

## अल्ट्रा शुद्ध जल की खरीद (आणविक जीवविज्ञान ग्रेड) प्युरीफिकेशन प्रणाली

सीपीपी पोर्टल टेंडर आईडी: 2021\_APEDA\_626666\_1

सरदार वल्लभ भाई पटेल कृषि और प्रौद्योगिकी विश्वविद्यालय, मोदीपुरम-250110, मेरठ, उ.प्र. के परिसर में स्थित बासमती निर्यात विकास संगठन (बीईडीएफ) प्रयोगशाला में अल्ट्रा शुद्ध जल (आणविक जीवविज्ञान ग्रेड) प्युरीफिकेशन प्रणाली की आपूर्ति और स्थापना के लिए सीलबंद लिफाफे में फर्म प्रस्ताव आमंत्रित किए जा रहे हैं।

पूर्ण तकनीकी और वित्तीय विवरण (पृथक लिफाफों में) के साथ प्रस्तावों को 21 अक्टूबर, 2021 (शाम 5.00 बजे) या उससे पहले निदेशक (बीईडीएफ), बासमती निर्यात विकास संगठन, एपीडा, वाणिज्य मंत्रालय, भारत सरकार, चौथी मंजिल, एनसीयूआई ऑडिटोरियम बिल्डिंग, 3 सिरी सांस्थानिक क्षेत्र, अगस्त क्रांति मार्ग, हौजखास, नई दिल्ली-110016 को प्रस्तुत किया जा सकता है।

तकनीकी विनिर्देश और अन्य विवरण एपीडा की वेबसाइट [www.apeda.gov.in](http://www.apeda.gov.in) से डाउनलोड किए जा सकते हैं।

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

<b>Specifications</b>
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 $\mu$ 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 0.5um 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
<b>Type II Water Specifications</b>
Resistivity: > 5 M $\Omega$ .cm @ 25 degree C
TOC: 30 ppb
Production Rate: minimum 3 ltr./hr.
<b>Type I Water Specifications</b>
Resistivity: 18.2 M $\Omega$ .cm @ 25 degree C
Conductivity: 0.054 $\mu$ S/cm @ 25 degree C
TOC: < 5 ppb
Bacteria: < 0.1 cfu/ml
Flow Rate: 0.5 to 2 Ltr./min

**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<sup>4<sup>th</sup></sup> Floor, NCUI  
Building**

**3, Siri Institutional Area  
August Kranti Marg  
New Delhi-110016**