

Tender No. 1(1)/2017-Admn


NOTICE INVITING e-TENDER (NIT)

Tender No: 1(1)/2017-Admn

Dated 12 March, 2019

Centre for Development of Advanced Computing (C-DAC), Noida under the Ministry of Electronics and Information Technology, Govt. of India, invites electronic bids in **two bid system** (1 Technical Bid, 2 Financial Bid) from well-established experienced Agencies for **“Providing Terrace Pump, Diesel Pump and allied works in existing Fire Fighting system for Anusandhan Bhawan, C-DAC at C-56/1, Sector 62, Noida – 201309 (U.P.)”**.

Tender document can be downloaded from the website at URL link: www.eprocure.gov.in or from www.cdac.in

 [Click to Download the Tender Document](#) (File Format: PDF, File Size: **881KB**). The details of tender are as below:

1. **Issue of Tender Document** : 14 March, 2019
2. **Pre-bid Meeting** : At 11:00 AM on 18 March, 2019
3. **Receipt of Bids** : By 03:00 PM on 28 March, 2019
4. **Technical Bid Opening** :At 03:30 PM on 29 March, 2019
5. **EMD (Refundable)**: Rs. 20,000/- (Rupees Twenty Thousand Only) in the form of DD / Pay Order favoring C-DAC payable at Noida. In case of non-submission of EMD, the bid will be rejected. If the Tenderer is exempted from submitting the EMD, the Tenderer should upload the relevant supporting document (exempting the Tenderer from submitting the EMD) along with the technical bid, without which the bid will be considered invalid and rejected.

Opening of Technical & Price Bid

Only the technical bids will be opened on Bid Opening Date. Price bids of short-listed / technically qualified bids would be opened on a later date & time under intimation to all successful Tenderers. No Tenderer is required to be present in C-DAC office for any e-tender opening process. Tenderers can view the status & tender opening statement by logging on to e-procure site. The bids complete in all respects should be uploaded at the given site above by the due date and time.

Associate Director & Head of Administration

Phone: 0120-3063305, 3063386

CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING (C-DAC)

(A Scientific Society of the Ministry of Electronics and IT, Govt. of India)
Anusandhan Bhawan, C-56/1, Institutional Area, Sector-62, Noida-201309.

INSTRUCTIONS TO TENDERER

Prequalification Criteria:

1. Eligible Tenderer:

- (i) Should be a Company / Firm / Propriety which has been incorporated/in existence for a minimum period of **5 years** and has a permanent establishment in **Delhi/NCR** (copies of certificate of incorporation and proof of address to be submitted).
- (ii) Average Annual financial turnover during the last 3 years, ending of the previous financial year, should be **at least Rs. 3.0 Lacs**. (Copies of audited balance sheet and PL Statement certified by Chartered Accountant should be uploaded)
- (iii) Should have successfully executed building Fire Fighting works for a government department/ organization / reputed companies during past five years (**between 2013 and 2018**) with following criteria:
 - a) Three works of minimum value Rs 4 Lacs each, or
 - b) Two works of minimum value Rs 5 Lacs each, or
 - c) One works of minimum value Rs 8 Lacs

(Copy of satisfactory completion certificates issued by the client clearly indicating value of work shall be uploaded)
- (iv) Should have all the necessary registrations (as per the Pre-Qualification details asked in enclosed Pro forma I & II) like GST / PAN etc. and the proofs should be uploaded. In absence of supporting documents, the Bid is liable to be rejected

2. Earnest Money Deposit:

The tenderer shall be required to submit the Earnest Money Deposit (EMD) for an amount of Rs.20,000/- (Rupees Twenty Thousand only) by way of demand drafts / Pay order only in favor of C-DAC payable at Noida.

The original demand draft / Pay order for earnest money deposit must be submitted separately enclosed in the envelope containing the technical bid. Any technical bid is found without the demand drafts of earnest money deposit will be rejected. The C-DAC will not be liable to pay any interest on such an amount. The earnest money deposit shall be forfeited, if the tenderer withdraws its bid during the period of tender validity.

The earnest money deposit of the tenderer, whose tender has been accepted, will be converted in Security Deposit. Earnest money deposit of the successful tenderer shall be forfeited, if it refuses or neglects to execute the order.

After the award of the contract to the successful tenderer, the earnest money deposit of the unsuccessful tenderer(s) will be refunded within 30 days.

3. Validity:

Quoted rates must be valid for a period of 120 days from the date of the closing of the tender. The overall offer for the assignment and tenderer quoted price shall remain unchanged during the period of validity. If the tenderer has quotes the validity shorter than the required period, the same will be treated as unresponsive and it may be rejected.

In case the tenderer withdraws, modifies or changes his offer during the validity period, the tender is liable to be rejected and the earnest money deposited shall be forfeited without assigning any reason thereof. The tenderer should also be ready to extend the validity, if required, without changing any terms, conditions etc. of their original tender.

4. Liquidated Damages (LD):

If the Contractor has fails to perform the satisfactory installation / commissioning of the fire-fighting works and / or which is not ready to use within stipulated time then penalty at the rate of 0.5% per week subject to maximum of 10% of the balance value of work will be deducted. In case the Contractor has failed to complete the order / project within the stipulated time, C-DAC reserves the right to cancel the contract / order and EMD may be forfeited.

5. Bid Submission:

Note: Before submission of the bid, the Tenderers must verify the eligibility criteria and also ensure fulfilling all the terms and conditions. In the absence of scanned uploaded copies of documents / certificates under eligibility criteria above, the bid is liable to be rejected.

(A) Bids must be uploaded on e-tender site of NIC- eprocure.gov.in/ [eprocure/app](#) along with scanned copies of other related documents.

The bid must be uploaded in two parts as:

(B) Part No. 1 (Technical Bid) shall contain:

(i) Earnest Money Deposit (EMD) of **Rs. 20,000/- (Rupees Twenty Thousand Only)** in the form of DD / Pay Order favoring C-DAC payable at Noida. The scanned copy of DD/Pay order for EMD should be uploaded with the Technical Bid. In case of non-submission of EMD the tender will be considered invalid and will be rejected. The original DD/Pay orders deposited/posted in sealed cover super-scribing tender number with work detail- **“Providing Terrace Pump, Diesel Pump and allied works in existing Fire Fighting system for Anusandhan Bhawan, C-DAC at C-56/1, Sector 62, Noida – 201309 (U.P.)”**. The name of Tenderer and tender number should be clearly written on back of DD/Pay order to avoid mixing/loss of instrument. Similarly if Tenderer is exempted from submission of EMD, necessary documents must be submitted in lieu of original DD / Pay order and must reach on before the due date and time of bid opening as given in NIT of this tender.

(ii) Technical bid with full details including description of Makes of the materials for technical assessment of the proposal. The Tenderer must quote only for reputed and ISI Mark materials.

(iii) An Undertaking as mentioned under Eligibility Criteria.

(iv) The Tenderers should upload Pre-Qualification Proforma –I (as given at page No. (23) duly filled with proper seal and signatures of authorized person.

(v) The Tenderers should upload Pre-Qualification Proforma –II (as given at page No. (24) duly filled with proper seal and signatures of authorized person.

(vi) The Tenderers should upload documentary proof in support of satisfactory completion of similar work

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(vii) All the documentary proof of applicable standards and bench marks should be uploaded along with the technical bids.

(viii) The onsite defect liability services for a period of one year from date of completion of work.

(ix) Tender acceptance letter (**Annexure-C**) on Tenderer's letter head in token of acceptance to the terms and conditions as laid down in the tender document. A scanned copy of the bid document duly signed by the Tenderer's authorized representative is to be uploaded in token of acceptance of the same. Any deviation in the general terms and condition may lead to the rejection of the bid.

Important Note:

a) If the bid is incomplete and / or non-responsive it will be rejected during technical evaluation. The Tenderer may not be approached for clarifications during the technical evaluation. So Tenderers are requested to ensure that they provide all necessarily details in the submitted bids.

b) If any price details are found in the Technical Bid, the offer will be summarily rejected.

(C) Part -II (Price Bid):

i. The price bid (BOQ) in excel sheet format as per Annexure-B shall be uploaded online only. PRICE BID SHOULD NOT BE SUBMITTED IN A SEALED ENVELOPE.

ii. The PRICE PART shall contain only schedule of rates duly filled in. No stipulation, deviation, terms & conditions, presumptions etc. is permissible in price part of the bid. CDAC shall not take any cognizance of any such conditions and may at its discretion reject such price bid.

iii. Prices should be given in INR in figures only.

iv. Tenderers are advised to fill the BOQ file as per following instructions:

a) The Tenderer has to download the BOQ file along with tender documents and subsequent corrigendum, if any.

b) Tenderer to note that there are WHITE cells in BOQ file, which should not be modified by the Tenderer. Tenderers are advised to fill the GREY cells meant for the rates, which are to be entered by the Tenderers.

c) Tenderers are advised strictly not to alter or change the BOQ format /contents. Tenderers are also advised not to paste any image file with BOQ.

d) The Tenderer shall submit the tender online on e-tendering site eprocure.gov.in/eprocure/app on or before the due date & time of bid submission. Tender submitted by any other form (fax/email/courier/post/hard copy) will not be accepted.

e) Price offered by the Tenderer shall not appear anywhere in any manner in the technical bid.

INSTRUCTION TO e-TENDERER (ITB)

(A) Pre-bid meeting: C-DAC shall organize a pre-bid meeting at **11.00 AM** as per prescribed date in tender at Anusandhan Bhawan, C-DAC Noida to address the queries of the Tenderers. All the Pre-bid queries must reach C-DAC, Noida before the date of Pre-bid Meeting. Based on the feedback / suggestions from the Tenderers, modified Tender (including list of sections where corrections have been made) will be hoisted on the website (www.cdac.in / www.eprocure.gov.in), if required. C-DAC may also make changes in the RFP on its own; therefore Tenderers are requested to visit the said website on regular basis for checking necessary updates. The decision of C-DAC regarding acceptability of suggestion (or otherwise) shall be final or shall not be called upon to question under any circumstances.

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(B) Offer Validity: Offers should be valid for minimum One Hundred and Twenty (120) Days from the date of opening the Technical Bid. A bid, valid for a shorter period, is liable to be rejected. C-DAC, Noida may ask the Tenderers to extend the period of validity, if required.

(B) Time of Completion: The Schedule time of completion for the work is within **One Month** from the date of Work Order

(C) Product Specifications & Compliance Statement: The Tenderer should quote rates using the materials strictly as per the tender specifications and only of technically reputed brands / makes with ISI Mark. Complete technical details along with brand, specification, technical literature etc. highlighting the specifications must be supplied along with the technical bid. Each page of the bid and cuttings / corrections shall be duly signed and stamped by the authorized signatory. Failure to comply with this requirement may result in the bid being rejected.

(G) Earnest Money Deposit is liable to be forfeited and bid is liable to be rejected, if the Tenderer withdraw or amends impairs or derogates from the tender in any respect within the validity period of the tender.

(H) The Earnest Money of all unsuccessful Tenderers shall be returned as early as possible within the Bid Validity period but not before 30 days from the date of Work Order. No interest will be payable by C-DAC on the Earnest Money Deposit. The Earnest Money of successful Tenderer shall be adjusted against S.D. of the work.

(I) if any material or part thereof is lost or found defective during execution, the Tenderer shall immediately arrange to bring the materials or part thereof, as the case may be, at no extra cost.

(J) The rates should be quoted in **Indian Rupees**, for the entire work to be done at site, both IN WORDS & FIGURES. All the quoted prices shall be fixed and shall not be subject to escalation.

(K) GST shall be paid as per actual, Building and other Construction Workers Welfare Cess or any other tax or Cess in respect of this contract shall be payable by the Contractor and C-DAC shall not entertain any claim whatsoever in this respect.

(L) C-DAC, Noida reserves the right to accept / reject the offers or cancel the whole tender proceedings without assigning any reason whatsoever. Late / Delayed offers shall not be accepted under any circumstances. Incomplete offers will be rejected. In case the specified date for the submission of offers being a holiday or declared holiday for C-DAC, the bid-closing deadline shall stand extended to the next working day up to the same time.

(M) C-DAC shall not be responsible for delayed submission or non- submission of bid due to any reason whatsoever. The Tenderers are requested to submit the bid online much before date & time of submission, failing which C-DAC shall not be responsible for any such technical problem.

(N) *E-tender Tenderers are requested to note that all communication will be made through procurement portal only. C-DAC reserve the right not to take cognizance of the communication made outside procurement portal.*

(O) Any attempt of direct or indirect negotiations on the part of the Tenderer with the authority to whom the bid has been submitted or authority who is competent to finally accept / reject the same after the tender has been submitted or any endeavor to secure any interest for an actual or prospective Tenderer or to influence by any means the acceptance of a particular tender will render the tender liable to be rejected.

(P) Disclaimer: This Tender is not an offer by C-DAC, Noida, but an invitation for Tenderer's response. No contractual obligation whatsoever shall arise from the tender process.

(Q) Declaration: The Tenderer would be required to give a certificate as below in his commercial bid.

“I/WE UNDERSTAND THAT THE QUANTITY PROVIDED ABOVE IS SUBJECT TO CHANGE. I/WE AGREE THAT IN CASE OF ANY CHANGE IN THE QUANTITIES REQUIRED, I/ WE WOULD BE EXECUTING THE WORK AT THE RATES AS SPECIFIED IN THIS PRICE BID. I /WE AGREE TO ADHERE TO THE PRICES GIVEN ABOVE EVEN IF THE QUANTITIES UNDERGO A CHANGE”.

SIGNATURE OF THE TENDERER WITH STAMP

CHECK LIST FOR SUBMISSION OF TENDER

Sl. No.	List of documents (to be uploaded as scanned copies)	(Please Tick Mark)	Proof of document vide Page No.
1.	Demand Draft for EMD of Rs. 20000/-		
2.	Documentary proof for exemption from payment of EMD such as appropriate registration with NSIC etc. (if applicable)		
3.	Copy of PAN		
4.	Copy of GSTIN		
5.	Copy of last three years Audited Balance Sheet: 2015-16, 2016-17 & 2017-18.		
6.	Copy of last three years Income Tax Return: 2015-16, 2016-17 & 2017-18.		
7.	Copy of work Orders		
8.	Copy of Performance Certificates		
9.	Copy of Tender Acceptance Letter		

6. Tender Evaluation:

The C-DAC will evaluate the entire tenders, strictly on the basis of the terms & conditions incorporated in the tender enquiry document and terms, conditions etc. as stipulated by the tenderer(s) in their tender to determine whether these are compliance in all respects, as specified in the tender enquiry document.

During the evaluation / scrutiny of the tenders, at any stage, if it is found that any of the tenderer(s) terms and conditions are not compliance with tender enquiry document, C-DAC may seek the clarification within the specified target time and if the tenderer has fails to reply / or not

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agree / accept the terms and conditions, their tender will be treated as unresponsive and it is liable for rejection.

If the schedule of requirements contains more than one schedule, then offers for each schedule are to be evaluated and ranked separately, if it is in the benefit of the C-DAC, order may be awarded accordingly.

Evaluation of the proposals shall be done as under:

Technical Evaluation:

- C-DAC will examine all the bids to determine whether these are qualifies the essential pre-qualification criteria, whether tenderer have submitted the EMD with technical Bid, whether all the documents as mentioned / or required in the tender document to be submitted with technical bid have submitted, whether all the documents are in prescribed format and has been properly signed & stamped and whether the bid are completed and generally in order.

- Tender who will not qualify technical evaluation shall be rejected.

Financial Evaluation:

- Financial bid(s) of the only technically qualified tenderer will be opened for financial evaluation.

7. Award of Contract:

After due evaluation of the financial bids, the C-DAC will award the contract to the lowest evaluated responsive tenderer (hereinafter referred to as the “Contractor”).

8. Force Majeure:

Any delay due to Force Majeure will not be attributable to the Tenderer. Force Majeure events shall mean one or more of the following acts or events: Acts of God or events beyond the reasonable control of the Affected Party which could not reasonably have been expected to occur, exceptionally adverse weather conditions, lightning, earthquake, cyclone, flood, volcanic eruption or fire or landslide; Radioactive contamination or ionizing radiation; Strikes or boycotts (other than those involving the Contractor or its employees / representatives or attributable to any act or omission of any of them) interrupting supplies and services of the Project for a period exceeding a continuous period of 7 (seven) days; An act of war (whether declared or undeclared), invasion, armed conflict or act of foreign enemy, blockade, embargo, riot, insurrection, terrorist or military action, civil commotion or politically motivated sabotage which prevents rendering of supplies or specified services by the Contractor for a period exceeding a continuous period of 7 (seven) days.

9. Arbitration and Laws:

In case of any dispute or difference arising out of or in connection with the tender conditions / order and Contract, the C-DAC and the Contractor will address the dispute / difference for a

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mutual resolution and failing which, the matter shall be referred for arbitration to a sole Arbitrator to be appointed by the C-DAC. The Arbitration shall be held in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the venue of arbitration shall be at Noida (U.P) only. The resolution of the Arbitrator shall be final and binding on both the parties.

10. Jurisdiction:

The courts at Noida (U.P) alone will have the jurisdiction to try any matter, dispute or reference between parties arising out of this tender / contract. It is specifically agreed that no court outside and other than Noida (U.P) Court shall have jurisdiction in the matter.

CONDITIONS OF CONTACT

1. The tenderer shall make his own arrangement for procurement of all materials required for the work. Quality to be verified by the Consultant/Engineer-in-charge.
2. 10% of the value of work done from each bill will be retained as Security Deposit, which shall be released only after the defect liability period of 12 months. No interest shall be paid on the retention amount.
3. The defect liability period of the work shall be 12 months from the date of completion of the work as certified by the Employer based on the recommendation of the consultant and this date will be as indicated in the provisional completion certificate. If any damage or defect occurs in the work during this period then the contractor shall rectify the damage or defect at his own expense to the satisfaction of the Employer/ Consultant. If the contractor fails to do so, then the Employer/Consultant shall have the authority to get the work done by other means and the expenditure incurred shall be recovered from the contractor.
4. The successful tenderer is bound to carry out any items of work necessary for the completion of the job even though such may not have been included in the schedule of probable quantities or rates.
5. All duties, levies and taxes, including all taxes as applicable shall be payable by the contractor. The contractor shall submit to the employer necessary documentary proof of deposit of GST, ESI, EPF, etc. to the concerned department from time to time as and when required.
6. The contractor shall observe all the formalities related to the contract labour (Regulations and Abolition Act 1972)
7. The contractor shall observe all the formalities related to the contract labour, as the contract is short termed contract.
8. The proposed project site is situated at Plot No. C-56/1, Sector 62 Noida (UP)
9. The contractor must see the site conditions drawing and take all the aforesaid factors and the forgoing factors stated under various trade sections while quoting the rates, as no extra will be allowed on any ground arising out of, or relating to the aforesaid and foregoing factors.

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10. On the completion of the works the contractor shall clear away and remove from the site all constructional plant, surplus materials, rubbish and temporary works of every kind and leave the whole of the site and works clean and in a workmanlike condition to the full satisfaction of the Employer/authorized representative not later than 15 days from the virtual completion of the works or by such other later date as fixed by the employer/Consultant.
11. The quoted rate shall remain firm and no escalation shall be considered and paid on these rates till the entire work complete satisfactorily.
12. During execution of the contract, the contractor shall furnish weekly progress reports to the Employer/Consultant and in the format as specified by the Consultant indicating the progress achieved during the week and the total progress up to the week as against scheduled and anticipated completion dates in respect of key phases of the work. The Contractor shall also furnish any other information in order to ascertain progress, if called for by the Employer /Consultant.

SPECIAL CONDITIONS

1. **WATER & ELECTRICITY:** Water & Electricity is available at site & shall be supplied free of cost.
 2. **SITE OFFICE:** The contractor shall accommodate his store, Office within the office building. The contractor is not allowed to use space outside the Office building wherein the work has to be done.
 3. **LABOUR HUTMENTS:** The contractor is not allowed to make labour hutments inside the building premises. No labour / worker is allowed to be night stay in the premises.
 4. **RATES:** The quoted rate shall remain firm and **no escalation** shall be paid on these rates during the construction period and during the extended period if any.
 5. **TIME OF COMPLETION:** Entire work shall be completed in 03 Months (Three months) from the date of commencement of work which shall be reckoned from the 7th day of date of issue of work order date of taking possession of site, whichever is earlier.
 6. **PAYMENTS:** Payment to be made in stages depending upon progress of the work as under :
 - i) **50% of order value** against supply of the specified ordered material i.e. Terrace Fire Pump Set, Diesel Fire Pump Set and fixtures etc duly certified by representatives of C-DAC.
 - ii) **40% payment of total work executed** after successful completion of the work duly certified by C-DAC's representative including obtaining and submitting Fire Clearance Certificate (NOC) from Fire Department. . Balance 10% on submission of Performance Bank Guarantee valid for Six Months after completion of work. This Bank Guarantee should remain valid till the warranty period (of One Year), which shall be commencing after the completion of entire job. No interest shall be paid for PBG or money kept on hold.
- Note:- TDS to be deducted as applicable.**
7. The successful tenderer is bound to carry out any items of work necessary for the completion of the job even though such may not have been included in the schedule of probable quantities or rates.

1.0 **TECHNICAL SPECIFICATIONS**

1.1 SCOPE OF WORK

The scope of work shall include Supply, installation, testing & commissioning of Terrace Pump Set, Main Diesel Operated Pump Set with Control Panels, Sprinkler system, fittings and fixtures in the existing Fire Fighting System at Anusandhan Bhawan of C-DAC at Plot No. C-56/1, Sector-62, NOIDA (U.P.).

The testing and commissioning of complete fire fighting system shall be carried out in presence C-DAC Representatives and Fire Officer, Noida Authority.

The Total cost shall be inclusive of obtaining NOC from Fire Officer, Noida Authority for satisfactory completion and commissioning of entire firefighting work in the Building.

1.2 SPECIFICATIONS

The work shall be executed in accordance with the specifications and drawings enclosed, the working drawings, the Bill of quantities and instructions issued from time to time. Wherever these specifications are found wanting in any way, the C.P.W.D. specifications shall apply.

1.3 Contractor's Experience

1.3.1 Contractors shall engage specialists only for this work of Fire Fighting systems.

1.3.2 The selected specialists must have sufficient experience in the execution of turn-key projects as specified.

1.4 Technical Information

Followings points to be noted by the contractor.

- a. He shall Submit detailed shop drawings.
- b. He shall Use material of specific makes and brands.
- c. He shall Obtain all approvals from Fire Fighting authorities.
- d. He shall Execute the entire work so as to provide a totally operating system.

1.5 Approvals

The contractor shall prepare all submission drawings and obtain all approvals of fire fighting works from fire fighting authorities.

1.6 Hydrant System Description

A. The water supply for the Booster Pump shall be from RCC overhead tank of capacity as shown on drawings.

- B. The Existing Hydrant system shall be kept pressurized all the times.
- C. The pressure in the Hydrant pipe work shall be kept constant at 3 Kg/cm². In the event of fire when any of the hydrant valves in the network is opened, the resultant fall in header pressure shall start the Booster Pump at terrace through pressure switches automatically.
- D. The scope of work includes providing, fixing and jointing MS pipe including testing, cutting and threading etc. with heavy class fittings like bends, tees, reducers as required on walls, ceilings, beams, floors with suitable clamps, for installation of various sizes of pipes for interconnection with the existing wet riser system.

1.7 Fire Pumps, Motors and Accessories:

Fire booster pump Specifications

General

The electric fire booster pump shall be suitable for automatic operation complete with necessary electric motor and automatic starting gear, suitable for operation on 415 volts, 3 phase, 50 Hz. AC system. Both the motor and the pump shall be assembled on a common base plate, fabricated MS channel type or cast iron type.

- A. Fire booster pump shall be suitable for clean filtered water pumps shall be end suction pump with cast iron body and Gunmetal/ bronze impeller, stainless steel shaft and coupled to a TEFC Electric motor with flexible coupling. Each pump should operate a curve-15M below specified head.
- B. Terrace Pump shall comprise of electric driven fire booster pump set of 900 LPM at 35 M head at terrace as shown in the drawings with all required accessories including Valves, Strainers, special fittings, instrumentation, control panels and any other components required to complete the system in all respects Pumps and motors shall be mounted on a common M.S. structure base plate.
- C. The pump shall be provided with a totally enclosed fan cooled induction motor of H.P. and R.P.M. specified in Bill of quantities.
- D. The pumping set shall be provided with a Gun Metal "Bourden" type pressure gauge with gunmetal isolation cock and connecting piping.
- E. Appropriate vibration eliminating pads shall be provided with each pump.

Drive

The pump shall be direct driven by means of a flexible coupling. Coupling guard shall also be provided.

Fire Booster Pump

The fire booster pump shall be horizontally mounted centrifugal type with mechanical seal and including necessary arrangement for testing of pump. It shall have a capacity to deliver flow as

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specified, and developing adequate head so as to ensure a minimum pressure of 3.8 Kg/Sq.cm at the highest and the farthest outlet.

The pump shall be capable of giving a discharge of not less than 180 per cent of the rated discharge, at a head of not less than 68 per cent of the rated head. The shut off head shall be within 120 per cent of the rated head.

The pump casing shall be of cast iron to grade FG 200 to IS:210 and parts like impeller, shaft sleeve, wearing ring etc. shall be of non-corrosive metal like bronze/brass/gun metal. The shaft shall be of stainless steel. Provision of mechanical seal shall also be made.

Bearing of the pump shall be effectively sealed to prevent loss of lubricant or entry of dust or water. The pump shall be provided with a plate indicating the suction lift, delivery head, discharge, speed and number of stages. The pump casing shall be designed to withstand 1.8 times the working pressure.

Motor

The Motor shall be squirrel cage AC induction type suitable for operation on 415 volts 3 phase 50 Hz. System. The motor shall be totally enclosed fan cooled type conforming to protection clause IP 55. The class of insulation shall be F. The synchronous speed shall be 2900 RPM as specified. The motor shall be rated for continuous duty and shall have a horse power rating necessary to drive the pump at 180 percent of its rated discharge with at least 68 per cent rated head. The motor shall conform to IS:328-1978.

Motor Starter

The motor starter shall be as per detail in MCC. The unit shall include suitable current transformer and ammeter of suitable range on one line to indicate the current. The starter shall not incorporate under voltage, no voltage trip overload or SPP.

Diesel Fire Pump:

General

The diesel pump set shall be suitable for automatic operation complete with necessary automatic starting gear, for starting on wet battery system and shall be complete with all accessories. Both engine and pump shall be assembled on a common base plate.

Drive

The pump shall be only direct driven by means of a flexible coupling. Coupling guard shall also be provided. The speed shall be 1800 RPM as specified.

Fire Pump

The fire pump shall be horizontal mounted centrifugal type. It shall have a capacity to deliver s specified, and developing adequate head so as to ensure a minimum pressure of 3.8 Kg/Sq.cm at the highest and the farthest outlet. The pump shall be single stage as specified. The pump shall be capable of giving a discharge of not less than 180% of the rated discharge at a head of not less than 68% of the rated head. The shut off head shall be within 120% of the rated head.

The pump casing shall be of cast iron to grade FG 200 to IS 210 and parts like impeller, shaft sleeves, wearing-ring etc. shall be of non-corrosive metal like bronze/brass/gun metal. The shaft shall be stainless steel. Provision of mechanical seal shall also be made.

The pump casing shall be designed to withstand 1.8 times the working pressure.

Bearing of pump shall be effectively sealed to prevent loss of lubricant or entry of dust or water.

Diesel Engine

Engine Rating – The engine shall be cold starting type without the necessity of preliminary heating of the engine cylinders or combusting chamber (for example, by wicks, cartridge, heater, plugs etc.). The engine shall be multi cylinder/vertical 4 stroke cycle, air-cooled, diesel engine, developing suitable HP at the operating speed specified to drive the fire pump. Continuous capacity available for the load shall be exclusive of the power requirement of auxiliaries of the diesel engine, and the after correction for altitude, ambient temperature and humidity for the specified environmental conditions. This shall be at least 20% greater than the maximum HP required to drive the pump at its duty point.

It shall also be capable of driving the pump at 180% of the rated discharge at 68% of rated head. The engine shall be capable of continuous non-stop operation for 8 hours and major overhaul shall not be required before 3000 hours of operation. The engine shall have 10% overload capacity for one hour in any period of 12 hours continuous run. The engine shall accept full load within 18 seconds from the receipt of signal to start. The diesel engine shall conform to BS 649/IS 160/IS 10002, all amended up to date.

Engine Accessories – The engine shall be complete with the following accessories:

Fly wheel dynamically balanced.

Direct coupling for pump and coupling guard.

Corrosion Resistor.

Air cleaner.

Fuel service tank support, and fuel oil filter with necessary pipe work.

Elect. Starting battery (2x24 v).

Exhaust silencer with necessary pipe work.

Governor.

Instrument panel housing all the gauges, including Tachometer, hour meter and starting switch with key (for manual starting).

Necessary safety controls.

Fuel System – The fuel shall be gravity fed from the engine fuel tank to the engine driven fuel pump. The engine fuel tank shall be mounted either over or adjacent to the engine itself or suitably wall mounted on bracket. The fuel filter shall be suitably located to permit easy servicing.

All fuel tubing to the engine shall be with copper, with flexible hose connections where required. Plastic tubing shall not be permitted.

The fuel tank shall be of welded steel construction (3 mm. Thick) and of capacity sufficient to allow the engine to run on full load for at least 8 hours. The tank shall be complete with necessary wall mounted supports, level indicator (protected against mechanical injury) inlet, outlet, overflow connections and drain plug and piping to the engine fuel tank. The outlet shall be so located as to avoid entry of any sediments into the fuel line to the engine.

As semi rotary hand pump for filling the daily service tank together with hose pipe 8 mtr. long with a foot valve etc. shall also form part of the scope of supply.

Lubricating Oil System – Forced feed Lub. Oil system shall be employed for positive lubrication. Necessary Lub. oil filters shall be provided, located suitably for convenient servicing.

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Starting System – The starting system shall comprise necessary batteries (2x24 v), 24 volts starter motor of adequate capacity and axle type gear to match with the toothed ring on the fly wheel. Bi metallic relay protection to protect starting motor from excessively long cranking runs suitably integrated with engine protection system shall be included within the scope of the work.

Exhaust System – The exhaust system shall be complete with silencer suitable for outdoor installation, and silencer piping including bends and accessories needed for a run of 18 metre from the engine manifold. (Adjustment rates for extra lengths shall also be given). The total back pressure shall not exceed the engine manufacturer's recommendation. The exhaust piping shall be suitable supported.

Engine shut down mechanism – This shall be auto/manually operated and shall return automatically to the starting position after use.

Governing System – The engine shall be provided with an adjustable governor to control the engine speed within 8% of its rated speed under all conditions of load up to full load. The governor shall be set to maintain rated pump speed at maximum pump load.

Engine Instrument – Engine instrumentation shall include the following:

- Lub. oil pressure gauge.
- Lub. oil temperature gauge.
- Water pressure gauge.
- Water temperature gauge.
- Tachometer.
- Hour meter.

The instrumentation panel shall be suitably resident mounted on the engine.

Engine Protection Devices – Following engine protection and automatic shut down facilities shall be provided:

- Low lub. oil pressure
- High cooling water temp.
- High lub.oil temperature.
- Over speed shut down.

Pipe Work - All pipe lines with fittings and accessories required shall be provided for fuel oil, lub. oil and exhaust systems, copper piping of adequate sizes, shall be used for Lub. oil and fuel oil. M.S piping will be permitted for exhaust.

Anti Vibration Mounting - Suitable vibration mounting duly approved by Engineer-in-charge shall be employed for mounting the unit so as to minimize transmission of vibration to the structure. The isolation efficiency achievable shall be clearly indicated.

Battery Charger - Necessary float and boost charger shall be incorporated in the control section of the power and control panel, to keep the battery in trim condition. Voltmeter to indicate the state of charge of the batteries shall be provided.

Pump Sets Assembly

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On the main fire hydrant header near pump sets as 180 mm dia by-pass valve located in an accessible location shall be provided along with a rate of flow rotameter calibrated in 1 pm and able to read 200% of the rated pump capacity. The delivery shall be connected to the fire tank.

Each and every pump set assembly shall be provided with suction valve (only for positive suction head), discharge valve, non-return valve and 180 mm dia Bourdon type pressure gauge with isolation valve.

Flexible Connectors

On all suction and delivery lines double flanged reinforced neoprene flexible pipe connectors shall be provided. Connectors should be suitable for maximum working pressure of each pipe line on which it is mounted and tested to a test pressure of 1:8 time the operating pressure. Length of the connector shall be as per manufacturers standard.

Interlocking

The following inter-locking between the main fire pump, the jockey pump and the diesel engine driven pump.

Only one category of pumps will work at a time i.e. either jockey pump or main fire pump or diesel driven pump.

S. No.	JOCKEY PUMP	MAIN PUMP	DIESEL DRIVEN PUMP
1.	ON	OFF	OFF
2.	OFF	ON	OFF
3.	OFF	OFF	ON

Annunciation Panel

One solid state electronic annunciation panel, fully wired with visual display and audible alarm unit shall be provided to indicate:

Flow condition in any flow switch indicating the area of display and audible alarm unit shall be provided to indicate:

Starting and stopping of hydrant pump

Starting and stopping of jockey pump.

Failure of Hydrant pump to start.

High level in fire water storage tank compartment.

Low level in fire water storage tank compartment.

Low level in HSD day tank of the fire pump.

The panel shall be factory fabricated, wired and tested. All details shall be submitted with the tender.

The annunciation panel shall be located in the pump room on the ground floor or as instructed by the Engineer-in-charge.

Vibration Isolation

The pump set shall be mounted on rolled steel channels and 180 mm thick inertia block spring and ribbed neoprene vibration isolation mounting shall support the inertia block onto a 100 mm thick concrete plinths. The spring mountings shall have a maximum deflection of 18 mm. Reference shall be made to the section on "Nose and Vibration" for further technical requirements.

1.8 Valves

a) Butterfly valves

Butterfly valves shall be of centric disc construction with single piece body of Cast Iron with disc of aluminium bronze with nitrile seat. Shaft shall be stainless steel with teflon bearing butterfly valve shall conform to PN 1.6 rating and shall be provided with suitable matching flanges compatible with PN 1.6 rating of valves.

b) Non-return valve

Non-return valves shall be cast iron spring action **swing check type**. An arrow mark in the direction of flow shall be marked on the body of the valve. The valves shall bear IS:5312 certification.

The valves shall be of cast iron body and cover. The internal flap shall be of cast iron and hinged by a hinge pin of high tensile brackets of stainless steel. Cast iron parts shall conform IS:210 / 70, grade 200/ 260 type.

The gasket shall be of high quality rubber and flap seat ring of leading gun metal to BS:1400 LG 2C. At high pressure of water flow the flapper shall seat tightly to the seat. The valve shall be capable of handling pressure up to 7 kg./sq.cm.

c) Ball valves

Ball valves shall be lever operated, screwed type of bronze body as per IS:318 with SS ball and SS stem with mild steel lever.

1.9 Fire fighting accessories

1.9.1 Piping

Pipes of the following types (depending upon the description of item) shall be used:

- (i) MS black pipes conforming to IS: 1239, ISI marked (Heavy class) (for pipes of sizes 150mm NB and below) suitably treated on the outside to prevent soil corrosion as per IS: 10221.

A. Piping (for Pipes up to 150 mm dia)

The pipes shall be manufactured by Electric Resistant Welded (ERW) / High Frequency Induction Welding or Hot Finished Welded process. The Sulfur and Phosphorus requirements in steel shall not be more than 0.05 percent each. The tubes shall be manufactured from hot rolled steel skelps / strips conforming to IS: 10748.

The following manufacturing tolerances shall be permitted on the tubes and sockets :

Thickness: Shall not be less than 10 percent.

Weight: Shall not vary by more than 10 percent either way.

Screwed tubes shall be supplied with threads as per IS: 554. Each tube shall be tested for hydrostatic test for leak tightness as an in process test at the manufacturer's works. The finished pipe shall be tested for Tensile Strength, Elongation, Bend Test and Flattening Test.

- (ii) MS pipe up to 150 mm dia shall have all fittings as per IS: 1239, part II (heavy class).
 - (iii) For MS pipes up to 50mm dia screwed jointing shall be adopted, while for pipes above 50mm dia welded or flanged connections shall be used. Only electro galvanized nuts / bolts shall be used.
- 1.9.2 Hangers and supports shall be capable of carrying the sum total of all concurrently acting loads. They shall be designed to provide the required supporting effects and allow pipelines movements as necessary. All guides, anchors, braces, dampeners, expansion joints and structural steel to be attached to the building / structure, trenches etc shall be provided by the Contractor. Hangers and components for all piping shall be approved by the Consultant. Hangers / supports to be used shall be as per the drawing enclosed. Anchoring fasteners shall be rated to take minimum 2 ton load and shall be as per approved make.
- 1.9.3 The piping system and components shall be capable of withstanding 150 per cent of the working pressure including water hammer.
- 1.9.4 Flanged joints shall be used for connections to vessels, equipment, flanged valves and also on suitable straight lengths of pipeline of strategic points to facilitate erection and subsequent maintenance work.
- 1.9.5 Pipe to pipe jointing by welding shall be carried out over ground. A maximum of 4 lengths shall be jointed after which flanged connection with asbestos gaskets shall be used. Welding shall be carried out as per related Item given elsewhere. Pipe lowering into the trench shall be carried out with utmost care to avoid damage to the joints. No backfilling shall be carried out unless the pipes have been pressure tested for joint leakages.
- 1.9.6 Fittings for pipes above 50 mm mm dia and up to 150 mm dia shall be fabricated from seamless pipe pieces of minimum 5 mm wall thickness. For tees and other fittings where seamless sections are not available, the fittings shall be fabricated from Electric resistant welded pipes as given in the approved makes. The fittings shall have a minimum 5 mm wall thickness. The fittings shall take pressure of up to 15 kg / sq cm.
- 1.9.7 Fittings below 50 mm dia shall be either malleable mild steel (with galvanizing as normally manufactured) or forged steel. The fittings shall be threaded at both ends. The fittings shall take pressure of up to 15 kg / sq cm.

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- 1.9.8 For tapings of 50 mm / 40 mm / 32 mm / 25 mm from Headers half socket connections with one side threading shall be employed. The half socket shall be welded at the centre of the Header, either on the side or on the top.
- 1.9.9 Pipes in vertical shafts shall have MS angle brackets at alternate floor level. The bracket shall be mounted behind the pipe. A base plate of 50 wide x 6 mm thick shall be welded to the bracket. The base plate shall be fixed to the wall by means of fasteners. GI U clamps shall be used to fix the pipe to the bracket.
- 1.9.10 **Welding**
- A. All welding shall be carried out by I B R certified welder only. The Contractor must produce the Welder's Certificate.
 - B. Welding shall be carried out by 3 Phase Rectifier type Welding Set. Welding shall be on high Current Low Voltage basis. Conventional welding machines shall not be accepted.
 - C. All pipe to pipe receiving edges shall be bevel finished to a clean edge by a electric grinder. A requisite gap determined by the thickness of the weld electrode shall be given between the joints before start of welding.
 - D. Weld Electrodes shall be of approved make, of grade and type as suitable for the job. This shall be satisfied by the Consultant before start of work.
 - E. Joints shall be given a first weld in full width without burrs on the full dia of the pipe. Welding shall be carried out vertically from the surface to be welded. Weld fluxes shall not be so plastic such as to fall or drip down.
 - F. After application of first coat the weld shall be ground and then another layer of welding shall take place. The weld shall also be cleaned by grinding. Welding shall be done in three coats.
 - G. All pipe cutting shall be by oxy acetylene gas welding only. The cut surface shall be cleaned and ground by a electric grinder before further welding.
 - H. Pipe cutting or welding in inaccessible areas shall be avoided. Pipes shall not welded in trenches unless the bottom edge of the pipe does not have clear space for working with electrode.
 - I. For supports angle pieces shall be cut by oxy acetylene gas and cleaned by electric grinder. All cutting for bolt inserts shall be by electric drill.
 - J. Pipe lifting to the ceiling shall be by chain pulley method. Before pipes are finally supported to the ceiling tripod type supports from the floor shall be used to hold up the pipe.
 - K. Tapings (nipple pieces, etc.) for Hydrant from the Risers shall be fabricated separately and then welded to the Riser. A spool piece of 80 mm dia or as required shall be first prepared, one end shall be cut as per profile of Riser pipe on which it shall be finally welded. The other end shall have the flange welded to it. The flange holes shall be set so as to receive the Hydrant head correctly. Inside of the flange shall also receive a single layer of welding. The

welding shall then be cleaned with a grinder. The spool piece shall then be welded to the Riser. This procedure shall also be applied for all flanges.

- L. All dead end of Headers in horizontal runs shall have blank flanges fixed at the ends, complete with neoprene gasket and nut and bolt arrangement.
- M. Pipe supports shall not be welded to the truss framing (wherever the truss is being used) of the slab. Supports shall only be clamped to the truss by an approved method.
- N. Pipe laid along long lengths shall be checked for alignment. The pipe end to end shall be checked with lengths of taut thread before tacking is carried out. Rigid templates shall also be used for measurement.
- O. For bends rigid templates shall be used.
- P. Neoprene gaskets shall be used at all flanged connections. Gaskets from approved makes shall be used. Nuts and bolts shall be electro galvanized type.
- Q. A Drilling machine shall be used to bore holes in the MS angle hanger supports. Gas Cutter shall not be employed for this purpose. U Clamps shall be bolted after use of washers on both sides.

1.9.11 Painting

- A. All Hydrant pipes shall be painted with post office red colour paint. All M S pipes shall first be cleaned thoroughly before application of primer coat. After application of primer coat two coats of enamel paint shall be applied. Each coat shall be given minimum 24 hours drying time. No thinners shall be used. Wherever required all pipe headers shall be worded indicating the direction of the pipe and its purpose such as "TO RISER NO. 1 " etc.
- B. Painting shall be expertly applied; the paint shall not over run on surfaces not requiring painting such as walls, surfaces etc. Nuts and bolts shall be painted black, while valves shall be painted blue.

1.9.12 Pressure Switch

- A. The Pressure switches shall be employed for starting and shutting down operation of pumps automatically, dictated by line pressure. The Pressure Switch shall be diaphragm type. It shall be suitable for line pressures up to 10 kg / sq cm. The scale range for cut in and cut out shall be from 0 to 7 kg / sq cm.
- B. The Switch shall be suitable for consistent and repeated operations without change in values. It shall be provided with IP: 66 water and environment protection.
- C. The enclosure shall be of aluminum and pressure element and wetted parts shall be of stainless steel.

1.9.13 Testing

The entire piping shall be pressure tested by hydrostatic method up to a pressure of 1.5 times the working pressure. The piping shall be slowly charged with water so that all the air is expelled from the piping by providing a 25mm inlet with a stop cock. The piping shall be allowed to stand full of water for a period of 2 hours and then the piping shall be put under pressure by means of manually operated test pump or by a power driven test pump. The pressure gauges used for testing shall be accurate and shall preferably be calibrated before the testing is carried out. All the leakage's and defects in joints revealed during the testing shall be rectified to the entire satisfaction of the Engineer-in-charge. The system may be tested in sections/parts as the work of erection of piping proceeds. The piping shall with stand 1.5 times the working pressure for at least 2 hours.

1.10 Standards and Codes

The following codes and standards and their subsequent modifications shall apply for the design, manufacture, shop testing, erection, fabrication at site, testing and trial operation of piping, valves and specialties requirements:

- | | | |
|-----|------------------|---|
| 1. | IS – 1648 – 1961 | Code of Practice for fire safety of building (general) fire fighting equipment and maintenance. |
| 2. | IS – 3844 – 1966 | Code of practice for installation of internal fire hydrant in multi-storied building. |
| 3. | IS – 2217 – 1963 | Recommendation for providing first aid and fire fighting arrangement in public buildings. |
| 4. | IS – 2190 – 971 | Code of practice for selection, installation and maintenance of portable first fire appliance. |
| 5. | IS – 3589 | Electrically Welded Steel pipes (Medium class) |
| 6. | IS – 1239 | Mild steel tubes, Tubulers and other wrought steel fittings (Medium class) |
| 7. | IS – 780 | C.I. Double flanges sluice valve. |
| 8. | IS – 778 | S.S. 304 Valves |
| 9. | IS – 909 – 1965 | External fire hydrant (underground) |
| 10. | IS – 5290 – 1969 | Internal Landing Valve |
| 11. | IS – 884 – 1969 | First and hose reel |
| 12. | IS – 934 – 1976 | Specification for portable chemical fire extinguisher soda acid type. |
| 13. | IS – 2873 – 1969 | Specification for fire extinguisher for carbon-di-oxide |
| 14. | | National Building Code. |

1.11 LIST OF APPROVED MAKES (FOR FIRE FIGHTING WORKS)

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The Engineer-in-Charge reserves the right to select any of the brands, out of the brands listed in the "List of Approved Makes". The Contractor to obtain written approval of brand and model prior to procurement of material.

SL. NO.	MATERIALS	BRAND NAME
1.	M.S. PIPES	JINDAL HISSAR / SURYA PRAKASH / TATA
2.	G.I. PIPES	JINDAL HISSAR / SURYA PRAKASH / TATA
3.	GUN METAL BALL VALVES	ZOLOTO / AIP /HONEYWELL
4.	BUTTERFLY VALVES / WAFER TYPE NRV	ZOLOTO / AIP /HONEYWELL
5.	SUCTION STRAINER	LEADER / SANT / AIP
6.	SPRIKLERS UL Listed	NEWAGE / HD /TYPO
7	PUMPS	KIRLOSKAR / MATHER & PLATT / ABB
8.	MOTORS	KIRLOSKAR / SIEMENS/ CROMPTON
9.	PRESSURE SWITCH	DANFOSS / SWIZER / INDFOSS
10.	PRESSURE GAUGE	H. GURE / FIEBIG / EMERALD
11.	ELECTRICAL CONTROL PANEL	SIEMENS / SCHNEIDER / L & T
12.	ARMOURED CABLES	POLYCAB / PLAZA / KALINGA/ PARAGON/ FINOLEX

2.0 PREAMBLE TO THE PRICING OF BILL OF QUANTITIES FOR PHE & FIRE FIGHTING WORKS**2.1 GENERAL**

- 2.1.1 This section shall be applicable for item rate work and for variations.
- 2.1.2 This preamble covers water supply, sewerage, drainage, sanitary fittings, pumping systems, water treatment, solar heating system & fire fighting works.
- 2.1.3 This preamble shall be read in conjunction with the specifications, condition of contract, drawings and all other documents accompanying the tender papers.
- 2.1.4 For all items of work the rates shall be comprehensive and all inclusive. The rates shall include for all matters and things necessary for satisfactory completion and maintenance of the work in proper working order and to the satisfaction of the Engineer-in-Charge, including testing, making samples, etc., and all that have been indicated in the specifications or other Tender Documents either directly or indirectly, and cover for all

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obligation of the Contractor under the Contract. No claim for additional payment shall be allowed for any error or misunderstanding by the contractor of the work involved.

2.1.5 Unless otherwise mentioned in the description of the item, this Bill of Quantities shall be applicable for work in any height, position or condition.

2.1.6 Unless otherwise stated, method of measurement as described in the latest editions of I.S. 1200 with its parts corresponding to different sections of work shall be followed. In case of any dispute in this matter, the decision of Engineer-in-Charge shall be final, binding and conclusive.

2.1.7 The following notations have been used throughout the Bill of Quantities.

m	-	Metre
mm	-	Millimetre
Sqm	-	Square Metre
mm ²	-	Square Millimetre
Cum	-	Cubic Metre
No.	-	Number/Numbers
Dia	-	Diameter
Kg.	-	Kilogramme/s
T	-	Metric Tonne
L.S	-	Lumpsum
Pt.	-	Point/Points
Set	-	Set/Sets
C/C	-	Centre to Centre
@	-	At the rate of
V	-	Volt/Volts
A	-	Ampere/s
SWG	-	Standard Wire Gauge

2.1.8 The Contractor shall be deemed to have full knowledge of all his obligations under the Contract and shall be deemed to have made full allowance for complying with all such obligations in his offer.

2.2 TRADE PREAMBLE

2.2.1 Fire Pipes & drainage

All water supply and drainage works shall be measured as per CPWD specifications - 2009 Vol.-II (latest version).

2.2.2 Mechanical Equipments

All mechanical equipment e.g. Filter, Chlorinator, Pumps, solar panel & electric Panels etc. shall be measured in number and the rate shall include all items of work as given in specifications & Bill of Quantities. The cost of construction of suitable foundations duly approved by the Engineer-in-Charge is also deemed to be included in the rate of the particular equipment.

PRE-QUALIFICATION PROFORMA – I

Sl. No.	Particulars	To be filled in by the Tenderer
1	Name of the Bidding Agency	
2	Date of establishment of the Agency (Attach a copy of Registration certificate)	
3	Detailed office address of the Agency with office telephone number, e-mail ID, Mobile number and the name of the contact person	
4	Address of the Agency in Delhi / NCR with office telephone number, e-mail ID, Mobile number and the name of the contact person	
5	Status of the Firm (Company / Partnership Firm / Proprietary): enclose the supporting documents.	
6	Registration number of Agency with the registrar of companies / registrar of Firms and date.(Copy to be enclosed)	
7	GST No. & enclose the relevant copy.	
8	PAN number & attach copy of PAN.	
9	State Annual Turn Over of the Company / Firm for the last three Financial years. Furnish the copy of audited Annual Turnover Certificate for the last three Financial years.	i) ii) iii)
10	Furnish copies of audited balance sheet and profit & loss account (audited) for the last three years.	
11	Status of details of disputes / litigation / arbitration, if any.	
12	Whether a list of clients with contact details, to whom the Tenderer has carried out the similar type of work earlier, has been included in the Technical Bid?	

Note: Where copies are required to be furnished, these are to be certified by the concerned agencies / Tenderer under their seal and signatures.

Place:

Date:

Signature:

(Authorized signatory of the Tenderer)

Seal of the Tenderer

PRE-QUALIFICATION PROFORMA – II

PARTICULARS IN RESPECT OF SIMILAR WORKS EXECUTED IN LAST FIVE YEARS

Sl. No.	Name of Work and Project with Address	Short description of work executed	Name and Address of Owner	Value of work executed	Stipulated Time of Completion	Actual Time of Completion	Name of Architect / Consulting engineer

Note: Where copies are required to be furnished, these are to be certified by the concerned agencies / Tenderer under their seal and signatures.

Place:

Date:

Seal of the Tenderer

Signature:
(Authorized signatory of the Tenderer)

LETTER SUBMITTING TENDER

To

Dear Sir,

With reference to the tender invited by you for the "Providing Terrace Pump, Diesel Pump and allied works in existing Fire Fighting system for Anusandhan Bhawan, C-DAC at C-56/1, Sector 62, Noida – 201309 (U.P.)"

I/We do hereby offer to execute the works under "contract at the respective rates mentioned in the Schedule of quantities. I/We have examined the site and read the articles of agreement, conditions of contract, special conditions forming part of the schedule of quantities. I/We agree to finish the whole of the works within 3 months from the date of getting possession of the site or order to start work whichever is later.

I/We have deposited as Earnest Money Rs. _____ (Rupees only) by a Bank draft in favour of _____ which shall be returned to the unsuccessful Tenderers. The same shall be adjusted against S.D. for the successful Tenderer.

I/We understand that you are not bound to accept the lowest or any tender that you receive.

Yours faithfully,

Place:

Date:

ANNEXURE C: TENDER ACCEPTANCE LETTER

(To be submitted on Company Letter Head).

Date:

To:

**Centre for Development of Advanced Computing (C-DAC),
C-56/1, Sector-62, Institutional Area,
Noida- 201309.**

**SUBJECT: Acceptance of Terms & Conditions of Tender
Tender Reference No: 1(1)/2017-Admn**

Name of Tender /Work: "Providing Terrace Pump, Diesel Pump and allied works in existing Fire Fighting system for Anusandhan Bhawan, C-DAC at C-56/1, Sector 62, Noida – 201309 (U.P.)"Dear Sir,

1. I / We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely: www.cdac.in / www.eprocure.gov.in etc.; as per your NIT / advertisement, given in the above-mentioned website(s).

2. I / We hereby certify that I / We have read the entire terms and conditions of the tender documents from Page No.1 to 26 (including all documents like annexure(s), schedules(s), etc.), which form part of the contract agreement and I / We shall abide hereby by the terms / conditions/ clauses contained therein.

3. The corrigendum(s) issued from time to time by your department / organization too has also been taken into consideration, while submitting this acceptance letter.

4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(S) /corrigendum(s) in its totality / entirety.

5. I / We do hereby declare that our Firm has not been blacklisted / debarred by any Govt. Department/Public sector undertaking.

6. I / We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the earnest money deposit absolutely.

Yours Faithfully,

Authorized Signatory

(Signature of the Tenderer, with Official Seal)

Email id for correspondence: