



## Department of Life science and Bioinformatics

### ASSAM UNIVERSITY, SILCHAR

(A Central University constituted under the Act of Parliament of India in 1994)

Tel: +91-3842-270260, Fax: +91-3842-270802

Website: www.aus.ac.in

## NOTICE INVITING TENDER

**NIT No. LS/AUS/2018/1 Date 01 /02/2018**

Assam University, Silchar, a central university invites sealed tender from reputed manufacturers/ authorized distributors/authorized firms with sound technical capabilities for supply, installation and commissioning of the following item to be procured in the Department of Life science and Bioinformatics, Assam University, Silchar. Tenders should be submitted in two bid system *i.e.*, technical and financial. The tenders will be opened at the Department of Life Science and Bioinformatics. Detailed technical specifications including make/model/accessories and price including taxes should be quoted against each item separately. All terms and conditions will be as per Assam University, Silchar, rules and regulations.

### **Complete Lab Ultra Pure Water Purification System directly from tap**

#### Specifications

- Prefilter: Suitable prefilter must be quoted.
- The Complete Ultrapure Water system must produce ASTM Type I ultrapure water from a single system.
- Water purification methods: Adsorption by means of spherical activated carbon, catalyst, reverse osmosis, ion exchange, optional UV irradiation, and end-position particle | sterile filtration.
- The system should handle Conductivity < 1500  $\mu$ S/cm, TOC < 2000 ppb, Free chlorine < 4 ppm, Fouling Index (SDI) < 10.
- The unit should be ideal for a daily consumption of up to 10 liters of ultrapure water with 8 Lt/hr pure water production rate.
- Pretreatment Cartridge should be a combination of spherical, catalytic-effective, activated carbon, a catalyst and a downstream reverse osmosis membrane.
- The system should come with closed bag system (replaceable) of 5 liter inbuilt to store consistently high quality pure water for prolonged period and prevent Contamination by ambient air. Should have technology to avoid time consuming cleaning process as well as use of chemicals.
- System should have a horizontally mounted integrated UV lamp with dual wavelength 185 and 254nm for optimized temperature gradient and reliable results.
- Deionization cartridge should consist of spherical, catalytic activated carbon with ultrapure mixed bed ion exchange resin in semiconductor quality to deliver long lasting

performance and low-maintenance operation. The flow inside the cartridge should be top-down to produce ideal purification kinetics and prevents any mixing of cleaning media.

- Final Filter should be 0.45+ 0.2µm pleated double layered sterile grade PESU membrane and should be validated according to HIMA & ASTM F-838-83 guidelines.
- System should have touch screen display with intuitive menu navigation facility for easy operation. It should have demo mode which is essential for easy operation.
- Re-circulation feature in standby mode to maintain the purity of the water.
- The system should have the volume-controlled dispensing function from 50 ml to 5 l (in 50-ml-increments) to obtain accurate results.
- System should be Designed, Developed and Produced under DIN/ISO 9001 certificate Quality Management system. Also ISO-9001 Company.
- **Product Water Quality-Type-III** Production output: Up to 8 l/h, Typical Conductivity: < 20 µS/cm, Typical ion retention: Up to 98%, Retention of dissolved organic substances: > 99 %, (MW > 300 Dalton), Particle and microorganism retention: > 99 %
- **Product Water Quality-Type-I** Water dispensing flow rate: Up to 1.0 l/min, Conductivity: 0.055 µS/cm compensated to 25°C, Resistivity: 18.2 MΩxcm compensated to 25°C, TOC content (system with UV lamp) < 5 ppb, Microorganism content < 1 CFU/1,000 ml, Particle content (> 0.2 µm) < 1/ml, DNase/RNase free.
- **WARRANTY : 2 years from the date of installation**

### **TERMS & CONDITIONS:**

1. The tenders complete in all respects should be addressed to The Head, Department of Life science and Bioinformatics, Assam University, Silchar-788011, India.
2. The tenders for equipments must be submitted in two-bid system (Technical and Financial).
3. The tenders shall be submitted item-wise in two separate sealed covers clearly mentioning on the envelope the details of items for which bid is submitted. The format for the same is enclosed in the Annexure. ONLY TECHNICALLY accepted competitive bids will be considered for placing Purchase Order. Last date of receipt of Tenders: within 21 days from the date of publication.
4. Earnest Money Deposit (EMD) amount of Rs. 10,000.00 (Rupees Ten Thousand only) in the form of fixed deposit/Demand Draft (DD)/Term deposit in favor of FINANCE OFFICER, ASSAM UNIVERSITY, SILCHAR have to be submitted along with the Technical Bid.
5. The technical bids should include all the specification for each part complete with part numbers of main equipments and accessories. The technical details should be supported by original brochure/documents for each component.
6. Tenders by e-mail, Fax, Telex, Telegram will not be accepted. Tenders must be submitted in sealed envelope only clearly indicating “**TENDER FOR ULTRA PURE WATER PURIFICATION SYSTEM**” addressed to undersigned. The university shall not be responsible for any delay in receiving tenders.
7. In case of any modification in specifications / terms and conditions / any clarification to the bid document, it will be hosted in the university website only and the bidders are requested to log to our website from time to time and no separate corrigendum will be issued in this regard.

8. The rate should be exclusive of taxes and applicable tax should be clearly indicated. The rates should be quoted along with supporting documents of specifications, technical features, list of users and authorized dealership documents (if applicable).
9. A certificate from vendors mentioning the place of manufacturing of the all the components of the equipment along with a certificate that the equipment supplied is new without any defect must be supplied to qualify for Technical bid.
10. AFTER SALES SERVICE: Details of availability of after sales support will have to be furnished. The offer shall clearly state full details of the service after sales facility available for the equipment. The details shall include & qualification of service personal stationed at the service centre, response time in case emergency, availability of spares, etc. The offer shall also give the amount and other terms & conditions for annual service contract of the equipments after the expiry of the guarantee/warranty period.
11. The university is exempted from paying Customs and Excise duty.
12. Proprietary items should be quoted with sole Manufacturer/Dealership certificate. Without dealership or manufacturer's certificate no bids will be accepted.
13. No advance payment will be made. However, if items are of foreign origin, advance payment can only be made in the form of vide LOC/FDD/Wire Transfer.
14. Performance warranty certificate is mandatory for vendors selected for supply and installation before accepting supply order.
15. If any item/equipment delivered in damaged condition, the equipment should be replaced with new one immediately.
16. Items of foreign origin should have insurance up to installation site. In case of equipment of foreign origin, the Indian dealer/agent should submit one undertaking on non-judicial stamp paper, stating that if any equipment delivered in damaged condition they will be liable to replace the same with a new one (applicable only when order is placed).
17. The invitation for bid is open to all OEM (original equipment manufacturer) or their authorized dealers. The principal company may authorize their dealer to participate in the quotation and authorization letter must be attached with the quotation document.
18. Copies of valid Central/State sales tax registration certificate, Income tax clearance certificate, proof of manufacturing unit/dealership and general order suppliers and copies of two major supply orders executed during the preceding two years for Govt. depts. /PSUs and Central Autonomous bodies have to be submitted.
19. The equipment will have to be installed by the supplier /Agent in the Department of Life Science & Bioinformatics within 4 weeks, from the receipt of equipment, free of charges.
20. Price quoted for the material/equipment shall be firm and valid for 60 days from the date of opening.

21. Tenders not conforming to the terms and conditions and procedure so outlined or Tender incomplete in any respect are liable to be summarily rejected. The university reserves the right to accept or reject any or all the bids without assigning any reason whatsoever.
22. Special discount/rebate: Special discount/rebate admissible to Educational Institution/Central University may be specifically indicated in the quotation.
23. If there be any dispute, it will be referred to an arbitrator to be appointed by the University for his decision and award. The award or decision of the arbitrator shall be final and binding on both parties.

**Those bidders, who accept the above terms and conditions, may submit their tenders in the prescribed format along with all relevant documents/brochures to the undersigned. The bidder must also submit a certificate in their official letter head duly signed and sealed starting that all above terms and conditions are acceptable to them.**

Sd/-

Head

Department of Life science and Bioinformatics  
Assam University, Silchar-788011, India

**Copy to:**

1. Copy to Secretary to VC, AUS for VC's kind information
2. The Registrar, AUS
3. The Finance Officer, AUS
4. Internal Audit Officer, AUS
5. Director, Computer Centre, AUS for uploading in the university website (www.aus.ac.in)
6. File for record

**PROFORMA FOR SUBMISSION OF TECHNICAL BID (TB)**

From

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To,

The Head

Department of Life science and Bioinformatics

Assam University, Silchar-788011, India

With reference to your advertisement dated \_\_\_\_\_ published in the Newspapers and posted at Assam University Website, I / We hereby submit the Technical bid for the \_\_\_\_\_ required by you. I / We confirm that I / We are the owners /authorized person to offer you the item as per the desired specifications.

Fill the appropriate table as applicable.

<b>TECHNICAL SPECIFICATION</b>	<b>DETAILS TO BE FILLED BY BIDDER</b>
Prefilter: Suitable prefilter must be quoted.	
The Complete Ultrapure Water system must produce ASTM Type I ultrapure water from a single system.	
Water purification methods: Adsorption by means of spherical activated carbon, catalyst, reverse osmosis, ion exchange, optional UV irradiation, and end-position particle   sterile filtration	
The system should handle Conductivity < 1500 $\mu$ S/cm, TOC < 2000 ppb, Free chlorine < 4 ppm, Fouling Index (SDI) < 10.	
The unit should be ideal for a daily consumption of up to 10 liters of ultrapure water with 8l/hr. pure water production rate.	
Pretreatment Cartridge should be a combination of spherical, catalytic-effective, activated carbon, a catalyst and a downstream reverse osmosis membrane.	
The system should come with closed bag system (replaceable) of 5 liter inbuilt to store consistently high quality pure water for prolonged period and prevent Contamination by ambient air. Should have technology to avoid time consuming cleaning process as well as use of chemicals.	
System should have a horizontally mounted	

integrated UV lamp with dual wavelength 185 and 254nm for optimized temperature gradient and reliable results.	
Deionization cartridge should consist of spherical, catalytic activated carbon with ultrapure mixed bed ion exchange resin in semiconductor quality to deliver long lasting performance and low-maintenance operation. The flow inside the cartridge should be top-down to produces ideal purification kinetics and prevents any mixing of cleaning media.	
Final Filter should be 0.45+ 0.2µm pleated double layered sterile grade PESU membrane and should be validated according to HIMA & ASTM F-838-83 guidelines.	
System should have touch screen display with intuitive menu navigation facility for easy operation. It should have demo mode which is essential for easy operation.	
Re-circulation feature in standby mode to maintain the purity of the water.	
The system should have the volume-controlled dispensing function from 50 ml to 5 l (in 50-ml-increments) to obtain accurate results.	
System should be Designed, Developed and Produced under DIN/ISO 9001 certificate Quality Management system. Also ISO-9001 company.	
<b>Product Water Quality-Type-III</b> Production output: Up to 8 l/h, Typical Conductivity: < 20 µS/cm, Typical ion retention: Up to 98%, Retention of dissolved organic substances: > 99 %, (MW > 300 Dalton), Particle and microorganism retention: > 99 %	
<b>Product Water Quality-Type-I</b> Water dispensing flow rate: Up to 1.0 l/min, Conductivity: 0.055 µS/cm compensated to 25°C, Resistivity: 18.2 MΩxcm compensated to 25°C, TOC content (system with UV lamp) < 5 ppb, Microorganism content5 < 1 CFU/1,000 ml, Particle content (> 0.2 µm) < 1/ml, DNase/RNase free.	

Date:

(Signature of the Offerer)

OFFICE SEAL

(This format shall be sent in a separate sealed cover super scribing - "TECHNICAL BID FOR EQUIPMENT \_\_\_\_\_ for ref No .....

**PROFORMA FOR SUBMISSION OF FINANCIAL BID (FB)**

From

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To,

The Head

Department of Life science and Bioinformatics,  
Assam University, Silchar-788011, India.

Having read and understood the Technical bid, I am / We are furnishing the desired information and submitting our Technical Bid duly signed by our Authorized person. Now we hereby submit (in separate sealed cover) our Financial Bid for the purchase of equipments.

**Please fill up for the items mentioned separately, whichever is applicable:**

<b>S.NO</b>	<b>SPECIFICATION ITEMS</b>	<b>DETAILS TO BE FILLED BY BIDDER</b>
1	Name of the equipment with model no. etc	Price in /\$/Other currency whichever is applicable (Please mention separately the price of the items, accessories, insurance, etc. under separate heads)
2	Applicable taxes	To be included
3	CIF of FOR Silchar	To be included
4	Special Offer/ Discount	To be included
5	Grand Total	Price in INR/\$/Other currency whichever is applicable
6	Terms and condition	As applicable
7	Warranty and after sales service	As applicable
8	Banking Details (For foreign items)	To be included

Date:

(Signature of the Offerer)

OFFICE SEAL

(This format shall be sent in a separate sealed cover super scribing - "**FINANCIAL BID FOR EQUIPMENTS \_\_\_\_\_ for ref No .....**")