



Notice Inviting e-Tender

West Bengal Medical Services Corporation Limited
Swasthya Sathi
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Procurement, supply and installation of Hi Tech Analytical Instruments for State Drugs Control & Research Laboratory (SDCRL) of the Government of West Bengal
(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-279 /2025

Dated-08.04.2025

The following amendment have been made in the tender document,

Amendment –I (Revision of Technical Specification)

The revised technical specifications for the item is given below,

Complete Lab Ultra Pure Water Purification System directly from tap

Pre Filter: Should be Customized based on feed water quality test parameters

Should provide product water that qualifies feed water requirement of the system

- **The Complete Ultrapure Water system must give ASTM Type II pure and Type I ultrapure water from a single system**
- System should consist of dual Pass 2 individual RO Membrane in parallel operation (i.e, not in series).
- Automatic Back Flush for the Dual RO Membrane only from RO permeate water
- **The RO Membrane should not get rejected water from another RO Membrane. It should work on a parallel series**
- Should continuously regenerate ion exchange resins to remove ion
- **Softner should be present before EDI to protect the EDI module**
- Innovative software must be present in the system to optimized water consumption economically
- Serial Interface RS-232 & PLC interface for external communication must be present in the system
- System must be able to provide 10lit/hr of Type II water and 120lit/hr of Type I water

- System must have unique flexible glass touch display with intuitive menu navigation
- Carbon-resin technology to produce ultrapure water with Resistivity up to 18.2Mohm x cm.
- **System must have Top-Down Flow technology inside the cartridge**
- System should have an Integrated Horizontal UV oxidation chamber with dual wavelength 185 and 254 nm capable of reducing TOC levels < 2ppb
- Should have facility of wall mounting/Bench top installation when required
- Should have touch screen function and self diagnostic facility
- Final Filter should be 0.45+ 0.2µm pleated double layered sterile grade PESU membrane and should be validated according to HIMA & ASTM F-838-83 guidelines.
- The bidder should submit European CE (4 Digit notified body) /BIS/CDSCO Certification from the competent authority.
- Data Documentation: Detailed data documentation with SD Card, PC or Printer
- Dispense of water: System should have facility to dispense water through manual, time, volume controlled dispense.
- Water dispensing flow rate should be adjustable between 0.1- 2lit./min
- Protection: PIN protection for settings and service functions
- System information : It should show in display measured values for feed water, product water, temperature, total dispensed water , count down for next recommended consumable replacement, user friendly alert management with follow up function etc.

EDI Water Storage Tank

- Closed 50 liter Bag tank system with Integrated distribution pump
- Bag Tank must have an Integrated vent filter with check-valve
- There should be No-time consuming sanitization process and also no use of chemicals to be involved
- Maximum Water dispensing flow rate with pump from the tank should be 3.0 lit/hour

Product Water Quality

| Product Water Quality | | |
|--|-----------------------------------|------------------------------------|
| Technical Specifications | Type II | Type I |
| Output upto | 10 lit/hr | 120 lit.hr |
| Water dispensing flow rate | ≤ 3 lit/min | ≤ 2 lit/min |
| Volume controlled output | | Lit/min in 100ml |
| Resistivity | > 5Mohm.cm compensated to 25°C | 18.2Mohm.cm compensated to 25°C |
| TOC | < 50ppb | < 2ppb |
| Microorganism content | < 1cfu/1000ml | < 1cfu/1000ml |
| Particle content | < 1/ml | < 1/ml |
| Retention of dissolved organic substances, particle, microorganism | > 99% | |
| Typical ion retention | > 98% | |

Others Requirements:-

- Warranty - 3 Years. Warranty will cover Spares parts and Service /Breakdown calls.
- One set of extra consumables need to supply along with the equipment.
- OEM service engineers must be based in Kolkata.
- No General authorization will be entertained for the bidding.