



# DEPARTMENT OF BIOCHEMISTRY

(DST-FIST Sponsored Department)

## UNIVERSITY OF KERALA



*Established as University of Travancore by the Travancore University act in 1937 and reconstituted as University of Kerala by the Kerala University act of 1957 and presently governed by the Kerala University act of 1974 passed by the Kerala state Legislative Assembly)*

**(Re – accredited by NAAC with ‘A’ Grade)**

KARIAVATTOM

THIRUVANANTHAPURAM – 695581

PHONE: 0471 2308078

Email: [biochemistry@keralauniversity.ac.in](mailto:biochemistry@keralauniversity.ac.in)

18.05.2022

### QUOTATION NOTICE

**(BCH/State Plan-02/2022-23)**

Sealed two bid quotations are invited for the supply of **Ultra Pure Water Purification System** with relevant specifications with on or before **18/06/2022** at **4.00pm**. Sealed quotations should be addressed to Professor & Head, Department of Biochemistry, University of Kerala, Thiruvananthapuram-695581 with superscription “Quotation for the supply of **Ultra Pure Water Purification System** The quotation will be opened on **20/06/2022** at **2pm** in the presence of such tenderers or their authorized representatives who may be present at that time. The rate quoted shall be valid for a period of one year. Quotations should also include all the supportive work for installation, loading and unloading of the equipment. Bidders have to note Appendix I - Technical Specifications and Appendix II- Terms and Conditions and should attach the relevant documents along with the quotation.

**Name of the Equipment: Ultra Pure Water Purification System**

#### **Appendix I- Technical Specifications.**

- Water purification System should be capable of producing 18.2 Megaohm resistivity with pretreatment cartridge, Reverse Osmosis and mixed bed ion exchange resins and activated carbon in a single pack, with feed water acceptance of upto 2000micro Siemens conductivity, Fouling Index (SDI) < 12, Total Chlorine < 1 ppm.
- All in one pack which contains a combination of technologies to produce ultrapure water from Tap water directly.
- The 1st stage of the RO DI cartridge contains pretreatment for reverseosmosis followed by RO membrane.
- The 2nd stage contains mixed bed ion exchange resin and organex for removal of organic contaminants.

- It should have only one cartridge in the system. If the system comes with more than one cartridge then that cartridge should quote mandatorily 15 numbers ( including RO) along the main quote .
- Product flowchart should mentioned in the Brochure.
- Type 3 water flow rate should be 5 Litre/Hour
- 50 Litre PE tank should quote.

### ***Product Water Specifications***

- Resistivity : 18.2 Meg Ohm.cm (@ 25 degree C )
- Conductivity : < 0.055uS/cm
- TOC : <5 ppb
- Bacteria : < 0.1 cfu/mL
- Pyrogen : <0.001Eu/mL
- RNase : <0.01 ng /mL
- Flow Rate : 0.5 L /min
- Particulates > 0.22u : <1 P/mL
- Ionic rejection : 96%
- Organic Rejection for MW >200 : >99%
- Bacteria and Particulates : >99%

### **Appendix II- Terms and Conditions**

- Delivery within 4-6 weeks from the date of receipt of our order.
- 2-3 years Warranty