



Tel : 91-22-2623 2192
91-22-2628 9777
Fax : 91-22-2623 7819

अमृतं तु विद्या
Bharatiya Vidya Bhavan's
Sardar Patel College of Engineering

(Government-Aided Autonomous Institute)

MUNSHI NAGAR, ANDHERI (WEST), MUMBAI - 400 058.



E-mail : principal@spce.ac.in
Web : www.spce.ac.in

INVITATION LETTER

Package Code: TEQIP-III/MH/bnpc/27
Package Name: Ultrapure water assembly

Current Date: 08-May-2019
Method: Shopping Goods

Sub: INVITATION LETTER FOR Ultrapure water assembly

Dear Sir,

1. You are invited to submit your most competitive quotation for the following goods with item wise detailed specifications given at Annexure I,

Sr. No	Item Name	Quantity	Place of Delivery	Installation Requirement (if any)
1	Ultrapure water assembly	1	Spce mumbai	yes

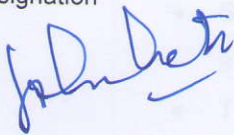
2. Government of India has received a credit from the International Development Association (IDA) towards the cost of the **Technical Education Quality Improvement Programme [TEQIP]-Phase III** Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.
3. **Quotation**
 - 3.1 The contract shall be for the full quantity as described above.
 - 3.2 Corrections, if any, shall be made by crossing out, initialling, dating and re writing.
 - 3.3 All duties and other levies payable by the supplier under the contract shall be included in the unit Price.
 - 3.4 Applicable taxes shall be quoted separately for all items.
 - 3.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.

- 3.6 The Prices should be quoted in Indian Rupees only.
4. Each bidder shall submit only one quotation.
 5. Quotation shall remain valid for a period not less than 30 days after the last date of quotation submission.
 6. Evaluation of Quotations: The Purchaser will evaluate and compare the quotations determined to be Substantially responsive i.e. which
 - 6.1 are properly signed; and
 - 6.2 Confirm to the terms and conditions, and specifications.
 7. The Quotations would be evaluated for all items together.
 8. Award of contract The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.
 - 8.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of Contract.
 - 8.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.
 9. Payment shall be made in Indian Rupees as follows:
 - Satisfactory Delivery & Installation - 10% of total cost**
 - Satisfactory Acceptance - 90% of total cost**
 10. Liquidated Damages will be applied as per the below:
 - Liquidated Damages Per Day Min % : 0
 - Liquidated Damages Max % : 10
 11. All supplied items are under warranty of 24 months from the date of successful acceptance of items and AMC/Others is 1.0 Year.
 12. You are requested to provide your offer latest by 05:30 hours on 15-May-2019.
 13. Detailed specifications of the items are at Annexure I.
 14. Training Clause (if any) **yes**
 15. Testing/Installation Clause (if any) **installation done by free of cost**
 16. Performance Security shall be applicable: **0%**

17. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
18. Sealed quotation to be submitted/ delivered at the address mentioned below, **BVB Sardar Patel College of Engineering J P Nagar, Munshi Nagar Andheri (West) MUMBAI, Bhavan's Campus, Munshi Nagar, Andheri (W), Mumbai 400058**
19. We look forward to receiving your quotation and thank you for your interest in this project.

(Authorized Signatory)

Name & Designation



TEQIP III Co-ordinator
BVB'S Sardar Patel College of Engineering
Mumbai - 400 058.



Procurement Coordinator TEQIP III
Sardar Patel College of Engineering
Munshi Nagar, Versova Road,
Andheri (West), Mumbai - 400 058.

Annexure I

Sr. No	Item Name	Specifications
1	Ultrapure water assembly	<p>Technical Specification:</p> <ul style="list-style-type: none">• System to generate pure (Type II) and Ultrapure (Type I) H₂O from a single system.• Should accept potable tap water as feed.• System should have multifunction display to display H₂O quality, colourful display. Display should change colour to red from green in case of error in the system.• Setpoints should be provided to Final quality and audio alarm in case water is of less quality than set point.• Type II generation rate should be minimum 6 ltr/hr. Fully upgradeable to higher flows upto 20 ltr/hr in future with same housing of the system.• System should have built in 10ltr tank store Type II H₂O. In future if required, system should accommodate a bigger tank upto 100 ltr.• Dispensing rate of Type I H₂O should be 2ltr/minute.• System should have reverse osmosis, Ultrapure Cartridge and final 0.2micron filter. The entire system should be disinfected periodically to prevent any biological growth and contamination of water.• The prefilters should consist of a pump to deliver feedwater with pressure to the system. Activated Carbon filter, special cartridge to treat hardness and 0.5micron pleated filter should be provided. The prefilter system should be auto cut off when water system does not need water. The Prefiltration and main system should be manufactured by same manufacturer.• Type I dispenser should enable one-handed use of it for both system operation and the monitoring of all quality parameters.• The flexible dispensing and monitoring unit serves for convenient and precise filling of laboratory vessels.

- The system should incorporate inbuilt leak detector and should stop the instrument if leakage is found.
- Recirculation module for complete tank recirculation as protection against bacterial growth during downtimes that guarantees no loss of quality of the purified water
- Intermediate rinsing of RO cartridge and UF should be provided during system idle times to prevent any biofilm formation in the membranes due to stagnancy of water.
- Multi-lingual microprocessor control with graphics display and colour change from green to red when a fault message is given
- GLP conform data acquisition via an RS-232 interface with adjustable sending interval, date, real time clock and serial number
- System should have a unique external tank level control. Tank level control should be outside the tank. This helps in preventing bacterial film formation at corners inside the tank.
- System should run on a separate low voltage power adapter which prevents 230V inside the system and makes it a safer unit in case there is a water leakage.
- Separate conductivity monitor with Pt 1000 temperature sensor should be provided for monitoring conductivity after RO and final stage conductivity.
- Conductivity cell monitoring Type I water should be coaxial with cell constant 0.01.
- Offered system should be CE certified and manufactured in ISO 9001:2015 environment.
- Vendor should provide at least 2 user certificates of user of the offered model.
- 2 years prefilters to be offered with system.

Feedwater requirements

Feedwater conductivity	Upto 2500 μ S/cm
Feedwater TOC	upto 2000ppb
Feedwater temperature	+2°C to 35°
Feedwater pressure	1 to 6 bar

	Manganese and iron content	< 0.05 mg/l
	Free chlorine content	< 5 mg/l
	Silt density index (SDI)	max. 12
	<u>Type 1 ultrapure water</u>	(Hand dispensing)
	Ultrapure water conductivity	18.2 MΩ x cm or 0.055 μS/cm. Unit should be user settable.
	Dispensing performance	up to 2 l/min.
	TOC value	5 - 10 ppb
	Bacteria	< 0.01 CFU/ml
	Particles 0.2μm	No particles
	Typical applications	General Lab, HPLC, use.
	<u>Type II pure water</u>	(Generated in Tank)
	Pure water conductivity	15-10 MΩ x cm or 0.067-0.1 μS/cm
	Pure water generation at 15°C	6l/h upgradeable upto 20 ltr/hr
	Typical applications and media samples	Make up water for buffers Rinsing of laboratory glass Preparation of reagents and Feed water for autoclaves

FORMA FOR QUOTATION SUBMISSION
(to be filled in by supplier with seal)

Date: _____
To: _____

Sl. No.	Description of goods (with full Specifications)	Qty	Unit	Quoted Unit Price (including Ex-factory price, packing, freight, insurance, transportation, fuel, bank, other incidental charges)	Total Cost

We agree to supply the above goods in accordance with the terms and conditions mentioned in the above quotation. We warrant that the normal commercial warranty/guarantee of the goods and services as mentioned in this quotation. We hereby certify that we have taken steps to ensure that we are a genuine and established business.

Signature of Supplier: _____
Name: _____
Address: _____
Contact No: _____

FORMAT FOR QUOTATION SUBMISSION
(In letterhead of the supplier with seal)

Date: _____
To: _____

Sl. No.	Description of goods \ (with full Specifications)	Qty.	Unit	Quoted Unit rate in Rs. (Including Ex-Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (A)	Sales tax and other taxes payable	
						In %	In figures (B)
Total Cost							

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. _____ (Amount in figures) (Rupees _____ amount in words) within the period specified in the Invitation for Quotations.
We confirm that the normal commercial warranty/ guarantee of _____ months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.
We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Gross Total Cost (A+B): Rs. _____

Signature of Supplier
Name: _____
Address: _____
Contact No. _____

