

Dated : 28-01-2020

Project Reference: - Short Rate Enquiry No. **5/SRE/WPS/Biophy/18-19**

Subject:- Short Rate Enquiry for purchasing **Upgradation of water purification system**

Dear M/s

A short rate enquiry is hereby floated/invited for purchasing **Upgradation of water purification system** required by Department of Biophysics

Technical Specification for **Upgradation of water purification system**
Date/Time of Closure **14.02.2020 3.00pm**

Specifications for the Upgradation of water purification system

1. Single table top Water Purification System should be capable to produce Ultrapure Type III water and Type I water with the help of Prefiltration, RO, UV Oxidization Chamber, Polishing module and final filter charged 0.2um.
2. System should also have minimum 30 liter of PE tank for storage of Type III water.
Ultra Pure Water Specifications
3. The Flow rate, conductivity, Resistivity of the machine should be at least 1.5 litres/min, 0.055 $\mu\text{s/cm}$ and 18.2 $\text{M}\Omega\text{-cm}$ respectively.
4. The TOC should be between 1-5 ppb and Bacteria, Endotoxins and Particles value should not exceed $< 0.1 \text{ cfu/ml}$, $< 0.001 \text{ EU/ml}$, $> 0.2 \mu\text{m} : < 1 \text{ per ml}$
5. The machine should be able to dispense DNase and RNase free water with strictly $< 10 \text{ pg/ml}$ and $< 1 \text{ pg/ml}$ respectively
System should also have the following Features
6. The system should have the capability to produce Type III water at 10 liter/hr or more.
7. The PE storage tank of at least 30 Liter capacity should be provided.
8. The system should be able to take municipality water as feed-water upto 2000 uS/cm
9. The system should have UV oxidization chamber: UV Light Energy at 185 nm and the 254 nm wavelengths.
10. System should exceed all reagent water quality standards including ASTM Type 1, CLSI and ISO 3696 for Type I Water
11. Conductivity/Resistivity monitoring of the ultrapure water should be available.
12. System should have built-in automatic self cleaning mechanism to extend the life of cartridge.
13. System should have automatic flushing and recirculation in standby mode.
14. The user should be able to collect Ultrapure water from the dispenser.
15. 0.2 μm charged filter at Point of use should be provided.
16. The system should be supplied with prefilter with 10 μm , activated carbon, 5 μm cartridges as well as RO membranes with Flow rate of 20 liter/hr.
17. Two tanks should be supplied; one for water storage from prefilter and another for storage of type III water from the system.
18. A separate RO system should be provided with a pressure storage tank which will act as feed water to the main system.
19. An extra Deionisation membrane and a pre-treatment cartridge should be provided with the system. RO membrane should have the replacement warranty of minimum 3 years.
20. The system should confirm to the standard of USFDA and listed with underwriter's laboratories as well as European CE and ISO 9001 certification. Documentary evidence should be attached with the technical bid.
21. System should include comprehensive 3 year warranty.

Terms & Conditions

1. The quotations should be addressed to Professor & Head, Department of Biophysics, AIIMS, Ansari Nagar, New Delhi – 110029 and sent by post/courier by **14th February, 2020 upto 3.00pm**. Quotations should be sealed in an envelope and the reference no and item must clearly be written on top of the envelop. (i.e. quotation for the Upgradation of water purification system).
2. The firm must be registered and having TIN NO./Registration No. (Please mentioned TIN/registration NO. on the bid) or else the quotation will be treated as cancelled.
3. Quotation should only be submitted by authorized dealers/distributors. Authorization certificate must be included with the submission of Quotation. Failure of submission of authorization certificate will render the firm ineligible. Hence the quote of such firm will not be considered.
4. Vendors should provide the product certification by one of this agency: CE/IVD certified or European Union EMC & Safety Compliance Declaration or FCC - North American EMI Verification or UL - North American Product Safety Certification or Demko or VDE - European Union Product Safety Certification.
4. The make and model of the article offered should invariably be quoted. Quotation should be typed/ written in ink overwriting or erased entries should not be there in the quotation. **The rates should be valid for at least three months.**
5. Vat /Sale tax or any other kind of (tax(s) must be mentioned separately. In case no sales tax in chargeable prices must be quoted as net price.
6. **Warranty /Guarantee:** - 3 year comprehensive warranty on site .
7. **Demonstrations:** - If it is required to demonstrate the quoted Model, the firm should get ready for demonstrations the product within one week. There will be and no request entertained for extending time for demonstrations. Failure to demonstrate their offer if requested, will be summarily rejected.
8. **Payment** will be made as per institute rules through electronically viz RTGS/NEFT after delivery, satisfactory installation of the item. The following information should be also mentioned in the invoice:
 1. Name of the beneficiary:
 2. Account No. the beneficiary:
 3. IFCS code of the bank/branch:
9. The Professor & Head of the Department reserves the right to cancel/reject full or any part of the rate enquiry which generally do not fulfill the conditions stipulated in the rate enquiry.

Dr. Punit Kaur