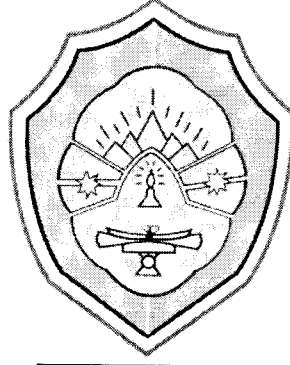


COTTON UNIVERSITY

OFFICE OF THE REGISTRAR, PANBAZAR, GUWAHATI-781001



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TENDER DOCUMENT FOR

N.I.T. NO :- 06 of 2022-23 Dt. 08.06.2022

NAME OF THE WORK: - SITC of Fire Hydrant System at MCB Bhawan, Cotton University

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**OFFICE OF THE REGISTRAR, COTTON UNIVERSITY
PANBAZAR, GUWAHATI-01**

LOCAL COMPETITIVE BIDDING

NAME OF THE WORK :- SITC of Fire Hydrant System at MCB Bhawan, Cotton University

Download of Tender

Through Website :-

Till 14.00 Hrs. 23.06.2022

Last date and time of

manual submission :-

14.30 Hrs. 23.06.2022

Place of submission of

Technical Bid. :-

Office Of Registrar, Cotton University, Panbazar, Guwahati-01

Technical Bid Opening :-

Date 15.00 Hrs 23.06.2022

Place of opening Bids :-

Office Of Registrar, Cotton University, Panbazar, Guwahati-01

Officer inviting Bids :-

Office Of Registrar, Cotton University, Panbazar, Guwahati-01

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INDEX

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4. Contractor's Camp	12
5. Declaration	13
6. Schedule of works	14-17
7. Drawings	18

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OFFICE OF THE REGISTRAR, COTTON UNIVERSITY,
PANBAZAR, GUWAHATI -01

No. CU/EC/2022/106/

Dated :

NOTICE INVITING TENDER

NIT No.06 2022-23 Dt. 08.06.2022

Press Notice

The Registrar, Cotton University, Panbazar, Guwahati-781001, invites fresh-bids (Item Rate) in two bid system for “SITC of Fire Hydrant System at MCB Bhawan, Cotton University” with a validity of 45 (Forty five) days from the date of opening of the tender, from contractors registered under APWD, CPWD, MES and another Govt. / Semi Govt./ Govt. undertaking. Details of the bids and Detail Notice Inviting Bid vide NIT No. - 2020-23 Dt. may be downloaded from www.cottonuniversity.ac.in . Last date of submission of tender is 14.30Hrs. 23.06.2022.

All terms and conditions will be as per the Bidding Documents.

The Press Notice will be a part of the Bidding Documents.

Registrar

Memo No. CU/EC/2022/106/

dated:

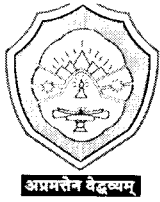
Copy for information to:

1. PS to the Hon'ble Vice Chancellor for kind information of Vice Chancellor.
2. Director, DIPR, GoA with a request to publish the above advertisement (softcopy enclosed) in immediate one issue of The Assam Tribune and The Amar Asom, and submit the bills in triplicate for release of payment
3. Notice board
4. Office file

Registrar

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9/6/22

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OFFICE OF THE REGISTRAR, COTTON UNIVERSITY, PANBAZAR, GUWAHATI -01

No. CU/EC/2022/106/ 6058-62

Dated: 8/6/22

Detail Notice Inviting Bid

The Registrar, Cotton University, Panbazar, Guwahati-781001, invite fresh-bids (Item rate) in two bid system for "SITC of Fire Hydrant System at MCB Bhawan, Cotton University", with a validity of 45 (Forty five) days from the date of opening of the tender from contractors registered under APWD, CPWD, MES and other Govt./ Semi Govt./ Govt. undertaking. Details of the bids and Detail Notice Inviting Bid vide no. NIT No. 06 of 2022-23 Dt.08.06.2022 may be seen and downloaded from the portal www.cottonuniversity.ac.in. Last date of submission of tender is 14.30Hrs. 23.06.2022.

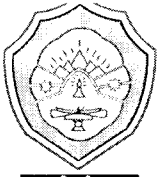
Sl. No.	Name of work	Bid Value	Bid Security	Cost of Document	Completion Period
1.	SITC of Fire Hydrant System at MCB Bhawan, Cotton University	Rs.9,13,831.00	Rs.18,280.00 for General Category or Rs.9,140.00 for Reserve category	Rs.500.00	20(Twenty Days)

The bidders may submit bids for the works as below:-

1. Contractor must be registered with APWD, CPWD, MES and other Govt./ Semi Govt./ Govt. undertaking. Copy of the up-to date registration must be submitted along with the tender.
2. The contractor should furnish work experience of similar nature of work. Work order copy/ BOQ/ agreement showing similar nature of work within last five (5) years needs to be furnished.
3. The contractor has to submit the tender in two Bids: (A) Technical Bid and (B) price Bid. The technical Bid comprises of following submissions in a single sealed envelope marked as "Technical Bid"
 - a. Signed copy of detailed tender notice.
 - b. Tender fee of INR 500.00 in the form of Bank draft/banker cheque of any nationalised bank.
 - c. Registration of APWD/University/Any other Govt Agency.
 - d. Labour Licence, PAN, GST Registration.
 - e. Income tax return for the last three (3) financial years.
 - f. Work experience as detailed above.
 - g. Earnest Money.
 - h. Duly notarised Affidavit stating no litigation/cases pending at Indian Court of law.

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The price bid comprises of submission of Price Bid in the standard format at Annex -A of the detailed tender notice in a separate envelope marked as "Price Bid". Both the envelopes should be within a single sealed envelope bearing the name of work and submitted in the office of the Registrar, Cotton University on the notified date. **All documents should be sealed and signed.** Non submission of any of the documents mentioned above and documents without seal & signature will be summarily rejected without assigning any reason thereof.

4. The bidder shall submit the cost of the bid document (non-refundable) in the form of Demand draft/Bankers cheque of any nationalized Bank in favour of "**The Registrar, Cotton University, Panbazar, Guwahati 01**". Payable at Guwahati.

5. The bid security shall be either in the form of Bank draft/Banker Cheque in favour of "The Registrar, Cotton University, Panbazar, Guwahati 01".

5. The Detail Notice Inviting bid will be a part of the bidding Documents.

6. Any false information provided by the bidder is liable for outright cancelation of the bid & the bidder will be debarred from participating future tenders in the University.

Registrar

Memo No. CU/EC/2022/106/

Dated:

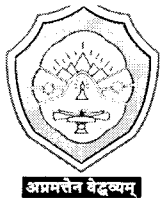
Copy to: -

1. PS to the Hon'ble Vice Chancellor for kind information of Vice Chancellor.
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Registrar

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9/6/22

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CHAPTER-II :INSTRUCTION FOR BIDDERS AND SPECIAL CONDITIONS

NIT NO:- 06 of 2022-23 Dt. 08.06.2022

BID INVITATION FOR: - “SITC of Fire Hydrant System at MCB Bhawan, Cotton University”.

EARNEST MONEY DEPOSIT: Rs. 18,280.00 (for General)

Rs. 9,140.00 (for Reserved category)

1. DUE DATE AND CLOSING TIME

The bid will be received up to 14.30Hrs on 23.06.2022. The opening time of the bids will be at 15.00Hrs. on the same day and the venue will be the office of The Registrar, Cotton University. Bidders or their authorized representatives will make it convenient to attend the bid opening.

2. TIME OF COMPLETION OF WORK

The stipulated time of completion of the works is 20 (Twenty) days from the date of Handing over the site.

3. BID-GUARANTEE OR EARNEST MONEY DEPOSIT :(E.M.)

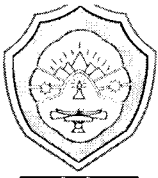
3.1 Every bid or tender shall be accompanied by a deposit of E.M for an amount indicated in the Tender Notice pertaining to the work (ordinarily equivalent to 2% of the estimated value of work, unless otherwise specified in the Notice), in the form of Bank draft/Banker cheque of any nationalised bank, which is refundable in favour of Cotton University payable at Guwahati. Tender without Earnest money is liable to be rejected.

3.2 The E.M. as mentioned above will be returned to the respective unsuccessful bidder soon after the award of the contract. The E.M. will be retained towards the contract security deposit in the case of selected bidder or bidders in whose favour the contract is awarded. The Cotton University will not entertain any claim for release of the E.M. during pendency in selection of contractors for awarding the contract. The Cotton University will not pay any interest on the E.M. deposit.

3.3 The E.M. is liable to be forfeited in the absolute discretion of the Registrar, Cotton University, if a selected bidder revokes or causes to withdraw his offer / tender before the expiry of its validity or fails after the contract is awarded to him to execute the ‘Contract agreement’ with the Cotton University described herein after (so far as applicable) or to commence the work within the period as notified in the work order.

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4. PERFORMANCE – GUARANTEE OR SECURITY DEPOSIT (S.D.)

Payment will be one-time payment i.e. Final bill payment on issue of completion certificate from Technical Branch and a deduction of 8% (Eight Percent)- for General category & 9% (Nine Percent)- for Reserved Category will be made as Security Deposit , which will be released after expiry of liability period i.e. Six (Six) months from the date of completion.

4.1 Such S.D. shall be forfeited or appropriated by the Registrar, Cotton University, Guwahati under authority of the owner in his discretion towards any loss, damage etc. that may be sustained by the Cotton University as a result of breach of any terms, conditions of the contract by the contractor, notwithstanding other remedies open to the Cotton University under the terms of the contract or law.

4.2 In the event of contractor's Security Deposit being appropriated towards loss, damage etc, the contractor shall forthwith recoup the amount to restore the Security Deposit to the full current value within 30 (thirty) days from the date of intimation.

4.3 Subject to the provisions mentioned above and the provisions of guarantee period of one year, the Security Deposit will be returned to the contractor on the due and satisfactory performance of the contract and after all claims of the Cotton University shall have been settled. The Cotton University will not pay any interest on the amount of Security Deposit of Performance Guarantee.

5. GOODS AND SERVICE TAX/ INCOME TAX CERTIFICATE (PAN/GST):

The offered rates and / or prices for the work shall include all taxes, duties, forest royalties, monopolies etc. as may be applicable on material and labour during the tenure of the contract. There will be no reimbursement for any increase or levy of new taxes, duties etc. on materials utilized for this work or equipments furnished / supplied for completing the work or for machineries, equipments, tools and tackle, fuel and lubricants etc. used in connection with the performance of the work, unless otherwise specified or qualified by the bidder in his bid. However if there is any variation in GST or levy or repeat of any other tax/cess applicable on output of the works contract, the same shall be adjusted on side, increase or decrease.

5.1 The contractors must have a valid GST Registration No. and should submit copy of GST Certificate and attested copy of PAN Card.

5.2 All certificates must be produced where necessary.

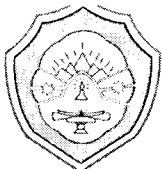
6. BIDDER'S QUALIFICATIONS:

6.1 The Bidder should submit a list and description of similar or comparable works previously executed by him successfully during last five consecutive financial years indicating the individual volume and contract price along with the name and address of the respective owner / authority.

6.2 All prospective bidders are hereby notified that, before any bid submitted in response to this invitation is considered for award, the Registrar, Cotton University may require the bidder to submit a further statement of facts in detail as to the previous experience of the bidder and financial resource available with him for performing the contemplated work. The Registrar, Cotton University expressly

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reserves the right to reject any bid or which the facts as to business, financial and other resources or business experience, compared with the work bid upon, justify such rejection.

6.3 Engineering firms / contractors with adequate experience must completed at least one similar work having value not less than Rs. 10 (Ten) lakhs during last 5(five) years. They must submit such completion certificate with the tender.

6.4 Cost overrun shall not be accepted.

6.5 Contractors should be financially sound to invest the amount and should submit necessary evidence on this account. Annual turnover should not be less than Rs.15.00 (Fifteen) Lakh per annum in the last five consecutive years.

7. BIDDER SHOULD EXAMINE & UNDERSTAND

All prospective bidders are required to thoroughly study and carefully examine all the terms and conditions, instructions, drawing & specifications pertaining to the work and visit the field of work to fully satisfy and acquaint themselves about the nature and location of work, the configuration of the ground. The spring level, the surface conditions, quality and quantity of materials required and their availability the type of equipments and facilities needed preliminary to and during the execution of the work and local conditions which may affect the work or cost thereof. Failure to do so will be at the bidder's risk.

8. SUBMISSION OF TENDER

8.1 Bidders are to quote their rates in the prescribed format (Schedule of works, Annexure A) attached in this bid document.

8.2 The rates are to be quoted on item basis. Bidders are to quote their rates for all items of works as given in the "Schedule of works, Annexure A". The rates to be quoted both in figures and words.

8.3 The rates quoted by the bidders will be inclusive of all taxes, royalties and other statutory levies as applicable.

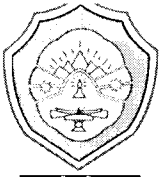
8.4 Bidders should note that unusually low rates not feasible for execution may not be technically accepted.

8.5 Bidders should note that during the time of execution of work, any item not covered by the schedule of work if required to be done as per decision of the Registrar/ Engineer-in Charge, Cotton University of work, they have to execute such work/works as supplementary item of works, rates of which will be same as the accepted rate for the work on S.O.R. for S.O.R of Assam PWD Building (Civil works) for the year 2013-14. If the rate of such supplementary item/items is/are not available in S.O.R of Assam PWD for the year 2013-14, the same will be analyzed by the department as per reasonable market price but in any case of dispute for rate of supplementary item/items, the decision of the Registrar, Cotton University will be final and conclusive.

8.6 The quoted rates will be firm for entire period of completion of the work. No price escalation on any component will be admissible.

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8.7 Firms submitting tender should enclose a certified copy of the Firm's constitution and a certified copy of Power of Attorney authorizing a person to operate the tender and contract and should furnish full address of the partners and the persons holding power of attorney on behalf of the firm.

9. AWARD OF CONTRACT

9.1 The contract will be awarded to that responsible bidder whose bid, confirming to the schedule conditions of contract and specifications will be most advantageous to the Department, price and other factors considered. An award mailed (or otherwise furnished) to the successful bidder within the time for acceptance specified in the bid will result in a binding contract without further action by either party. The Registrar, Cotton University does not bind itself to accept the lowest bid or any bid. As the interest of the Department may require, the right is reserved to reject any or all bids and to waive any minor informality or irregularity in bids received without assigning any reason thereof. Bid which are incomplete or which contain undesirable conditions are liable to rejection.

9.2 Cotton University will try to make timely payment of bills, but on unavoidable circumstances cannot guarantee timely payment of bills, for which no interest on the payable amount will be entertained.

10. CONTRACT AGREEMENT

10.1 The 'Contract agreement' (or Tender Agreement) for the works will be drawn up with the selected bidder/bidders within 7 (Seven) days of issue of the work order and the contract documents will comprise as described herein before.

10.2 The conditions of the F-2 form shall form part and parcel of the agreement. However wherever there is any contradiction or variation between the conditions of the F-2 form, the terms and conditions specified elsewhere in this document, the later will be treated as superseding the former. Terms and conditions shall be as per F-2 Form of agreement and has to follow accordingly.

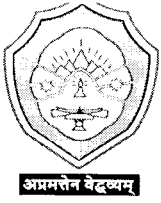
10.3 In a case where the selected bidder fails to commence the work as shall be notified in the work order or fails to execute the tender agreement with the The Registrar, Cotton University as stipulated herein before; The Registrar, Cotton University reserves the right to claim loss, damage etc. and take appropriate action under the terms of this document or law including forfeiture of E.M.

11. TOOLS & PLANTS

The Cotton University does not ordinarily furnish any tools & tackle, plants and equipments or such facilities for carrying out the work by the contractor (excluding hypothecation). The contractor shall arrange and maintain the equipments required for implementation of work all throughout the period of the contract

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12. MATERIALS & LABOUR

12.1 All materials (this includes without limitation raw materials, parts, components etc.) and labourers required for carrying out the work shall be arranged and furnished by the contractor all throughout the tenure of the contract and strictly conform to relevant IS(latest revision).

12.2 The intending tenderers should inspect the prospective sources of collection of raw materials and fully satisfy him about the quality of materials, availability of materials, lead, and mode of transportation. The Department shall not consider, after acceptance of the contract, to pay any extra charge for lead or any other reasons, in case the contractor found later on, to have misjudged, the quality/quantity of availability of such materials from the source of collection.

12.3 Cotton University shall not issue any construction materials such as cement, reinforcement bar, or any other materials.

12.4 In connection with the performance of work throughout the tenure of the contract, the engagement of labour and payment therefore by the contractor shall conform to the statute, the pertinent law or act of the Central & State Govts, as well as rules, regulations and orders of the local authorities or statutory bodies, as may be in force from time to time.

12.5 The materials procured for the work by the contractor shall be placed at site properly for inspection of Engineer-in charge before utilization. Any defecting materials should be replaced immediately for which no extra charge will be payable to contractor.

13. CHANGES IN QUANTITY AND ITEM

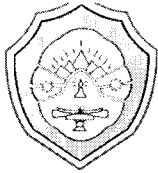
13.1 The authority may at any time, by a written order make changes within the general scope of the contract, in any one or more of the following

- i) Quantity of any item
- ii) Alteration or omission of any item
- iii) Addition of any item
- iv) Alteration in drawings, designs or specifications

If any such change causes an increase or decrease in the cost of or the time required for performance of the contract, an equitable adjustment shall be made in the contract price or time schedule or both and the contract shall be modified in writing accordingly. Any claim by the contractor for adjustment under this clause must be asserted within 30 days from the date of receipt by the contractor of the notification of change: PROVIDED HOWEVER, that the authority if decides that the facts justify such action, may receive and act upon any such claim asserted at any time prior to final payment under the contract. Failure to agree to any adjustment shall be a dispute concerning a question of fact within the meaning of the disputes mentioned herein after. However nothing in this clause shall excuse the contractor from proceeding with the contract as changed.

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14. INSPECTION

14.1 All works and all supplies (this term includes without limitation raw materials, parts, components, intermediate assemblies and end products) under the contract shall be subject to inspection and test by the **Registrar, Cotton University** or his authorized person to the extent practicable at all times and places including the period of construction or manufacture and in any event prior to final acceptance.

14.2 In case any work or part thereof or/and any supply is found defective in material or workmanship or otherwise not in conformity with the specifications or drawings or requirements of the contract, **The Registrar, Cotton University** shall have the right either to reject them or to require their correction, as directed by the department.

14.3 The inspection and test by the **Registrar, Cotton University** or his authorized person of any work or any supplies does not relieve the contractor from any responsibility regarding defects or other failures to meet the contract requirements which may be discovered prior to final acceptance. Except as otherwise provided in this contract final acceptance shall be conclusive except as regards latent defects, fraud or such gross mistakes as amount to fraud.

14.4 The contractor shall provide and maintain an inspection system acceptable to the **Registrar, Cotton University** covering the works and/or supplies hereunder. Records of all inspection works by the contractor shall be kept complete and available to the **Registrar, Cotton University** during the performance of this contract.

15. DEFAULT

The contractor shall not be liable for any excess cost of any failure to perform the contract arises out of causes beyond the control and without the fault or negligence of the contractor (such as FORCE MAJEURE) PROVIDED THAT the contractor shall notify the authority in writing of the cause of any such delay, within fifteen (15) days from the beginning thereof or within such further period as the authority shall grant for the giving of such notice.

16. LIQUIDITY DAMAGE

The liquidated damages shall be payable for delay in completion of the work @ 0.3% (point three percent) of the contract prices per week. The liquidated damages so payable shall not exceed 10% (ten percent) of the contract prices.

17. TERMS OF PAYMENT

One time full payment after completion work.

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CHAPTER-III : SAFETY ENGINEERING & SAFETY CODE

1. SAFETY ENGINEERING

Accident prevention shall be an essential part of the programme of the contractor for all operations involve in performance of the contract under this invitation in order to reduce the cost of construction measures in terms of:

- a. Human life sacrificed
- b. Temporary and permanent injuries to workers.
- c. Loss of materials resulting from accidents.
- d. Loss of damage to equipment.
- e. The cost of workman's compensation insurance.
- f. Loss of times due to accidents.

Suitable safety programme to be developed to cope with the particular hazards for each operations of the performance of the contract.

2. INSPECTION

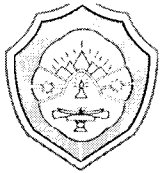
To ensure effective enforcement of the rules and regulations relating to safety precautions, the arrangements made by the contractor shall be open to inspect by the Engineer-in-Charge or his representative.

3. COMPENSATION

No extra charges or additional compensation will be admissible to the contractor by the department for any work done to comply with the provisions of safety Engineering and Safety Code. The bid price of the contractor for various items shall include these incidental cost.

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CHAPTER-IV : CONTRACTOR'S CAMP

1. CAMP SITES

The contractor shall provide, maintain and operate under competent direction such camp facilities convenient to the site works under this contract as are necessary for housing, feeding and accommodation of his employees. The location, construction, operation and maintenance of such camps shall be subject to the approval of the Assistant General Manager/ Engineer in charge of the site.

2. USE OF LAND FOR CONSTRUCTION PURPOSES

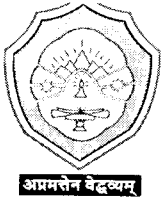
Such land as may be available at work- site will be allowed to be used by the contractor for construction of his camps free of charge. However, development of clearances of the land will have to be done by the contractor at his own cost. The contractor will be responsible to clear and clean the site after completion of his works and handover the land to the Engineer-in-Charge. The contractor will be liable to pay compensation for any damages done to the land or neighbouring area.

3. SANITATION IN CAMP SITE:

The temporary sanitation in the camp site should be properly maintained and hygienic so that pollution can be controlled and just before completion of the work site must be cleared properly.

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CHAPTER-V : DECLARATION

I / We hereby declare that I/we shall treat the tender documents and other records connected with the works as secret/confidential and shall not communicate information derived there from to any person other than person to whom I/We authorized to communicate the same or use the information to any manner prejudicial to the safety of the state.

Signature of the tenderer

Full Name

(In Block letters)

Address

.....

.....

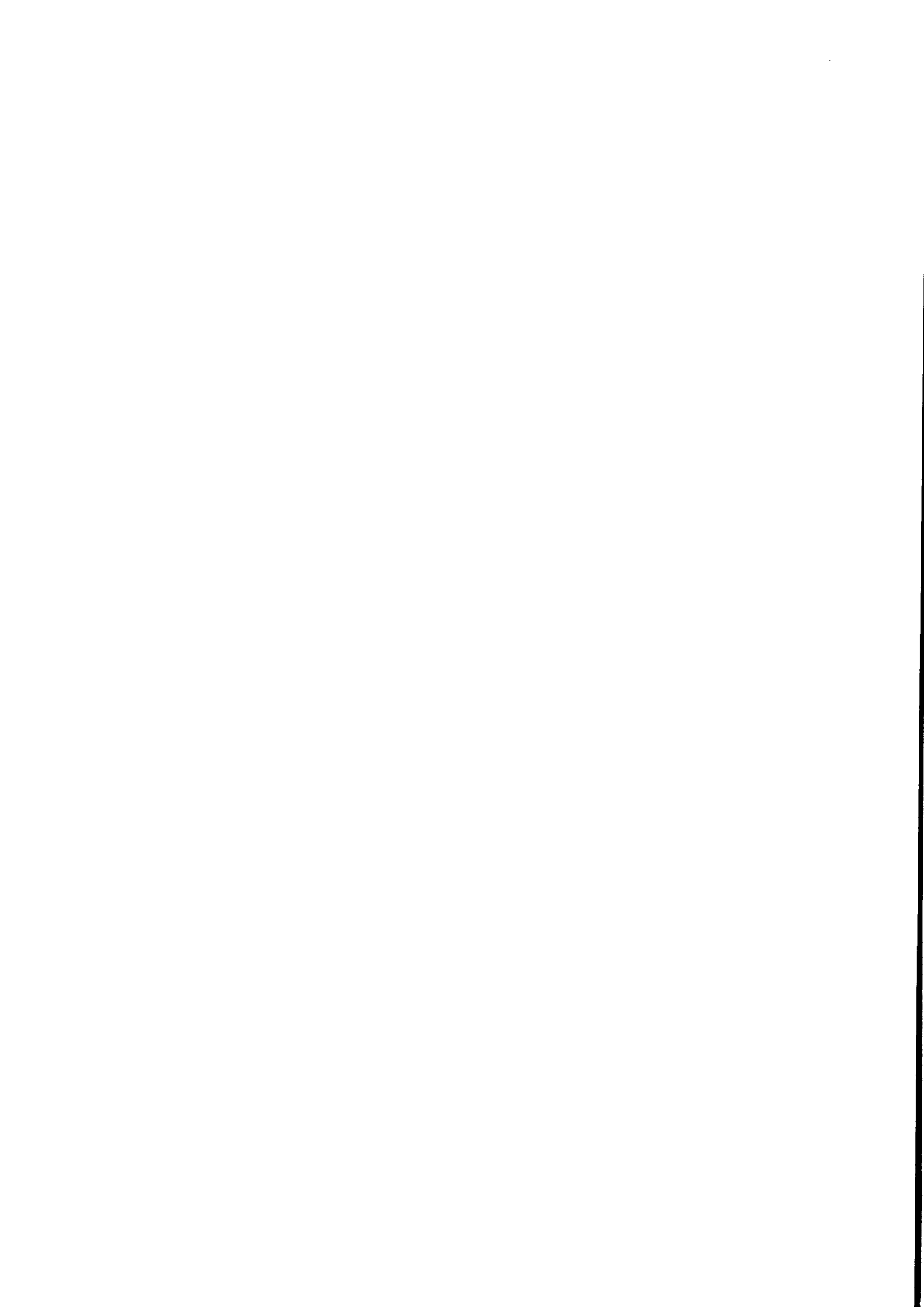
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Phone/ Mobile

Date:

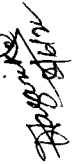
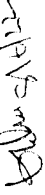
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3/1/22

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Price bid

Sl No	Item	Unit	Qty	Quoted Rate in figures	Quoted rate in words	Amount in Rs.
1	<p>Supplying, installation, testing and commissioning of electric driven terrace pump suitable for automatic operation and consisting of following, complete in</p> <p>a) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical confirming to IS : 1520</p> <p>b) Suitable HP squirrel cage induction motor TEFC type suitable for operation on 415 volts, 3 phase, 50 Hz, AC supply with IP55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325.</p> <p>c) M.S.fabricated common base plate, coupling, coupling guard, foundation bolts etc.as required. (d) Suitable cement concrete foundation duly plastered and with anti vibration pads. Make: KIRLOSKAR or Equivalent to be approved by department</p> <p>450 lpm at 35 m Head</p>	Set	1			
2	<p>Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :</p> <p>Mke: TATA/ ZINDAL/ NEZONE 100 mm dia</p>	M	100			
3	<p>Supplying and fixing single headed internal hydrant valve with instantaneous Gunmetal/Stainless Steel coupling of 63 mm dia with cast iron wheel ISI marked conforming to IS 5290 (Type -A) with blank Gunmetal/Stainless Steel cap and chain as required :</p> <p>Make: NEWAGE/ STEEL AGE/ AUDCO/ GETECH Single headed Stainless Steel</p>	Set	8			
4	<p>Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required :</p>					

	Make: NEWAGE/ STEEL AGE/ AUDCO/ GETECH 100 mm dia									
5	Providing, installation, testing and commissioning of non-return valve of following sizes conforming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required : Make: NEWAGE/ STEEL AGE/ AUDCO/ GETECH 100mm dia			Set	2					
6	Supplying and fixing 63 mm dia, 15 m long RRL hose pipe with 63 mm dia male and female couplings duly bound with GI wire, rivets etc. Make: ESSEL/ WINCO/ NEWAGE/ GETECH/ MINIMAX Stainless Steel (Grade 304) Set			Set	2					
7	Supplying and fixing first-aid Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required 20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type -2 as per IS: 12585 20 mm nominal internal dia gun metal globe valve & nozzle. Drum and brackets for fixing the equipments on wall. Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket. Make: ESSEL/ WINCO/ NEWAGE/ GETECH/ MINIMAX 30 m Set			Set	16					
8	Supplying & fixing 63 mm dia gun metal short branch pipe with 20 mm nominal internal diameter size nozzle conforming to IS 903 suitable for instantaneous connection to interconnect hose pipe coupling as required : Stainless Steel (Grade 304) Nos.			Set	8					
9	Supplying and fixing air vessel made of 250 mm dia, 8 mm thick MS sheet, 1200 mm in height with air release valve on top and flanged connection to riser, drain arrangement with 25 mm dia gun metal wheel valve with required accessories, pressure gauge and painting with synthetic enamel paint of approved shade as required.			Nos	8					
10	Providing & fixing of weather proof hose cabinets fabricated from 16 S.W.G. M.S. Sheet with centre opening full front glass door and locking arrangement, suitable to accommodate one landing valve (Yard Hydrant), 2nos. 15M long hoses and 1 no. Branch pipe with nozzle . The cabinet shall be painted with one coat of primer and 2 or more coats of synthetic enamel paint of approved make & shade and shall			Set	1					

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	be suitably mounted on a raised masonry platform complete as reqd. (Make: Self Fabricated) 900 X600 X 450	Set	8			
11	Supplying and fixing of fire brigade connection of cast iron body with gun metal male instantaneous inlet couplings complete with cap and chain as reqd. for suitable dia MS pipe connection conforming to IS 904 as required : 19.1 e Set 6590.0 2 way-100 mm dia M.S. Pip	Set	1			
12	Supply, installation, testing and commissioning of pressure switch for auto on & off of pump. The pressure switch shall decide the maximum pressure at which the switch shall change over, ON-OFF differential, maximum/ minimum change over pressure. Pressure switch shall be mounted on pipe with electrical contact, connection from fire panel. The cost shall include providing of any short pieces, nipples, elbows etc. as per requirement and approved specifications	Set	1			
13	Supply, installation, testing & commissioning dial type (100 mm) pressure gauge (glycerine filled) with isolation ball valve suitable for working pressure of 250 PSI. Cost shall be inclusive of providing any short pieces, nipples, elbows etc. as per requirement and approved specifications	Set	1			
14	Design, fabrication, assembling, wiring, supply, installation, testing and commissioning of motor control centre fabricated out of 14 gauge CRCA sheet steel in form with reinforcement of suitable size angle iron, channel 'T' sections irons and /or flats wherever necessary. MCC-1 for Fire Fighting equipment. Incoming 63 amps TPN MCCB with the following accessories: a.) 0-500 volts 96 x 96 mm square voltmeter with selector switch protected by 2 amps TP MCB. 1 Set b). Phase indicating lamps protected by 2 amp SP MCB 3 Sets Outgoings a.) 1 Nos. 32 amps TPN MPCB, 5.5 KW DOL starter, EOCR with single phase preventer and outgoing feeder to terrace pump motor. The compartment shall contain CT operated ammeter of 0-63 amps and indicating lamps with MCBs for 'ON/OFF' TRIP' status of pump motors. b.) Necessary cable alleys, internal wiring, and interlocking, earthing for all equipment shall also included.	Set	1			

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	<p>c). Necessary cable alleys space for spare switches, internal wiring and copper earthing of all equipment shall also be included. All switch gears/control gears shall be motor duty rating.</p> <p>d) Complete Auto Start and stop of pumps at set pressure as per specifications</p> <p>e) This panel shall be placed outdoor and shall have IP 54 protection</p> <p>Supply of 1100V grade XLPE insulated, stranded copper conductor, armoured and overall PVC outer sheathed cables of following sizes/cores</p> <p>Make: Polycab/ KEI/ RPG/ Havells</p> <p>a) 4 Core, 10 sq mm</p> <p>b) 2 Core, 1.5 sq mm</p>	M	40			
15		M	25			
16	<p>Laying and fixing of one number PVS/ XLPE insulated poer cable of following sizes on wall or surface clamped with 1 mm thick saddles, as required</p> <p>a) 4 C, 10 sq mm, armoured Cu Cable</p> <p>b) 2C, 1.5 sq mm, armoured Cu Cable</p>	M	40			
17	Supply, fitting & fixing of double layer water tank as per approved make of the University	M	25			
18	Civil works for construction of platform	Ltr	10000			
19	Shifting of existing water lines	Job	1			
20	Miscellaneous works	Job	1			
						Total

(Rupees.....)

Date:

Place:

Seal:

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