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2. Merck Millipore MILLI-Q Water Purification Systems (Model: Direct Q-3)

TECHNICAL SPECIFICATIONS

- **Specifications for Merck Millipore Laboratory Water Purification System for model Direct Q 3 Type I Water**
- The system is to generate Ultrapure water for analytical laboratory techniques directly from drinking/ Tap water. The Prefiltration unit with 1 um depth filter should be provided. System must capable enough to tackle feed water specification as Conductivity < 2000 μ S/cm, TOC < 2000 ppb, Chlorine < 3 ppm, Hardness < 300 ppm
- The system should guarantee the water purity of 18.2 M Ohm-cm
- There should be an advance warning of cartridge change on display of system.
- The system should be able to remove all ionic and organic contents to trace levels in the feed water
- The system should be capable of Wall-mountable and completely assembled for easy installation
- The intermediate water quality should be delivered for regular lab work. Since requirement is very low, generation flow should not be more than 3 ltr/hr
- The storage tank should be of very low size and not be more than 6 ltr to avoid storing of water.
- System should incorporate graphic colour display and real-time monitoring of water purity.
- The system should be compatible to work with power supply of 240 V AC and 50 Hz.
- The cartridge should be all in Single pack only with RO pre-treatment and Ion Exchange resins. Multiple cartridges should be avoided so that a single pack can be replace easily.
- A 0.22 μ m screen Filter setup at the outlet of water purification unit to avoid particulate matter and to ensure safe bacteria level
- Operation and maintenance manual to be provided along with the instrument.
- System must have recirculation facility to keep water quality always in good quality when system is not in use.
- Vendor must provide catalogue and flow diagram with above details. The flow diagram must match with vendor's global/local website.
- **Type I Water Specifications:-**
 - Conductivity : 0.054 μ S/cm @ 25 °C
 - Resistivity : 18.2 M Ω .cm @ 25 °C
 - TQC : 10 ppb
 - Bacteria : <0.1 cfu/ml

**ONLY AUTHORISED DISTRIBUTOR OF MERCK MILLIPORE SHOULD
SUBMIT THIS TENDER**