Specification of RO Water Plant

The system should have the RO+UV.

The system should have the Purification capacity of 1000 liters per hour.

The system should be compact, heavy duty and floor mounting.

The system should be supplied with sensor for Auto ON/OFF as per the water level of the tank.

The system should be supplied with 1000 liters SS tank

The system should be supplied with suitable Raw Water Feed Pump with 2-3 m3/hr 1 HP drive Single phase with redundancy.

The system should be supplied with 5 and 10-micron filter cartridge with housing

The system should have sand filter and Activated carbon filter of vertical floor mount with Min and max Operating Pressure of 2.0 kg/cm2 to 3.5 kg/cm2. Max Treatment Flow of 2.5 m3/hr and Min. Treatment Flow of 01 m3/hr Filter Media: Multigrade Media and crushed gravels.

The system Material of Construction should be FRP Vessel with Multiport Valve

The system should be supplied with Online Rotameters.

The system should be supplied with the water level indicator in the tank which can be easily check the percentage of water in the tank.

The Industrial RO unit should have the Treated Water Flow of 1 m3/hr and Recovery : 55-60%, Feed Water TDS should be 900 PPM (Max.)

The Membrane Type should be Spiral wound and the Membrane Size be 4040 x 4 nos with SS Membrane housing

The vertical centrifugal pump should be Pump of 2 or 3 HP single phase in SS with Pressure Gauges – 3 Nos and On line flow meters – 3 Nos,

The system should be supplied with Online Conductivity Meter and Treated Water Characteristics TDS < 50mg/L with pH - 6 to 7

The system should be supplied with low and high pressure switch control system

Electromagnetic type Anti-scalant dosing pump and PH boosting pump of capacity 6 LPH with discharge pressure of 2 kg/cm2 and dosage 4ml/1000L

The system should be supplied with online conductivity digital meter to monitor the product water

Dosing tanks with the capacity of 50 liters, made up of HDPE should be provided for two number of dosing units.

The system should be supplied with UV STERILISER with Max Treatment flow of 1 m3/h with Efficiency : 99% and Material of Construction should be SS 304 Wetted parts with Quartz Jacket to house the UV Lamp

The Skid Material of Construction should be made up of stainless steel and it should have warranty for 3 year (in case of any rusting in the skid the company should replace with the new one without additional cost)

The instrument should be supplied with the required pressure gauges, pressure switches, conductivity meter, contactors, indicators, power on/off switch, Rate of flow indicators, level switches, sensors, rotameters etc and it should be mounted on SS panel.

The system should be supplied with the electrical control panel for RO plant

The system should be able to run in Manual/Auto mode.

All consumables required for installation and standardization of system should be supplied with instrument.

The system should operate on 230V, 50Hz.

The system should be supplied with all the accessories required to function.

The entire system should have three-year warranty and cost of all consumables like salt, antiscalant, cartridge, spares, and services etc to be included. The offer should include an anti-scaling setup with required tank and chemicals.

Preventive maintenance & Breakdown should be borne by the vendor during the warranty period and Every three months the vendor should check the performance of the system and report should be submitted (Total 12 maintenance visit). If any spares/consumables required should be supplied by the vendor.

The supplier has to verify all the components of RO Plant to meet the specifications as per P.O and has to provide the test report of components of RO Plant.

The vendor has to verify the rated capacity and quality of output water of RO Plant and has to arrange the testing of RO Plant output water at a reputed laboratory at his own cost

The vendor should compulsory have the site visit before submitting the quotation for better understanding the requirement. If not the quoted offer will not be considered

The service provider should have the base in Bangalore. Office address and service Engineer contact details should be enclosed with the quotation.

The quoted system should be CE/ISO Certified.

The past performance/service support in NCBS/instem/ccamp should be satisfactory and the evaluation will be done accordingly.

Technical/Maintenance manuals, Certificate of calibration and inspection from factory to be supplied with system.

Compliance to each of the above points should be separately indicated and evidence presence for each of them (Product brochures should be highlighted wherever required).