AQUADEEP



3000 LPH RO PLANT ₹280,000.00

DESIGN BASIS:

The chemical composition of raw water is considered as follows:

T D S : 2500ppm

PH : 7.5

Note: It is understood that there is no heavy metal or difficult elements, which is necessary to remove prior to feeding into R.O. System.

PRODUCT WATER QUALITY

TDS : <100 ppm

PH : 7.6

SCOPE OF SUPPLY FOR R.O. PLANT & FACILITIES:

S.NO. PRODUCT TECHNICAL SPECIFICATIONS

Flow Rate 3000 Liters per Hour Raw Water Feed Flow 6000 Liters per Hour

Recovery 40-50%



1. RAW WATER PUMP

Flow rate : 6000 LPH
Head : 35 m
Power : (2 HP)
Quantity : 1 No
Flow Make : CRI / LUBI



2. MULTI GRADE FILTER UNIT

Make and size : Alfha/ Pentair (18/65)

MOC : FRP Quantity : 1 No.

Purpose: To remove total suspended solids dirt, iron, Manganese and reduce Silt density index so as to prevent fouling of Membrane.

Equipped with 1 multi- port Valve, Media and respective Pipeline



3. ACTIVATED CARBON FILTER

Make and size : Alfha/ Pentair (18/65)

MOC : FRP Quantity : 1 No.

Equipped with 1" Multi port Valve, Media and respective Pipeline



4. ANTISCALANT DOSING PUMP

Pump Type : Electronic Metering

Pump Flow : Maximum 0-5 Liters / Hour

Maximum Pressure : 5-6 Bar
Tank MOC : HDPE
Tank Capacity : 100 Ltrs
Power requirement : 25 W

Purpose: To remove the effect of Calcium and Magnesium responsible for hardness in the water responsible to form scaling on the membrane and in pipelines.



5. MICRON FILTER

Housing:

Make : Amete / Gentee, USA

MOC of Housing : PP
Length X Diameter : 20" X 4"
Quantity : 4 No.

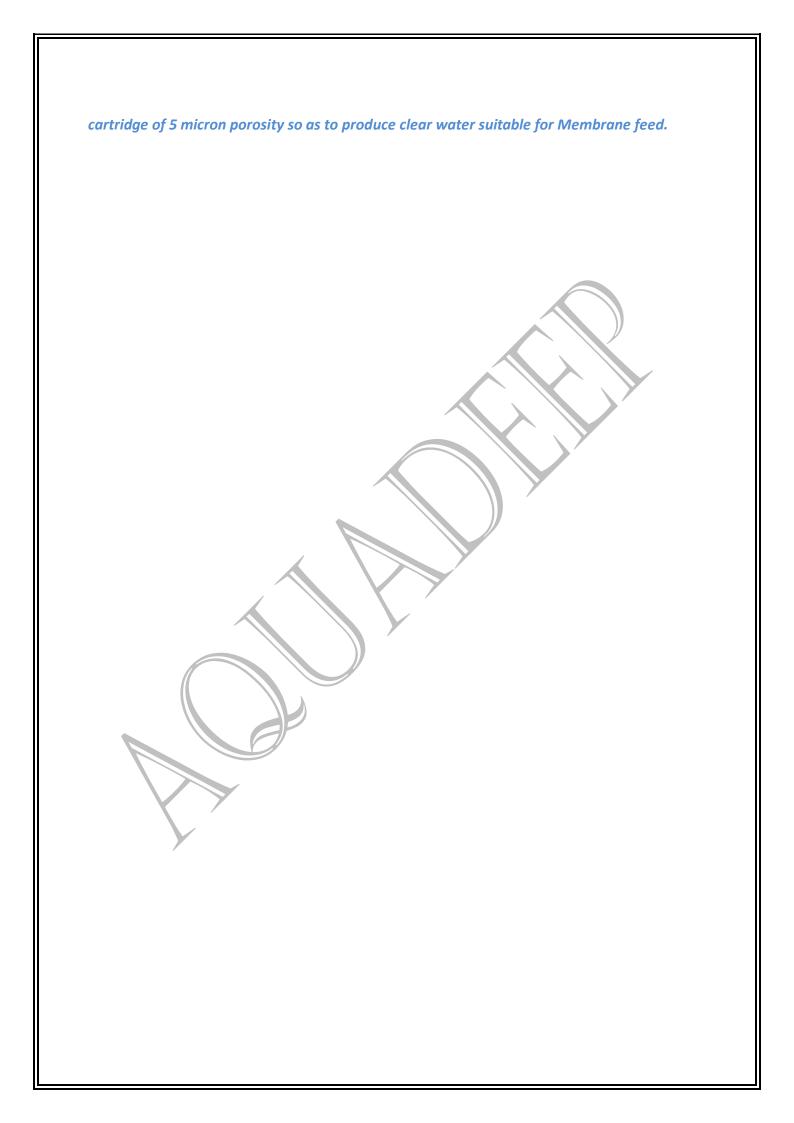
Cartridge:

Make : Filterite / Pratham /Ametek USA

Cartridge MOC : Polypropylene

Length : 20"
Diameter : 4"
Quantity : 2 No.
Micron Rating : 5 Micron

Purpose: After Antiscalant system water passes through micron filter having filter



6.



6. HIGH PRESSURE PUMP

MOC : Stainless Steel

Size : 4-22

Flow Rate : 3500 Liters per Hour

Head : 125 M

Power Supply : 5.0 KW, 440 V Make : LUBI / C.R.I

Quantity :1 No.

Purpose: To feed RO Membrane at pressure more than the osmotic pressure, considering

flux rate, flow and recovery.



7. R.O. MEMBRANES

Type of Membrane : HR (Poly Amide)

Diameter of Membrane : 8.0 inch Length of Membrane : 40 inch No. of Membrane 3

Make of Membrane : Hydraunatics / LG / Dow / HII-FLOW (All USA)

System Recovery : 50-60 %

Purpose: To remove most of the dissolved solids present in water and to reduce TDS (Total

Dissolved Solids)



8. MEM-HOUSING

Specifications

MOC : FRP
Diameter of Pressure Vessel : 80 inch
Length of Pressure Vessel : 120 inch
No. of Pressure Vessels 1
No. of Membrane per Vessel 3

Make : Aventura / Pentair/etc.

Position : Horizontal

Purpose: To pack membrane and operate at high pressure



9. ELECTRICAL PANEL

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

Complete Starters, Overload Relays, Single Phase Preventor for Pump Voltmeter, Ammeter, MCB's, Indicating Lights Puss Buttons Rocker switches for dosers Incomer, Auto-manual switches

10. INSTRUMENTATION

Rotameter : To measure the online flow of water
Low Pressure Switch : To Protect RO Pump from dry running
High Pressure Switch : To protect RO pump from back pressure

Pressure Gauges

: For calculate ^P for each unit in RO System

α.



Rotameter:

Quantity : 2 Nos (permeate & Reject Line)

Flow Rate : 5000 ltr/hr



Pressure Switch:

Quantity Range Make : 2 Nos (Low & High)

: 20 – 125 psi : Orion / Eqv, India



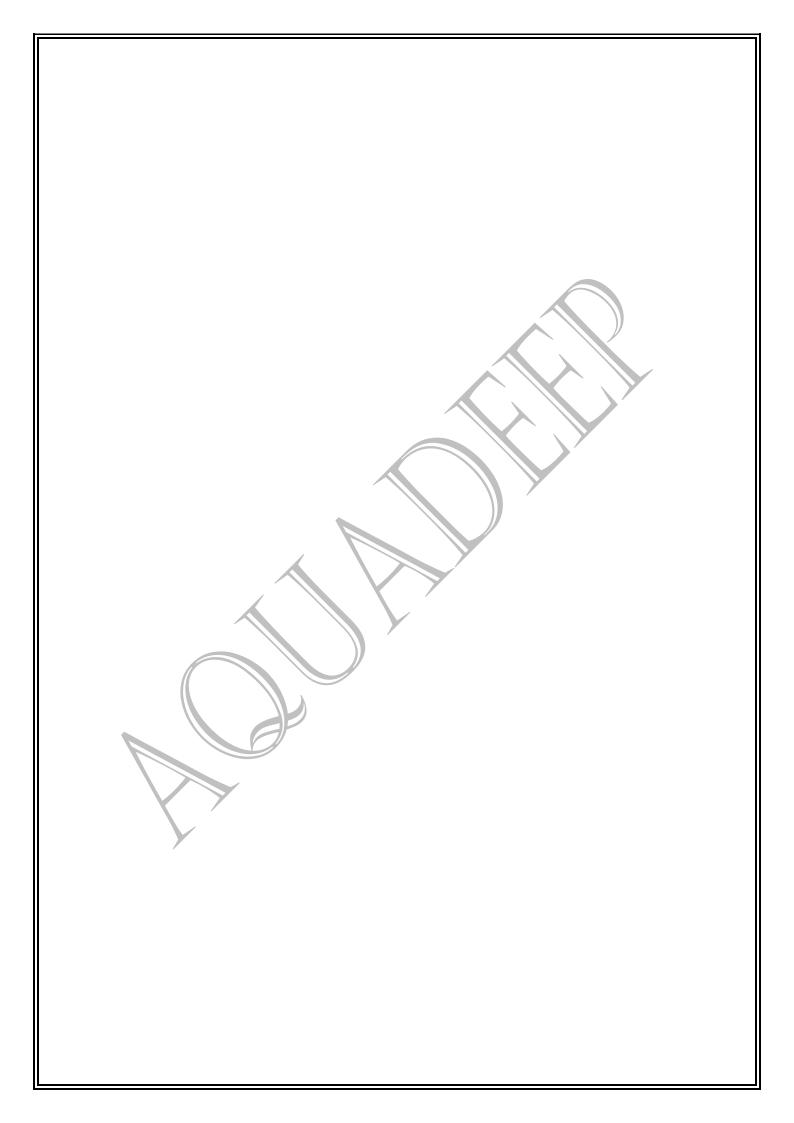
. Pressure Gauges

Quantity : 4s Nos

Range : 0 - 7, 0 - 21 bar

Dail Size : 2.5 inch

Type : Line Mounted / Panel Mounted Make : Dynamic / Gluck / Reputed, India



PLUMBING & FITTINGS

- * UPVC/CPVC for complete High Pressure piping. The job will include all necessary valves, NRVs, Fittings to ensure an optimum working of plant.
- * Frame for skid.

EXCLUSIONS:

- * Building Shed, Foundations, Flooring, Drains or any kind of Civil Construction.
- * Electrical Supply and Distribution System
- Electrification, Illumination and Wiring
- * Preliminary facilities as Storage Tanks, Feed Water Pumps, and associated piping
- * Any additional Storage Tank for Intermediate Step or Product Water
- Any raw material consumables, Anti-Scalant Chemical, micron filter etc. Except first lot for one month.
- * Any item not specifically mentioned in the offer
- Transportation of Plant to your site
- * Packing and Forwarding
- * Taxes and Duties
- * RO Membranes are not covered in warranty.
- Installation 5,000/- extra

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PAYMENT: - 80% Advance and 20% after installation.

DELIVERY: 1-2 days after confirmation of purchase order along with advance.

Regards- AQUADEEP WATER SOLUTIONS RAHUL DEV- 8130315248

A-126 SHOP NO- 5 DHYAN SINGH MARKET NOIDA SECTOR -22, NEAR NOIDA STADIUM