

UMA CHARAN PATNAIK ENGINEERING SCHOOL, BERHAMPUR(Odisha)

E Mail: principalucpes@gmail.com

Letter No 2225 Date: 12/12/2023

NOTICE INVITING TENDER

Procurement of tools & equipments, machineries, furniture etc. for U.C.P. Engineering School will be procured under different schemes including State Plan fund, Development Fund and Other Government assisted fund/scheme.

For procurement of the above, sealed tenders (in two bid systems) are invited from reputed manufacturers(OEM) of National / International repute or from their authorized dealers/registered firms and valid GST Registration. The above Tender consists of 03(three) packages valued to Rs.60 lakh (Approx) as detailed below. The Tender document can be obtained from the office of the Principal, U.C.P. Engineering School, Berhampur-760010 on any working day from 10.00 AM to 5.00 PM on payment of Rs.500.00 (Non-refundable) as processing charge per Tender. The last date of sale of tender document is 04.01.2024 upto 2.00 PM and the tender received upto the 06.01.24 and time 5.00 PM and will be opened on 08.01.24 at 4 PM in presence of the tenderers or their authorized representatives who choose to be present at the time of opening of the tender. The tender papers can also be down loaded from the website of www.ucpesbam.in & www.dtetodisha.gov.in. In case of bidders who have submitted tenders by downloading from the above websites, are to enclose an additional Bank Draft / Demand Draft @ Rs.500/- per tender in favour of Principal U.C.P. Engineering School drawn at any nationalized bank along with other document, towards the cost of the processing charge, failing which the tender will be rejected.

The undersigned reserves the right to reject any or all the tenders without assigning any reason thereof.


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Principal, U.C.P. Engineering School, Berhampur-760010

SUPPLY OF MACHINES AND EQUIPMENTS, COMPUTER HARDWARES & SOFTWARES, PERIPHERALS, TOOLS, FOR U.C.P. ENGINEERING SCHOOL, BERHAMPUR .

Bidding Document.

PACKAGE-1 TO 05. 03

SR NO	DEPARTMENT	PACKAGE NO
1	CIVIL ENGINEERING	PACKAGE -1
2	MATHEMATICS & SCIENCE	PACKAGE-2
3	CHEMICAL	PACKAGE-3

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GENERAL TERMS & CONDITIONS OF CONTRACT FOR PROCUREMENT OF COMPUTER HARDWARES & SOFTWARES, PERIPHERALS, TOOLS & EQUIPMENTS, ELECTRONICS GADGET, FURNITURES FOR U.C.P. ENGINEERING SCHOOL, BERHAMPUR .

1. Eligible Goods and Services

1.1 The Bidders shall quote the articles of reputed make, with their brand names/ISI specification as per the Bid technical specifications and may quote alternative EQUIVALENT standards in the Bid. The articles quoted should have adequate after sales service facilities.

2. Documents Establishing Bidder's Eligibility & Qualification

2.1 The Bidder shall furnish as part of the Bid the following Documents establishing Bidder's eligibility and qualification to perform the contract, to the Purchaser's satisfaction .

- a) That the Bidder, who is not a manufacturer / producer, has been duly authorized by the manufacturer/ producer to supply the goods.
- b) That the Bidder (in case of manufacturers) has financial, technical and production capacity necessary to perform the contract.
- c) That the Bidders (in case of Registered suppliers) has executed supply of such items as mentioned in Schedule of Requirement of Goods to different Govt. Organisations/Govt. PSUs.
- d) Copies of valid **GST Certificates** shall be furnished by the Bidder and the originals of the above certificates shall be produced to the purchaser before placement of notification of award if asked for by the Purchaser. Any Bidder failing to submit the above documents the Bid of the firm may be rejected.

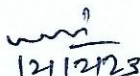
3. Documents Establishing Goods Eligibility.

3.1 The goods offered against the schedule of requirement of goods should be in accordance with the stipulated specifications.

3.2 The documentary evidence may be in the form of literature, pamphlets, manuals, drawing, circuit diagram etc. and shall furnish :

- a) Detailed description of goods with essential technical and performance characteristics.
- b) A list giving full particulars, including available source and current price of spare parts, special tools etc. necessary for proper and continuing function of the goods for a **period of two years** following the commencement of the use of the goods by the Purchaser.

3.3 The Supplier should clearly mention in their bid regarding the compatibility of the Computer Hardware & Software offered to the other Hardware/ Software and the specification on compatibility, information on Driver Software for peripherals and suitability of peripherals to the main system must be furnished.


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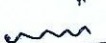

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4. **Bid Price**


- 4.1 The Bidder shall quote their lowest possible price and prices quoted by the Bidder shall be "fixed" during the Bidder's performance of the contract and not subject to any variation and/or escalation.
- 4.2 The contract price shall include the cost of the Goods including all taxes, Charges towards Packing, forwarding, handling, insurance, freight, incidental service, installation & commissioning of the goods and training to the consignee's personnel at site.
- 4.3 The Supplier shall give operational training to at least two faculty of each consignee on the equipment / Computer Hardware & Peripherals/Computer Software free of any extra cost to the purchaser. The training may be arranged in the purchaser's premises.
- 4.4 The Bidder shall furnish the breakup of cost as follows solely for the purpose of facilitating the comparison of Bids only. The price must be stated separately for each item.
- a) Ex-Factory/ Ex-Warehouse/ Ex-Showroom/ off the sale price
 - b) Packing, Forwarding and Handling charges
 - c) Insurance charges
 - d) Freight up to destination Institution.
 - e) Erection, Assembly, commissioning, incidental service, including testing, training charges.
 - f) Tax component (i.e all taxes) payable by the Consignee.
 - g) Delivery cost at site (including Tax Component)

5. **Bid Security Deposit :**

- 5.1 All bids must be accompanied by the EMD@ 2% (two percent) of the tender value in shape of Demand Draft/Bank Guarantee only drawn in favour of Principal U C P Engineering School. payable at Berhampur.
- 5.2 The bid security is required to protect the Purchaser against the risk of Bidder's conduct which would warrant the security's forfeiture.
- 5.3 Unsuccessful bidders' EMD will be discharged or returned as promptly as possible but not later than sixty(60) days after the expiration of the period of bid validity prescribed by the Purchaser.
- 5.4 A Bid Security of 1% of the purchase order(after approval of bid by purchase committee for issue of purchase order to successful bidder by competent authority) shall be deposited by the supplier before execution of contract as acceptance to execute the order as per terms and condition. The EMD will be refunded after 1 year from the date of payment received by the supplier after installation/delivery of goods successfully.


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5.5 The bid security may be forfeited if a Bidder withdraws its bid during the period of bid validity.

6. **Delivery of Goods**

6.1 The delivery of goods shall be made by the supplier in accordance to the order placed to the Consignee as shall be detailed in the Schedule of requirement of Goods.

7. **Inspection/ Test**

7.1 The Purchaser or his representative shall have the right to inspect/ examine/ test the goods in conformity with the contract awarded/supply order.

7.2 The inspection/examination/ test may be conducted at the goods final destination at the premises of the consignee.

7.3 The purchaser's right to inspect/ examine/test & where necessary to reject the goods after the arrival of the goods at the final destination, shall in no way be limited or waived by the reason of the goods having been inspected and tested by the manufacturer previously. In case of rejection of the goods at the final destination after inspection and test as stipulated above, the purchaser has to give sufficient reasons justifying such rejection.

7.4 In case any inspected/ tested goods fail to confirm to the specification/ working condition, the purchaser may reject them and the supplier shall replace/ repair the same free of cost.

8. **Payment Terms**

8.1 No advance payment is allowed by the Purchaser to the supplier for performance of the contract in question.

8.2 The standard payment terms(subject to recoveries, if any) upon submission of required documents shall be as follows :

Full 100% payment shall be made after installation, and commissioning and demonstration of satisfactory performance and imparting to the satisfaction of the consignee.

9. **Guarantee/Warranty**

9.1 The supplier shall supply the goods strictly as per the specification and time provided in the contract.

9.2 A. **Warranty maintenance Period for General Goods (except Computer Hardware & Peripherals)** shall remain valid for 24 months after Goods or any portion thereof as the case may be, have been delivered to the final destination indicated in the contract, or for 12 months after the Goods have been supplied/installed at the final destination indicated in the contract.

B. **Warranty maintenance period for Computer Hardwares & Peripherals** shall remain valid for 36 months after the Goods or any portion thereof as the

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case may be, have been delivered to the final destination indicated in the Contract. A copy of the Warranty Agreement Form is enclosed.

9.3 The Purchaser shall promptly communicate to the Supplier in writing of any claims arising under this warranty.

9.4 Upon receipt of such communication in writing, the supplier shall, with all reasonable time, repair or replace the defective Goods or parts thereof, free of cost within the guarantee period.

9.5 If the Supplier, having been noticed, fails to rectify the defect(s) within a reasonable period, the purchaser may proceed to take such remedial measures to repair the defective goods in question and shall reimburse the amount for such repair from the supplier. In that event, the Supplier shall pay the amount within a period of two weeks from the date of demand.

11. Insurance

11.1 The Purchaser will not pay separately for transit Insurance. The supplier is completely responsible for delivery of goods in perfect condition and shall replace/ rectify the missing/ defective parts if any at his own cost.

11.2 The goods to be supplied under the Contract shall be fully insured against loss or damage incidental to manufacture or acquisition, transportation, storage & delivery of the goods from Warehouse/ Factory/ Ex-shop of the supplier to the delivery point.

12. Transportation

12.1 The Supplier shall be required to meet all transport and storage expenses until delivery of the Goods covered in the contract to the Consignee.

13. Incidental Services

13.1 The Supplier shall be required to provide any or all of the following services :
(The cost shall be included in the Contract Price)


a) Furnishing of detailed literature/pamphlets/ circuit diagram/ operation & maintenance manual / drawings (as applicable) for each appropriate unit of supplied goods.

b) Furnishing of tools required for assembly and / or maintenance of the supplied goods.

c) Performance or supervision of on-site assembly and / or maintenance of the supplied goods.

d) Performance or supervision or maintenance and/ or repair of the supplied goods, for a period of time agreed by the parties, provided that this service shall not relieve the supplier of any warranty/ guarantee obligations under the contract.

e) Training of the Purchaser's personnel at the Supplier's plant and / or on site, in assembly, start up, operation, maintenance and/ or repair of the supplied goods.


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- f) A maintenance contract for the goods supplied, if required by the user beyond the warranty period shall be on mutually agreed upon terms between the user and supplier. The cost of such maintenance contract shall not be included in the Bid cost.
14. **Taxes and Duties.**
- 14.1 The Supplier shall be entirely responsible for payment of all Taxes, Duties etc. incurred until delivery of the contract goods to the Consignee subject to recovery afterwards in the bill as claimed in the Bid offer.
15. **Period of Validity of Bids**
- 15.1 The bid shall remain valid for a period of minimum 360 days for acceptance, from the date of opening of bid.
- 15.2 A bid valid for a shorter period may be rejected, as non-responsive.
- 15.3 In absence of any indication of the date of validity in the bid, it will be presumed that the offer will remain valid for the minimum period as prescribed above.
16. **Standards**
- 16.1 The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications and when no standard is mentioned, the Goods shall conform to the standards prescribed by the Bureau of Indian Standard (BIS).
17. **Sealing and Marking of Bids**
- 17.1 The bidders shall submit two bids i.e. Technical & Commercial bid separately in sealed cover. Both bids are sealed in duplicate and kept in single cover.
- 17.2 The inner and outer envelopes shall be :-
- a) **Addressed to the Purchaser at the following address :**
- b) Bear 'PROCUREMENT OF(as mentioned in the tender notice)
'DO NOT OPEN BEFORE'(the last date & time of opening as indicated in tender notice).
- 17.3 The inner envelope shall indicate the name and address of the Bidder to enable the bid to be returned unopened in case it is declared 'late'.
- 17.4 If the outer envelope is not sealed and marked as required, the Purchaser will be responsible for misplacement or otherwise of the Bid.
18. **Deadline for Submission of Bids.**
- 18.1 Bids must be received by the Purchaser at the address specified not later than the date and time mentioned in the tender notice,

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18.2 The Purchaser may, at its discretion, extend this deadline for the submission of bids.

19. **Late Bids**

19.1 Any bid received by the Purchaser after the date and time fixed for submission of bids will be rejected and / or returned unopened to the Bidder on that ground alone.

20. **Opening of Bids by Purchaser**

20.1 The Purchaser will open bids, in the presence of Bidder's duly authorized representatives who choose to attend, at the date & time of opening of the Bid mentioned in the tender Call Notice in the following location.
In the chamber of Principal, U.C.P. Engineering School, Berhampur-760010

The Bidders' duly authorized representatives who are present shall sign a register evidencing their attendance.

20.2 The name of the bidder/tenderer and the total amount of each bid along with important conditions like excise duty, sales tax, delivery terms, delivery period, special conditions and discounts, if any, shall be read out at the time of bid opening.

21. **Preliminary Examination**

21.1 The Purchaser will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required securities have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.

21.2 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If the supplier does not accept the correction of the errors, its bid will be rejected. If there is a discrepancy between words and figures, the amount in words will prevail.

21.3 Prior to the detailed evaluation, the Purchaser will determine the substantial responsiveness of each bid to the Bidding Documents. For purposes of these Clauses a substantially responsive bid is one which conforms to all the terms and conditions of the Bidding Documents without material deviations. The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bids itself without recourse to extrinsic evidence.

21.4 Bids received without certified copies of GST valid upto preceding year issued by competent authority may be treated as non-responsive and liable for rejection.

21.5 Bids received without the requisite Bid Security shall be treated as non-responsive and shall be rejected.

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21.6 The Purchaser may waive any minor informality or non-conformity or irregularity in a bid which does not prejudice or affect the relative ranking of any Bidder.

22. Evaluation and Comparison of Bids

22.1 The comparison shall be of ex-factory/ ex-warehouse/ off-the shelf price of the goods offered from within the Purchaser's country, such price to include all costs as well as duties and taxes paid or payable on components and raw-material incorporated or to be incorporated in the goods, the CIF port-of-entry price of the goods offered from outside the Purchaser's Country.

22.2 The Purchaser's evaluation of a bid will take into account, in addition to the bid price and the price of incidental services, the following factors :-


- a) The purpose of tender evaluation is to determine substantially responsive tender with the lowest evaluated cost, but not necessarily the lowest submitted price, which should be recommended for award.
- b) Evaluation of tenders should be made strictly in terms of the provisions in the tender documents to ensure compliance with the commercial and technical aspects.
- c) The past performance of the suppliers will be taken into account while evaluating the tenders.
- d) Cost of the inland transportation, insurance and other costs as per Clause 4 within the Purchaser's Country incidental to delivery of the goods to their final destination;
- e) Delivery schedule offered in the bid;
- f) Deviations in payment schedule from that specified in the General Terms & Conditions of Contract;
- g) The cost of components, spare parts and service.
- h) The availability in the Purchaser's country of spare parts and after-sales services for the goods offered in the bid;
- i) The projected operating and maintenance costs during the life of the equipment/ goods.
- j) The performance and productivity of the equipment/ goods offered;
- k) The quality and adaptability of the equipment/ goods offered.

23. Award Criteria

23.1 The Purchaser will award the Contract to the successful Bidder whose bid has been determined as the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.

23.2 Quality, durability and adaptability of the equipment/ goods offered suiting to use in Training Practice shall continue to be the overriding factor for selecting any goods and determining the lowest evaluated bid.

23.3 The purchaser shall award the contract within the period of validity of tenders


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to the Bidder who meets the Tender condition in all aspects has the necessary technical and production capabilities and financial resources whose Bid is substantially responsive to the tender conditions and has offered the lowest evaluated cost.

24. **Purchaser's Right to Accept any Bid and to Reject any Bid**

24.1 The Purchaser reserves the right to accept or reject any bid and to annul the bidding process and reject all the bids without assigning any reason thereof at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders on the grounds of such action of the purchaser.

25. **Notification of Award**

25.1 Prior to the expiration of the period of validity of the Bid, the Purchaser will notify the successful Bidder in writing by registered letter or by Fax/Email, to be confirmed in writing that his bid has been accepted.

25.2 The notification of award will constitute the formation of the Contract.

25.3 Upon the successful Bidder's , the Purchaser will promptly notify each unsuccessful Bidder and will discharge its bid security.

26. **Signing of Contract**

26.1 At the same time as the Purchaser notifies the successful Bidder that his bid has been accepted, the Purchaser will send the Bidder the Contract Form provided in the bidding documents, incorporating all terms and conditions of the agreements between the parties. Successful bidder may be called by the purchaser for amicable negotiation if required.

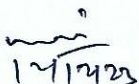
27. **Resolution of Disputes by Arbitration**

a) The Purchaser and the Supplier should try to resolve the disputes , if any, arising out of the contract, amicably between them, failing which the same shall be referred to the, Principal, U.C.P. Engineering School, Berhampur-760010 for adjudication as the sole Arbitrator under the provisions of the Arbitration and Conciliation Act, 1996 whose decision will be final and binding on all the parties to the dispute.

28. **Jurisdiction of the Court.**

a) The Purchaser and the Supplier shall agree that the competent Court at Berhampur shall have the jurisdiction to try and decide anything between the parties and they may approach the Competent Court at Berhampur if required at any time.

Principal U.C.P. Engineering School, Berhampur


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WARRANTY MAINTENANCE CONTRACT AGREEMENT.

THIS AGREEMENT made the.....day of, 20.... between the Principal, U.C.P. Engineering School, Berhampur (hereinafter "the Purchaser") of the one part and M/s.....(hereinafter called "the Supplier") of the other part:

WHEREAS the Purchaser invited bids for certain Goods & ancillary services viz, supply, installation & commissioning of the equipment at Consignee site including Warranty Maintenance Services and has accepted a bid by the Supplier for the supply, installation & commissioning of the equipment specified below at the Consignee site including Warranty Maintenance Services for a period of 3 years/1 year from the date of installation & commissioning of the equipment as per award of Contract No..... dated

Name of the Equipment/Software **Qty**

(To be filled in as per details of goods in the award of Contract)

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. Maintenance Services shall consist of Preventive and Corrective maintenance of equipment specified above & will include repair and replacement of parts free of cost.
2. Preventive maintenance, monthly once, which includes:
 - 2.1 Check-up to ensure that device connection is proper, cabling is at proper condition etc.
 - 2.2 Cleaning of the above equipment & checking the System Performance.
3. The Supplier is to furnish the tentative schedule of the preventive maintenance (as mentioned in item 1) of Warranty Maintenance Contract (WMC) to be carried out.
4. The parts replaced must be new parts or equivalent in performance to new parts.

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5. The Supplier will also provide the same maintenance service in case of the movement of equipment from the place of original installation to a different place or location, if the equipment is shifted by the Purchaser to another place or location at the cost and risk of the purchaser.
6. Any complaint informed through telephone must be acknowledged with a Complaint No. by the Supplier which will be noted by Consignee. All further contact with the Supplier on such complaint will be initiated through that Complaint No. Once rectification done, that No. will be canceled by both parties. A register is to be maintained by the Supplier where complaints are to be noted along with Complaint No.
7. Shoes should be removed before entering into the Computer room or the place at which the equipment has been installed.
8. The maintenance shall normally be done during working hours of the customer i.e from 10 AM to 5 PM. However, in case of emergency, maintenance may have to be done beyond office hours and even on holidays. Prior arrangement through proper communication should be worked out in all such cases by the Supplier & the Consignee.
9. The Service Engineer of the Supplier will be allowed to handle the respective equipment only in presence of the officer in charge at the Consignee site.
10. The Supplier should ensure that maintenance job is not hampered/delayed due to paucity of spares/inadequate man power etc.
11. The Supplier should submit the services call report, to the Consignee for each and every service call without fail.
12. In case of delay/lack of communication, down time will be calculated as mentioned below in WMC Clause.

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WARRANTY MAINTENANCE CONTRACT (WMC) CLAUSE

Normal response time for repair is 24 hours from the actual time of reporting of the problem to the Supplier.

	Period	Extension of WMC period
Response Time	Above 24 hrs & below 48 hrs.	2 days for delay of each day.
	Above 48 hrs & below 96 hrs	One Week for each day of delay
	Above 96 hrs	Two weeks for each day of delay
Down time	Above 24 hrs & below 48 hrs	Two days for each day of delay
	Above 48 hrs & below 96 hrs	One Week for each day of delay
	Above 96 hrs	Two weeks for each day of delay.

13. The Supplier evaluation data format for the WMC of Consignee systems may be filled up for necessary action.

14. All formats after filled up should be signed at the end of each page by the Supplier.

15. After completion of the work/repair/maintenance, the Purchaser shall issue a certificate of completion to the supplier to that effect.

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For the Purchaser

For the Supplier

Name :

Name :

Designation :


Designation :

Address :

Address :

Telephone No :

Telephone No :


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MANUFACTURER'S AUTHORISATION FORM

No. _____ / Date _____ /

To

Principal,
U C P Engineering School.
Berhampur (Ganjam) Odisha-760010

Dear Sir,

Tender No. _____

We _____ who are
established _____ and reputable _____ manufacturers of
_____ having factories at

(Address of Factory) to thereby authorize

M/s. _____ (Name and address of Agent) to

submit a bid and sign the contract with you against the above tender.

* No company or firm or individual other than
M/s. _____ are authorized to bid and conclude the contract in
regard to this business against this specific IFB.

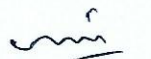
We hereby extend our full guaranty and warranty as per general conditions of
contract for the goods and services offered by the above firm against this tender.

Yours faithfully,

(Signature for and on behalf of Manufacturers)

Note : This letter of authority should be on the letterhead of the manufacturer and should
be signed by a person, competent and having the power of attorney to bind the
manufacturer. It should be included by the Bidder in its bid.

- This para should be deleted for simple items where manufacturers sell the product through different stockiest.
- The Supplier/Managing Director of the Company (if the supplier is a Company) or the Power of Attorney Holder having specific power to sign the contract can only sign the contract/execute the agreement.


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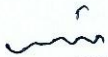

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CALCULATION OF BID SECURITY

Item No.	Item Quoted	Approx. Qty.	Rate/Unit (Highest Quoted Rate)	Total Amount (in Rs.)
			Grand Total :	Rs.
Bid Security Amount :- 1% of Grand Total Amount				Rs.

Signature of Bidder

N.B. – Only highest rates (if alternate models quoted) of each item quoted are to be taken in to account for calculation of bid security.


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PERFORMANCE STATEMENTS

ANNEXURE-VI

(In proof of Eligibility of bidder for a period of three years).

Order placed by the organisation with Address.	Order No & date	Stores ordered	Value of order	If the equipments are giving trouble free service.

Copy of Purchase order may be enclosed.

Signature of bidder

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ANNEXURE-VII

CHECK LIST:

DOCUMENTS TO BE SUBMITTED IN

Technical Bid

1. Accepted Terms and Conditions.
2. EMD amount(1% of Tender value)
3. Detail Specifications along with leaflet, literature.
4. Performance statements
5. Authorization from manufacturer
6. GST certificate.
7. Letter regarding Delivery period of supply.
8. Demand draft/Money Receipt towards processing charge of tender Papers.

Commercial bid

1. Price
(Item Wise)-Annexure-1
2. BID calculation sheet

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Details of specification of equipments/computer/tools/furniture package wise(Package 1-3)

SR NO	DEPARTMENT	PACKAGE NO															
1	<table border="1"> <thead> <tr> <th data-bbox="310 468 418 533">Sr No</th> <th data-bbox="423 468 1052 533">Name of item with specification</th> <th data-bbox="1057 468 1224 533">Approximate quantity</th> </tr> </thead> <tbody> <tr> <td data-bbox="310 539 418 653">1</td> <td data-bbox="423 539 1052 653">Serological Water Bath, Double Walled, with Digital Controller Cum Indicator with stirring arrangement, inside Stainless Steel, Temp. range amb.+5°C to 95°C +/- 0.2°C Size 600x300x175mm (for 8 racks)</td> <td data-bbox="1057 539 1224 653">01 no</td> </tr> <tr> <td data-bbox="310 659 418 743">2</td> <td data-bbox="423 659 1052 743">Laboratory Electric Oven, with Digital Indicator Cum Controller with Safety Alarm, range 50° to 250°C +/-1°C with Air Circulating Fan, S.S. Inside Size 450 x 600 x 450mm</td> <td data-bbox="1057 659 1224 743">01 no</td> </tr> <tr> <td data-bbox="310 749 418 1682">3</td> <td data-bbox="423 749 1052 1682"> <p>Wet mechanical analysis using pipette method for clay and silt. And reason Pipette Stand, Ref. Standards IS:2720 (Part 4), BS:1377 GRAIN SIZE ANALYSIS OF THE FRACTION PASSING 75-MICRON IS SIEVE OUT OF THE PORTION PASSING 4.75-mm IS SIEVE Apparatus consisting of :-</p> <p>Sampling pipette:- of the type fitted with a pressure and suction inlet and having a capacity of approximately 10 ml. The pipette shall be so arranged that it can be inserted to a fixed depth into a sedimentation tube when the latter is immersed in a constant temperature bath mounted on a sliding panel with a bevel geared arrangement and a handle to allow the pipette to be raised or lowered vertically. The screw is operated through a bevel gear mounted on a platform tightly fixed to the vertical guide rods. i. Sampling pipette, 10ml capacity 1 No.ii. 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Pipette and change over cock capacity 10ml Glass sedimentation tubes - A minimum of two of 50 mm diameter and approximately 350 mm long marked at 500ml volume with rubber bungs to fit for sedimentation sample preparation.</p> <p>1.pipete 2.cylinder/jar 3.Mechanical stirrer 4.glass weighing bottles 5.digital balance 6.thermometer 7.water bath</p> </td> <td data-bbox="1057 749 1224 1682">01 no</td> </tr> <tr> <td data-bbox="310 1688 418 1890">4</td> <td data-bbox="423 1688 1052 1890"> <p>Digital Tri-axial Outfit (Electronics with LVDT) Ref: Standard IS : 2720 (Part XI & XII) BS 1377-7, 1924 -2, ASTM D2850, D4767 AASHTO T296, T297 for testing **UU - Unconsolidated Undrained **CU - Consolidated Undrained **CD - Consolidated Drained Consisting of followings set up: -</p> </td> <td data-bbox="1057 1688 1224 1890">01 no</td> </tr> </tbody> </table>	Sr No	Name of item with specification	Approximate quantity	1	Serological Water Bath, Double Walled, with Digital Controller Cum Indicator with stirring arrangement, inside Stainless Steel, Temp. range amb.+5°C to 95°C +/- 0.2°C Size 600x300x175mm (for 8 racks)	01 no	2	Laboratory Electric Oven, with Digital Indicator Cum Controller with Safety Alarm, range 50° to 250°C +/-1°C with Air Circulating Fan, S.S. 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mi

NTD 10/2/23

	<p>1. Load frame motorized 30 Speed between 0.00048 mm/min and 6.00 mm/min. Suitable for operation on 220 V, 50 Hz, single phase, AC supply.</p> <ul style="list-style-type: none"> • Two pillar type. • Detachable Frame. • Enclosed Motor and Gear system. • Jewel Lamps indicating direction of motion. • Operational ease. • Useful for Triaxial and CBR Tests. <p>The Load Frame consists of a cabinet which houses the gear, system and motor with sturdy angle iron frame. The loading is done through the bottom loading platen, which is carried on a lead screw, which advances upwards. The top load bracket, which slides over two upright pillars, can be positioned at any desired height and locked. It carries a screw adapter for standard Proving rings and Load Cells. The loading part of the unit is detachable from the main unit for ease of transport and to avoid damage to the tension rods.</p> <p>Type of operation: - Electrical cum manual, Rates of Strain(mm/min):- Thirty Rates 0.00048 to 6.00mm/min Horizontal Clearance:- 300mm, Vertical clearance:- 850mm</p>	
5	<p>Rebound Hammer With Testing Anvil Feature: - The instruments assess the strength and Uniformity of Concrete using Rebound Value Calculation Method. - The Instrument has Digital and Analogue display. - Data Can be downloaded through Android/ iOS base apps Specifications: Impact energy Type N 2.207 Nm (1.63 ft lbf) Measuring Range: Upto 70Mpa Housing dimensions 61 x 84 x 275 mm / 2.4 x 3.3 x 10.8 in Weight (N-hammer) 1090 g / 2.4 lb Memory 2,000 measurement series Displays Analog & backlit digital (100 x 100 pixels, graphic) Charger connection Micro-USB Battery Standard AAA, alkaline or rechargeable IP classification IP54</p>	01 no
6	<p>B.O.D. Incubator Bod incubator CE Certified inner chamber made of s/s grade 304 & outer body made of ms for use in making standard b.o.d. (biochemical oxygen demand) determinations on water and sewage and for microbiological experiments. Temp. Arrangement from 5 deg. C to 50 deg. C +/- .5 deg. C (point 5 deg c) fitted with glass door double walled cabinet insulated with 75-mm thick superfine glass wool in between interior and exterior. Temp. Is controlled by a digital controller-cum temperature display with sensitivity of 0.5 deg. C. With temp. Setting facility and ensures accurate temp. Control. The hermetically sealed compressor along with fan cooled condenser coil are placed below the working chamber. Available with automatic high voltage and low cut off with built in voltage stabilizer operated on 220/240volts ac mains capacity 4 cu ft. (160 litre)</p>	01 no
7	Platform Weighing Machine (200kg capacity)	01 no
8	Weighing Balance (20 kg capacity)	01 no
9	<p>Digital Compression Testing Machine, Capacity 2000kN The Digital Compression Testing Machine has been designed to meet the need for a simple, economic and reliable means</p>	01 no

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N/Dump 12/23

	<p>to test concrete for its compressive strength. The design emphasizes simplicity both of construction and operation and makes the machine easy to use and maintain. The unit is compact, making it useful for site applications. The digital machines are provided with a pace rate indicator to indicate pace rate on a Bar Graph. With a little experience, the pace rate can be controlled manually while the test is in progress.</p> <p>Key Features;</p> <ul style="list-style-type: none"> • Meets the key specifications of IS -516 & IS 14858, and other ASTM, EN and BS standards depending on platens and accessories chosen. • Pace deviation bar graph. • Automatic stress determination and display. • Overload safety protection. • Self aligning platen with fast accessory change capability. • Configurable Engineering Unit for machine selection. • Predefined Machine capacities for each engineering unit. Specific capacity can be selected from the drop-down menu. • Flexible Calibration Points. Calibration can be done on 5 to 10 points. • Peak Load, Peak Stress, Unique Record No. is displayed. • EDI has provision to configure more than one Mode. • Mode1-Compression/Mode2-Flexure/Mode3-PrismTesting/Mode4- Tensile Splitting strength. Each mode will have independent calibration points and calibration points are also flexible. • Mode-4 runs with Mode-1 calibration. • Dynamic Calibration • Any Centronics dot matrix Printer. • Menu Driven sample details. • Data storage approx. 2000 records • Data Download thru RS232 in ASCII format. • User can set break point. • Store records can be viewed & print. • Peak stress calculation based on sample type and shape. • CVT supplied to ensure constant voltage to digital indicator. • Easy to operate. • Password protection for system & calibration setup. • 2% overload facility to calibrate the machine up to full capacity. • Start, Stop, Pause & Reset. • Multifunction Keyboard <p>System Description: The loading frame has a fully welded construction with a top crosshead, base and solid side walls. The precision ground hydraulic piston is fixed to the base and the machine's platens are hardened, ground, and polished. The upper platen comes with a self-aligning action and suitably sized spacers are also provided as standard to accommodate a variety of different sizes of specimen – the specification table shows which platen set comes with the machine. The two-speed pump allows the fast approach of the platens for daylight closure, and also allows precise control over the load application using a control lever and valve. A pace rate bar on the display gives operator feedback on the loading rate. The controller incorporates a digital display, with values of force and stress in English/Imperial, metric, or SI units. and features the integral load pacing bar</p>		
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	<p>display in kN/sec or lbf/sec. Maximum load is held and retained for approximately 15 minutes, unless cancelled, using the panel mounted reset switch. Results from approx. 2000 complete runs/tests can be stored in the memory and logged data can be printed directly via the built-in parallel port. The calibrated operating range of the machines is between 10% to 100% of the machine capacity, over which range the accuracy is +/- 1% of the applied load.</p> <p>Least count :- 0.1KN Maximum Clearance Between Platens:-370mm Maximum Distance Between Side Plates :-340mm Platen Size :- 222.0 Dia Piston Dia :-222.2mm Piston Stroke :-50mm Material of Construction: Special quality low carbon mild steel (Carbon-16%-17%) Weight of the Load Frame:1100kg Hardness of material(platen): 60+ 1 HRC</p>								
10	<p>Los Angeles Abrasion Test Apparatus: Ref.Standards-IS:10070 This Machine is for determining the resistance to wear off small size coarse aggregates and crushed rock.The machine consists of a hollow cylinder, mounted on a sturdy frame on ball bearings. A detachable shelf which extends throughout the inside length of the drum catches the abrasive charge and does not allow it to fall on the cover. The drum is rotated at a speed of 30-33 rpm by an electric motor through a heavy duty reduction gear. Supplied complete with a tray for collection of the material. Suitable for operation on 415V, 3 Phase, 50 Hz, AC Supply.</p>	Ino.							
11	<p>Workstation :- Windows 11 Home genuine</p> <ul style="list-style-type: none"> • Intel Core i7,12th generation • SSD Capacity 512GB, HDD 1TB, • RAM 32 GB DDR5 / DDR4 • 24 inch IPS LED full HD Display • Preloaded MS Office 2022 • Compactable NVIDIA 8GB graphics card and wi-fi IPv6 facility, Bluetooth V 5.2 • Wired Key Board, Mouse 	15 nos							
12	Smart Board-65 inch/75 inch specification same as in package-2	01 no							
13	Duel Desk as per the specification given below	20 no							
2	MATHEMATICS & SCIENCE		PACKAGE-2						
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	<ul style="list-style-type: none"> • Wired Key Board, Mouse • Accessories: on ear wired headphone with mic, Top mounted HD webcam and all required power and data cables <p>Brand: Dell/Acer</p>		
2	<p>Smart Board- Size-65 inch & 75 inch (rate for each size are to be mentioned separately)</p> <p>Key Features: Offering up to 40-point touch for a pen-on-paper writing experience Whiteboard software with engaging classroom tools Screen share via USB-C or wirelessly via Display and View Board Cast with Airplay and Chromecast Intuitive remote device control and multimedia broadcast with Android 11 OS powered by an octa-core CPU for optimized efficiency and security Product Description Designed with modern educators in mind, offers an intuitive and interactive interface for a multi-user writing experience. With a single-cable USB-C for instant, worry-free connectivity, teachers can seamlessly plug-in and control their devices while continuing the lesson and the dual-pen that comes in a range of colors and sizes. Integrated with Flicker-Free technology and an integrated TÜV certified blue light filter for all brightness levels. Fully integrated hardware and software for a complete classroom solution. Compatible with a full line of accessories to enables teacher to effectively teach with a variety of engaging tools.</p> <p>DISPLAY Panel Size: 75"/65" Panel Type: TFT LCD Module with DLED Backlight. IPS Display Area (mm): 1650.24(H) × 928.26(V) Aspect Ratio: 16:9 Resolution: UHD 3840x2160 Colors: 1.07B colors (10bit) Brightness: 400 nits (typ.), 450 nits (max.) Contrast Ratio: 1200:1 (typ.) 5000:1 (DCR) Response Time: 8ms Viewing Angles: H = 178, V = 178 typ. Backlight Life: 50,000 hours(Min) Surface Treatment: Hardness: 7H, Anti-glare coating Bezel: Slim Orientation: Landscape PLATFORM Processor: ARM Cortex-A73*4 + Cortex-A53*4 RAM: 4GB Storage: 32GB TOUCH Type/ Tech: Ultra Fine Touch Technology (IR Recognition) Touch Resolution: 32768 ×32768 Touch Point: Windows: 40 points of touch, Android : 20</p>	02 no	

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points of touch INPUT HDMI: 2.0 x 3 (3840x2160 @60Hz, HDCP2.2, HDMI1 with CEC/ARC) RS232: x1 OPS: x1 WiFi: x 1 module slot OUTPUT HDMI: x1 (4K@60Hz) Audio: x1 (Earphone out) SPDIF: x1 (optical) LAN RJ45: x2 USB Type A: 2.0 x 2 3.0 x 4 Type B: x2, for touch Type C: x1 (DP 1.2, USB2.0, PD65W, Ethernet 100M) SPEAKERS 15W x 2 + 16W x 1 subwoofers TOP CAMERA PLATE Yes EMBEDDED OS Android 11 BUNDLE SOFTWARE Basic Annotation Software: Pro Annotation Software: preloaded for Windows (Embedded in Windows Slot-in PC) Wireless Presentation: vCast/myViewBoard Display App SPECIAL FEATURES All-in-one USB port: "SmartPort™ USB" to all channels. Simple LAN sharing between IFP and slot-in device: Yes Light Sensor: Yes POWER Voltage: 100-240VAC +/- 10% Wide Range Consumption: 124W(typ.), 0.5W (off) ERGONOMICS Wall Mount: 800 mm x 400 mm OPERATING CONDITIONS Temperature (° C): 0°C to 40°C Humidity: 10% ~ 90% RH non-condensing DIMENSIONS (W X H X D) Physical (inch / mm): 67.3 x 40.2 x 3.5 in / 1710 x 1020 x 90 mm Packaging (inch / mm): 76.0 x 44.9 x 11.0 in / 1930 x 1140 x 280 mm WEIGHT Net (lb / kg): 118.8lb/53.9kg Gross (lb / kg): 158.5lb/71.9kg REGULATIONS cTUVus, FCC/ICES003, Energy Star 8.0, EMC/CE, CB/LVD, GOSTR/EAC, UkrSEPRO, EPEAT, Mexico NOM , Mexico Energy, UKCA, UKEEL, BSMI, BIS, LBL(Low Blue Light Certification), Flicker Free, Green BOM, RoHS, ErP-Eco, REACH, SCIP, WEEE, TPCH , Packing waste, CA65, PAIA PACKAGE CONTENTS 1. Power cord by ship area (UK/EU) 2. Remote control with AAA battery 3. Touch USB cable 4. Touch pen x 2 (VB-PEN-009) 5. Quick Start Guide + Compliance statement 6. RS232 adapter 7. Clamp x 5 8. Camera Plate 9. Screw x 8 10. HDMI cable 3m 11. USB-C cable 1.8m"

The rate shall include the following accessories

Platform mount stand, Smart Board connected with Compactable HD Webcam with accessories, 60W Sound bar or audio system(blue tooth, aux, USB with digital

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	display) compactable with smart board and software, preloaded licensed Windows 11 OS and MS Office 21 student edition(life time license), preloaded (Quick heal total security/ McAfee)anti virus with 3 years warranty 3. DUEL DESK As per the Specification given below	20 no												
3	CHEMICAL		PACKAGE-3											
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3	Duel Desk as per the specification given below	20 no												

Three Seater Dual desk - 16 Nos.

DESK / BENCH SPECIFICATIONS	
Material of Desk Top +/- 2 mm J or she / storage +/- 4 mm)	18mm thick MDF Board
Material of Support Structure or Side Panel	Mild Steel square Section of size 25x25 mm and wall thickness minimum 1.6 mm
Height of Desk Top in mm (+5 mm)	750
Width of Desk Top in mm (+ 5 mm)	800
GENERIC	
TYPE OF DESKING	INTEGRATEE DESK CUM SEATING WITH SHELF / STORAGE UNDER DESK
Desking Configuration	THREE SEATER
Length of Desking, Seating and Backrest (if provided) in mm (+ 0 mm)	1500
SEATING SPECIFICATION	
Material of Seat and Backrest: (if provided) +/- 2 mm (for back rest) +/- 4 mm)	18mm thick MDF Board
Material of Support Structure	Mild Steel square Section of size 25x25 mm and wall thickness minimum 1.6 mm
Material of Seat Cushion	WITH JELI CUSHION
Width of Seating in mm (+10 mm)	340
Height of Seat in mm (+10 mm)	460
Width of Backrest if provided in mm (+ 5 mm)	200
Back Support or Seating of Same material as Seating	Provided with JELI Cushion
Desk top finishing	All sides Edge to be banded with PVC tape of 2 mm thick with help of 108 mm glue
WARRANTY	
Warranty period in number of years	1



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