

QUOTATION FROM AQUAFILTER

Subject: Reverse Osmosis Plant capacity of 250 LPh

Kind Attention: Mr.

Dear Sir,

This is with the reference to your discussion undersigned had with you for your requirement of Reverse Osmosis System having a permeate capacity of 250 LPH for process.

We have put in our best efforts to offer you accurate prices and products with all standard brands.

***Best regards,
Aquafilter Company***

BASIS OF DESIGN AND CAPACITY



Capacity utilization:

91-95%

INPUTS (Wastewater Quality) To RO Plant:

Total Dissolved Solids: < 1000 PPM

OUTPUT (Treated Water Quality) From RO Plat:

Total Dissolved Solids: < 50 PPM

TECHNICAL SPECIFICATIONS

1 RAW WATER PUMP

Purpose

To feed the Dual Media Filter at pressure more than 2.0 bar, which is min. operating pressure for filter.

Specifications

- a) MOC : CI
- b) Type : Horizontal Centrifugal
- c) Power Required: 0.5 HP
- d) Electrical : 230 V, Single phase , 50 hz
- e) Make : Cri 0.5 HP**
- i) Quantity : 1 No.

2 DUAL MEDIA FILTER

Purpose

To remove the total suspended solids, dirt , iron and reduce silt density index which can foul the membranes

Specifications

- Vessel :**
- a) Make: Pentair, Sealfo or Equilent**
 - b) Material of Construction: FRP
 - c) Diameter: 8”
 - d) Height : 44”
 - e) Testing Pressure : 10 kg/cm²
 - f) Opening : Top
 - g) Quantity : 1 No.
 - Value :3/4”**

5 MICRON FILTER

Purpose

To remove the fine particles up to 05 microns and reduce silt density index levels to acceptable level.

Specifications

- Cartridge Filter & Housing**
- Housing:**
- a) MOC of Housing: PP
 - b) Length : 20”
 - c) Diameter: 2.5”
 - d) Quantity : 1 No.
- Cartridge :**
- e) Make : Seaflo
 - f) Cartridge MOC : Polypropylene
 - g) Length: 20”
 - h) Diameter : 2.5”
 - i) Quantity: 1 no.

k) Micron rating: 05 micron

6 HIGH PRESSURE PUMP

Purpose

To feed the Reverse Osmosis Membrane at pressure more than the osmotic pressure taking into consideration flux rate, flow and recovery.

Specifications

- a) MOC : Stainless Steel
- b) Type : Vertical Multistage
- e) Power Required: 1.5 HP
- f) Electrical: 230 V , Single phase, 50 hz
- h) Make: CRI**

7 RO MEMBRANE

Purpose

To remove the major part of TDS upto 98% by Reverse Osmosis Membranes arranged and designed to give adequate flow and recovery.

Specifications

- a) Type: Spiral Wounded
- b) Diameter of Membrane: 2.5 inch
- c) Length of Membranes: 1 Mt.
- d) No. of Membranes : 1
- f) Salt Rejection per Membrane: 98-99%
- g) Make of Membranes: OVAY 4040 or Equilent**
- h) System Recovery: 50 %

8 RO PRESSURE TUBE

Purpose

To pack Reverse Osmosis Membranes and operate at high pressure up to 250 psi

Specifications

- a) MOC : FRP
- b) Diameter of Pressure Vessel : 4.5 inch
- c) Length of Pressure Vessel : 1 m
- d) No. Pressure Vessels: 1
- e) No. of Membrane per Vessel: 1
- f) Position: Horizontal, Series
- g) Arrays: 1 No.

9 ELECTRIC PANAL

Purpose

ICON
A control panel is provided as a safety measure for the pumps & other electrical items.

Specifications

- a) Complete Starters, Overload relays, and single-phase preventor for Pump.
- c) Push Buttons

10 INSTRUMENTATION

Purpose

- a) Flow Meter : To measure the online flow of water
- b) Low Pressure Switch : To protect RO pump from dry running

c) High Pressure Switch : To protect RO pump from back pressure

d) Pressure Gauges : For calculate ΔP for each unit in RO system

Specifications

Rota Meter :

Quantity : 2 Nos.(permeate & reject line)

Range : 250 ltr per hour

11 PLUMBING & FITTINGS

a) Valves, pipelines RO module is in upvc

c) The System will be on common SS base frame

FINANCIAL OFFER

PRICE OFFER

S.NO	PRODUCT SPECIFICATION	QTY.	UNIT PRICE (Rs.)	Amount (Rs.)
I	Supply & Manufacture the complete Reverse Osmosis plant	1No.		
II	Chiller 250LPH (1Ton (Kirloskar) Unit with SS 304 insulated Inner tank)	1 No.		
III	ATM GSM Dispensing Unit with Two Dispensing Complete Unit Comes in SS304 Price For Above Complete Unit	1 No.	2,80,000.00	2,80,000.00

FREIGHT Extra at actual From Lucknow (UP) Office

ERECTION & COMMISSIONING Extra

EXCISE TAX

NIL

GST 18% Extra

