



# 2000 LPH RO Plant Price & Specification

# 2000 LPH RO PLANT

#### ₹195,000.00

# **DESIGN BASIS:**

The chemical composition of raw water is considered as follows:

T D S PH

: 7.5

: 2500ppm

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.

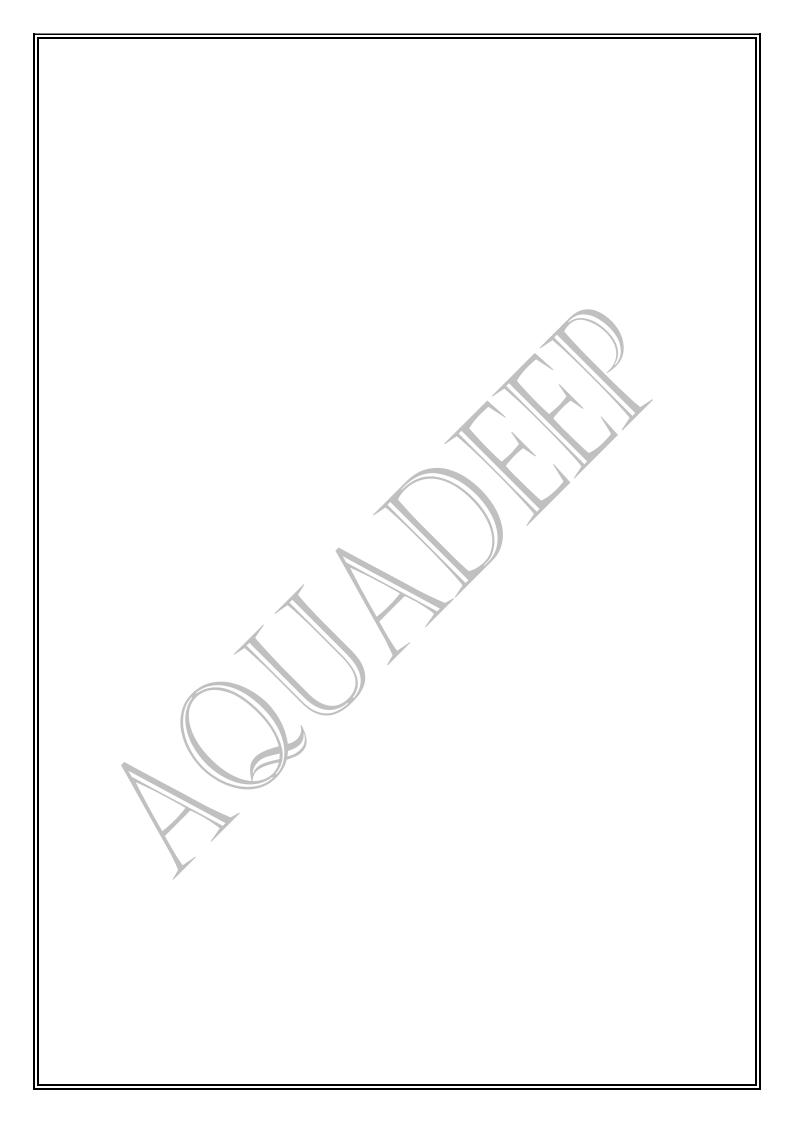
# **PRODUCT WATER QUALITY**

TDS	: <100 ppm
PH	: 7.6

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

S.NO.	PRODUCT	TECHNICAL SPECIFICATIONS
	Flow Rate	2000 Liters per Hour

Flow Rate	2000 Liters per Hour
Raw Water Feed Flow	5000 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 MOC Quantity : Alfha/ Pentair (14/65) : FRP

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

: 1 No.



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

# **3. ACTIVATED CARBON FILTER**

Make and size	: Alfha/ Pentair ( 14/65)
MOC	: FRP
Quantity	: 1 No.

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



#### 4. ANTISCALANT DOSING PUMP

Pump Type Pump Flow Maximum Pressure Tank MOC Tank Capacity Power requirement

- : Electronic Metering
- : Maximum 0-5 Liters / Hour

: 5-6 Bar

: HDPE

: 100 Ltrs : 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 MOC of Housing Length X Diameter Quantity

: Amete / Gentee, USA : PP

- : 20″ X 4″
- : 2 No.

#### **Cartridge:**

Make: Filterite / Pratham /Ametek USACartridge MOC: PolypropyleneLength: 20"Diameter: 4"Quantity: 2 No.Micron Rating: 5 Micron

*Purpose: After Antiscalant system water passes through micron filter having filter cartridge of 5 micron porosity so as to produce clear water suitable for Membrane feed.* 





6. HIGH PRESSURE PUMP

MOC	: Stainless Steel
SIZE	: 4-16
Flow Rate	: 3500 Liters per Hour
Head	: 125 M
Power Supply	: 4.5 KW, 440 V
Make	: LUBI / C.R.I
Quantity	: 1 No.
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Purpose: To feed RO Membrane at pressure more than the osmotic pressure, considering flux rate, flow and recovery.



Type of Membrane Diameter of Membrane Length of Membrane No. of Membrane Make of Membrane System Recovery

- : HR ( Poly Amide)
- : 8.0 inch
- : 40 inch
- 2
- : Hydraunatics / LG / Dow / HII-FLOW (All USA)
- : 50-60 %

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



**MEM-HOUSING** 

#### **Specifications**

#### MOC

Diameter of Pressure Vessel Length of Pressure Vessel No. of Pressure Vessels No. of Membrane per Vessel Make Position

# : SS

: 8.0 inch : 80-80 inch

1

2

: Aventura / Pentair/etc.

: Horizontal

Purpose: To pack membrane and operate at high pressure



8. ELECTRICAL PANEL

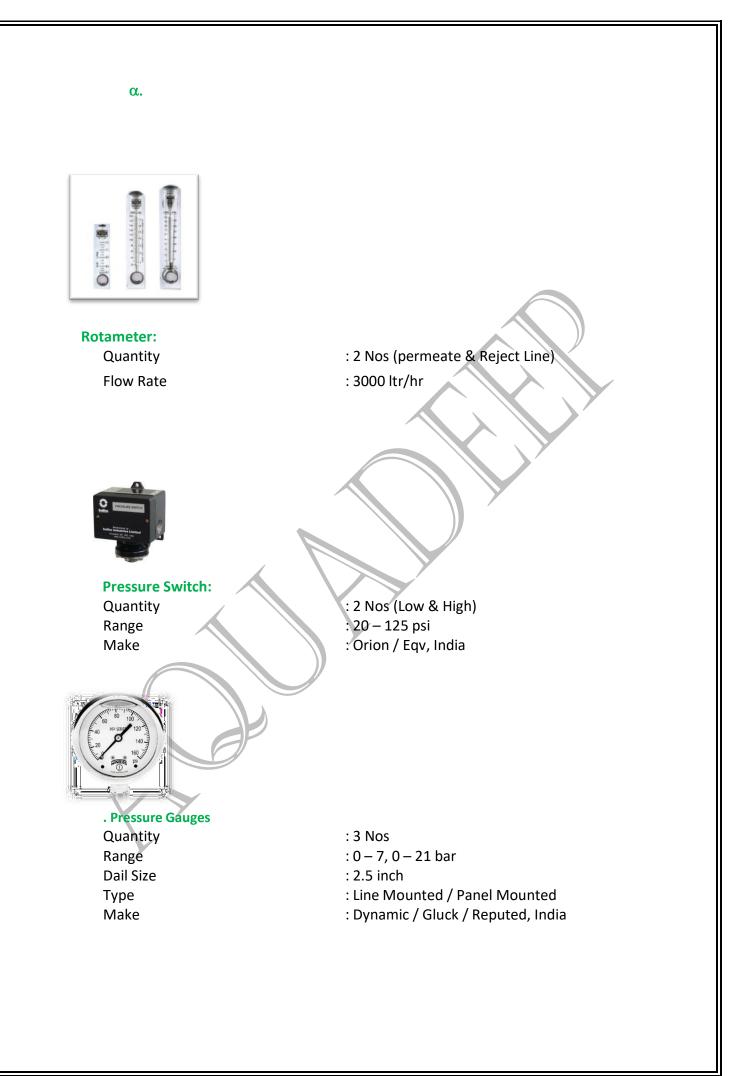
A control panel is provided as a safety measure for the pump & other electrical items.

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

## 9. INSTRUMENTATION

Rotameter Low Pressure Switch High Pressure Switch Pressure Gauges

- : To measure the online flow of water
- : To Protect RO Pump from dry running
- : To protect RO pump from back pressure
- : For calculate ^P for each unit in RO System



#### **10. 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
- \*

#### 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