

**Invitation for Bids for Supply of Ultra Pure Water (Molecular Biology Grade)
Purification System**

CPP Portal Tender ID: 2021_APEDA_626666_1

Firm offers are invited in sealed cover for supply and installation of Ultra Pure Water (Molecular Biology Grade) Purification System at Basmati Export Development Foundation (BEDF) Laboratory at the premises of Sardar Vallabh Bhai Patel University of Agriculture and Technology, Modipuram-250110, Meerut, U.P.

The offers with complete technical and financial details (in separate envelopes) may be submitted on or before October 21, 2021 (5.00 pm) to Director (BEDF), Basmati Export Development Foundation, APEDA, Ministry of Commerce, Govt. of India, 4th Floor, NCUI Auditorium Building, 3 Siri Institutional Area, August Kranti Marg, Hauz khas, New Delhi-110016

Technical specifications and other details can be downloaded from APEDA website: www.apeda.gov.in

Technical Specifications for Ultrapure Water Purification System (Molecular Biology Grade)

| Specifications |
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| The system should have two separates constitute of water purification to produce Type II and Type I water from available tap Water. |
| Single compact Prefiltration system with 1- & 5-micron depth filter and pump |
| Main Water Purification System should be able to take care of conductivity < 2000 μ S/cm, TOC < 2000 ppb, SDI as 12, Chlorine < 3 ppm |
| System should have a single pre-treatment pack which includes Anti Scaling Compounds, Activated Carbon filter and 0.5 μ m filter to remove respectively chlorine, hardness and particles of a feed water. |
| System has conductivity cell before and after RO membrane to understand feed water conductivity for better monitoring. |
| RO should have a RO reject recirculation loop for reducing water wastage, and flushing and rinsing facility to enhance life of RO. |
| System Should have Electro-Deionization (EDI) module to give consistent type II quality water |
| System should have 50 Ltr. PE Reservoir with a sensor rod level sensor with float switch. Should have provision for complete Sanitization and vent filter made of soda lime to filter air. |
| Type I system gives assurance of water quality with precise in-line resistivity cell, with a 0.01 cm-1 low cell constant and a 0.1° C sensitive thermistor. |
| System should have small footprint and flexible installation option like under the bench, on the wall, on bench. |
| System should have informative display which has Display, Water quality parameters like Resistivity, Temperature, Alerts and Alarms, etc. |
| System should be CE, UL, ISO, IEC certified |
| Type II Water Specifications |
| Resistivity: > 5 M Ω .cm @ 25 degree C |
| TOC: 30 ppb |
| Production Rate: minimum 3 ltr./hr. |
| Type I Water Specifications |
| Resistivity: 18.2 M Ω .cm @ 25 degree C |
| Conductivity: 0.054 μ S/cm @ 25 degree C |
| TOC: < 5 ppb |
| Bacteria: < 0.1 cfu/ml |
| Flow Rate: 0.5 to 2 Ltr./min |
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Note: Please send Technical & Financial documents in separate sealed envelopes with Company name, address, email & phone numbers to the following address:

**Director
Basmati Export Development Foundation
APEDA, Ministry of Commerce, Govt. of India
4th Floor, NCUI Building
3, Siri Institutional Area
August Kranti Marg
New Delhi-110016**