



CENTRAL UNIVERSITY OF SOUTH BIHAR

SH-7, Gaya- Panchanpur Road, Village- Karhara, Post- Fatehpur,
P.S- Tekari, District- Gaya (Bihar) PIN- 824 236

Tender Document

The Central University of South Bihar invites tenders for “**Supply and Installation of 1000 LPH capacity RO Water Purifier cum Chiller Plant**” at Boy’s Hostel, Central University of South Bihar, Gaya. The detailed tender document is available on the University website www.cusb.ac.in and CPP Portal www.eprocure.gov.in/epublish/app. The last date and time of submission of tender document is **20/06/2024 by 4:00 PM** hard copy send to the below mentioned address by registered post / speed post/ in drop box (Tender Box).

To,

The Registrar (Tender Document)
Central University of South Bihar
SH-7, Gaya- Panchanpur Road,
Village- Karhara, Post- Fatehpur
P.S- Tekari, District- Gaya (Bihar),
PIN- 824 236 Email- registrar@cub.ac.in
Website- www.cusb.ac.in
Contact - 0631-2229519
CPP Portal web site: www.eprocure.gov.in/epublish/app



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P.S- Tekari, District- Gaya (Bihar) PIN- 824 236

Name of Work: - “Supply and Installation of 1000 LPH capacity RO Water Purifier-cum-Chiller Plant” at Boy’s Hostel, Central University of South Bihar, Gaya.

Notice Inviting Tender	
Central University of South Bihar, Gaya invites Tender for “ Supply and Installation of 1000 LPH capacity RO Water Purifier-cum-Chiller Plant ” at Boy’s Hostel, Central University of South Bihar, Gaya from Authorized Dealers/vendors/Contractors of CPWD, MES, Indian Railways, BRO, State PWD or Public sector undertakings set up by the central or state government or in reputed private firm.	
NIT No:	CUSB/PSD/B.H./T/ 02 /2024-25, Dated - 30/05/2024
Estimated Cost	Rs. 3,50,000/- (Approx.) (Three lakh fifty thousand only)
EMD Amount :	Rs 15,000/-
Tender Fee	Rs. 500/-
Completion Period:	90 Days from issuance of LOA/Order
Start of bid submission date	30/05/2024
Pre-bid meeting	10/06/2024 at 11:00 AM
Last date of submission of bid	20/06/2024 at 04:00 PM
Opening of technical bid	20/06/2024 at 04:30 PM
Registrar	

Tender documents should be kept in these forms :

Envelop -A	EMD & Tender Fee
Envelop-B	Technical bid with all requisite certified documents and credentials along with un-filled (blank) financial bid.
Envelop-C	SOQ-cum-Financial Bid



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INSTRUCTIONS TO CONTRACTORS FOR SUBMISSION OF TENDER

TENDERER TO ENSURE THAT:-

1. The contractor shall quote his rates keeping in mind the specifications (Supply & Installation of Goods included Civil & Electrical Work), terms and conditions, additional / particular / special conditions etc. and nothing shall be payable extra whatsoever, unless otherwise specified.
2. The contractor whose tender is accepted shall also furnish performance guarantee of 10% or as per the latest updates of the tendered amount in addition to the other deposits mentioned elsewhere in the contract for proper performance of the agreement. The performance guarantee shall be in the shape of FDR or bank guarantee as per proforma given in General condition of contract.
3. **Tender Eligibility:**
 - (i) **Financial:**

The firms should have an average annual financial turnover of at least of Rs. 50 Lakhs during the preceding last 3 (three) consecutive financial year from 2023-24.
 - (ii) **Physical:**

Copy of order for 03 (three) similar work in Central Government / State Government/ PSU/ Central or State Universities/ CPWD/ MES/ Railways or reputed Private Firms out of which at least 01 (one) must having cost Rs. 05 Lakhs.
 - (iii) Successful bidder should not split/sublet any portion of work to other contractors/ agencies prior to approval to the Principal Employer.
 - (iv) No split of work is applicable. Single tender for all work shall be considered for award of the work.
4. Duly signed/sealed all pages of tender documents is required to be delivered at Central University of South Bihar, by Registered Post/ Speed Post/By Hand (to be submitted in Tender Box) to reach on or before **20/06/2024 by 4:00 PM**. The Technical Bids will be opened at CUSB, Gaya in presence of the tenderers or their authorized representatives, who wish to attend.
5. The tenderer shall quote for the materials to be supplied at CUSB Gaya as per detailed specifications as given in the tender document.
6. For any clarification and doubt related with the Tender, tenderer may email their queries to [<registrar@cub.ac.in>](mailto:registrar@cub.ac.in).
7. The tender shall be submitted in three separately sealed envelopes marked as "A", "B", & "C". The language used shall be English. In case any information is given in foreign language, then translated (in English) copies of those pages must be enclosed, failing which the tender will be disqualified.
8. **ENVELOPE 'A' (Earnest Money & Tender Cost)**

The tender shall be accompanied by the cost of the tender document for **Rs. 500/-** (Rupees Five Hundred only) in the form of Demand Draft failing which the tender will not be accepted.

Tender must also be accompanied by EMD of **Rs. 15000/-** (Rupees Fifteen Thousand only) in the form of Demand Draft in favour of Central University of South Bihar, payable at Gaya executed by any Scheduled Bank. The Demand Draft towards Earnest Money & cost of tender document will be placed in sealed **Envelope 'A'**.

EMD is not required to be submitted by bidders who are exempted in terms of MSME, Govt. of India guidelines. However, they are required to furnish requisite certificate in this regard issued by the Competent Authority.



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9. ENVELOPE 'B' (Technical Bid Document)

Those Tenderers, who are not the manufacturer but are authorized by the original manufacturer to supply the goods, should establish their credentials by giving valid documentary evidences of similar supplies to have been executed in India. Manufacturer Authorization Certificate must be submitted for supply of Goods for each OEM separately with the bid documents.

Checklist for Envelope 'B'

- i. Tender fee of Rs.500/- in form of DD, favoring Central University of South Bihar, payable at Gaya.
- ii. EMD of Rs. 15,000/- through DD favoring Central University of South Bihar, payable at Gaya.
- iii. Attested copy of Registration certificate or registered partnership deed of firm if firm is in partnership.
- iv. Self-attested list of present clients along with their contact numbers and the copies of orders as evidence in respect of the works executed of similar nature as demanded in Physical Eligibility Criteria.
- v. Experience Certificates of satisfactorily completion of at least three similar nature work in last five years. However the contracts going to expired within next 6 months of the last date of submission of tender may be included in the list.
- vi. GST Registration Certificate
- vii. ITR and audited copy of turn-over as requisite in Financial Eligibility Criteria.
- viii. Manufacturer Authorization Certificate in case supply of Goods separately for each major product.
- ix. All pages of tender document duly signed & sealed by the tenderer on each page as a acceptance of tender clauses included un-filled financial bid.

10. ENVELOPE 'C' (Financial Bid Document)

The **Envelope 'C'** shall contain the tender documents and information related to the schedule of quantities quoting the rates per Unit/Price etc. of the item pertaining to the Financial Bid on the Financial Bid document, issued by CUSB, along with the tender document.

The Financial Bid should be submitted separately in separate Envelope-C clearly mentioning the Financial Bid along with tender number on top of the Envelope.

11. All columns shall be duly filled in with specific information on the cost involved.
12. The rates for the items shall be quoted in Indian Rupees only.
13. The Tenderer should clearly mention in all the three envelopes (i.e. A, B and C) along with tender number and clear description of the items for which the offer is being quoted. If any discrepancy is observed the offer would be treated as non-responsive and would be rejected out rightly.
 - **Envelope 'A'** (Earnest Money & Tender Cost),
 - **Envelope 'B'** (Technical Bid Document), and
 - **Envelope 'C'** (Financial Bid Document), shall be in separate sealed envelopes, each marked as "**Envelope 'A'**", "**Envelope 'B'**" and "**Envelope 'C'**", respectively.
 - All the three envelopes shall be submitted together in another big envelope sealed and super-scribing thereon **Tender for Supply & Installation of "Laboratory Equipments"** for Physics Lab alongwith **Tender Number and Name of the Equipment quoted.**
 - The envelope should be addressed to:
The Registrar, (Tender Document) Central University of South, SH-7, Gaya - Panchanpur Road, Village - Karhara, Post- Fatehpur, P.S. Tekari, District - Gaya (Bihar) PIN - 824236.



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- The envelope marked **Envelope 'B'** of only those Tenderers shall be opened, whose earnest money & tender cost are placed in the **Envelope 'A'** and found to be in order. In case of waiver of the charges, relevant documents shall be submitted in **Envelope 'A'**.

The Tender Evaluation Committee will evaluate the Technical Bids and is fully authorized to reject any incomplete tender or on its satisfaction that the requirements are not met for the complete need of the CUSB with regard to the Committee. The decision of the Tender Evaluation Committee shall be final. Only those Technical Bids cleared by the Tender Evaluation Committee shall be eligible for consideration of Price Bid. Those successful Tenderers for whom the **Envelope 'C'** (Price Bid) is to be opened shall be duly intimated.

14. Clarification on Tender Documents

During evaluation of tenders, the University authorities/ committee may at its discretion ask the Tenderer for any clarification(s) if so deemed fit. The request for clarification and the response shall be in writing. However, the Tenderer is not permitted to alter the price(s) furnished in the Price Bid (**Envelope 'C'**).

Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price (i.e. 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 errors, its tender will be rejected. If there is a discrepancy between words and figures, the amount in words will prevail.

15. The amount of Earnest Money Deposit (EMD), in case of successful Tenderer, shall be refunded on successful completion of delivery/installation. However, EMD of unsuccessful Tenderers will be refunded after the award of the contract to the successful Tenderer.
16. The CUSB, does not bind itself to accept the lowest or any other tender, and reserves the authority to reject any or all the tenders received without assigning any reason. Tenders not in compliance with any of the prescribed conditions or incomplete in any respect or in presence of any correction not duly dated, initialed by the Tenderer will be liable to be rejected. However, the final decision for accepting or rejecting any or all tenders will be in the sole discretion of Vice Chancellor, CUSB.
17. Tender shall remain open for acceptance for a period of **90 days** from the date of opening of the tenders. If any Tenderer withdraws his tender before the said period or makes any modifications in the terms and conditions of the tender which are not acceptable to CUSB, then CUSB, shall without any prejudice to any other right or remedy, be at liberty to forfeit full earnest money, absolutely. The decision of Vice Chancellor, CUSB in this behalf shall be final and binding on the Tenderer.
18. The notice inviting tender shall form a part of the contract document.
19. In case of any dispute, all cases shall be processed under judiciary of Gaya Court.
20. No additional conditions from the Tenderer shall be acceptable. The tenders having any additional conditions will be summarily rejected without assigning any reason.

Date:
Place:

Signature of the Tenderer



CHECKLIST-cum-COMPLIANCE SHEET

We hereby declare that the following requirements have been fulfilled by us –

Sl. No.	Particulars	Yes/No
	Documents to be kept in Envelope-A	
1	Tender Fee Rs. 500/- in form of Demand Draft in favour of “Central University of South Bihar”, Payable at Gaya.	
2	Earnest Money Deposit (EMD) of Rs. 15,000/- in form of Demand Draft in favour of “Central University of South Bihar”, Payable at Gaya.	
3	Copy of MSME certificate, if any, for waive from EMD	
	Documents to be kept in Envelope-B	
4	Copy of PAN Card	
5	Copy of GST No.	
6	Copy of ITR of the last three years	
7	Experience certificate of job in related areas. At least three copy of Purchase Order along with completion certificate of related work experience be attached with the tender document. Other related documents as mentioned in this tender document must be attached to meet the physical eligibility criteria.	
8	Documentary evidence for the turnover of last three financial year to meet the financial eligibility criteria.	
9	Unfilled ‘PRICE BID PROFORMA’	
10	Manufacturer Authorization Certificate, as demanded	
11	Non-Blacklisting Certificate	
12	Every page of the tender documents and the enclosed copies of the certificates must be signed with seal.	
	Documents to be kept in Envelope-C	
13	Duly filled in Financial Bid Document (Performa – A & B)	



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TECHNICAL BID PROFORMA

1.	Name of the Organization				
2.	Head Office / Registered Office				
	Telephone No/mobile No.				
	Fax No.				
	Email				
	Web site (if any)				
	Date of Establishment				
	Branch Office in Gaya , if any				
	(Provide Complete Address)				
	Telephone No.				
	Fax No./Email				
3.	Name of Chief Executive/ Proprietor / Partners with Designation				
	Telephone No./Mobile No.				
	Fax No./ Email				
4.	Name of Contact Person				
	Telephone No./Mobile No				
	Fax No./Email				
5.	Type of Organization	Certified Documents to be enclosed			
a.	Proprietary		Trade License		
b.	Partnership		Partnership Deed, Trade License		
c.	Private Limited Company		Memorandum of Article		
d.	Public Limited Company		Certificate of Registration		
e.	Public Sector		Trade License		
6.	Nature of Business (tick the relevant)				
	Manufacturing		Service		Dealership
	Stockiest		Indian Agent		Indian Branch Office
	Others Pl. Specify				
7.	Class / Type of Product / Materials Manufactured / Sold / Serviced/ Fabricated				
	Scientific Equipment		Electronics		Lab Consumables & Chemicals
	Electrical Items		Computer Peripherals		Computers



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Laboratory Equipments		Office Automation Product		Electrical Works	
Sport Materials		Water Coolers		Air-conditioners	
AV Equipments		Boards		Other, please specify.....	
Audited Annual Turnover during last 3 years (₹ In Lakhs) (enclose Chartered Accountant's certification & Income Tax Return Copy)					
Year		Rupees (in Lakhs)		Annexure (Number)	
2023-24					
2022-23					
2021-22					

8.	Commercial Information (enclose Attested Copy wherever Applicable)			
S. No.	Information	Details		Annexure (Number)
a.	GST Registration Number			
b.	Excise Registration Number Trade / Factory License Number			
c.	PAN No.			
d.	Details of Registration Certificate with DGS&D/NCCF			
e.	SSI/NSIC/MSME Certificate			
f.	Current dealership agreement with Principal Letter No. / Date / Valid upto			
g.	Relevant IISI/ SO Certificate, if any			
h.	<u>Bank Details :</u> Account No.			
i.	Name of Bank & Branch			
j.	IFSC Code			
k.	Details of Tender Fee	Amount:	DD No. & Date	Name of the issuing Bank & Branch



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I.	Details of EMD	Amount:	DD No. & Date		Name of the issuing Bank & Branch					
m.	Details of Previous Supply in Govt. Organisations/ Govt. Educational Institutions (Enclose Supply order & Performance report. If required enclose separate sheets) Enclosures -	Name of the organization	Item Supplied / Qty.		Total Value (Rs in lakhs)					
9.	MSME Entrepreneur	Comment (in case waiving of EMD)								
9.1.	Is the bidder MSME Entrepreneur	Y/N								
9.2.	If yes, the category (GEN/OBC/SC/ST/Women)	GEN	OBC	SC	ST	Women				
I/ We hereby give an undertaking that the information provided are true to the best of my knowledge and belief. If anything found to be false at any stage my tender will be liable to be rejected and EMD amount will be forfeited.										
Signature of authorized representative:										
Date:										
14.	Note									
14.1.	Separate information sheet may be provided for item (s) in case space provided is not adequate.									



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INSTRUCTIONS FOR THE TENDERER

- a. The vendor(s)/contractor(s) should read all the specifications, items & conditions, contract clauses, nomenclature of the items, specifications etc., contained in the bid document very carefully, before quoting the rates.
- b. The vendor(s)/contractor(s) should also read the General conditions of Contract for CPWD works 2014 & GFR-2017, which will be a part of the agreement with amendments up to the date of receipt of tenders including the special conditions and particular specifications etc.
- c. Rates must be filled in words and figures. Amount should be worked out for all items.
- d. The contractor(s) shall quote the rates keeping in mind the specifications, terms & conditions, additional and special conditions etc., and nothing extra shall be payable unless otherwise specified.
- e. The Contractor(s) shall have to make his own arrangement for housing facilities for staff at his own cost. No labour huts will be allowed to be constructed in University campus. Any decision in this regard shall rest the Registrar, Central University of South Bihar.
- f. The contractor(s) shall quote his rebate if required, mentioning specifically on what component it is applicable otherwise it shall be considered general rebate on total quoted rates.
- g. The contractor(s) shall make arrangement for disposal of dismantle materials which are environmental friendly.



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Tenders are invited from authorized dealers/reputed vendor/contractor for issue of tender documents for "Supply and Installation of 1000 LPH capacity RO Water Purifier cum Chiller Plant" at Boy's Hostel, Central University of South Bihar, Gaya.

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1. To become eligible for issue of tender, the tenderer shall have to furnish an affidavit as under:-

"I/We undertake and confirm that eligible similar work(s) has / have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for tendering in Central University of South Bihar, Gaya in future. Also, if such a violation comes to the notice of Department before date of work, the Principal Employer shall be free to forfeit the entire amount of Earnest Money Deposit / Performance Guarantee."

2. The time allowed for carrying out the work will be **90 (Ninety) days** from the date of issuing of LOA/Agreement or from the first date of handing over the site, whichever is later, in accordance with the phasing , if any , indicated in the tender documents.
3. The site for the work is available in full.
4. Bid documents consisting of plans, specifications, the schedule of quantities of the various classes of work to be done and the set of terms and conditions of contract to be complied with by the contractor whose tender may be accepted and other necessary documents can be seen in the office of the Registrar, Central University of South Bihar in office hours except on Saturday/ Sundays and Public Holidays. Bid documents, excluding standard form, will be issued from this office, during the office hours specified above, on payment of Rs. 500/- in cash/demand draft in favour of Central University of South Bihar as cost of bid payable at Gaya. The tender form can also be downloaded from the University website www.cusb.ac.in (payment for download tender to be made through Demand Draft in favour of Central University of South Bihar payable at Gaya alongwith tender document at the time of submission of bid.)
5. (i) Bid shall be accompanied with Earnest money of Rs. 15,000/- in demand draft of a scheduled bank issued in favour of Central University of South Bihar payable at Gaya.
(ii) Application supported by prescribed annexure, Earnest money, Copy of Enlistment Order, tender cost (if downloaded from the website) and tender shall be placed in separate sealed envelopes clearly written on each as (i) **Envelope-A** : Tender Fee/Earnest Money (ii) **Envelope-B** : Technical Bid (iii) **Envelope-C** : Financial Bid; respectively with **Name of Work** written on each envelop.

All three envelopes shall be submitted together in another main sealed envelope with Tender No. and Name of Work written on cover. The bids will be received **up to 04.00 PM on 20/06/2024** at Central University of South Bihar. The Technical bid shall be opened first by the authorized representative of the Central University of South Bihar. The Financial Bid shall be opened only for those bidders who are found to be technically qualified.



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(iii) The description of the work :

Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidder shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Electricity will be provided by the University free of cost. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

(iv) The University does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected.

(v) Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.

(vi) The University reserves the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.

(vii) The tender for the works shall remain open for acceptance for a period of 90 days from the date of opening of the financial bid.

(viii) The bid document shall form a part of the contract document. The successful tenderer/ contractor, on acceptance of his bid by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of:-

(ix) The bid documents including additional conditions, specifications and drawings, if any, forming the tender as issued at the time of invitation of bid and acceptance thereof together with any correspondence leading thereto.



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To,
The Registrar
Central University of South Bihar.
Gaya.

Subject : Submission of Tender for the work of “Supply and Installation of 1000 LPH capacity RO Water Purifier-cum-Chiller Plant” at Boy’s Hostel, Central University of South Bihar, Gaya.

I/We acknowledge that University is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/bid document.

I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by University. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, University shall have unqualified, absolute and unfettered right to disqualify the tenderer/bidder and reject the tender/bid in accordance with terms and conditions of the tender/bid.

Yours faithfully

(Duly authorized signatory of the Bidder)



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AFFIDAVIT

I/ We have submitted a bank guarantee for **“Supply and Installation of 1000 LPH capacity RO Water Purifier-cum-Chiller Plant”** at **Boy’s Hostel, Central University of South Bihar, Gaya**

Agreement No. _____

date _____ from _____

(Name of the Bank with full address)

to the Registrar, Central University of South Bihar, Gaya with a view to seek exemption from payment of security deposit/performance guarantee in cash. This bank guarantee expires on _____. I/We undertake to keep the validity of

the bank guarantee intact by getting it extended from time to time at my/our initiative upto a period of _____ months after the recorded date of completion of the work or as directed by the University.

I/We also indemnify the Government against any losses arising out of non-encashment of the bank guarantee, if any.

Note: The affidavit is to be given by the executants before a first class Magistrate.

Dated :

(Signature of the contractor)



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TECHNICAL SPECIFICATIONS OF RO WATER PURIFIER CUM CHILLER

S.No	Item	Technical Specification	Qty
1.	RO Plant (1000 lit/hr)	<ul style="list-style-type: none"> All maintenance including spare parts (electrical, mechanical, plastic etc.) software consumption should be included in warranty period. RO unit should maintain by manufacturer, supplier, or authorized dealer through skilled staff. All piping (of PEX material) and plumbing work related to unit as per design of unit should be provided by supplier at its cost. Permeate water quantity = 1000 litre/hour Minimum Recovery = 50% to 60% Raw Water Characteristics - Water Test Analysis Report to be got by the agency from NABL accredited third party lab/ a Government lab Treated Water Quality requirement Turbidity : <1NTU Chlorides : < 10 ppm Sulphates : < 5 ppm TDS : < 150 ppm (a) Dual Media Filter for online installation before the Micron Filters) suitable for a flow rate of 2000 LPH. The material of construction shall be composite FRP. The unit shall be supplied complete with multi-port valves, inlet and outlet branches removal caps of replacement of elements inlet and outlet pressure indicators. -- 1 Set (b) Raw Water pumps of horizontal, centrifugal type suitable for a flow rate of 3000 LPH at 25m head. The motor shall be TEFC suitable for a supply of 230V/2-phase/50Hz supply. The pump shall be supplied complete with base channel coupling foundations, bolts, pressure gauge at inlet and outlet of each pump. -- 1 Nos. (c) R.O High Pressure feed pumps of vertical, multistage centrifugal type suitable for a flowrate of 1000 LPH of required Head (or as per design calculation). The pump construction shall be of SS-304 & impeller shall be also SS-304. The motor shall be of TEFC suitable for a supply of 230V/Single phase/50 Hz supply. the pump shall be supplied complete with base channel coupling foundation, bolt, pressure gauge at inlet and outlet of each pump. Inbuilt mount on skid - 1 no (d) Antiscalant Dosing System including chemical dosing pump, tanks etc. (e) Polypropylene Micron/cartridge Filter and SS housing (f) R.O. modules made out of Spiral Wound Thin Film composite suitable to withstand pressure of 20kg/sq.cm. Suitable BSPT/NPT connections shall be used for connecting feed & reject ends. the modules shall be supplied complete with all necessary instrumentation, valves for sampling, drain, reject & permeate, epoxy-coated structural steel bases and supports, as per following system capacity requirements.(i) Total net treated water output of system = 1000 LPH (g) Composite FRP RO pressure tube/vessel (h) Automatic RO Module cleaning System including chemical pump 	1 Job



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		<p>set, cartridge filter, tanks and Clean in place pump of horizontal end suction suitable for a flow rate of 1000 LPH at required head with 200 ltr. HDPE tank. The pump construction shall be of CI. The motor shall be TEFC suitable for a supply of 230 V/ single phase/50Hz supply. The pump shall be supplied complete with base channel, coupling, foundation bolts, pressure gauge at inlet & outlet of the pump. -- 1 Set</p> <p>(i) Instrumentation including flow meters, digital TDS meter, digital pH meter, pressure gauges, low pressure switch, high pressure switch, Digital Conductivity probes for conductivity display -- 1 Nos. Should be inbuilt, Level switches to control water level in the output storage tank and soft Water Tank.-- 2 Nos. etc. complete.</p> <p>(j) Centralized PLC control panel along with touch-screen digital display board along with all digital sensors for TDS & Flow, made out of CRCA sheet min. 2mm thick having main contactors for all pumps (listed above) including SPP, 3 phase thermal overload relay. The control panel for monitoring and control of P.O. system shall include all required signal lamps, MCB/MCCB. All control and power cabling along with double earthing between the panel shall be included in the scope of supply of the contractor. An emergency stop push button shall be provided in the panel. The MCC panel shall have the following interlocks:-</p> <p>i) High Pressure Pump unit trip in case of Low suction pressure</p> <p>ii) High Pressure Pump unit trip in case of High discharge pressure</p> <p>iii) Special anti-scalant dosing pump trips in case high pressure pump trips and vice versa.</p> <p>iv) SHC dosing pump trips in case high pressure pump trips and vice versa</p> <p>v) The System should display the TDS of Raw Water & R.O. Water, Flow Rate of Inlet, Outlet & Reject Water simultaneously.</p> <p>(k) All interconnecting piping work with valves</p> <p>(l) All cabling, connections, terminations etc. Complete as required for functioning of the plant.</p>	
2.	Electrical	All electrical work to be done as per the CPWD specifications and relevant IS code.	1 Job
3.	Civil	All Civil work to be done as per the CPWD specifications and relevant IS code.	1 Job
4.	Chiller	<ul style="list-style-type: none"> Continuous Cold water system to make 18 Liters/ Minute with a Delta Difference of 15 Degree from Ambient temperature. PID Controller and display for cold water <p>Chiller tank to be SS and inbuilt in the system(no extra space to be provided)</p> <p>Complete SS treated water storage tank of capacity 1000 Liters with Complete insulation including all inlet/outlet connections, accessories, valves, double seal manhole covers, insulation etc. Wrapping and coating with required insulation to be done.</p> <ul style="list-style-type: none"> 2 Ton Capacity 	1 Job



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ADDITIONAL SPECIFICATIONS

1.0 GENERAL

- 1.1 The work in general shall be executed as per the description of the item, specification attached, CPWD specifications 2009 Vol-I & II with upto date correction slips.
- 1.2 In case of any variation between different applicable specifications, the following order of precedence will be followed:
 - I. Nomenclature of item
 - II. Additional condition, Additional specification and Particular specifications attached with the tender document.
 - III. CPWD Specifications 2009 Vol-I to II
 - IV. Decision of Principal Employer.
- 1.3 The work shall be executed and measured as per metric units given in the schedule of quantities, drawings etc. (F.P.S. units wherever indicated are for guidance only).
- 1.4 Contract Value may increase up to 10% of the awarded value and individual items may increase or up to 25% which shall be instructed by the University after submission of soft drawing by the tenderer.
- 1.5 Any items which is not included in SOQ & required for the completeness of work it may be executed prior approval to the Principal Employer.
- 1.6 Nothing extra shall be paid by the University beyond above variation.

SPECIAL CONDITIONS

1. The Agency shall have to engage manpower who has sufficient experience.
2. The work shall be executed strictly accordingly to instruction of the Principal Employer and conditions of the contract.
3. The contractor shall be responsible their good character; all damage done to the existing structure by the workers shall be made good by the contractor at his risk and cost. If the contractor fails to make good the damage then same shall be made good at risk and cost of the contractor by the Principal Employer.
4. All operations are be carried daily for the seven days of the week, if required. (normal duty will be all working days except Sundays and Holidays).
5. Normal working hours shall be as per Central University of South Bihar, Gaya (Minimum 8 hour excluding lunch time).
6. Under no conditions shall the contractor sublet or appoint any agency. If it found at any stage the contract shall be rescinded after giving a notice of 48 hours and the work for the remaining period shall be got executed from other agency at risk and cost of the contractor.



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7. The contractor if required shall be at his own cost take necessary insurance cover in respect of staff and other person to be in service to render to Central University of South Bihar, Gaya. He shall comply with all relevant labour laws as applicable to the existing or modified during the contract period. The staff employed will be on the contractor roll. Complete liabilities will be on part of the contractor for their discipline and normal activities.
8. Any hindrance caused to the above operations will be cleared by the contractor at his own cost.
9. All sort of sites, materials and personal insurance to be borne by the successful bidder.
10. Successful bidder should deploy at least one Principal Employer having sufficient experience/ knowledge for this work and following University Authority decision time to time.
11. Successful bidder shall obey all types of safety rules for his workers and other people.
12. Principal Employer if noticed any discrepancy in use of man material then successful bidder shall be liable for that.
13. Any damage done by the contractor to any existing work during the course of execution of the work tendered for shall be made good by him at his own cost.
14. The contractor shall maintain in good condition all works during the execution till completion of entire work allotted to him.
15. The contractor shall take all precautions to avoid all accidents by exhibiting necessary precaution banners day night.
16. The contractor shall clear the site thoroughly of rubbish scaffolding materials etc. before the completion of the work.
17. Tendered rates are inclusive of all taxes and levies payable under the respective statutes.
18. Rates quoted by the tenderer to be inclusive of the GST/Turnover tax as leviable by the State Governments on the transfer of property in goods involved in the execution of works contract and nothing extra will be payable on that account.
19. **Payment Terms:**
100% after successful supply, installation, testing and commissioning of the work.
20. **Guarantee:**
The rates quoted by tenderer shall be inclusive of **18 months Guarantee** and cover maintenance and replacement of all defective items and parts.
21. **Performance Bank Guarantee:**
10% of awarded value at the time of award of work in form of Demand Draft/Bank Guarantee/Fixed Deposit Receipt for 18 months plus 60 days from completion of work i.e. total **20 months**.
22. **Liquidity damage clause:** 1% of contract value per week for delayed work and maximum 10% beyond scheduled completion period of 90 days.



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ACCEPTABLE MAKES OF MATERIAL

Sl. No.	Items	Make
1.	RO System	Thermax / Kent / Ion-Exchange / Eco-Crystal / Aqua Fresh / Fibrotech / Emperia
2.	Chiller	Voltas / Daikin / Blue Star
3.	Pump Motor	CRI / CGL / Kirlosker
4.	Any Other Material	With prior approval of Engineer-in-Charge



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Bill of Quantities

for

“Supply and Installation of 1000 LPH capacity RO Water Purifier-cum-Chiller Plant” at Boy’s Hostel, Central University of South Bihar, Gaya.

Note: This is to be kept in **Envelope ‘C’** sealed and it should be written on envelop that **“Supply and Installation of 1000 LPH capacity RO Water Purifier-cum-Chiller Plant” at Boy’s Hostel, Central University of South Bihar, Gaya.**



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Proforma - A

(Price Bid)

(It should be kept in separate sealed Envelope-C super scribed Price BID)

Bill of Quantity

Name of the Work: Supply & Installation of 1000 LPH capacity RO water Purifier cum Chiller Plant at Boy's Hostel, CUSB, Gaya.

NIT No.: CUSB/PSD/B.H./T/02/2024-25

Dated: 30/05/2024

Sl.No.	Description of item	Unit	Qty	Rate	Total Amount (without GST)
	Sub Head-RO plant				
1	Supplying, assembly, erection, testing and commissioning of Reverse Osmosis (RO) Water treatment system (Complete system to be compact type, skid-mounted / cabinet enclosed, as per detailed shop drawings to be approved by engineer incharge) and all its components of required size and as per water test analysis to make the water suitable for drinking, complete including the following as mentioned below. The cost will include testing of permeate water sample from an approved test laboratory, generating and providing membrane analysis data from the licensed manufacturer's software etc. (Capacity-1000 LPH)	Set	1		
2	Supplying and fixing 32 A, 240 V, DP Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 32 A "C" curve, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required	Each	2		
3	Supply and laying of size 3.5 Core X 16 sq mm aluminium armoured XLPE power cable of 1.1KV grade confirming to IS 7098 (Part I) & (Part II) with up to date amendment duly ISI marked complete as required (clamped with 1mm thick saddle)	Meter	100		
4	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. 3½ X 25 sq. mm	Each	4		



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5	Chiller with Tank Supply and installation of chiller of Capacity 2 Ton including compressor having Gas capacity of 3 Kg, including copper pipe of size 3/8= 100 feet (Approx.), copper pipe 1/4 20 feet(approx.). The scope also covers 1000 ltr capacity tank of SS-304 grade in which chiller system is to be installed. For cold water supply including all CPVC plain & brass threaded fittings/Gate Valve .This includes jointing of pipes & fittings with one step CPVC solvent cement & testing of joints complete as per direction of Engineer in Charge. Jacketing and wrapping of Tank system to be maintain the temperature. The job also covers MS stand for the tank system including civil foundation on the terrace.	Each	1		
6	Supply, fabrication and construction of M S Structured CGI sheet (Thickness 0.6 mm) covered shed / room of size (12 ft x 10 ft x 8ft) on the roof for complete RO Plant with gate and locking arrangement complete in all respect as per directive.	LS	1		
Sub Total					
Add GST @					
Grand Total Including GST					

Total Amount (In words)

Total Amount (In Figures)

NOTE: - Quoted amount shall include all taxes and all other costs etc. complete.

SIGNATURE WITH SEAL

Name _____

Designation _____

Mobile No. _____



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Proforma – B

(Price Bid)

(To be kept in envelope – “C”)

Tender No.....

Name of the Work.....

Name of the Bidder.....

A	Total Amount with GST/Taxes for “Supply and Installation of 1000 LPH capacity RO Water Purifier-cum-Chiller Plant” at Boy’s Hostel, Central University of South Bihar, Gaya	(in Indian Rupees)
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Rupees in words:-

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Terms & Condition

Single Lowest Bidder shall be decided on the basis of total value of Supply & Installation of 1000 LPH capacity RO water Purifier cum Chiller Plant at Boy’s Hostel, Central University of South Bihar, Gaya as per above table in Column-A.

In case L-1 is same, order shall be awarded to having highest average Turn-Over Criteria

No over-writing or white-fluid is permitted. Failing of which, tender shall not be considered.

Tenderers seal with signature

Date:

Place: