



Centre for Development of Advanced Computing

A Scientific Society under Ministry of Electronics & Information Technology,

Government of India

Innovation Park, Panchavati, Pashan Road, Pune – 411 008, INDIA.

Tel: +91 – 20 – 25503671-676/25868086

www.cdac.in

Tender Document for

Supply, Installation & Commissioning of HPC Cluster with Interconnect, Software tools etc. at:



**India Kazakhstan Centre of
Excellence in Information and
Communication Technology**

Tender No.: CDACP/HPC-KAZAKHSTAN/22-23/343

CDAC, Pune invites online bids from eligible bidders for supply, installation and commissioning of HPC Cluster with Interconnect, software tools etc. at Nur-Sultan, Kazakhstan. Prospective Bidders may download the Tender Document from C-DAC's website www.cdac.in / <https://eprocure.gov.in/eprocure/app>. Bidders are advised to go through instructions provided at 'Instructions for online Bid Submission' and submit duly filled bids online on the <https://eprocure.gov.in/eprocure/app> (CPPPortal) as per the schedule given in the Tender Document.



TENDER SCHEDULE

Tender No: CDACP/HPC-KAZAKHSTAN/22-23/343

Name Of the Organization	Centre for Development of Advanced Computing, Innovation Park, PANCHAVATI, Pashan Road, PUNE - 411008.
Date of Release of Tender	May 26, 2022
Pre-Bid Meeting Date / Time	June 03 2022 – 1100 Hrs (Online – Link will be shared on request- 30 min. before the pre-bid Meeting)
Last date of Uploading / Submission of bids	June 16, 2022, 1600 Hrs.
Date of Opening of Technical bids	June 17, 2022, 1600 Hrs.
Place of opening of technical bids	C-DAC, Innovation Park, Panchavati, Pashan Road, Pune 411008.
Supply, Installation, Warranty Support etc at:	India-Kazakhstan Centre of Excellence in ICT at ENU, Nur-Sultan, Kazakhstan.

1. Instructions for Online Bid Submission

The bidders are required to submit soft copies of their bids electronically through the portal (www.eprocure.gov.in) using valid Digital Signature Certificates (DSC). The instructions given below are meant to assist the bidders in registering on the CPP Portal, preparing their bids following the requirements and submitting their bids online on the CPP Portal. More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

2. Assistance to Bidders:

Any query relating to the process of online bid submission or queries relating to the CPP Portal, in general, may be directed to the 24*7 CPP Portal Helpdesk on- 0120-4200 462, 0120-4001 002, 0120-4001 005, 0120-6277 787,

- e-mail for Technical - support-eproc@nic.in.

3. In case of any doubts, and/ or queries about the technical solution, specifications terms and conditions of the tender, the prospective bidder may send their queries in writing through e-mail (mmg@cdac.in). The queries, requests for clarifications etc. must be sent within 7 days from the date of publication of the Tender. The bidders are requested to go through the entire tender document thoroughly, before raising any query. C-DAC, Pune shall address the queries raised by the bidders. The replies to queries would be made available on the portal in due course of time. All the queries, doubts, clarifications etc. must be submitted in xls format only as below.

Name of the bidder:				
Sl.No.	Section / Page No	Clause Reference	Query from bidder	C-DAC Response



SECTION I: INVITATION FOR BIDS (IFB)

1. **The Centre for Development of Advanced Computing (CDAC)** is a scientific society under the administrative control of the Ministry of Electronics & Information Technology, Government of India. Under a project from the Ministry of External Affairs (MEA), the Government of India; CDAC, Pune invites online bids from eligible bidders for supply, installation and commissioning of Upgradation of the existing HPC Cluster with Interconnect, software tools etc. at Nur-Sultan, Kazakhstan, as per Schedule of Requirements (Section IV).

2. Contact information:

Material Management Group
Centre for Development of Advanced Computing (CDAC)
Innovation Park, PANACHAVATI, Pashan Road,
Pune 411008, Maharashtra, INDIA
Tel No.: +91-20-25503671-676 / 25868086.
E-mail: mmg@cdac.in

3. Online Two bid System:

The two bid systems will be followed for this tender. In this system, bidder must submit their offer in separate eBids–online as explained below: (through www.eprocure.gov.in/eprocure/app)- CPPPortal.

▪ Technical eBid" shall contain: (in pdf format – online)

- a. Document Check List as per **Annexure – F**.
- b. Covering letter, as per **Annexure – A**.
- c. Authority letter, as per **Annexure – B**.
- d. Scanned copy of the Demand Draft / UTR details towards the tender fee of Rs. 2000/- (Rupees Two Thousand Only) (Non-exempted/non-refundable) drawn in favour of C-DAC payable at Pune. (The DD must reach physically the place of Opening of the Tender on or before the Due Date & Time of the Tender)
- e. Scanned copy of Demand draft towards Earnest Money Deposit of INR 1,50,000/- (Rupees One Lac and Fifty Thousand Only) drawn in favour of C-DAC payable at Pune. (The Demand Draft must reach physically at the place of Opening of the Tender on or before the Due Date & Time of the Tender). Alternately, the bidder may choose to submit a bid security declaration, as given in **Annexure – C**, subject to the conditions stipulated therein.
- f. Duly filled Technical Bid with proper seal and signature of authorised person (with name, designation & contact no.)
- g. Certificate of incorporation, Partnership deed / Memorandum and Articles of Association / any other equivalent document showing date and place of incorporation, as applicable.
- h. If the bidder is not a principal manufacturer of servers/Interconnect, the specific authorisation letter from the Principals as per **Annexure- D** clearly, indicates that the bidder is competent to sell & provide services for the items mentioned in the Schedule of Requirements (Section-IV) of the tender document.
- i. A copy of the certificate from the Chartered Accountant indicating the annual sales turnover for the last three years.
- j. The Bidder should have supplied and installed at least ONE HPC Cluster of minimum 4TF peak compute power in the last five years, either in India or abroad. Copy of Purchase



Order/Installation reports/ completion certificates of such installation in the name of the bidder should be provided along with the technical bid.

- k. The installation and warranty services are required at Nur-Sultan, Kazakhstan. An undertaking to this effect should be submitted along with the technical bid. The details viz. name, address, contact person, telephone/fax, email etc. should be provided before the placement of the supply order (if applicable).
- l. The bidder/OEM should have a local support office in Kazakhstan. The address and contact details of the same must be submitted along with the technical bid.
- m. The details like the make & model number of each item quoted.
- n. The printed catalogue/leaflet published by the principal manufacturer of the items quoted.
- o. A photocopy of the commercial bid without prices (prices blocked) and a copy of commercial terms & conditions (in detail) as attached in Section-V – Unpriced commercial bid.
- p. Undertaking to the effect that a Security Deposit of 5% of the order value will be submitted in case C- DAC decides to place the Purchase Order.
- q. Other documents necessary in support of eligibility criteria, product catalogues, brochures etc.

Note: CDAC reserves the right to reject the bid if any of the above-listed document/s is not submitted.

- **Commercial eBid shall contain (in BOQ .xls format–online) (Online through www.eprocure.gov.in/eprocure/app) CPPPortal.**

The Commercial Bid in the format as per Section-V. (BOQ .xls format)

- 4. **PRE-BID QUERIES:** The prospective bidders requiring any clarification regarding the schedule of requirements, tender scope, terms & conditions etc of the bidding document may send their queries through e-mail. The queries/doubts/clarifications etc. must be sent on or before **02.06.2022 – 1100 hrs.** C-DAC, Pune will respond to these queries appropriately, during the pre-bid meeting as per the Tender Schedule.

5. Date of submission of bids and opening of the Technical bids online:

Last date for submission of ebids on **June 16, 2022**, up to **1600 Hrs.** Technical ebid will be opened 'ONLINE' on **June 17, 2022**, at **1600 Hrs.** (Link to attend the 'online' meeting will be released to the bidders).

The Tender Fee / EMD (or declaration) MUST be submitted in person or through post/ courier (CDAC shall not be responsible for any postal delays or any other reason for not submitting the Tender Fees + EMD etc. in the specified time and resulting in disqualification/rejection of any bid) to reach on or before the Last Date and Time of Submission of eBids online. The representatives (maximum two) of bidders are welcome to attend the opening of the technical bids online. The link to attend the meeting will be shared accordingly.

Note: Please do not put "Commercial Bid" (prices quoted) in the technical bid packet. If the price quoted is submitted with a technical bid the tender will be rejected at the sole discretion of CDAC.

6. Opening of commercial bids

Commercial bids of the qualified bidders only will be opened, in the presence of the bidders or authorized representatives of the bidders, who choose to attend online, at the **time, date & link** to be informed later.



The bidder's name, bid prices and other appropriate details will be displayed at the time of the opening of the commercial bids.

(END OF SECTION - I)



SECTION II: INSTRUCTIONS TO BIDDERS (ITB)

1. Delivery :

The entire HPC Cluster components should be despatched from any third country directly to the destination. The bidder needs to take care of the documentary formalities and permissions required, if any, from any of the Government agencies/ departments.

2. Delivery Period:

All the items covered in the Schedule of Requirements (Section – IV) must be despatched from the port of discharge **By Air** within **8 weeks** from the date of establishment of the Letter of Credit. The supply, installation & commissioning of the HPC Cluster with interconnect, software tools etc. at the site must be completed within **10 weeks** from the date of establishment of the Letter of Credit.

3. Locations for the Supply, Installation & Warranty Services

The item covered by this document is required to be supplied, installed and hardware supported at **Nur-Sultan, Kazakhstan**. The detailed address of the site shall be communicated in the Supply Order.

4. Order Placements:

The Supply Order(s) shall be released by:

Centre for Development of Advanced Computing (C-DAC)
Innovation Park, Panchavati, Pashan Road,
Pune 411008, Maharashtra, INDIA

The payments shall be released by:

Centre for Development of Advanced Computing (C-DAC)
Innovation Park, Panchavati, Pashan Road,
Pune 411008, Maharashtra, INDIA

5. Eligibility Criteria:

- 5.1. The bidder should be a principal manufacturer or authorised distributor/ reseller of the Principal Manufacturer of the servers etc. for the items mentioned in the tender document.
- 5.2. **Bidder** must have an annual sales turnover of a minimum of Rs. 1.2 Cr for each of the last three financial years
- 5.3. The bidders should submit the required documents / financial instruments as stipulated in para 3 of Section – I.
- 5.4. The principal manufacturer of servers / authorised distributor/reseller must have an authorised service support establishment in **Kazakhstan**.
- 5.5. The bidder must quote for all the items given in Schedule of Requirements – Section IV of this document.
- 5.6. The bidder must not be blacklisted by C-DAC or any other Educational/R&D/Govt. Organizations as on date of submission of the bid. A certificate or undertaking to this effect must be submitted.



Note: If in the view of a bidder, any exemption/relaxation applies to them from any of the eligibility requirements, under any Rules/process/ Guidelines/ Directives of the Government of India, the bidder may submit their claim for the applicable exemption /relaxation, quoting the valid Rule/ process/ Guidelines/ Directives. In this case, the bidder must submit necessary and sufficient documents along with the technical bid, in support of his claim. The decision about granting the exemption/ relaxation will be taken by the bid evaluation committee which is empowered to grant exemption/relaxation. The relevant and valid certificates in support of the claim of exemption must be submitted.

Note: The bidders should provide sufficient documentary evidence to support the eligibility criteria. CDAC reserves the right to reject any bid not fulfilling the eligibility criteria.

6. Amendment to Bidding Documents

- 6.1. At any time before the deadline for submission of bids, CDAC may, for any reason, whether on its initiative or in response to the clarification request by a prospective bidder, modify the bid document.
- 6.2. The amendments to the tender documents, if any, will be notified by the release of the Corrigendum Notice through www.eprocure.gov.in/eprocure/app / www.cdac.in. The amendments/ modifications will be binding on the bidders.
- 6.3. CDAC at its discretion may extend the deadline for the submission of bids if it thinks it necessary to do so or if the bid document undergoes changes during the bidding period, to give prospective bidders time to take into consideration the amendments while preparing their bids.

7. Preparation of Bids

Bidder should avoid, as far as possible, corrections, overwriting, erasures or postscripts in the bid documents. However, the bidder shall not be entitled to amend/add/delete/correct the clauses mentioned in the entire tender document.

8. Earnest Money Deposit (EMD)

- 8.1. The Earnest Money Deposit (EMD) shall be submitted on or before the Due Date/ Submission Date of the technical bid. The EMD is required to be in the form of a Demand Draft in favour of CDAC payable at Pune, India, for an amount of INR 1,50,000/- (Rupees One Lakh Fifty Thousand Only). Alternately, the bidder may choose to submit a bid security declaration, as given in **Annexure – C**, subject to the conditions stipulated therein.
- 8.2. No interest shall be payable on EMD.
- 8.3. The EMD will be returned to the bidder(s) whose offer is not accepted, within 30 days from the date of opening of the commercial bid(s). In the case of the bidder whose offer is accepted, the EMD will be returned on submission of the Security Deposit (Refer to Clause 4 of Section III). However if the return of EMD is delayed for any reason, no interest/ penalty shall be payable to the bidder.
- 8.4. The successful bidder, on the award of order, must send the order acceptance in writing along with the Security Deposit in the form of a Demand Draft; within 7 days of award of order, failing which the EMD will be forfeited and the order will be cancelled.
- 8.5. The EMD may be forfeited:
 - 8.5.1. If the bidder withdraws the bid during the period of bid validity specified in the tender.



8.5.2. In case a successful bidder fails to furnish the Security Deposit.

8.5.3. If the bidder fails to furnish the acceptance in writing, within 7 days of award of order.

9. Period of validity of bids

9.1. Bids shall be valid for a minimum of 120 days from the date of submission. A bid valid for a shorter period shall stand rejected.

9.2. CDAC may ask for the bidder's consent to extend the period of validity. Such requests and the response shall be made in writing only. The bidder is free not to accept such a request without forfeiting the EMD. A bidder agreeing to the request for extension will not be permitted to modify his bid.

10. Submission of Bids

The Bid documents shall be neatly arranged in pdf format. They should not contain any terms and conditions, printed or otherwise, which do not apply to the Bid. The conditional bid will be summarily rejected. Insertions, postscripts, additions and alterations shall not be recognized unless confirmed by the bidder's signature.

11. Deadline for Submission of Bids

11.1. Bids must be uploaded & received by C-DAC before the due date and time at the address specified in the tender document – online – through www.eprocure.gov.in (CPPPortal)

11.2. C-DAC will not be responsible for any issues arising/about the eprocure.gov.in/eprocure/app portal for non-submission, or failure in the submission of ebids online.

11.3. CDAC may extend this deadline for submission of bids by amending the bid documents and the same shall be suitably notified through www.eprocure.gov.in/eprocure/app / www.cdac.in.

12. Late Bids

12.1. Any bid inadvertently received by CDAC after the deadline for submission of bids, will not be accepted. CDAC shall not be responsible and liable for the delay in receiving the bid for whatsoever reason.

12.2. C-DAC will not be responsible for any delay due to issues arising/about the eprocure.gov.in/eprocure/app portal for non-submission, and failure in the submission of ebids online.

13. Bid Opening & Evaluation of Bids

The technical bids will be evaluated in two steps.

13.1. The bids will be examined based on eligibility criteria stipulated in Para 5 of Section – II to shortlist the eligible bidders.

13.2. The technical bids of only the shortlisted eligible bidders shall be evaluated based on the Schedule of Requirements / Technical specifications stipulated in Section – IV.

13.3. The bidders whose technical bid is found to meet both the requirements as specified above will qualify for the opening of the commercial bid and will be informed about the date and time of the opening of the commercial bid.



- 13.4. The duly constituted Technical Evaluation Committee (TEC) shall evaluate the bids. The TEC shall be empowered to make appropriate decisions on minor deviations if any.
- 13.5. The bidder's name, bid prices, discounts and other details considered appropriate by CDAC, will be displayed at the time of opening of the commercial bids.
- 13.6. C-DAC reserves the right to accept/reject/process the bids if bidder(s) do not comply with Govt Notifications for MII (class-I / II) contents, at the sole discretion of C-DAC.
- M.I.I. Purchase Preference – NOT APPLICABLE.**

14. Comparison of Bids

- 14.1. Only the short-listed bids from the technical evaluation shall be considered for commercial comparison.
- 14.2. For comparison, the prices including all charges based on D.D.U. will be considered.
- 14.3. For comparison purposes on an equal basis, the prices quoted by bidders shall be converted to equivalent Indian Rupees. The exchange rate as of the last date of submission of bids shall be considered for comparison.

15. Award of Contract

- 15.1. CDAC shall award the contract to the eligible bidder whose technical bid has been accepted and determined as the lowest evaluated commercial bid. However, CDAC reserves the right and has sole discretion to reject the lowest evaluated bid.
- 15.2. If more than one bidder happens to quote the same lowest price, CDAC reserves the right to decide the criteria and further process for awarding the contract, decision of CDAC shall be final for awarding the contract.

16. Purchaser's Right to amend/cancel

- 16.1. CDAC reserves the right to amend the eligibility criteria, commercial terms & conditions, Scope of Supply, technical specifications etc.
- 16.2. CDAC reserves the right to cancel the entire tender without assigning any reasons therefor.

17. Corrupt or Fraudulent Practices.

- 17.1. It is expected that the bidders who wish to bid for this project have the highest standards of ethics.
- 17.2. CDAC will reject the bid if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices while competing for this contract;
- 17.3. CDAC may declare a vendor ineligible, either indefinitely or for a stated duration, to be awarded a contract if it at any time determines that the vendor has engaged in corrupt and fraudulent practices during the award/execution of a contract.

18. 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 the Director-General, CDAC shall be final and binding on all parties.

(END OF SECTION – II)



SECTION III: SPECIAL CONDITIONS OF CONTRACT (SCC)

1. Prices

- 1.1. The price quoted shall be considered firm and no price escalation will be permitted.
- 1.2. Bidder must quote in **Foreign Currency only**. The authorised distributors/ resellers/ agents may bid on behalf of their principals abroad. In such case, the bidders must provide the details viz. name & address on whom the order/ LC is to be placed with bank details etc. on their unpriced commercial bid. In such case the EMD, Security Deposit and Performance Bank Guarantee from the Indian representative in INR is acceptable.
- 1.3. The prices quoted **must** be on “all-inclusive till destination” (D.D.U. basis) i.e. till Nur-Sultan, Kazakhstan. The prices quoted must be including all packing & forwarding, freight, insurance and allied charges till destination.
- 1.4. **The customs duty or its waiver, clearance from the port of landing and transportation to the site will be done by ENU in Nur-Sultan, Kazakhstan.** The responsibility, cost and risk of the consignment shall rest with the bidder till receipt of goods is acknowledged by the end-user in Kazakhstan. However, such receipt/ acknowledgement shall not be treated as acceptance of goods.

2. Software Licenses:

The software licenses, if any, shall be required in the name of the user institute at Nur-Sultan, Kazakhstan. The licenses shall contain paper licenses and at least one set of media (Pendrive/CDs), wherever applicable.

3. Chartered Engineers Certificate

The successful bidder will be required to furnish the Certificate from the Registered Chartered Engineer certifying that the items supplied and their specifications are in compliance with the requirements of the Purchase Order issued by C-DAC. The Chartered Engineer should examine the contents of the consignment at the port of discharge.

4. Security Deposit (SD):

The successful bidder will be required to furnish the Security Deposit for 5% of the order value within 7 days of receipt of the Supply Order. The Security Deposit should be submitted in the form of a Demand Draft drawn in favour of CDAC payable at Pune. The Security Deposit from the Indian representative in INR is acceptable. The Security Deposit will be returned upon completion of installation & commissioning and on submission of Performance Bank Guarantee (PBG).

5. Performance Bank Guarantee (PBG):

The successful bidder will be required to furnish the Performance Guarantee towards the item supplied, in the form of a Bank Guarantee for the 3% amount of the Purchase Order value, as per the format attached to this document **Annexure-E**. This bank guarantee should be submitted along with the invoice on successful installation. The Bank Guarantee shall remain valid for 38 months from the date of installation. The PBG can be submitted in INR or any foreign currency. However, the PBG must be negotiable at a branch of issuing bank in India. The PBG from the Indian distributor/representative is acceptable. In case of no warranty claims towards the item under warranty, the PBG will be returned on completion of the warranty period.



6. Completeness Responsibility:

Notwithstanding the scope of work, engineering, supply and services stated in the bid document, any equipment or material, engineering or technical services which might not be even specifically mentioned under the scope of supply of the vendor and which are not expressly excluded therefrom but which – in view of the bidder - are necessary for the performance of the equipment following the specifications are treated to be included in the bid and has to be performed by bidder. The items which are over & above the scope of supply specified in the Schedule of Requirements may be marked as “Optional Items”.

7. Warranty:

All the items covered in the schedule of requirements shall carry a minimum of 3 (three) years on-site comprehensive warranty from the date of Installation, Commissioning & Acceptance by C-DAC/Indian Mission in Nur-Sultan. The bidder shall undertake to provide the installation and warranty service at the site. The repairing/ rectification/ replacement/ configuration required, if any, of the items under warranty must be done within Kazakhstan only. These items shall not be allowed to be taken outside the country for warranty repairs.

8. Payments:

80% of the payment will be made against an irrevocable Letter of Credit (LC) with a credit period of 30 days from the date of shipment. The balance 20% payment will be made by sight draft against submission of successful installation certificate of the HPC Cluster, issued by a competent authority of C-DAC/Indian Mission at Nur-Sultan and on submission of PBG, as per clause 5 of Section III given above. PBG Must be submitted within 15 days of successful installations. In case of non-submission of PBG within 15 days, any loss due to fluctuation in foreign exchange rates will be at the beneficiary account.

The LC operating charges inside India will be to the CDAC account and those outside India will be to the beneficiary account. The LC confirmation charges & LC amendment charges, if requested/ required, will be to the beneficiary account.

All payments are subject to statutory deductions, wherever applicable.

9. Shipping Documents:

The Air Way Bill and Invoices shall be marked as given below:

Bill to:

(Name and Address of Bank)

A/c Centre for Development of Advanced Computing (CDAC)
Innovation Park, Panchavati, Pashan Road,
Pune 411008, Maharashtra, INDIA

Ship to: India-Kazakhstan Centre of Excellence in ICT, ENU in Nur-Sultan, Kazakhstan.

10. Penalty for delayed Delivery /Services

CDAC reserves the right to levy a penalty of 0.5% of the order value per week of delay beyond the scheduled deliveries/execution of the order successfully, subject to a maximum of 5 % of the order value.

CDAC reserves the right to cancel the order in case the delay is more than 10 weeks.



The delay in delivery and/or installation not attributed to the supplier viz. site preparation, submission of required documents etc. and the conditions arising out of Force Majeure will not be considered for calculating penalties.

11. Jurisdiction:

The disputes, legal matters, and court matters, if any shall be subject to Pune jurisdiction only.

12. Force Majeure:

CDAC may consider relaxing the penalty and delivery requirements, as specified in this document, if and to the extent that, the delay in performance or other failures to perform its obligations under the contract is the result of a Force Majeure. Force Majeure is defined as an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, storms etc.), pandemics, acts of states/state agencies, the direct and indirect consequences of wars (declared or undeclared), hostilities, national emergencies, civil commotion and strikes at successful Bidder's premises or any other act beyond the control of the bidder.

13. Arbitration:

All disputes/claims of any kind arising out of supply, commissioning, acceptance, warranty maintenance etc under this Contract, shall be referred by either party (CDAC or the bidder) after issuance of 30 days' notice in writing to the other party mentioning the nature of the dispute to the Sole Arbitrator appointed by CDAC. The venue for arbitration shall be specified in the purchase order/agreement. The arbitration proceedings shall be conducted in English and as per the provisions of the Indian Arbitration and Conciliation Act, 1996. The decision of the Arbitrator shall be final and binding on both parties.

14. Risk and Ownership:

Upon 80% of payment, CDAC shall become owners of goods ordered but all risks, responsibilities; liabilities thereof in all goods shall remain with the selected bidder till delivery of all goods to all end users. Part deliveries shall not be treated as deliveries. Only full deliveries of all items ordered will be considered as delivery.

15. Indemnity:

The selected bidder shall save and indemnify and hold harmless CDAC from any third party Govt. Claims, losses penalties, if any, arising in connection with this Contract.

16. Assignment:

Selected bidder/ Party shall not assign, delegate or otherwise deal with any of its rights or obligation under this Contract without prior written permission of CDAC.

17. Severability:

If any provision of this Contract is determined to be invalid or unenforceable, it will be deemed to be modified to the minimum extent necessary to be valid and enforceable. If it cannot be so modified, it will be deleted and the deletion will not affect the validity or enforceability of any other provision.

(END OF SECTION – III)



SECTION – IV – SCHEDULE OF REQUIREMENTS

Technical Specifications for HPC Cluster at Upgradation of PARAM BILIM Supercomputer at IKCEICT, Nur-Sultan, Kazakhstan

(Master Node, Compute Nodes, and GPU Node should be on the same processor platform.)

Sr. No.	Items	Description
1.1	Master Node: QTY 01 Number	
	Processor	Dual CPU based server must adhere to below points: a. Latest generation processor b. Minimum 24 cores per processor c. Specrate2017_fp_base >= 200 d. Specrate2017_int_base >= 220 e. Native support of AVX512 instructions f. The quoted processor must support PCIe Gen 4 g. Minimum clock frequency of CPU 2.4GHz. h. SPEC benchmark report for the offered model with the same configuration as required must be submitted with the bid
	RAM	Minimum 256 GB DDR4 with minimum 3200 MHz ECC Memory in a balanced configuration.
	Network	2 x 1Gbps Ethernet ports with PXE boot compatibility
	Remote Management	Dedicated remote management port, IPMI 2.0 or equivalent support with KVM and Media over LAN features with additional licenses if any. Should have support for Redfish API or equivalent for server management
	HPC Interconnect NIC	1x Single port Mellanox IB HDR 100 HCA Adaptor
	DVD	One number DVD RW/DVD combo (internal or external)
	HDD	8 x 4000GB 7.2K RPM NL-SAS drives and with Support for Hardware RAID 0, 1, 10, 5 and 50
	OS support	Fully certified/compatible with RHEL (7.x or later)
	Power supply	Redundant and Hot Pluggable, 80 Plus Platinum or better-certified power supply along with IEC 14 type Power cables
	Form Factor	2U rack-mountable or smaller form factor, compatible with quoted standard 19" 42U Rack PDU
	Graphics	On-board graphics support



1.2	CPU only Compute Nodes: QTY 03	
	Processor	Dual CPU based server must adhere to the below points: a. Latest generation processor b. Minimum 24 cores per processor c. Specrate2017_fp_base >= 200 d. Specrate2017_int_base >= 220 e. Native support of AVX512 instructions f. The quoted processor must support PCIe Gen 4 g. Minimum clock frequency of CPU 2.4GHz. h. SPEC benchmark report for the offered model with the same configuration as required must be submitted with the bid
	RAM	Minimum 256 GB DDR4 with minimum 3200 MHz ECC Memory in a balanced configuration.
	Network	Two 1GbE network ports with PXE boot capability
	HPC Interconnect NIC	1x Single port Mellanox IB HDR 100 HCA Adaptor
	Remote Management	IPMI 2.0 or equivalent Support with KVM and Media over LAN features with additional licenses if any. Should have support for Redfish API or equivalent for server management.
	SSD	2 x 1.92TB Enterprise Grade -SATA SSD with the endurance of a minimum of 1 DWPD
	OS support	Fully certified/compatible with the latest RHEL 7.x or the latest
	Power supply	Redundant and Hot Pluggable, 80 Plus Platinum or better-certified power supply along with IEC 14 type Power cables
	Form Factor	1U or better
1.3	GPU Compute Node with NVIDIA V100S GPU – QTY 01 number	
	Processor	Dual CPU based server must adhere to below points: a. Latest generation processor b. Minimum 24 cores per processor c. Specrate2017_fp_base >= 200 d. Specrate2017_int_base >= 220 e. Native support of AVX512 instructions f. The quoted processor must support PCIe Gen 4 g. Minimum clock frequency of CPU 2.4GHz. h. SPEC benchmark report for the offered model with the same configuration as required must be submitted with the bid
	RAM	Minimum 256 GB DDR4 with minimum 3200 MHz ECC Memory in a balanced configuration.
	GPU	2 x NVIDIA® V100S GPU Computing Accelerator



		The quoted GPU card must support PCI Express 3.0 x16/ Backward compatibility
	Network	Two 1GbE network ports with PXE boot capability
	HPC Interconnect NIC	1x Single port Mellanox IB HDR 100 HCA Adaptor
	Remote Management	IPMI 2.0 or equivalent Support with KVM and Media over LAN features with additional licenses if any. Should have support for Redfish API or equivalent for server management.
	SSD	4 x 1.92TB Enterprise Grade -SATA SSD with the endurance of a minimum of 1 DWPD
	OS support	Fully certified/compatible with the latest RHEL 7.x or the latest
	Power supply	Redundant and Hot Pluggable, 80 Plus Platinum or better-certified power supply along with IEC 14 type Power cables
	Form Factor	2U or better form factor
1.4	Monitor, Keyboard and Mouse – 1 Qty.	2U or better rack-mountable 17” LCD Monitor console, with integrated Keyboard and Mouse
2.	HPC Communication Network	
2.1	Primary Communication Network	
	Switch	Required number of HDR/HDR 100 InfiniBand switches to connect all the Compute Nodes, GPU Nodes, Master Node in fully 100% non-blocking topology
	Management	At least one switch should Manage to have a Built-in Fabric Manager
	Cables	Required number of cables to connect all Compute Nodes, GPU Nodes, Master Node. Etc.
	Power Supply	Redundant power supply
	Power cables	IEC 14 type of Power cables
		Rack mounting kit if required
2.2	Secondary Communication Network	
	Ethernet Switch	Required number of switches to connect all Compute Nodes, GPU Nodes, Master Nodes. Etc.
	Cables	Required number of cables to connect all the Compute Nodes, GPU Nodes, Master Node. Etc.
	Power cables	IEC 14type of power cables
2.3	IPMI Communication Network	



	Ethernet Switch	Required number of switches to connect all Compute Nodes, GPU Nodes, Master Node. Etc.
	Cables	Required number of cables to connect all the Compute Nodes, GPU Nodes, Master Node. Etc.
	Power cables	IEC 14 type of power cables
3.	SOFTWARE	
	Compilers & Libraries	Commercial: Intel® oneAPI Base & HPC Toolkit (Multi-Node) - Academic 2 Concurrent User, Max 10 Developers Supported for 3yrs (ESD)

SCOPE OF WORK:

1. Racking, stacking, and cabling of the supplied hardware at IKCEICT, Nur-Sultan, Kazakhstan.
The bidder needs to use the existing rack for racking and staking
2. The bidder should provide the total cooling and Power rating of the quoted hardware.
3. Documentation and Manuals of all systems are to be supplied.
4. 3-years onsite comprehensive warranty.

(End of Section – IV)



SECTION V – TECHNICAL BID SUMMARY

Name of Indian Bidder:

Address:

Contact Details with email id, phone no. of the supplier on whom the order is to be placed & L.C. to be established (For Foreign Currency Order):

As per 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, Gol, read with order number W-43/4/2019-IPHW- MeitY, dated 7th September 2020 issued by IPWH division of MeitY, Gol., we hereby certify the details about goods offered by us, as given below: (Bidder may add rows if required).

Sr. No	Item Description,	Make & Model	Country of origin of OEM	Country of Manufacture of item	Country of Shipment	*Percentage of local contents as defined by order number W-43/4/2019-IPHW- MeitY, dated 7th September 2020 issued by IPWH division of MeitY, Gol
1	HPC Cluster Nodes					
1.1	Master Node					
1.2	CPU Compute Node					
1.3	GPGPU Node					
1.4	17" LCD Monitor, Keyboard & Mouse – 2U console					
2	HPC Communication Network					
2.1	Primary Communication Network					
2.2	Secondary Communication Network					
2.3	IPMI Communication Network					
3	SOFTWARE TOOLS ETC.					
3.3	Compilers & Libraries: Commercial: Intel one API					

Supply & Installation of HPC Systems with interconnect, software tools etc at Nur-Sultan, Kazakhstan.



	base & HPC Toolkit (Multi-Node): Academic 2 Concurrent user, Max 10 Developers supported for 3 yrs (ESD)					
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(*While declaring the Local content percentage, the (DPIIT-PP) OM No. P-45021/102/2019-BE-II-Part (1) (E-50310) Dt. 4 March 2021 – must be taken into consideration by the bidders/OEMs)

C-DAC will seek the approval of 'relaxation towards the M.I.I. contents' from the Competent Authority for the relevant items above.

NOTE: M.I.I. Purchase Preference – NOT APPLICABLE.

We also certify that we are not from a country sharing a land border with India as defined in order No. F/No/6/18/2019-PPD dated 23 July 2020 issued by public procurement Division, Dept. of Expenditure, Ministry of Finance, GoI and the goods offered by us comply with the provisions of said order.

Note:

- The bidder must consider and quote all the items to complete the upgrades and commissioning job as per the requirements.
- This format is indicative; bidders may add rows for additional items if any, required for successful completion of the entire project/ all activities.
- All the commercial terms and conditions of supply must be mentioned clearly.

(End of Section – V)



SECTION VI – PRICE SCHEDULE (Un-Priced Bid) BOQ .xls

Supply, Installation, Testing and Commissioning of HPC Cluster upgradation:

[Validate](#)
[Print](#)
[Help](#)
[Item Wise BoQ](#)

Tender Inviting Authority: CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING, Pashan, PUNE 411008, INDIA.

Name of Work: Supply, Installation of HPC Cluster at Nur-Sultan, Kazakhstan.

Tender No: CDACP/HPC-KAZAKHSTAN/22-23/343

Name of the Bidder/ Bidding Firm /							
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)							
NUMBER #	TEXT #	NUMBER	TEXT #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Quoted Currency in US \$ Currency	BASIC RATE in Figures To be entered by the Bidder in US \$	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	6	7	8	9
1	HPC CLUSTER WITH INTERCONNECT, SOFTWARE ETC						
1.01	Master Node	1	Nos	USD		0.00	USD Zero Only
1.02	CPU only Compute Nodes	3	Nos	USD		0.00	USD Zero Only
1.03	GPGPU Compute Node	1	Nos	USD		0.00	USD Zero Only
1.04	17" LCD Monitor, KB, Mouse - 2U Console	1	Nos	USD		0.00	USD Zero Only
1.05	Primary Communication Network	1	Nos	USD		0.00	USD Zero Only
1.06	Secondary Communication Network	1	Nos	USD		0.00	USD Zero Only
1.07	IPMI Communication Network	1	Nos	USD		0.00	USD Zero Only
1.08	Software-Intel Compiler & HPC Toolkit etc.	1	Nos	USD		0.00	USD Zero Only
1.09	Any other component/parts required to complete the entire job	1	Lot	USD		0.00	USD Zero Only
1.1	Any other charges required to complete the job as per tender	1	Lot	USD		0.00	USD Zero Only
Total in Figures						0.00	Zero Only
Quoted Rate in Words							

(End of Section – VI)



ANNEXURE A: COVERING LETTER

Date:

To:

**The Executive Director,
Centre for Development of Advanced Computing (C-DAC)
Innovation Park, Panchavati, Pashan Road,
Pune - 411008 Maharashtra, INDIA**

Subject: Submission of bid for Supply, Installation & Commissioning of HPC Cluster with Interconnect, Software tools etc.

Dear Sir,

We, the undersigned, offer to Supply, Installation & Commissioning of HPC Cluster with Interconnect, Software tools etc., in response to your Tender No **CDACP/HPC-KAZAKHSTAN/22-23/343**. We are hereby submitting our proposal for the same, which includes a Technical bid and the Financial Bid on www.eprocure.gov.in

We hereby declare that all the information and statements made in this bid are true and we accept that any misinterpretation contained in it, may lead to our disqualification.

We undertake, if our proposal is accepted, to submit a Security Deposit of 5 % of the contract/order value, as per terms stipulated in the tender.

We hereby certify that my/ our firm has not been disqualified and/or blacklisted by any Office/ Department/ Undertaking of the State Government / Central Govt. of India, PSU/ Autonomous Body of Government of India, at the time of submission of this bid.

We agree to abide by all the terms and conditions of the tender document, including corrigenda. We would hold the terms of our bid valid for 120 days as stipulated in the tender document.

We understand you are not bound to accept any Proposal you receive.

The undersigned is authorized to sign this bid document. The authority letter to this effect is enclosed.

Yours sincerely,

Authorized Signatory:

Name and Title of Signatory:

email:

Mobile No:



ANNEXURE B: AUTHORITY LETTER

Date:

To:

**The Executive Director,
Centre for Development of Advanced Computing (C-DAC)
Innovation Park, Panchavati, Pashan Road,
Pune - 411008 Maharashtra, INDIA**

Subject: Authority Letter

Reference: Tender No **CDACP/HPC-KAZAKHSTAN/22-23/343**

Dear Sir,

We, M/s _____ (Name of the bidder) having registered office at _____
(address of the bidder) herewith submit our bid against the said tender document.

Mr./Ms. _____ (Name and designation of the signatory), whose signature is appended
below, is authorized to sign and submit the bid documents on our behalf against said RFP

Specimen Signature:

The undersigned is authorised to issue such authorisation on behalf of us.
For M/s _____ (Name of the bidder)

Signature and company seal

Name

Designation

Email

Mobile No.



ANNEXURE C: EMD UNDERTAKING

Date:

To:

The Director-General,
Centre for Development of Advanced Computing (C-DAC)
Innovation Park, Panchavati, Pashan Road,
Pune - 411008 Maharashtra, INDIA

Subject: Undertaking as per GFR – 2017, Rule 170(iii)

Dear Sir,

We, the undersigned, offer to at C-DAC, Pune, in response to your Tender / GeM Bid No. We are hereby submitting our proposal for the same, which includes the Technical bid and the Financial Bid through CPPP / GEM. As a part of the eligibility requirement stipulated in said tender document, we hereby submit a declaration instead of Earnest Money Deposit (EMD), as given below:

1. Our bid shall remain valid for 120 days from the date of submission and we will not withdraw or modify our bid during the validity period,
2. In case, we are declared as the successful bidder and an order is placed on us, we will submit the acceptance in writing within 7 days of placement of the order on us.
3. In case, we are declared as the successful bidder and an order is placed on us, we undertake, to submit a Security Deposit / Performance Bank Guarantee of 5 % of the order value, as per terms stipulated in the tender.
4. In case of failure on our part to comply with any of the above-said requirements, we are aware that we shall be declared as un-eligible for said tender and /or debarred/blacklisted from any future bidding process of C-DAC for a minimum of one year.
5. The undersigned is authorized to sign this undertaking.

Yours sincerely,

Authorized Signatory:

Name and Title of Signatory:

e-mail:

Mobile No:



ANNEXURE D: MANUFACTURER AUTHORISATION FORMAT

(On manufacturer's letterhead)

Date:

**Material Management Group
Centre for Development of Advanced Computing
Innovation Park, PANCHAVATI, Pashan Road,
Pune – 411 008.**

Subject: Manufacturer authorisation against tender no. CDACP/HPC-KAZAKHSTAN/22-23/343
for Supply, Installation & Commissioning of **HPC Cluster at Nur-Sultan, Kazakhstan.**

Dear Sir,

We, M/s (*Name of the manufacturer*) having registered office at (*address of the manufacturer*) hereby virtue of being manufacturer for (*Name of the product/s*), hereby authorise M/s (*Name of the bidder*) having their office at (*Address of bidder*) to submit a quote, negotiate, supply, install and provide after-sales support, warranty support for our range of products quoted by them to meet the above mentioned tender requirements at **Nur-Sultan, Kazakhstan.**

M/s (*Name of the manufacturer*) within the scope of requirement as per the tender mentioned above through its authorised partner M/s (*Name of the bidder*) shall provide support & product warranty services for a minimum period of three years from the date of supply, installation & acceptance.

The undersigned is authorised to issue such authorisation on behalf of M/s (*Name of the manufacturer*).

For M/s (*Name of the manufacturer*)

Signature & company seal

Name

Designation

e-mail

Mobile No.



ANNEXURE E - PROFORMA OF PERFORMANCE BANK GUARANTEE

(on non-judicial paper of appropriate value)

To,

**Centre for Development of Advanced Computing
Pune University Campus
Ganesh Khind, Pune – 411 007**

BANKS GUARANTEE NO:

DATE:

Dear Sir(S)

This has reference to the Purchase Order No. _____ Dated _____ been placed by the Centre for Development of Advanced Computing, (CDAC) Pune under the project from MEA on M/s (Name & Address of vendor) for supply, installation, commissioning and warranty of (description of items) at client's site.

The conditions of this order provide that the vendor shall,

1. Arrange to deliver the items listed in the said order to the consignee, as per details given in said order, and
2. Arrange to install and commission the items listed in said order at the client's site, to the entire satisfaction of CDAC and
3. Arrange for the comprehensive warranty service support towards the items supplied by a vendor on-site in Nur-Sultan, Kazakhstan, as per the warranty clause in the said purchase order.

M/s (Name of Vendor) has accepted the said purchase order with the terms and conditions stipulated therein and has agreed to issue the performance bank guarantee on their part, towards promises and assurance of their contractual obligations vide the purchase order No. _____ M/s. (name of the vendor) holds an account with us and has approached us and at their request and in consideration of the promises, we hereby furnish such guarantees as mentioned hereinafter.

CDAC shall be at liberty without reference to the Bank and without affecting the full liability of the Bank hereunder to take any other undertaking of security in respect of the suppliers' obligations and/or liabilities under or in connection with the said contract or to vary the terms vis-a-vis the supplier or the said contract or to grant time and or indulgence to the supplier or to reduce or to increase or otherwise vary the prices or the total contract value or to forebear from enforcement of all or any of the obligations of the supplier under the said contract and/or the remedies of CDAC under any security (ies) now, or hereafter held by CDAC and no such dealing(s) with the supplier or release or forbearance whatsoever shall have the effect of releasing the bank from its full liability of CDAC hereunder or of prejudicing the right of CDAC against the bank.

This undertaking guarantee shall be a continuing undertaking guarantee and shall remain valid and irrevocable for all claims of CDAC and liabilities of the supplier arising up to and until date.....



This undertaking guarantee shall be in addition to any other undertaking or guarantee or security whatsoever the that CDAC may now or at any time have concerning its claims or the supplier's obligations/liabilities under and/or in connection with the said contract and CDAC shall have the full authority to take recourse to or enforce this undertaking guarantee in preference to the other undertaking or security (ies) at its sole discretion and no failure on the part of CDAC in enforcing or requiring enforcement of any other undertaking or security shall have the effect of releasing the bank from its full liability hereunder.

We (Name of Bank)_____ hereby agree and irrevocably undertake and promise that if in your (CDAC's) opinion any default is made by M/s. (Name of Vendor) in performing any of the terms and /or conditions of the agreement or if in your opinion they commit any breach of the contract or there is any demand by you against M/s. (Name of Vendor), then on notice to us by you, we shall on demand and without demur and without reference to M/s. (Name of Vendor), pay you, in any manner in which you may direct, the amount of Rs. _____/- (Rupees _____ Only) or such portion thereof as may be demanded by you not exceeding the said sum and as you may from time to time require. Our liability to pay is not dependent or conditional on your proceeding against M/s (Name of Vendor) and we shall be liable & obligated to pay the aforesaid amount as and when demanded by you merely on an intimation being given by you and even before any legal proceedings, if any, are taken against M/s (Name of Vendor)

The Bank hereby waives all rights at any time inconsistent with the terms of this undertaking guarantee and the obligations of the bank in terms hereof shall not be anywise affected or suspended because of any dispute or disputes having been raised by the supplier (whether or not pending before any arbitrator, Tribunal or Court) or any denial of liability by the supplier or any order or any order or communication whatsoever by the supplier stopping or preventing or purporting to stop or prevent payment by the Bank to CDAC hereunder.

The amount stated in any notice of demand addressed by CDAC to the Bank as claimed by CDAC from the supplier or as suffered or incurred by CDAC on the account of any losses or damages or costs, charges and/or expenses shall as between the Bank and CDAC be conclusive of the amount so claimed or liable to be paid to CDAC or suffered or incurred by CDAC, as the case may be and payable by the Bank to CDAC in terms hereof.

You (CDACs) shall full liberty without reference to us and without affecting this guarantee, postpone for any time or from time to time the exercise of any of the powers and rights conferred on you under the contact with the said M/s (Name of Vendor) and to enforce or to forbear from endorsing any power or rights or because of time being given to the said M/s (name of Vendor) which under the law relating to the sureties would but for the provisions have the effect of releasing us.

You will have full liberty without reference to us and without affecting this guarantee, postpone for any time or from time to time the exercise of any of the powers and rights conferred on you under the contract with the said M/s. (Name of Vendor) and to enforce or to forbear from endorsing any power or rights or because of time being



given to the said M/s. (Name of Vendor) which under the law relating to the sureties would but for the provisions have the effect of releasing us.

Your right to recover the said sum of Rs. _____ /- (Rupees _____ only) from us in manner aforesaid will not be affected/or suspended by reason of the fact that any dispute or disputes have been raised the said M/s _____ and/or that any dispute or disputes are pending before any officer, tribunal or court or Arbitrator.

The guarantee herein contained shall not be determined or affected by the liquidation or winding up, dissolution or change of constitution or insolvency of the said M/s. (Name of Vendor) but shall in all respects and for all purposes be binding and operative until payment of all dues to CDAC in respect of such liability or liabilities.

Our liability under this guarantee is restricted to Rs. _____/- (Rupees _____ Only) Our guarantee shall remain in force until unless a suit action to enforce a claim under guarantee is filed against us within six months from (which is the date of expiry of guarantee) all your rights under the said guarantee shall be forfeited and we shall be relieved and discharged from all liabilities thereunder.

We have the power to issue this guarantee in your favour under the Memorandum and Articles of Association of our Bank and the undersigned has full power to do under the power of Attorney dated.

Notwithstanding anything contained herein:

- A. Our liability under this guarantee shall not exceed Rs. (in words)
- B. This bank guarantee shall be valid up to & unless a suit for action to enforce a claim under guarantee is filed against us within six months from the date of expiry of the guarantee. All your rights under the said guarantee shall be forfeited and we shall be relieved and discharged from all liabilities thereafter i.e. after six months from the date of expiry of this Bank guarantee
- C. We are liable to pay the guaranteed amount or any parts thereof under this bank guarantee only and only if you serve upon us a written claim or demand or before
- D. The Bank guarantee will expire on

Granted by the Bank

Yours faithfully,

For (Name of Bank)
SEAL OF THE BANK

Authorised Signatory



ANNEXURE F: DOCUMENTS CHECK LIST

Sr. No.	Documents to be Submitted	Submitted (Yes / No)
	e-packet – 1 (Section 1)	
1	Covering Letter as per Annexure - A.	
2	Authority Letter as per Annexure – B	
3	Demand Draft for Rs. 2000/- towards processing fee	
4	Demand Draft / Exemption documents towards EMD	
5	A copy of Certificate of Incorporation, Partnership Deed / Memorandum and Articles of Association / any other equivalent document showing date and place of incorporation, as applicable.	
6	A copy of the GST registration certificate.	
7	Copy of at least ONE purchase order and installation report in the name of bidder from the end client/end user, as per eligibility criteria.	
8	A photocopy of the commercial bid without prices (prices blocked) and a copy of commercial terms & conditions (in detail) as included in the commercial bid. CDAC reserves the right to reject the bid in case of any discrepancy observed in the un-priced commercial bid and the actual commercial bid.	
9	Undertaking to the effect that a Security Deposit of 5% of the order value will be submitted in case C- DAC decides to place the Purchase Order.	
10	Undertaking to the effect that the bidder is not black-listed or barred from participation in the bidding process by any Central/ State Government, Government Department, Government Undertaking, Public Sector Unit (PSU) or autonomous institution, as on the date of submission of bids.	
11	All the necessary documents in support of eligibility criteria stipulated in the Eligibility Criteria section.	
12	Duly filled Technical Bid (covering the details of the solution, detailed bill of material, technical specifications, makes and models of items, etc.)	
	e –packet 2 – (xls format)	
1	Price Bid as per BOQ .xls format given in Section – VI	

(END OF THE DOCUMENT)