as it's the responsibility of the Network Service Provider. Hence request you to remove the same from MSI Scope and add in ISP Scope.	Kindly Refer Appendix 13 (SLA)	1. Larsen & Toubro Ltd



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1458.	4.14 a/583 (6)	4.14 CHANGE Management- Training, Capacity Building Capacity building a. Creating awareness about the benefits of Safe City Project and specialized application skills. b. Role-based training for people at different levels of monitoring and control. c. "Train the Trainer" programs, where members of the staff would be trained to enable them to conduct further training programs, thus helping build up scalability in the training program and also reducing the dependency on external vendors for training.	Training: It is recommended that MSI shall arrange for OEM education/training & certification for officers required technical nominated staff for Familiarization of solution at the pre SRS stage and Knowledge transfer training within three months of sign off and further thereafter once in every year for the O&M team and resources involved in operations of software solution. This will ensure tools are properly updated and used to protect project interest.	As per RFP (MSI has to plan accordingly)	1. Micro Focus Software Solution India Private Limited (earlier Called as Hewlett Packard Software - HPE Software) 2. iValue InfoSolutions Pvt. Ltd. 3. PruTech Solutions India Pvt. Ltd. 4. Madras Security Printers Pvt.Ltd 5. Bodhtree
1459.	4.14 Other Capacity Building Initiatives/585 (2)	Other Capacity Building Initiatives: a. Throughout the duration of the implementation of safe city project, Delhi Police shall try and leverage to the extent possible, existing training institutions including Police Training College, Recruitment training Center, IT training Center	Few of the training scope concepts under Capacity building initiatives shall be clearly defined with commercial consideration (if any). So that bidder can work on proposed aspects as well. Accordingly, there is mismatch in scope of work activities and BOQ like GIS Mapping, Training, AC Specifications, etc. What will be role of MSI? Please clarify.	No Answer	1. Presto Infosolutions Pvt. Ltd.



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		and other CCTNS training institutes to train the existing and new recruits in the Delhi Police in order to compensate the additional requirement of trained personnel with the expansion of the project year on year.			
1460.	4.15/586 (1)	DC & C4i drawings The details of the drawing and other details will be shared post the signing of the Non- Disclosure agreement with MSI.	Request you to provide some basic details regarding DC & C4I like Approx Area for Interiors & Partitioning activities.	After Sign of NDA , CDAC will provide details , MSI can contact C-DAC.	1. Larsen & Toubro Ltd
1461.	4.17 i/587 (2)	Certifications for Project components: Further, the entire project will be subjected to STQC and a Third-Party Implementation Audit by CERT-IN empaneled agency before Go-live operations, which will certify the project implementation as good to proceed with Operation and Maintenance phase in line with the RFP. Also, Third Party Security and Network Performance Audits will be performed every quarter of year by CERT-IN empaneled agency	Throughout the RFP Audit duration is defined as Yearly/Quartely/Half Yearly. Hence the audit timeline not clear about any service. Ideally audit clause should be defined only at one place to remove the confusion. Delhi Police/CDAC should co-ordinate with participating parties for any of the audit (MSI/ISP). Throughout the RFP Audit duration is defined as Yearly/Quartely/Half Yearly. Hence the audit timeline not clear about any service. Ideally audit clause should be defined only at one place to remove the confusion. Delhi Police/CDAC should co-ordinate with participating parties for any of the audit (MSI/ISP).	No Answer	1. Presto Infosolutions Pvt. Ltd.
1462.	4.17 1/588 (1)	C4i Design and Standards Green guard gold Certified (Modular Metal Ceiling,	Kindly remove these certificates in order to allow multiple OEM Participation.	Minimum certification is asked, any other government approved	1. Larsen & Toubro Ltd



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		Flooring & Modular Metal wall paneling) Integrated Ceiling & Paneling: UL certified The Modular Metal Paneling, Modular Control Desks and Designer Metal Ceiling shall be RoHS certified		similar certification can be provided by MSI for approvals of command control center.	
1463.	4.17 1/588 (4)	Green guard gold Certified (Modular Metal Ceiling, Flooring & Modular Metal wall paneling)	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particular vendor.	As per RFP : (Greenguard Gold Certificate is an open quality certificate to provide & ensure better air quality to the users in the control room without affecting their health. This certification is not proprietary to any single OEM/company & many supplies	1. Transline Technologies Pvt. Ltd. 2. Cosmos-Manufacturers 3. INTEC INFONET PVT. LTD. 4. Marushika Technology Advisors Pvt. Ltd.
1464.	4.17 1/588 (4)	Illumination: - Control Room illumination shall be designed as per ISO 11064 norms.	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be	As per RFP	1. Transline Technologies Pvt. Ltd. 2. Cosmos-Manufacturers 3. INTEC INFONET PVT. LTD. 4. Marushika Technology Advisors Pvt. Ltd.



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			generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particular vendor.		
1465.	4.17 1/588 (4)	Integrated Ceiling & Paneling: UL certified	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particular vendor.	As per RFP : (Already ask for different certifications - UL/NABL/Government approved test laboratory certified audited certified)	1. Transline Technologies Pvt. Ltd. 2. Cosmos-Manufacturers 3. INTEC INFONET PVT. LTD. 4. Marushika Technology Advisors Pvt. Ltd.



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1466.	4.17 1/588 (4)	Monitor Arm: - UL certified	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particular vendor.	As per RFP (Minimum specifications are provided. For any working control rooms this feature is necessary as it allows quick & easy replacement of monitors and ensures reduced downtimes. This is an open certificate and is not proprietary to any single OEM/	1. Marushika Technology Advisors Pvt. Ltd. 2. Transline Technologies Pvt. Ltd. 3. Cosmos-Manufacturers 4. INTEC INFONET PVT. LTD.
1467.	4.17 1/588 (4)	Table-top: ANSI/NEMA LD3 certified scratch-resistant Laminate	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particular vendor.	As per RFP : This certificate analyses exchanges that takes place in the environment, it enables decision-makers to select the product or process that result in the least impact to the environment, this is as per the government's requirement of ZED Zero-d	1. Marushika Technology Advisors Pvt. Ltd. 2. Transline Technologies Pvt. Ltd. 3. Cosmos-Manufacturers 4. INTEC INFONET PVT. LTD.
1468.	4.17 1/588 (4)	Test certification for ASTM D2571 for the surface	It is evident from the red highlighted specification that this RFP has made to	As per RFP	1. Marushika Technology Advisors Pvt. Ltd.



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		burning characteristics of Modular furniture	favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particular vendor.		2. Transline Technologies Pvt. Ltd. 3. Cosmos-Manufacturers 4. INTEC INFONET PVT. LTD.
1469.	4.17 1/588 (4)	The Console OEM should be an FSC Certified manufacturer	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particular vendor.	As per RFP	1. Marushika Technology Advisors Pvt. Ltd. 2. Transline Technologies Pvt. Ltd. 3. Cosmos-Manufacturers 4. INTEC INFONET PVT. LTD.
1470.	4.17 1/588 (4)	The Modular Metal Paneling, Modular Control Desks and Designer Metal Ceiling shall be RoHS certified	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur).	As per RFP : (RoHS certificate stands for Restriction of Hazardous Substances like Nickel,	1. Marushika Technology Advisors Pvt. Ltd. 2. Transline Technologies Pvt. Ltd.



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			There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particular vendor.	Cadmium etc. The restricted materials are hazardous to the environment and pollute landfills and are dangerous in terms of occupational exposure during manufacturing	3. Cosmos-Manufacturers 4. INTEC INFONET PVT. LTD.
1471.	4.17 1/588 (4)	Tiles Perforation - UL certified	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particular vendor.	As per RFP : (Already ask for different certifications - UL/NABL/Government approved test laboratory certified audited certified) Acoustics is the main concern of the control room design & at times to achieve acoustics the OEMs/vendors use bigger perfo	1. Marushika Technology Advisors Pvt. Ltd. 2. Transline Technologies Pvt. Ltd. 3. Cosmos-Manufacturers 4. INTEC INFONET PVT. LTD.



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1472.	4.17 1/588 (4)	'UL Certified design feature of Load bearing capacity of Paneling	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particular vendor.	As per RFP : (Already ask for different certifications - UL/NABL/Government approved test laboratory certified audited certified) This feature the rigidity & robustness of the proposed solution and to avoid any kind of generic compliances	1. Marushika Technology Advisors Pvt. Ltd. 2. Transline Technologies Pvt. Ltd. 3. Cosmos-Manufacturers 4. INTEC INFONET PVT. LTD.
1473.	4.17 1/588 (4)	UL Certified design feature of Modular wall Paneling	It is evident from the red highlighted specification that this RFP has made to favour one single vendor i.e. M/s Pyrotech Workspace Solutions Pvt. Ltd. (Udaipur). There are more than 50 different items required for interior job of any Control Room but the special certification and evidence reports asked for are only for the items which are inhouse manufactured by Pyrotech Workspace Solutions Pvt. Ltd. Interior work of control room should be generic to attract more bidders but this specific RFP is clear violation of Central Vigilance Commission's Circular no. 14/4/07 dated 30th April 2007, issued against usage of standard specification of any particular vendor.	As per RFP (Already ask for different certifications - UL/NABL/Government approved test laboratory certified audited certified) As control room is a mission critical area an	1. Marushika Technology Advisors Pvt. Ltd. 2. Transline Technologies Pvt. Ltd. 3. Cosmos-Manufacturers 4. INTEC INFONET PVT. LTD.
1474.	4.17 17/589 (2)	ICSA certified WAF functionality.	Requesting to refer Para No. 8 on page no. 4 of Govt. of India MEITY File No. 1(10)/2017-	MSI can provide EAL / MII / ICSA certification	1. Haltdos Inc 2. Suttantra



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			CLES dated 6th Dec, 2019 on Public Procurement (Preference to Make in India) Order 2019 for Cyber Security Products which clearly notifies in any procurement process ,the procuring entity shall not specify any mandatory certifications issued by any foreign testing/ security lab(s)/ which restricts eligibility of Indian cyber security products .However you can consider for Certification from STQC Govt. Of India to allow Make In India solutions to participate in this tender. https://meity.gov.in/writereaddata/files/public_procurement-preference_to_make_in_india-order_2019_for_cyber_security_products.pdf		
1475.	4.17 19/589 (4)	19. Outdoor Fixed Camera - 4MP 20. Outdoor PTZ Camera - 4MP, 30x Optical Zoom 21. Outdoor Fixed ANPR Camera with IR Illuminator- 2MP Certifications - CE, FCC, UL/cUL, BIS, NEMA 4X compliant	19. Outdoor Fixed Camera - 4MP 20. Outdoor PTZ Camera - 4MP, 30x Optical Zoom 21. Outdoor Fixed ANPR Camera with IR Illuminator- 2MP Certifications - CE, FCC, UL/cUL, BIS, NEMA 4X/IP66 compliant NEMA 4X rating is equivalent to IP66 rating of the products so request you to allow IP66 certificate as an option with NEMA 4X for wider participation. https://www.siemon.com/en/home/support/compliance/nema-ratings-and-ip-equivalents	Kindly refer corrigendum	1. Globalrays Technologies 2. Triflex Solutions 3. Bodhtree 4. PruTech Solutions India Pvt. Ltd.



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1476.	4.17 9/589 (3)	Pink VERIFY certification on at least 6 available ITIL processes	Pink Verify certification should be removed. Under the guidelines of MOUD-GOI Pink verify certification is restrictive for Make in India facilitation. Please consider for removing this clause as there are other Indian- global players which are performing as to meet the project requirement highly competitively even without this certification.	Kidly Refer Corrigendum.	1. Marushika Technology Advisors Pvt. Ltd. 2. Transline Technologies Pvt. Ltd. 3. INTEC INFONET PVT. LTD.
1477.	4.18/590 (1)	4.18 Coordinates of all Police Stations (C2i locations)-district wise and the status of civil infrastructure The details of the location and coordinates of the sites will be shared post the signing of the Non-Disclosure agreement with MSI.	1. As per RFP, the locations along with Camera Deployment details are not mentioned, kindly share the same for actual calculation of the Non-IT Bill of material and network connectivity (MPLS) Feasibility check at the respective locations.	MSI can sign NDA with C-DAC and details will be shared accordingly	1. NEC Corporation India Pvt. Ltd.
1478.	4.19/590 (1)	4.19 Location details of 3351 field sites and the respective number of deployable cameras The details of the location and coordinates of the sites will be shared post the signing of the Non-Disclosure agreement with MSI.	As per Price Bid (Chapter-5) there are 4633 nos. of field junction box, field switches, UPS etc. This suggests there will be 4633 nos. of locations, whereas section 4.19 says 3351 field sites. Kindly confirm the exact field sites to consider electricity meter connections.	Exact field locations are 4633	1. EFKON India Pvt. Ltd
1479.	4.19 /591 (1)	The details of the location and coordinates of the sites will be shared post the signing of the Non-Disclosure agreement with MSI.	Need clarification	MSI can sign NDA with C-DAC and details will be shared accordingly	1. RAH InfoTech (P) Ltd 2. NEC Corporation India Pvt. Ltd.



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1480.	4.19 /591 (1)	Further to above, I wish to mention here that Safe City project are amalgamation of various technologies and integrating them to a central Integrated Command & Control Center. Such projects are smartly Designed, Integrated & Deployed by contribution from		NA	1. Vehant TECHNOLOGIES

Sr No	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
1.	"C4i platform (software)- Technical Requirements and Compliance Sheet for MSI : Technical specification , C - Native Map module (Both GIS and Offline Maps): s.No 1/219	It shall be possible to configure a mixed set of maps made of GIS, online providers and private imported files and link them together.	Is License for GIS online and offline layers will be procured by Safe City Project Team?	As per RFP (C-DAC Will share the GIS map data with the successful bidder.)	Hitachi Vantara
2.	NA	Additional Clause	Request to add clause for giving preference to ' Make In India Cyber Security Products /Solutions ' and granting purchase preference to Local manufacturer Kindly refer to Ministry of Electronics and	As per RFP (Already added)	Haltdos



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			Information Technology order notification File No. 1(10)/2017-CLES dated 6th Dec, 2019 for Public Procurement (Preference to Make In India) order 2019 for Cyber Security Products and provide purchase preference to Make In India Cyber Security products/solutions. https://meity.gov.in/writereaddata/files/public_procurement-preference_to_make_in_india-order_2019_for_cyber_security_products.pdf		
3.	General	CPU Utilization	As per our understanding CPU utilization is required as per industry standard of 70 percent. Please confirm	As per RFP	Newgen Software Technologies Ltd
4.	NA	General Queries: Storage duration of Documents/Files	Please provide the duration for the storage of the documents/files.	As per RFP	Newgen Software Technologies Ltd
5.	NA	General Queries: Search & Retrieval	Please confirm whether Delhi Police is looking for Content based search in the proposed system where the system displays all the probable documents/ folders containing the searched word. Upon opening the document, that particular searched word is being highlighted in it?	As per RFP (Yes, we need this search)	Newgen Software Technologies Ltd
6.	2.1.16.C.18 /89	Procurement, customization, installation & Finalization of Mobile Command & Control	We request extending this to T+32 weeks	As per RFP	Mistral Solutions



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		Vehicle- (1st MCCV) : T+20 Weeks			
7.	C (1) Performance /416	Minimum Switch Fabric Capacity: 12.8Tbps or better	Minimum Switch Fabric Capacity: 6.4Tbps or better If we consider 32 x 100G Ports than switching capacity will not be more than 6.4 Tbps. Request you to kindly ammend the clause.	Kindly Refer Corrigendum	Matrix Security And Surveillance Pvt Ltd
8.	RFP page- 229- sr no-7	The application must have single user unified interface for configurations of all the systems of Video, ANPR and Emergency response.	Please define what configurations is expected out here. For Device Onboarding, User Management for Various system such VMS, ANPR and Emergency response is possible at ICCC however detailed configurations are native feature of independent application not through unified interface. Please clarify.	As per RFP (The application must have single user unified interface for configurations of all the systems of Video, ANPR and Emergency response at Video Analytics or ICCC to manage alarms)	Matrix Security And Surveillance Pvt Ltd
9.		Additional	Any indigenous solution meeting the functional requirement and specifications may be exempted from OEM related pre-qualification criteria	As per RFP	Bharat Electronics Limited
10.		Additional	As this tender is following guidelines of Make in India, we suggest to allocate certain marks to QCBS scoring matrix to Make in India bids. This will help to get benefit to a bidder who is giving e.g. 90% Make in India bid comapre to a bidder who is giving 50% Make in INDIA bid. This	As per RFP	Bharat Electronics Limited



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			may be in similar line where you are giving more marks to a bidder having better experience compare to what is minimum required.		
11.	General	Delay	Request to add as: Where MSI incurs additional cost due to a delay to the date of completion (need to be agreed) from the date of PO/Work Order caused by Customer or their suppliers or their sub-contractors then MSI shall be entitled to claim additional delay costs for such delay.	As per RFP	Honeywel
12.	General	Payment Delinquency	Request to add as: If Customer is delinquent in its payment obligation to MSI, MSI may upon written notice to Customer stop work and withhold future shipments until all delinquent amounts and late interest, if any, are paid. If MSI reasonably determines in its sole discretion that Customer fails to qualify for the above payment terms at any time, then MSI may without notice to Customer modify or withdraw credit terms including, but not limited to, requiring advance payment, guarantees or other security.	As per RFP	Honeywel
13.	General	Remote Services	Request to add as: Customer agrees that Honeywell may enhance system operations or	As per RFP (This suggestion is not acceptable)	Honeywel



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			provide some or all of the Services remotely using an Internet connection and may install additional software and related communication and/or diagnostic devices on Customer's applicable systems (the "Systems") to enable such connection, enhancement and/or remote Services. Notwithstanding any other provision of the Agreement, such software and devices will remain the property of Honeywell and shall be removed from the Systems and returned to Honeywell promptly at Honeywell's request. Customer agrees to fully cooperate with Honeywell's installation and commissioning of such software and devices on the Systems. To the extent required by Honeywell, Customer will enable and consents to Internet connectivity, with appropriate protection(s), between its applicable Systems and Honeywell's applicable computer server(s)/system(s) and/or the Honeywell cloud platform(s) throughout the term of the Agreement. Honeywell and its affiliates may, in any country in which they or their agents or suppliers conduct business, collect,		



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			transmit, receive, process, maintain and use for the purpose of providing the Services all data obtained in connection with the Agreement. Customer represents and warrants that Customer is the owner of the premises that are the subject of this Agreement or, if not, that the owner of such premises consents to the foregoing, to the extent such consent is required. Notwithstanding any other provision of the Agreement, (a) in no event will Honeywell be responsible or liable for protection against, or mitigation of consequences associated with, a cybersecurity incident or other similar cyber-related events and/or attacks that may affect Customer's sites or systems, (b) Customer is solely responsible for ensuring that its sites and systems are protected against such a cybersecurity incident or other similar cyber-related events and/or attacks including, but not limited to, ensuring that all software is kept up to date, that all cybersecurity products used are compatible with one another and that any patches are correctly and appropriately installed, and (c) all		



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			remedial, reinstallation or update works provided by Honeywell, if any, as a result of or related to a cybersecurity incident or other similar cyber-related events and/or attacks will be performed subject to additional fees for such work, plus applicable taxes, to be paid by Customer to Honeywell (in addition to fees otherwise due under the Agreement).		
14.		General Query 1	Request you to confirm whether , C-DAC is a Government organisation under GST Act defination .	This is not relevant query to the bid.	Honeywel
15.		General Query 2	Request you to provide supporting documents to substantiate if the answer to general query 1 is yes	This is not relevant query to the bid.	Honeywel
16.		General Query 3	Request you to confirm, whether the original work/service taken under this contract is used by C-DAC for other than for commerce, industry, or any other business or profession. & work/service under this contract are in relation to work entrusted by Central/State Govt or union territory or local Authority	This is not relevant query to the bid.	Honeywel
17.		General Query 4	Government has introduced " Tax collected at source" oct 20 which is required to be charged on invoice and have to pay to Govt .Request you t oconfirm whether C-DAC is having exemption for this tax or we will	This is not relevant query to the bid.	Honeywel



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			have to charge the same on invoice and C-DAC will pay		
18.	General	General	We request you to add the clause as mentioned below: Assignment:- The rights and obligations under the Contract are personal to MSI and shall not be assigned by it, to any third party, without the express prior written authorization of the Authority, except that MSI may assign due and payable to it under the Contract to any Bank/Financial Institution. The property of Authority cannot be mortgage by MSI in any of the case.	As per RFP	L&T
19.	General	General	We request you to add the clause as mentioned below: Bonus: If the MSI achieves completion of the milestones or any section(s) prior to the intended Completion Date prescribed in Contract data (Extension of time at the discretion), the Authority shall pay to the MSI a sum of 10% of the delivered portion of the respective milestone as bonus for early completion, for every calendar month which shall elapse between the date of completion of all items of works as stipulated in the contract, including variations and the time prescribed in the contract	As per RFP	L&T



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20.	7. UC & C Alarm and Events management capabilities >> 1. ICCC >> Point No. h	Demonstrate the PTZ patters /zoom capabilities from UC& C interface for specific alarms For Ex, Analytics alarm for Chain snatching triggered from VA provider, SOS calls, PTZ camera pattern auto focused on the alarm / situation.	The requirement of chain snatching is not part of the RFP scope. We request you to kindly consider the use case as part of the scope or delete the requirement.	As per RFP	L&T
21.	4.8.12	Secured Network Devices - 1. General: Proposed vendor must be placed in Leader and Challengers Quadrant in Gartner SD-WAN or leader Gartner quadrant for Enterprise Firewall. NSS recommended vendor shall be preferred.	You are requested to keep the delivery of CPE (Router/SDWAN device) devices in ISP scope, If ISP is providing CPE devices for each site. Kindly consider.	Kindly Refer Corrigendum	Presto
22.		General	If there is power outage at any location beyond the specified backup time of UPS in the RFP, There should be no SLA penalty on the MSI. Kindly confirm the same.	As per RFP	Presto
23.	General	General	Kindly confirm how many users to be considered for below application: 1. Number of VMS mobile users 2. Number of ICCC Mobile users 3. Number of FRS Mobile users	Number of Mobile users will be 3000 scalable to 5000	Sterlite Technologies
24.	General Requirement	Internet Bandwidth/MPLS Bandwdith	Please specify whether internet Bandwidth/MPLS BW is in scope of SI. All Bandwidth is out of scope from SI. Please confirm. If any please	As per RFP (Bandwidth is in the scope of ISP and it's different tender)	Sterlite Technologies



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			specify. If Yes please specify the Internet Bandwidth requirement.		
25.	Section 2.1.22	New Addition	"In the event if Contract is terminated by C-DAC for any reason whatsoever, MSI shall be entitled for the termination fee or any incurred, committed and non-cancellable costs which shall be in addition to the fees charged by MSI under this RFP/Contract."	As per RFP	Tech Mahindra
26.	Section 2.1.27	New Addition	"C-DAC agrees that the above obligations shall equally apply to C-DAC in protecting the Confidential information of the MSI and MSI shall have the same rights as of C-DAC in protecting its Confidential information."	As per RFP	Tech Mahindra
27.	Section 2.1.31	The bidder shall undertake that the price charged/finalized for the store/services supplied under the tender shall in no event exceed the lowest price at which the bidder offers the store/services of identical description to the other organization during the currency of contract. If at any point of time during the period, the seller reduces the	TechM requests deletion of the clause as the Price quoted by TechM under this RFP shall remain fixed for the duration of the Contract if it is awarded to TechM and we cannot disclose the price we offer to our other Customers as it is a Confidential Information of TechM and as well as of our other Customers.	As per RFP	Tech Mahindra



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		sale price, sells or offer to sell such store/service to any other organization including the Buyer at a price lower than the price chargeable under the present tender, he shall notify such reduction within 7 (Seven) days and the price payable under the contract shall stand correspondingly reduced. An undertaking shall be submitted by the bidder in this regard with the technical bid.			
28.	New Addition	New Addition	"C-DAC agrees, during the term of this Agreement and for a period of one (1) year following its termination, not to solicit or hire for employment any officer, employee, agent of MSI."	As per RFP	Tech Mahindra
29.		General	It is the policy of the Government of India to encourage 'Make in India' and promote manufacturing and production of Goods and Services in India. We request you to kindly give price preference to the bidders quoting the Products manufactured in India.	As per RFP (Instructions issued by Govt. of India shall be followed)	VaaaN Infra
30.		General	We also request you to consider extending the bid submission date	Kindly Refer Corrigendum	VaaaN Infra



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			for four (4) weeks from the date of last corrigendum / replies published on our queries.		
31.	General	Not applicable	Additional clause required for MSI/ Bidder's right to claim extension of time & extra cost as explained below:- MSI/ Bidder shall be entitled to claim extension of time & extra cost for any default or delay attributable to Authority/C-DAC and time and Cost extension for Force Majeure events.	As per RFP	CNT
32.	Chapter 4 4.5.1. MSI's key responsibilities under the Scope of Work;	The summary of MSI responsibilities is as follows: · Initiation and Planning for each Phase a. Define Project Implementation Plan as per phased approach. b. Conducting site survey, obtaining necessary permissions, developing system requirements, standard operating procedures, etc.	It is recommended to have a close net OEM Governance Structure by deploying OEM Project Manager & Solution Architect, directly from respective OEM to guide the Bidder/ SI team on sustenance & O&M activities for the end to end RFP period.	As per RFP	iValue InfoSolutions
33.	Generic	Generic	The bidders must provide the following documents as part of the deliverables of the project certified by EMS OEM: Original manuals of all proposed hardware/software/applications Standard Operating Procedures	As per RFP	iValue InfoSolutions



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			Installation & Technical Configuration Documents Troubleshooting Manual Executive summary report for the project to the management Functional and operational requirements Project design/plan Product description Guidance for best practices, implementation guidelines User acceptance test plan, if any Training materials		
34.	Anti-APT Point 6	Anti-APT (sandboxing)	"The quantity mentioned against Anti-APT solution is 2, whereas the components required for a solution to work are at the minimum as below;; 1. Network/Web APT Inline sensors - in HA 2. Email APT in redundancy - 2 3. Centralized Mgmt (in HA) Please update the quantity and also provide the right quantity for complete APT solution to work independent of Firewall/IPS/Proxy etc. as propsoed in amendment" Request to change	As per RFP	iValue InfoSolutions



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			The quantity mentioned against Anti-APT solution is 2, whereas the components required for a solution to work are at the minimum as below;: 1. Network & Web APT Inline - 1 (in HA) 2. Network APT Lateral Movement - 1 3.Email APT - 1 (in HA) 4. Centralized Mgmt - 1 (in HA)		
35.	Anti-APT Point 4	The solution must employ an on premise (not on cloud) analysis engine using virtual execution to detect zero day and unknown threats and must not be signature based. But should have option to work in hybrid mode if required.	As a critical organization, we anticipate that no objects, files, traffic would be taken or submitted out of the project locations. Hence, the clause must be amended to ensure there is no dependency on detection via cloud or out of network 3rd party submission. Kindly refer to modified clause. Request to change: The solution must employ an on premise (not on cloud) analysis engine using virtual execution to detect zero day and unknown threats and must not be signature based.	Kindly Refer Corrigendum The solution must employ an on premise (not on cloud) analysis engine using virtual execution to detect zero day and unknown threats and must not be signature based.	iValue InfoSolutions
36.	You must have a dedicated	Please add the proposed clause	Adversary related Threat Intelligence subscription must be supplied have intelligence build using	As per RFP	iValue InfoSolutions



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	External Adversary Threat Intelligence subscription for the advanced SOC operations		following minimum monitoring events: a. Sensors monitoring detections globally for telemetry feeds b. More than 10 Million+ Attack personas tracking c. Threat Intel Center in India with Analyst access d. Must have 500+ Threat and Incident Response Experts e. Intel raw data collection and analysis in more than 32+ languages and 25+ countries f. Intel should include more than 50,000 IOC's in a month with detailed analysis and reporting g. Must monitor globally not be limited to only English-speaking sources, also be collected and interpreted from non-English source (Example like Chinese, Russian, Korean, Ukrainian, Arabic, Persian, Urdu Mandarin, Bengali etc) h. Threat Intel provider must have Intel collection of more than 200+ Dedicated Human intelligence (HUMINT) analysts gathering high fidelity adversary Intel in addition to Sensor Telemetry and other Open & Closed intelligence data sources i. Threat Intelligence must be focus on Cyber Espionage & Cyber Crime		



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			areas with Financial & Nation State motives		
37.	You must have a dedicated security validation tool for continuous assesment as part of the advanced SOC operations	Please add the proposed clause for Security Validation	The solution should have the capability to instrument the real APT attack scenarios without causing any potential impact to the infrastructure including, network, Email, & endpoint and supply 5 (endpoint, email & network) VM's at the minimum to run the solution and also include the 2 protected endpoint machine to run tadvance endpoint APT tests like ransomware execution etc.	As per RFP	iValue InfoSolutions
38.	New suggested Clause	New suggested Clause: Pls allow Global Credentials of Parent/subsidiary/Sister concern/Group Companies having ultimate parent	For Project of this stature, enormity , size and in interest of fair, wider participation from large , Global Players registered in India under company's act having massive investment in India below clauses are requested to be accepted as said below clauses are already accepted/allowed in all large ICT, Smart City/Safe City/Govt. Tenders hence request you to kindly add/modify said clause as (Changes requested highlighted in BOLD) : 1) In case where the bidder is dependent upon the technical experience of the parent / subsidiary/Sister concern/Group	Kindly Refer Corrigendum (clause 1.9)	Johnson Controls



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			Companies having ultimate parent, with a view to ensure commitment of the parent / subsidiary/Sister concern/Group Companies having ultimate parent for successful execution of the contract, the participating bidder should give an undertaking on their Parent/ subsidiary/Sister concern/Group Companies having ultimate parent letter head duly signed by its Statutory Auditor/Chartered Accountant/Company Secretary/Board of Director authorizing the bidder to use the technical experience of the parent / subsidiary/Sister concern/Group Companies having ultimate parent as the case may be for Government of India projects. 2) In case of International Projects where in original client certificates and other documents are in language other than English then following additional documents shall be required: "For International project if the original client certificate and other documents are in language other than English than a		



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			translated copy duly confirmed by Indian embassy/ One of the board of directors/Company Secretary of the lead bidder/ consortium member or a notarised copy of the same shall be submitted along with bid document." 3.However, in such case the authorized signatory of corresponding firm(s) whose experience is being considered or from the Ultimate parent company, should submit certificate to transfer knowhow to the bidder firm as and when required. (This note shall be also applicable for technical scoring of the bids).		
39.	New suggested Clause	New suggested Clause: In case of NDA/Confidentiality clause prevailing in bidders Order Copy/PO/LOA then Bidder should be allowed to submit Certificate/undertaking on Bidders letter head duly for both executed and ongoing projects mentioning foll: Project Name, SOW, High Level BOQ, Project Status,	We request Honourable Committee to understand that all International/Global Projects have in place NDA or Confidentiality Clause prevailing in contract itself hence submission of docs like LOA/PO/COC/ BOQ etc is not permissible to any 3rd party or any tendering agency as per Official Secret Act (copy of said act enclosed) and prevailing agreement with said customer and is deemed a criminal offence. Majority of Smart	Kindly Refer Corrigendum	Johnson Controls



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		Project Start Date/End Date duly endorsed and signed by one of the Board of Directors/CS of Bidder (Name of Signatory should reflect in Ministry of Corporate Affairs website)"	City and large Govt tenders in India have realised the importance of NDA/Confidentiality clause in existing International contracts and have started honouring the same. Smart City/Safe City Tenders like Ahmedabad, Saharanpur, Bareilly, Moradabad, Amritsar, Jalandhar etc have understood and accepted NDA/Confidentiality clause along with acceptance of Global Technical / Project Experience . In interest of fair, transparent and wider participation from experienced Global companies registered in India, we request Honourable Committee to allow submission of following documents in place of LOA/PA/COC/BOQ etc for International Projects where ever NDA or confidentiality clause prevails : "Certificate/undertaking on Bidders letter head duly for both executed and ongoing projects mentioning foll: Project Name, SOW, High Level BOQ, Project Status, Project Start Date/End Date duly endorsed and signed by one of the Board of Directors/CS of Bidder (Name of Signatory should		



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			reflect in Ministry of Corporate Affairs website)". In interest of fair, transparent and wider participation from experienced Global Bidders, We request you to add the above highlighted clause in the RFP.		
40.	Not applicable	Not applicable	Additional clause required for MSI/ Bidder's right to claim extension of time & extra cost as explained below:- MSI/ Bidder shall be entitled to claim extension of time & extra cost for any default or delay attributable to Authority/C-DAC and time and Cost extension for Force Majeure events.	As per RFP	Johnson Controls
41.	4.7.2 Essential & Key Performance Indicators of the envisaged system	Functional Architecture Framework for Delhi Safe City Project	"Figure: Essential Functional Components of Delhi Safe City Project" shows "SOS Call Box", but it seems that there are no specification of SOS Call Box in RFP. Is it necessary to integrate to system, or is there any specification?	As per RFP	Johnson Controls
42.	2.1.18 Operations and Maintenance	SMS Gateway Integration MSI shall carry out SMS Gateway Integration with the Surveillance System and develop necessary applications to send mass message or SMS to groups/individuals, which	Kindly confirm whether you are required to provisioned the SMS Gateway separately or we use the existing gateway of the department after integration of the same. Please clarify the actual volume or	As per RFP (MSI will propose as per project requirement)	Johnson Controls



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		can be either manual or system generated. Any external/third party SMS gateway can be used.	Number need to be consider for SMS per month/Year.		
43.	B. Pre-Qualification Criteria for OEMs	Additonal suggestion for better participation of quality products	UPS OEM should have water & air pollution clarence certificate for this manufacturing plants in India from respective local govt. regulatory.	As per RFP	TCIL
44.	--	Request to add	As this project scope is very huge and it required multiple technologies therefore requesting you to please add at least 3 consortium partner including lead bidder.	Kindly Refer Corrigendum (Orders of Govt. of India will be followed)	Technosys Group
45.	--	--	Request to add clause for giving preference to ' Make In India Cyber Security Products /Solutions ' and granting purchase preference to Local manufacturer Kindly refer to Ministry of Electronics and Information Technology order notification File No. 1(10)/2017-CLES dated 6th Dec, 2019 for Public Procurement (Preference to Make In India) order 2019 for Cyber Security Products and provide purchase preference to Make In India Cyber Security products/solutions. https://meity.gov.in/writereaddata/files/public_procurement-preference_to_make_in_india-	As per RFP	Principal Cyber Security counsultant



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			order_2019_for_cyber_security_products.pdf		
46.	--	--	The PIM solution should be agentless.	As per RFP (Not requested in RFP)	RAH InfoTech
47.	--	--	The PIM solution should have the ability to provide local machine connection within or outside of the network without disclosing the local admin password	As per RFP (Not requested in RFP)	RAH InfoTech
48.	--	--	The PIM solution should provide a central live Dashboard covering features like management of devices, events, and password policies, user activities, event logs, etc.	As per RFP (Not requested in RFP)	RAH InfoTech
49.	--	--	The PIM solution should have the capability to open multiple sessions in the same window.	As per RFP (Not requested in RFP)	RAH InfoTech
50.	--	--	The PIM solution should have implemented in a similar environment and should have at least 5 client references in the government sector.	As per RFP (Not requested in RFP)	RAH InfoTech
51.	--	--	The proposed solution should have 24 X 7 support in India.	As per RFP (Not requested in RFP)	RAH InfoTech
52.	--	--	The proposed solution shall have a presence in the Gartner magic quadrant.	As per RFP (Not requested in RFP)	RAH InfoTech
53.		request to add External Adversary Threat Intelligence subscription	Adversary related Threat Intelligence subscription must be supplied have intelligence build using following minimum monitoring events:	As per RFP	RAH InfoTech



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			a. Sensors monitoring detections globally for telemetry feeds b. More than 10 Million+ Attack personas tracking c. Threat Intel Center in India with Analyst access d. Must have 500+ Threat and Incident Response Experts e. Intel raw data collection and analysis in more than 32+ languages and 25+ countries f. Intel should include more than 50,000 IOC's in a month with detailed analysis and reporting g. Must monitor globally not be limited to only English-speaking sources, also be collected and interpreted from non-English source (Example like Chinese, Russian, Korean, Ukrainian, Arabic, Persian, Urdu Mandarin, Bengali etc) h. Threat Intel provider must have Intel collection of more than 200+ Dedicated Human intelligence (HUMINT) analysts gathering high fidelity adversary Intel in addition to Sensor Telemetry and other Open & Closed intelligence data sources i. Threat Intelligence must be focus on Cyber Espionage & Cyber Crime areas with Financial & Nation State motives		



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54.	--	New Section addition request : Security Validation	The solution should have the capability to instrument the real APT attack scenarios without causing any potential impact to the infrastructure including, network, Email, & endpoint and supply 5 (endpoint, email & network) VM's at the minimum to run the solution and also include the 2 protected endpoint machine to run advance endpoint APT tests like ransomware execution etc.	As per RFP	RAH InfoTech
55.	--	--	Annexure B.51. Integrated Command & Control Centre Solution Sr. No. Parameter Minimum Requirement Compliance (Y/N) 47. Post Incident Analysis a) Platform should allow for a graphical user- interface for search, replay and to simultaneously search and replay recorded video feeds, recorded telephone systems, VOIP, screen recording, GPS data on GIS maps, conventional and digital radio channels as well as trunked radio communications. b) For an Incident, all the communications regarding it should be replayed in a sequence in which	As per RFP	Qognify



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			the communications occurred so as to allow time coded playback of the incident on a synchronized timeline. c) Incident review should have incident logs including video & voice events as well as the operator's onscreen activities. This is required for finding out operator efficiency and for planning training activities for the operators. d) The review tool allows displaying of multimedia search results graphically arranged by the time of recording to present a full view of the incident picture. e) Provide capability of replaying an unlimited number of multimedia channels in synchronized mode. The software must allow the user the capability of selecting and replaying part of a call, transmission, and video in either single item selection or when selecting multiple items. f) Should support upload of incident related information into a single folder. The information should include: recordings made by the system as well as other related files - documents, photos, video clips, etc. g) Should allow simple and quick search based on frequently used search parameters		



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			h) Should provide detailed incident reporting and debriefing with time-coded playback of incident data on a single timeline. i) It should allow synchronized playback - Exactly as it happened for post-mortem analysis and review. J) It should enable the authorities to find gaps in the incident handling and improve or rewrite SOPs k) Should have capability of integrating operator screen recording, Police (100), Fire (101) and Health (102/108) Services (whenever they are available). l) Providing recorded and archived media to authorized persons		
56.	Page 322 of 656	Point No. 25 Control Desk	Add on point in existing creteria This being a state-of-the-art facility in the national capital, it is recommeneded to add the below feature 1. Supervisor/main operator desk shall have features of voice command to activate desk functions like : A. "Raise the worktop" to raise the height of control desk top. B. "Lower the worktop" to lower the height of control desktop. C. "Stop" will stop the worktop while it is in motion	As Per RFP	Pyrotech



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			(either up or down). D. "Tasklight On". E. "Tasklight Off". F. "Tasklight Dim" will dim the light to three different intensities. G. "Activate Emergency Mode" to alert the operators by changing the strip lights to red. H. "Activate VIP Mode" to indicate the VIP visit/arrival to the operators by changing the strip lights to Blue. I. "Activate Routine Mode" to change the strip light color to normal mode.		
57.	Page 322 of 656	Point No. 25 Control Desk	Add on point in existing creteria This being a state-of-the-art facility in the national capital, it is recommeneded to add the below feature Edge treatment :- In any typical control room the front edge of consoles is the component which comes in frequent contact of the operator. The soft polyurethane edge is an ergonomic requirement as per ISO 11064 (International norms for Control Room Ergonomics) and is meant to prevent injury (accidental impact) to operator during emergency and it also reduces the contact stress. Anything related to the front ergonomic edge it not	As Per RFP	Pyrotech



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			mentioned in the technical specifications. Therefore it is recommended that UL Certified design feature of modular polyurethane (PU) ergonomic edge should be mentioned. High density Poly Urethane Foam moulded on industrial grade aluminium core to form 50mm deep tapered edge to be installed on worktop. The edge shall be mechanically replaceable within 30 minutes in case of damage or wear without opening or removing the worktop. Valid UL certificate to be submitted along with the bid.		
58.	NA	Server Security Specs	Server security platform (physical, virtual or cloud servers) needs security protection especially designed for servers and can't be protected with security agent which can be installed on Windows XP, Vista, 7,8,10. As there are not dedicated specs for server security, hence we request you to kindly add separate section for server security with below features: 1. Anti - Malware 2. Behavioural Analysis 3. Content Filtering 4. HIPS 6. Firewall	As per RFP (We have catred the security requirements)	PruTech Solutions _Delhi Safe City Tender - Pre-bid Queries



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			7. Application Control 8. Integrity Monitoring 9. Log Inspection		
59.	Generic	Generic	The bidders must provide the following documents as part of the deliverables of the project certified by EMS OEM: Original manuals of all proposed hardware/software/applications Standard Operating Procedures Installation & Technical Configuration Documents Troubleshooting Manual Executive summary report for the project to the management Functional and operational requirements Project design/plan Product description Guidance for best practices, implementation guidelines User acceptance test plan, if any Training materials	As per RFP	PruTech Solutions _Delhi Safe City Tender - Pre-bid Queries
60.	53	All original Certificates shall have to be furnished during the time of evaluation. All Certificates shall be allowed which are published on or before the publishing of the bid. All Certificates specific to quoted product model / product part reference or	All original Certificates shall have to be furnished during the time of evaluation. All Certificates shall be allowed which are published on or before the submission of the bid. All Certificates specific to quoted product model / product part reference or product item no. must be submitted (No Series Reference	As per RFP	Triflex Solutions



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		product item no. must be submitted (No Series Reference Certificates shall be allowed.).	Certificates shall be allowed.). Request you to allow the product model series based certificates as most of the camera's hardware are same and used to have certificate on series. Also allow the certificate dates till the submission of the RFP.		
61.	53	UL Certificate must mention the specific model no quoted and shall be available for online for verification. No OEM model series' number or OEM Product Series or Product category specific Certificates shall be accepted.	UL Certificate must mention the specific model no quoted and shall be available for online for verification. No OEM model series' number or OEM Product Series or Product category specific Certificates shall be accepted. Request you to allow the product model series based UL certificate as most of the camera's hardware are same and used to have certificate on series.	As per RFP	Triflex Solutions
62.		Server Security Specs	Server security platform (physical, virtual or cloud servers) needs security protection especially designed for servers and can't be protected with security agent which can be installed on Windows XP, Vista, 7,8,10. As there are not dedicated specs for server security, hence we request you to kindly add separate section for server security with below features:	As per RFP	Trendmicro



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Sr No	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			1. Anti - Malware 2. Behavioral Analysis 3. Content Filtering 4. HIPS 6. Firewall 7. Application Control 8. Integrity Monitoring 9. Log Inspection		
63.	415	Minimum Switch Fabric Capacity: 12.8Tbps or better	Request to change clause as "Minimum Switch Fabric Capacity: 6.4Tbps or better" We recommend switch should have wirespeed switching capacity = $32*100*2 = 6.4Tb$. It is submitted that 12.8 Tbps is highly restrictive incedently favoring one OEM only.	Kindly Refer Corrigendum	Techspire Services
64.	B. Pre-Qualification Criteria for OEMs /40	Additonal suggestion for better participation of quality products	UPS OEM should have water & air pollution clarence certificate for this manufacturing plants in India from respective local govt. regulatory.	As per RFP	Eaton Power Quality Pvt.Ltd
65.	B. Pre-Qualification Criteria for OEMs /40	Additonal suggestion for better participation of quality products	UPS OEM should have water & air pollution clarence certificate for this manufacturing plants in India from respective local govt. regulatory.	As per RFP	Elkosta Security Systems India
66.	Approach to be undertaken for the	Google Map can be used as GIS map, and field systems/components (or any other asset) locations should	Will the map data to be on-premise or a cloud based service can be used. GIS Engine solution in consideration should provide the freely available basemaps with multiple	C-DAC will provide the GIS Map	Esri India Technologies Private Limited



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Sr No	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	Demonstration of Proof of Concept (PoC)/47	be clearly marked on it with live video streaming.	classifications like topographic, street, imagery, imagery with high resolution and more		
67.	b) Layer 3 Core Switches – 48 ports 100G	New clause Add this point	The device should be quoted with direct OEM hardware support and TAC support. OEM should have 24x7 TAC support available on email/Phone.	Kindly Refer Corrigendum	Arista
68.	a) L2 Switch (100 Gbps) WAN	New clause Add this point	The device should be from the Data Center portfolio of the OEM.	As per RFP	Arista
69.	a) L2 Switch (100 Gbps) WAN	New clause Add this point	The device should run on the same OS binary as other DC switches for simplified operations and management.	As per RFP	Arista
70.	a) L2 Switch (100 Gbps) WAN	New clause Add this point	The Device should provide extensible troubleshooting tools like control plane packet capture, microburst congestion visibility and logging of mac & route table change.	As per RFP	Arista
71.	b) Layer 3 Core Switches – 48 ports 100G	New clause Add this point	The device should be from the Data Center portfolio of the OEM.	As per RFP	Arista
72.	b) Layer 3 Core Switches – 48 ports 100G	New clause Add this point	The device should run on the same OS binary as other DC switches for simplified operations and management.	As per RFP	Arista



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Sr No	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
73.	b) Layer 3 Core Switches – 48 ports 100G	New clause Add this point	The Device should provide extensible troubleshooting tools like control plane packet capture, microburst congestion visibility and logging of mac & route table change.	As per RFP	Arista
74.	c) Layer 2 TOR Switches (For NAS storage) – 48 Ports 10G	New clause Add this point	The device should be from the Data Center portfolio of the OEM.	As per RFP	Arista
75.	c) Layer 2 TOR Switches (For NAS storage) – 48 Ports 10G	New clause Add this point	The device should run on the same OS binary as other DC switches for simplified operations and management.	As per RFP	Arista
76.	c) Layer 2 TOR Switches (For NAS storage) – 48 Ports 10G	New clause Add this point	The Device should provide extensible troubleshooting tools like control plane packet capture, microburst congestion visibility and logging of mac & route table change.	As per RFP	Arista
77.	e) Layer 2 TOR Switches – 48 Ports 10G	New clause Add this point	The device should be from the Data Center portfolio of the OEM.	As per RFP	Arista
78.	e) Layer 2 TOR Switches – 48 Ports 10G	New clause Add this point	The device should run on the same OS binary as other DC switches for simplified operations and management.	As per RFP	Arista



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Sr No	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
79.	e) Layer 2 TOR Switches – 48 Ports 10G	New clause Add this point	The Device should provide extensible troubleshooting tools like control plane packet capture, microburst congestion visibility and logging of mac & route table change.	As per RFP	Arista
80.	vi. L3 Switch 24 Port 10/25 GB	New clause Add this point	The device should be from the Data Center portfolio of the OEM.	As per RFP	Arista
81.	vi. L3 Switch 24 Port 10/25 GB	New clause Add this point	The device should run on the same OS binary as other DC switches for simplified operations and management.	As per RFP	Arista
82.	vi. L3 Switch 24 Port 10/25 GB	New clause Add this point	The Device should provide extensible troubleshooting tools like control plane packet capture, microburst congestion visibility and logging of mac & route table change.	As per RFP	Arista
83.	d. Layer 2 switch – KVM Management switches / 420	Switching / Routing : 802.1D spanning Tree and PVST+, 802.1w, 802.1s, should have BPDU Guard or equivalent feature on edge port to auto disable port for a configurable time period to if an accidental loop occurs in the network	802.1D spanning Tree and PVST+, 802.1w, 802.1s, should have BPDU Guard or equivalent feature on edge port to auto disable port if an accidental loop occurs in the network clause is too specific	As per RFP	Arista
84.	d. Layer 2 switch – KVM Management	Switching / Routing : Should have Local, Remote and multisession port	Should have Local/Remote and multisession port mirroring (minimum 4 session)	As per RFP	Arista



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Sr No	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	switches / 420	mirroring (minimum 4 session)	please make local and remote session optional		
85.	d. Layer 2 switch – KVM Management switches / 420	Switching / Routing : Support Standard based protocols for lossless transport of real time data with dynamic QOS reservation.	Support Standard based protocols for lossless transport of real time data with QOS. Requesting to remove dynamic QOS as this is a campus feature.	Kindly Refer Corrigendum	Arista
86.	d. Layer 2 switch – KVM Management switches / 420	Switching / Routing : Should have traffic rate limiting with Configurable bandwidth granularity of 64 KBps	Should have traffic rate limiting support too specific clause	As per RFP	Arista
87.	d. Layer 2 switch – KVM Management switches / 420	Switching / Routing : Should have Link Layer Discovery Protocol (802.1ab) to allow recognition of third-party network devices and LLDP MED for auto configuration	Should have Link Layer Discovery Protocol (802.1ab) to allow recognition of third-party network devices	Kindly Refer Corrigendum	Arista
88.	d. Layer 2 switch – KVM Management switches / 420	Switching / Routing : Should support policy-based routing and switching	Should support policy-based QOS / routing and switching	Kindly Refer Corrigendum	Arista
89.	d. Layer 2 switch – KVM Management	Security: Should have MAC security – Lockdown & Limit and MAC	Should have MAC security – Lockdown & Limit and MAC address tracking with syslog/ SNMP notification	As per RFP	Arista



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Sr No	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	switches / 421	address tracking with syslog & snmp notification			
90.	d. Layer 2 switch – KVM Management switches / 421	Security: Should have ASIC based traffic flow analysis based on Netflow/ sFlow/ Ipfix	Should have ASIC based traffic flow generation based on NetFlow/ sFlow/ Ipfix Switch can't do analysis. It generates the flow data.	Kindly Refer Corrigendum	Arista
91.	d. Layer 2 switch – KVM Management switches / 421	Management: Should support Energy Efficient Ethernet 802.3az	Should support Energy Efficient Ethernet 802.3az or switch should have max power draw of 200 W This clause is limiting and doesn't have much of a value in DC environment. Requesting to remove this clause.	Kindly Refer Corrigendum	Arista

Sr No	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
1.	a) L2 Switch (100 Gbps) WAN	New clause Add this point	The device should be quoted with direct OEM hardware support and TAC support. OEM should have 24x7 TAC support available on email/Phone.	As per RFP (It is the responsibility of MSI)	Arista
2.	b) Layer 3 Core Switches – 48 ports 100G	128 LAG groups with 16 ports per LAG	48 LAG groups with 16 ports per LAG Requesting to reduce to 48 as only 48 ports are asked so you can maximum have 48 LAG groups only.	Kindly Refer Corrigendum	Arista



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Sr No	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
3.	c) Layer 2 TOR Switches (For NAS storage) – 48 Ports 10G	Minimum Switch Fabric Capacity: 4Tbps or better	Minimum Switch Fabric Capacity: 2.56 Tbps or better 4Tbps is incorrect value for 10G switch. The value is calculated from asked ports type and should be $2.16\text{Tbps} \Rightarrow \frac{(48 \times 10\text{G}) + (6 \times 100\text{G})}{2}$ higher value will push to higher configuration box increasing the cost.	Kindly Refer Corrigendum	Arista
4.	c) Layer 2 TOR Switches (For NAS storage) – 48 Ports 10G	New clause Add this point	The device should be quoted with direct OEM hardware support and TAC support. OEM should have 24x7 TAC support available on email/Phone.	As per RFP (It is the responsibility of MSI)	Arista
5.	e) Layer 2 TOR Switches – 48 Ports 10G	As per solution requirement the switch should support 1G, 10G, 25G, 40G & 100G transceivers from day-1. Bidder need to size the quantities of transceivers accordingly.	As per solution requirement the switch should support 1G, 10G, 40G & 100G transceivers from day-1. Bidder need to size the quantities of transceivers accordingly to solution Please remove "25G" as 25G transceiver can not be supported on SFP+ or QSFP port.	Kindly Refer Corrigendum	Arista
6.	e) Layer 2 TOR Switches	Minimum Switch Fabric Capacity: 4Tbps or better	Minimum Switch Fabric Capacity: 2.16 Tbps or better	Kindly Refer Corrigendum	Arista



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Sr No	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	- 48 Ports 10G		4Tbps is incorrect value for 10G switch. The value is calculated from asked ports type and should be $2.16\text{Tbps} \Rightarrow ((48 \times 10\text{G}) + (6 \times 100\text{G})) \times 2$ higher value will push to higher configuration box increasing the cost.		
7.	vi. L3 Switch 24 Port 10/25 GB	As per solution requirement the switch should support 1G, 10G, 25G, 40G & 100G transceivers from day-1. Bidder need to size the quantities of transceivers accordingly.	As per solution requirement the switch should support 1G, 10G, 40G & 100G transceivers from day-1. Bidder need to size the quantities of transceivers accordingly to solution Please remove "25G" as 25G transceiver can not be supported on SFP+ or QSFP port.	Kindly Refer Corrigendum	Arista
8.	e) Layer 2 TOR Switches - 48 Ports 10G	New clause Add this point	The device should be quoted with direct OEM hardware support and TAC support. OEM should have 24x7 TAC support available on email/Phone.	As per RFP (It is the responsibility of MSI)	Arista
9.	vi. L3 Switch 24 Port 10/25 GB	Wire rate 24x 10/25 GbE SFP28 ports and 4x100GbE QSFP28 ports. All ports should be populated with Multi-mode transceivers.	Wire rate 48x10 GbE SFP+ ports and 6x100GbE QSFP28 ports. Bidder need to size the quantities of transceivers and its type accordingly to solution and site requirement.	Kindly Refer Corrigendum	Arista



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			please keep DR switch configuration same as the DC switches for fewer switch category providing simplified management.		
10.	vi. L3 Switch 24 Port 10/25 GB	Modular operating system, OpenFlow 1.3	Modular operating system, telemetry, API and openstack support for SDN OpenFlow didn't see much market adoption and so generally not used in production environment. Requesting to remove it and ask for more relevant SDN technologies of today like telemetry, API and Openstack integration.	Kidly Refer Coorigendum	Arista
11.	vi. L3 Switch 24 Port 10/25 GB	128 LAG groups with 16 ports per LAG	54 LAG groups with 16 ports per LAG requesting to reduce to 54 as 54 ports are asked so you can maximum have 54 LAG groups only.	Kindly Refer Corrigendum	Arista
12.	vi. L3 Switch 24 Port 10/25 GB	H/W based Ipv4 and Ipv6 Multicasting	H/W based Ipv4 or Ipv6 Multicasting (minimum 10000 group supported)	Kindly Refer Corrigendum	Arista



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Sr No	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
13.	vi. L3 Switch 24 Port 10/25 GB	Ansible, Puppet, Chef, SaltStack, RESTCONF APIs	SNMP, RESTCONF APIs, Rest API, Zero Touch Deployment (ZTD), Ansible, Puppet, Chef, SaltStack, TCP dump / wireshark Please add OpenConfig as option to RESTCONF	Kindly refer corrigendum	Arista
14.	vi. L3 Switch 24 Port 10/25 GB	RoHS, Ipv6 ready, FCC CFR 47 Part 15, EN 61000-4-5: Surge	RoHS, Ipv6 ready, FCC CFR 47 Part 15, EN 61000-4-5/EN 61000-3-2, NDcPP Please add EN 61000-3-2 as option. Please remove 'surge' as there is no such certification or rating. Requesting to add the leading common criteria certification for network devices the NDcPP to ensure basic security features.	Kindly Refer Corrigendum	Arista
15.	vi. L3 Switch 24 Port 10/25 GB	New clause Add this point	The device should be quoted with direct OEM hardware support and TAC support. OEM should have 24x7 TAC support available on email/Phone.	As per RFP (It is the responsibility of MSI)	Arista
16.	Generic Chapter 4	Server Security Specs	Server security platform (physical, virtual or cloud servers) needs security protection especially designed for servers and can't be	As per RFP	Hewlett Packard Enterprise India Pvt Ltd



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			protected with security agent which can be installed on Windows XP, Vista, 7,8,10. As there are not dedicated specs for server security, hence we request you to kindly add seperate section for server security with below features: 1. Anti - Malware 2. Behavioral Analysis 3. Content Filtering 4. HIPS 6. Firewall 7. Application Control 8. Integrity Monitoring 9. Log Inspection		
17.	Generic	Server Security Specs	Server security platform (physical, virtual or cloud servers) needs security protection especially designed for servers and can't be protected with security agent which can be installed on Windows XP, Vista, 7,8,10. As there are not dedicated specs for server security, hence we request you to kindly add seperate section for server security with below features: 1. Anti - Malware 2. Behavioral Analysis 3. Content Filtering 4. HIPS	As per RFP	Integre



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Sr No	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
			6. Firewall 7. Application Control 8. Integrity Monitoring 9. Log Inspection		
18.	11	Generic	The bidders must provide the following documents as part of the deliverables of the project certified by EMS OEM: Original manuals of all proposed hardware/software/applications Standard Operating Procedures Installation & Technical Configuration Documents Troubleshooting Manual Executive summary report for the project to the management Functional and operational requirements Project design/plan Product description Guidance for best practices, implementation guidelines User acceptance test plan, if any Training materials	As per RFP	Integre
19.	2.04	GPS location based services and GIS Software	For implementation of such type of solution, Enterprise GIS platform is required and we assume that bidder will supply a GIS Server platform for this. We request to confirm the same along with qty to avoid possible ambiguity.	As per RFP	Scanpoint



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			2. For GIS data updation, GIS desktop software (Page No 281 of RFP) is used. However there is line item for Desktop GIS in BOQ. Please clarify the need and qty of desktop GIS license required.		
20.	d. Layer 2 switch – KVM Management switches / 419	Interface requirements: support stacking for upto 8 switches with minimum 40 Gbps stacking.	support MLAG/Stacking with 20Gbps or higher bandwidth. Requesting to remove this clause as stacking is a campus feature. VPC or MLAG should be used in DC environment.	Kindly Refer Corrigendum	Arista
21.	d. Layer 2 switch – KVM Management switches / 419	Interface requirements: Have Redundant Power Supply support and variable speed fan to adjust to varying weather conditions in campus	Have Redundant Power Supply support. Hot swappable fans with reversible air flow option. Requesting to remove variable speed fans as this is not a campus environment. Also suggested to have hot swappable fans which are the only mechanical part within switch and have relatively higher fault rate. For DC environment hot swappability will provide easier serviceability of faulty fans instead of replacing whole device in case a fan goes faulty. reversible air flow provides flexibility with front or rear rack mounting.	Kindly Refer Corrigendum	Arista



Chapter -5

S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
1.A	Instructions for entering the prices in BoQ table:	----	Instructions for entering the Prices in BoQ: Clause Added	Kindly refer Corrigendum Refer Para 5A of page 592	Clause Added during discussion.
	/ 592 (01)	Price Bid Format	The "BA" column in the Price Bid format does not take up the values entered against AMC. Please revise the BoQ and share.	As per RFP	Sterlite Technologies Limited
	/ 592 (01)	Price Bid Format	"Total Comprehensive AMC in Rs. - Column No. 14" is not getting added in the "TOTAL AMOUNT in Rs. - Column No. 15", because of which the total Bid Price coming in the Sheet is exclusive of CAMC amount for 3 years. Since it's a Macros Enabled File, bidders can not change any formulas in the sheet. Hence Request you to make the amendment in the File and provide the Revised Sheet.	As per RFP (The CAMC amount will not be considered in total amount. Please refer para 2.1.14 (e))	Larsen & Toubro Ltd
	/ 614 (01)	Price Bid format	We observed that there is no separate line-item for quoting 3 years of O&M charges (post Go-Live) other than the technical manpower. Request you to kindly amend the same.	As per RFP (MSI is supposed to operate the entire system for 03 years as given in the RFP. This operation will serve the purpose of hand-holding over and above training for the staff of user so that after the period	Larsen & Toubro Ltd



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				of 03 years, users can take over and perform the operations smoothly. This activity of operations is expected to be carried out by the manpower listed at sr no 09 and 12 of BoQ. Over and above the requirement given above the selected MSI is expected to carry out smooth operations and proper maintenance of DC and Command & Control Centers and near DR for the period of 4 years. The bidder should quote the appropriate charges for same at sr no 6.54 of BoQ. Over and Above the operations maintenance etc. mentioned at S NO 1	



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				and 2 above, the selected MSI is required to comply with SLA requirements for 05 years stipulated in RFP. The additional cost if any for same may be included in basic prices of the appropriate items.)	
	/ 592 (01)	Price BOQ	As extended warranty price is also sought for 4th year and 5th year, we understand that the payment for this extended warranty period shall also be made on quarterly basis inline with the AMC charges. Please confirm	As per RFP	Sterlite Technologies Limited
	2.02 & 2.03/ 593 (10)	2.03: Computer Aided Dispatch Software (CAD)	As per price bid format CAD software is required to be quoted whereas there are no specifications provided in RFP. Please share the CAD Functional specifications and Licenses required for Operators	Kindly refer corrigendum S. No.: 2.02 & 2.03 of Page number 593	Hexagon SCS TECH INDIA PVT. LTD. Transline Technologies Pvt. Ltd. Techspire Services Pvt. Ltd. NEC Corporation India Pvt. Ltd. INTEC INFONET PVT. LTD. Samsung SDS India Pvt Ltd.



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
					Online Micro Services Private Limited Marushika Technology Advisors Pvt. Ltd. Larsen & Toubro Ltd.
	/ 593 (01)	2.04: GPS Location Based Services and GIS Software	GPS LBS and GIS are different components. Both the software cannot be combined. Pls revisit the line item.	Kindly refer corrigendum S. No.: 2.02 & 2.03 of Page number 593	Larsen & Toubro Ltd
	/ 595 (02)	3.11: PRICE SCHEDULE: District Command, Control & Communication Center at 16 District Headquarters (C3I): Comfort AC 1.5/ 2 Ton (Qty.32)	Requirement of comfort AC not defined clearly (1.5 Ton or 2 Ton). Please clarify.	As per RFP (MSI should consider 2 Ton)	Presto Infosolutions Pvt. Ltd. presto
	/ 596 (01)	Mobile Command Control Vehicle (MCCV)- For 02 Vehicles 5.01 Chassis: WB 4200mm (approx.) from reputed OEM like TATA, Eicher, Ashok Leyland etc. 5.36 Price of MCCV Vehicle	There are two similar items in the Price Format i.e. 5.01 & 5.36. We understand that the Price for the MCCC Vehicle has to be quoted in the Item 5.01, hence request you to kindly delete the item 5.36 from Price Schedule.	Kindly Refer Corrigendum S. No. 5 of Page number 596	Larsen & Toubro Ltd
	/ 598 (01)	6. Data Center and Servers	IS there requirement for a DR site for redundancy of SIEM stack so that security team operations are not impacted as part of business continuity planning	As per RFP	RSA
	/ 601 (01)	6.54 g. Operation and Maintenance Operation and maintenance cost for 4 years for Data	We understand that bidder has to quote for 3 years of O&M only against this item 6.54. Kindly confirm.	MSI has to maintain the DC after phase-1 go-live till completion of O&M	Larsen & Toubro Ltd



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
		Centre Non-IT Equipment only			
	/ 603 (02)	PRICE SCHEDULE - Field Devices: 8.9: Junction Box - Floor mounted (including last mile passive networking, earthing, etc.): Nos. 1,201 8.10: Junction Box - Pole mounted (including last mile passive networking, earthing, etc.) Nos. 3,432	Ref. Clause- 4.19 at Page 590: Location details of 3351 field sites, but Total No. of Junction box asked: 4633. You are requested to kindly clarify about the additional junction boxes.	There are few locations having multiple poles and cameras at single sight, thus no. of junctions are more than locations.	Presto Presto Infosolutions Pvt. Ltd.
	/ 603 (01)	8.11 : Cat6A/ E Cable (UTP)	Please clarify which cable to be proposed Cat6A or Cat 6. Please note there is no such cat 6E cable. Most Likely it should be Cat 6 cable as connectivity is cat 6	As per RFP	NEC Corporation India Pvt. Ltd.
	/ 605 (02)	PRICE SCHEDULE - 10. Operation power charges – 10.01. Power Meter Charges (Installation & Others)(minus of pilot district): Nos. 3788; 10.03. Power meter & charges for Pilot (2 Districts) (unit rate till go-live of 1st phase): Nos. 845	How the Power meter & charges for Pilot (2 Districts) unit rate after go-live duration of 1st phase for Nos.845 sites shall be considered in Price Schedule. Kindly clarify.	MSI can consider these charges under 14.18(Others).	presto Presto Infosolutions Pvt. Ltd.
	/ 606 & 607 (02)	13 Media campaigning and citizen awareness 14.01 Penta scanning & Certification	1. We request you to clarify on the activities to be considered against these line items for price consideration.	Kindly Refer Corrigendum	Larsen & Toubro Ltd Matrix Security & Surveillance Pvt Ltd



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
		14.14 Light Bar for vehicles & poles	2. We would you to kindly eloloborate the details of the media campaign in order to do the costing for the same.	S. No. 13 and 14 : of Page number 606 & 607	
	/ 606 (02)	14 Miscellaneous - 14.01 to 14.18	1. We understand that all these activities specified under Miscellaneous section shall be performed by bidder as a part of scope of work and can be quoted as a single lumpsum price. Hence request you to kindly amend the same. 2. We would like to highlight that it is very difficult for bidders to quote a price seperately against each line item without proper details of activities involved. Hence request you to kindly elaborate the scope of work for the same.	As per RFP	Larsen & Toubro Ltd
	/ 606 (01)	14.08. 2% Inventory spares to maintain SLA	The both clause seems to be conflict to each other, in that reference, kindly suggest the actual % of Spare need to be maintained/consider for the duration of this project.	As per RFP MSI can consider more if so required for maintaining SLAs	NEC Corporation India Pvt. Ltd.
	/ 611 (04)	20. AMC charges for two years starting from approx. March 2023, for following items of 88 nos of Prakhar Vans already supplied to Delhi Police.	1. As these are 3rd party equipment already supplied by OEM's to a different system integrator. We request to kindly remove this from the scope of work as we might get challenges on the support from the OEM. 2. Please provide the details of equipment (make/model) installed in the prakhar vans, that the AMC of those system are in continuation till March 2023, we need to further maintain if the units are in good	As per RFP Details will be provided after signing of the NDA with CDAC	Matrix Security & Surveillance Pvt Ltd HFCL Limited Larsen & Toubro Ltd presto



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			working condition and have balance life of equipment for said period 3. There are 88 Prakhar Van need to be maintained, but detail of devices on Prakhar Vans are missing which need to be considered under AMC. You are requested to kindly share the detail of devices and AMC scope for Prakhar Vans. 4. We request you to provide more details about the Existing solutions like, 1. Make & Model of the Components 2. Existing Warranty details of the Components 3. Date of Procurements of the systems.		



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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	--- / 614 (03)	Contract Form (Draft) 3. Order of precedence of documents: a. Contract Agreement b. Letter of Intent c. C-DAC's RFP No _____ dated ____ read with the corrigenda published d. The techno-commercial bid submitted by M/s (MSI) subject to acceptance by C-DAC	Since the techno-commercial bid of MSI is later in time to the RFP and will contain updated information as compared to the RFP, kindly move it above the RFP in the order of precedence.	As per RFP	Hewlett Packard Enterprise India Private Limited, HPE
	6.2 / 615 (03)	6.2 Key Performance Measurements b. C-DAC in consultation with Delhi Police may amend any of the terms and conditions in relation to the Contract / Service Specifications and may issue any such directions which are not necessarily stipulated therein if it deems necessary for the fulfilment of the Schedule of Requirements.	Please clarify that any changes to the T&Cs or service specifications/ scope of work shall be undertaken through the Change Management Process after submission and approval of CCN.	As per RFP	Hewlett Packard Enterprise India Private Limited, HPE
	6.6 / 617 (04)	MSI's Obligations g. MSI shall ensure that none of the Key Personnel and manpower exit from the Project during first 6 months of the beginning of the Project. In such cases of exit a penalty for such replacements shall be imposed on the MSI as per below table.	1. Bidder request that if the changes arise due to exit of a resource from the bidder firm / medical issue / role change, then the replacement of the resource of Key Personnel be permitted without any penalty to the bidder. 2. We request you to amend the clause as, 6.6. MSI's Obligations g) MSI shall ensure that none of the Key Personnel and manpower exit from the Project during first 6 months of the beginning of the Project. In such cases of exit a penalty for such replacements	Kindly Refer Corrigendum. Refer para in 6.6 -g of page No 617	Hewlett Packard Enterprise India Private Limited, (1) HPE (1) Larsen & Toubro Ltd (2)



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			shall be imposed on the MSI as per below table. Project Manager - INR 200,000 40000 DC/ DR- Cloud Expert - INR 150,000 40000 Command Center Design Expert - INR 100,000 40000 GIS Expert - INR 80,000 20000 Solution Architect - INR 80,000 20000 ITMS Expert - INR 80,000 20000 Software Management Expert - INR 80,000 20000 IT/ ICT Infrastructure Expert - INR 80,000 20000 Database Architect - INR 80,000 20000 IT/ Cyber Security Expert - INR 80,000 20000		
	6.6 / 617 (02)	l. The MSI shall ensure that all necessary approvals/permissions required for installation of equipment at the locations (except C2i, C3i, C4i, Data Centre & near DR) identified under the project and laying of cables, etc., are obtained from the concerned civic agencies within the timelines fixed. The C-DAC shall, to the extent of writing letters to the concerned agencies, provide all necessary assistance in obtaining the required approvals/permissions from civic agencies, for installation of equipment/items at the locations identified. However, MSI will be responsible to apply for approvals from civic agencies, pursue and completing all formalities with the civic agencies.	We understand that delays in obtaining approvals/permissions /RoW from respective agencies for reasons beyond reasonable control of MSI shall be treated as a hindrance and appropriate time extension provided which shall be free of any LD/penalty/termination liabilities. Please confirm Sterlite Technologies Limited We understand that the RoW charges shall be paid by CDAC/Delhi Police on actuals, including that of last mile connectivity for field elements and foundation for poles.	As per RFP	Sterlite Technologies Limited Sterlite Technologies Limited



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			Please confirm		
	6.6 / 618 (02)	o. MSI shall be fully responsible for deployment / installation / development/ procurement of network fiber and integration of all the software and hardware components and resolve any problems / issues that may arise due to integration of components.	Procurement and other activities related to last mile connectivity for ILL/MPLS services should be in ISP/TSP scope. You are requested to kindly amend the clause accordingly.	As per RFP: (Fiber connectivity from JB to camera is in MSI scope)	Presto Infosolutions Pvt. Ltd. presto
	6.6 / 618 (05)	u. All the software licenses that MSI proposes should be perpetual software licenses. The software licenses shall not be restricted based on location and C-DAC should have the flexibility to use the software licenses for other requirements if required.	Normally only one end user is allotted for each software/hardware item. So C-DAC should not ask to use the same license for other requirements.	Kindly Refer Corrigendum Refer Para 6.6 –U of of page No 618	Presto Infosolutions Pvt. Ltd. Presto Honeywell Automation India Ltd.
	6.6 / 619 (01)	w. C-DAC reserves the right to review the terms of the Warranty and Annual Maintenance agreements entered into between MSI and OEMs and no such agreement/contract shall be executed, amended, modified and/or terminated without the prior written consent of C-DAC. An executed copy of each of such agreements/contracts shall, immediately upon execution be submitted by MSI to C-DAC.	As the MSI is overall responsible for the Complete Scope of RFP and if any software support from the vendor is terminated, MSI shall be responsible for maintaining the affected software at no additional cost. Hence we request you to remove the Clause w) under MSI obligation, page 618 of 656.	As per RFP	Larsen & Toubro Ltd
	6.6 / 620 (05)	jj. MSI is expected to set up a project office in Delhi. The technical manpower deployed on the Project should work from the same office. However, some resources may be required to work from the client office/sites of Delhi Police during the contract period.	1. Please clarify that office anywhere in NCR will suffice for this purpose. 2. Kindly clarify if the project office is required during operations and maintenance phase as well.	Yes, MSI should have office in NCT of Delhi.	Hewlett Packard Enterprise India Private Limited1,(1) HPE(1) Honeywell Automation India Ltd.(2) Honeywell(2).



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	6.6 / 620 (01)	kk. Bandwidth and connectivity taken exclusively for the facility by MSI shall be the sole property of Delhi Police and as per TRAI guidelines, any move by MSI for resale of bandwidth connectivity is not allowed.	Since the bandwidth connectivity shall be procured through a Tri-Partite agreement and the payment for bandwidth connectivity shall directly be paid to the bandwidth provider, we understand that penalties resulting from breach of SLAs related to bandwidth availability (such as Jitter, Video Stream Latency, Blur etc.) shall be deducted directly from the said Service Provider's invoice and shall have no correlation with the invoicing value of the MSI. Please confirm since the same understanding is agreed by the Purchasers of multiple Smart/Safe City projects within India.	As per RFP	Sterlite Technologies Limited
	6.6 / 621 (03)	All the goods, services and manpower to be provided/deployed by MSI under the Contract and the manner and speed of execution and maintenance of the work and services are to be conducted in a manner to the satisfaction of C-DAC's representative in accordance with the Contract	We request for addition of sign off / acceptance criteria against the RFP deliverables, as this is a defined budget contract and clarity on the criteria shall aid to plan the deliverable right.	As per RFP	Hewlett Packard Enterprise India Private Limited HPE
	6.6 / 621 (03)	Should the rate of progress of the works or any part of them at any time fall behind the stipulated time for completion or is found to be too slow to ensure completion of the works by the stipulated time, or is in deviation to Bid requirements/standards, CDAC's representative shall so notify MSI in writing.	For any delay, not attributable to the MSI, LD/penalty shall not be levied on the MSI. Pls confirm and add this understanding to the RFP.	As per RFP	HPE Hewlett Packard Enterprise India Private Limited
	6.6 / 623 (03)	rr. Adherence to safety procedures, rules regulations and restriction	Kindly share the applicable CDAC security and safety policies and procedures for Bidder's review.	Kindly Refer Corrigendum	HPE



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		d. MSI shall take all measures necessary or proper to protect the personnel, work and facilities and shall observe all reasonable safety rules and instructions. MSI's Team shall adhere to all security requirement/ regulations of C-DAC during the execution of the work. C-DAC's employee also shall comply with safety procedures/ policy.		Refer Para 6.6 (rr) of Page No 617	Hewlett Packard Enterprise India Private Limited
	6.7 / 624 (02)	f. C-DAC reserves the right to procure the hardware including devices on quarterly basis in first year based on actual deployment and O&M shall be applicable whenever the devices are procured and deployed till end of the contract.	This clause may impact the project timelines defined in this RFP as the MSI will need certain amount of time to backline the deliveries in case the orders come in a staggered manner.	As per RFP	Presto Infosolutions Pvt. Ltd. presto
	6.7 / 624 (03)	g. Site Not Ready: C-DAC hereby agrees to make the project site ready as per the agreed dimensions and specifications, within the agreed timelines. C-DAC agrees that MSI shall not be in any manner liable for any delay arising out of C-DAC's failure to make the site ready within the stipulated period.	There shall be scenarios where work is not permitted at end user site or some municipal etc. permission is not available for work / pre requisite is not available, and delay is caused due to the same. Request to Introduce "Site Not Ready" Clause, basis which the LD / Penalty shall not be levied on the bidder till the time the site is made ready on all related milestones.	Kindly refer corrigendum Refer Para clause 6.7 -g of Page No. 624	HPE Hewlett Packard Enterprise India Private Limited
	6.8 / 624 (05)	b. C-DAC will take judicious decision on invoices submitted (along with inspection report) by MSI regarding acceptance or rejection of material delivered and/or services provided under this Project within 30 days and payment will be released to the MSI of the accepted amount after proportionate adjustment of the advance.	1. We request that the timely payment in such a capital intensive project is necessary. Hence, we request to release payment in 30 days from invoice submission and modify as below - 6.8. Payment Terms - b. C-DAC will take judicious decision on invoices submitted (along with inspection report) by MSI regarding acceptance or rejection of material delivered and/or services provided under this Project within 30 days and payment will be	As per RFP	HPE (1) Hewlett Packard Enterprise India Private Limited(2) Larsen & Toubro Ltd (2) Presto(3)



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			released to the MSI within 30 days of invoice submission, for the accepted amount after proportionate adjustment of the advance. 2. We understand that MSI can raise the Invoices monthly basis based on the work completion. Kindly confirm. 3. Please make the payment release terms within 30 days for the entire project as defined in phase wise completion.		
	6.8 / 624 (01)	e. Payment during the period of Extended Warranty i.e. 4th year and 5th year from the date of Acceptance of the System/completion of Warranty Period, will be payable on quarterly basis, after completion of that period.	Deemed acceptance clause not there. Also No interest rate mentioned in case of delayed payment. Suggest to incorporate interest rate of 18% p.a in case of delayed payment. Also to add- In case of any discrepancy found in the Invoice, it should be highlighted within 7 days of acceptance of that invoice. In case nothing has been highlighted, it would be considered as deemed acceptance of that invoice.	As per RFP	Tech Mahindra
	6.8 / 624 (03)	i. All payments to MSI shall be subject to the deductions of tax at source under Income Tax Act, and other taxes and deductions as provided for under any law, rule or regulation of the land.	Request you to confirm that BOCW/ labour cess would not be deducted from our payment	As per RFP (Statutory deduction will be as per law)	Honeywell Honeywell Automation India Ltd.
	6.9 / 626 (02)	Ownership and Retention of Documents a. C-DAC shall own the Documents, prepared by or for MSI arising out of or in connection with this Contract and its execution thereof. b. Forthwith upon expiry or earlier	a.The MSI shall own the Documents, prepared by or for MSI arising out of or in connection with this Contract and its execution thereof. C-DAC shall have right to use the Documents in connection with this Contract.	As per RFP	CNT Johnson Controls



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		termination of this Contract and at any other time on demand by C-DAC, MSI shall deliver to C-DAC all documents provided by or originating from C-DAC and all documents produced by or for MSI in the course of performing the Services, unless otherwise directed in writing by C-DAC at no additional cost. MSI shall not, without the prior written consent of C-DAC store, copy, distribute or retain any such documents. Ownership of Work Product. The parties hereby acknowledge that the Work Product, and all documentation, information, systems, and other results developed in connection with the Work Product, will, to the extent permitted by Law, be a "work made for hire" within the definition of Section 101 of the Copyright Act (17 U.S.C. 101) and will remain Delhi Police's exclusive property.	b. Forthwith upon expiry or earlier termination of this Contract and at any other time on demand by C-DAC, MSI shall deliver to C-DAC all documents provided by or originating from C-DAC and all documents produced by or for MSI in the course of performing the Services, unless otherwise directed in writing by C-DAC at no additional cost.		
	6.9 / 626 (02)	Ownership of Work Product. The parties hereby acknowledge that the Work Product, and all documentation, information, systems, and other results developed in connection with the Work Product, will, to the extent permitted by Law, be a "work made for hire" within the definition of Section 101 of the Copyright Act (17 U.S.C. 101) and will remain Delhi Police's exclusive property.	Please delete this clause	As per RFP	Honeywell Automation India Ltd. Honeywell
	6.10 / 627 (03)	g. By virtue of this Contract, MSI team may have access to personal information of C-DAC/Delhi Police and/or a third party. C-DAC/Delhi Police has the sole ownership of	Request to make the clause to be applicable till the term of the contract and not "in perpetuity" as	As per RFP	HPE Hewlett Packard Enterprise India Private Limited



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		and the right to use, all such data in perpetuity including any data or other information pertaining to the citizens that may be in the possession of MSI team in the course of performing the Services under the Contract	implementation of the same is not traceable.		

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S. No.	Clause/Page	Clause/ Content in the RFP	Suggestive input/ clarification	CDAC Response	MSI/OEM
	7.1 / 628 (03)	7.1 Annexure 1: We agree to abide by all the terms and conditions of the RFP document. We would hold the terms of our proposal valid for 120 days as stipulated in the RFP document.	WE request to allow for submission proposed changes to T&Cs, to be discussed during bid evaluation or at time of contract.	Kindly Refer Corrigendum Refer Para 7.1 of Page No 628	Hewlett Packard Enterprise India Private Limited, HPE
	7.3 / 631 (03)	7.3 Annexure 3: 2. In case, we are declared as successful bidder and an order is placed on us, we will submit the acceptance in writing within 7 days of placement of order on us.	We request to allow for 10 working days to provide acceptance to Order, to allow for various approvals to take place. And modify as below -"..... within 10 working days of....."	As per RFP	Hewlett Packard Enterprise India Private Limited, HPE
	7.4 / 632 (03)	7.4 Annexure 4: Documents Check-List , All points	Pls modify points to allow for a consortium led bid submission.	As per RFP	Hewlett Packard Enterprise India Private Limited, HPE
	7.4 / 633 (03)	7.4 Annexure 4: 17. Anti-Collusion Certificate	Pls share template for the point / requirement.	MSI can provide in their own format on their Letterhead	Hewlett Packard Enterprise India Private Limited, HPE
	7.5 / 635 (03)	7.5 Annexure 5: Undertaking for Non-Malicious Code	Bidder request for the addition of clause "shall not contain any embedded malicious code as on date of material supply/delivery" in the format Annexure 5 as the same only can be shared by the OEM.	As per RFP	Hewlett Packard Enterprise India Private Limited, HPE
	7.6 / 636 (06)	7.6 Annexure 6: 7.6.1 Till Go-Live (Implementation) Manpower distribution Note: Proposed Resources/Key	Software implementation should be allowed to installation over secured VPN access to enable speedy	As per RFP	Micro Focus Software Solution India Private Limited (earlier Called as



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		personnel should be deployed onsite and penalty shall be applicable as per RFP.	deployment by best resources from anywhere in India.		Hewlett Packard Software – HPE Software) iValue InfoSolutions Pvt. Ltd. PruTech Solutions India Pvt. Ltd. Madras Security Printers Pvt. Ltd Bodhtree
	7.7 / 640 (04)	7.7 Annexure 7: For OEM of Camera: 2. We will provide well defined support by the means of online portal, Chat and Toll-free no to support the SDK developers on timely basis	2. We will provide well defined support by the means of online portal/Chat/Toll-free no to support the SDK developers on timely basis Request you to keep all communication options in options for the wider participation.	As per RFP	Globalrays Technologies Triflex Solutions Bodhtree PruTech Solutions India Pvt. Ltd
	7.10 / 644 (04)	7.10. Annexure – 10: Non-Blacklisting Declaration by JV Members	1. We request the addition of Consortium members to this clause and template 2. We understand that if bidder is participating as a Sole Bidder than Annexure -10 shall be submitted only for Sole bidder. Kindly confirm.	Kindly Refer Corrigendum Refer Para 7.10 of Page No 644	HPE Larsen & Toubro Ltd Hewlett Packard Enterprise India Private Limited
	7.11 / 645 (03)	7.11. Annexure – 11: Brief company profile (required for both bidder and JV member)	We request the addition of Consortium members to this clause and template	As per RFP	HPE Hewlett Packard Enterprise India Private Limited
	7.13 / 648 (03)	7.13. Annexure – 13: JV Agreement	We request the addition of Consortium members to this clause and template	As per RFP	HPE



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					Hewlett Packard Enterprise India Private Limited
	7.13 /649 (02)	7.13. Annexure – 13: JV Agreement iii. The Sole Bidder/ Principal JV Bidder shall be solely and severally responsible and bound towards C-DAC for the performance of the works in accordance with the terms and conditions of the RFP document, and Contract. The other JV Members shall support the Sole Bidder/Principal JV Bidder in successful implementation of the objectives. vi. That the Parties shall carry out all responsibilities jointly and severally as Master System Integrator in terms of the Contract.	iii. The Sole Bidder/ Principal JV Bidder shall be solely responsible and bound towards C-DAC for the performance of the works in accordance with the terms and conditions of the RFP document, and Contract. The other JV Members shall carry out their respective responsibilities severally and shall support the Sole Bidder/Principal JV Bidder in successful implementation of the objectives. vi. That the Parties shall carry out their respective responsibilities severally and support Principal JV Bidder for carrying out it's responsibility as Master System Integrator in terms of the Contract.	As per RFP	CNT Johnson Controls