Pearlworld
Purity our Entity

Description

Sub: - Our Quotation for R O + UV Water Purification System 250 LPH CENTERLIZE RO SYSTEMS

01. Technical Specifications : Annexure – I

We recommend the R.O. plant of 500 lph capacity, for safe and proper working.
We hope you will find our quotation in line with your requirements, however if you have any further clarifications please do get in touch with us.

Thanking you and assuring you of our best services at all times.

Annexure - I

Technical Details:

ASSUMPIONS

FEED WATER TDS	10000ppm
Fluorides	<1ppm
Iron	<0.1ppm
Turbidity	<5
PH	<7.5 & > 6.5

Scheme:

Raw Water Pump→ Sand Filter → Carbon Filter → Anti Scalent Dosing System → Micro Filtration→ High Pressure Pump → Membrane → Product Water Storage Tank (Client Scope)

FEED WATER	**700LPH**
FEED WATER TDS	**3000PPM**
PRODUCT WATER	**500LPH**
RECOVERY	**40%**
SALT REJECTION	**95%**

In case of high Turbidity customer needs to provide a settlement tank and Alum dosing system is to be incorporated. The cost of the same has not been considered with in the scheme.

Technical Specs:

Raw Water Tank (Client Scope)
This tank ensures a constant supply of the raw water to the machine.

Feed Water Pump

The system would require an Inlet Pressure of 1.5 Kg/cm^2 minimum for smooth operation. To provide the same the Raw Water Pump is being incorporated in the system.

Description

Make	:	Crompton/Kirloskar/Usha
Power	:	1 Hp
230 Volts		
Phase	:	Single
Type	:	Mono Block

PRESSURE SAND FILTER & ACTIVE CARBON FILTER (ACF)

The system is required to be feed with **"0" turbidity** water. The **Pressure Sand Filter** is incorporated in the system to ensure the same. The **Pressure Sand Filter** offers a filtration up to 30 microns.
The **Filter** consists of a **Non Corrosive Vessel** that can withstand pressure up to 6.5 Kgs/cm^2, **Multi Graded Sand Filtration Media** for filtration, **Internal Distribution System** to distribute the water evenly inside the vessel for proper filtration, **Multi Port Value (MPV)** for easier operation along with **Back Wash** and **Rinse** facilities, a **stand** to hold the **MPV** in position and **Pressure Gauges** to know the position of the sand filter.

This system is required to be feed with **NIL Chlorine** water. The **Activated Carbon Filter** is incorporated in the system to ensure the same. It also ensures that the water is **color less, odor less** and contains no dissolved gases.

The **Filter** consists of a **Non Corrosive Vessel** that can withstand pressure up to 6.5Kgs/cm^2, **Multi Graded Sand and Activated Carbon Filtration Media** for filtration, **Internal Distribution System** to distribute the water evenly inside the vessel for proper filtration, Multi Port Value (MPV) for easier operation along with **Back Wash** and **Rinse** facilities, a stand to hold the **MPV** in position and **Pressure Gauges** to know the position of the **Activated Carbon filter.**

The filter is designed for 14m/sec internal flow for proper filtration.

Description:

Vessel	:	FRP
Size	:	13"54"
Volume	:	105 Lts
Multi Port Value Filter	:	25 Nb Top Mounted
Media	:	Silica Sand Multi Grade
Min Operating Pressure	:	1.5kg/Cm^2
Max Operating Pressure	:	4.5kg/Cm^2
Avg Operating Pressure	:	2-3kg/Cm^2

MICRON FILTER

Due to the induction of the dosing chemical some of the particles may coagulate in the water. This coagulated particle cannot be allowed to enter the membrane. The Micron Filter ensures that all such particles above the size of 5 micron are being filtered out of the water so as to enhance the system life. It also ensures that even all un dissolved particles above the size of 5 Micron are being filtered out.

Description:

No. Offered	:	Two
20"Slim Housing	:	PP
Specs	:	Two
Filters Nos. Offered	:	Two
Micron Rating	:	5 Micron

HIGH PRESSURE PUMP

In the system, the membrane filtration takes place at high pressure only in the range of 8-14 KG/CM2. To provide such high pressure the Pressure Booster Pump is being induced in the system to boost the pressure to the required level for the proper filtration process.

Description:

Make	:	CRI/Nanfang
Power	:	Single Phase
Model	:	2-150
Type	:	Horizontal Multi Stage
Pressure Rating	:	1.5 M3 At 140m Head
Max Pressure	:	17 Kgs/Cm^2
Normal Operating Pressures	:	8-14 Kgs/Cm^2

MEMBRANE HOUSING

The membrane housing provides the shell for the membranes to allow the highly pressurized water to pass through the membrane.

Description:

MOC	:	FRP
No. Offered	:	One
Specs	:	4:40 (Double Element)
Max Pressure	:	21 Kgs/ Cm^2
Operating Pressure	:	9-14 Kgs/ Cm^2

MEMBRANE

The system consists of Thin Film Composite Membrane made out of Poly Urethane acetate that provides a filtration level up to 0.0001 micron. These operate at a pressure between 9-14 kgs/cm2 this result in a dissolved salt rejection of up to 95%. The membrane separates the water into two streams. One is the premed or the product water and the other is the rejection.

Description:

Make	:	DOW/Hydronotics
Specs	:	4040
No. Offered	:	Two
Operating Pressure	:	9-14 Kgs/ Cm^2

ACCESSORIES

ELECTRICAL CONTROL PANEL

MOC	:	Plastic
Power	:	Single Phase
Condutivity Meter	:	Inbuilt
LPS Adjuster	:	Inbuilt
HPS Adjuster	:	Inbuilt

WET PANEL

MOC	:	SS
Flow Meters	:	Two
Pressure Gauges	:	Two
LPS	:	One
HPS	:	One

SKID

MOC	:	SS

PIPING

Raw Water Pump to Micron Filter	:	UPVC
Micron Filter to Flow Meters	:	UPVC
Product Line	:	UPVC (As Per FDA &NSF)
Reject Line	:	UPVC

Annexure - II

Terms & Conditions

Transportation **Extra as on actual**

Scope of work Material, Fabrication, Assembling,
Installation and commissioning
Servicing as per terms mentioned

Delivery schedule 15 days from the date of advance
(depend on payment schedule)

Dispatch 2 days for Delhi, 7 day for outside Delhi (dependent on transport)
Installation and commissioning 2 days dependent on site

Force Majeure Clause: Our offer is subject to the acceptance of Force Majeaure Clause such as strike, lockout, non-availability of raw material or acts of God such as fire, flood draught, earthquakes etc, which are beyond our control.

In case of any query please feel free to contact us. Thanking you and assuring you of our best services at all times.

PRICE SCHEDULE

S.No	Item Description	Rate	Qty	Amount
01	**Reverse Osmosis System with a capacity of 500LPH**	**Rs. 180000**	**01**	**180,000 /-**
Total				**1,80,000/-**
Payment Schedule				
Advance				**70%**
Against Performa Invoice				**30%**
On Installation and Commissioning				

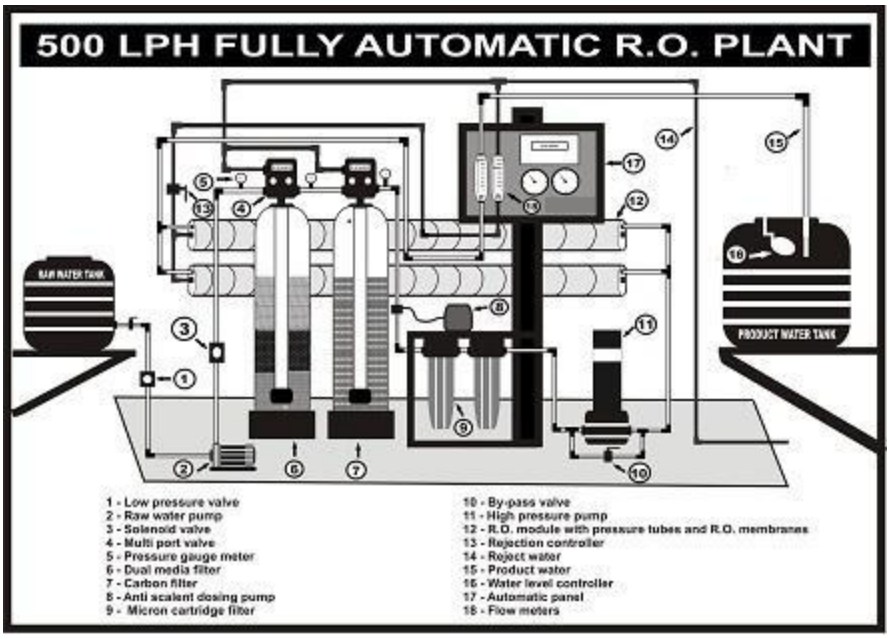
Annexure - III

Terms & Conditions

Transportation	**Extra as on actual**
Scope of work **Installation and commissioning** **Servicing as per terms mentioned**	**Material, Fabrication, Assembling,**
Delivery schedule **(depend on payment schedule)**	**15 days from the date of advance**
Dispatch **(dependent on transport)**	**2 days for Delhi, 7 day for outside Delhi**
Installation and commissioning	**2 days dependent on site**

Force Majeaure Clause: Our offer is subject to the acceptance of Force Majeaure Clause such as strike, lockout, non-availability of raw material or acts of God such as fire, flood draught, earthquakes etc, which are beyond our control.

In case of any query please feel free to contact us. Thanking you and assuring you of our best services at all times.


500 LPH FULLY AUTOMATIC R.O. PLANT
RAW WATER TANK
PRODUCT WATER TANK
1 - Low pressure valve
2 - Raw water pump
3 - Solenoid valve
4 - Multi port valve
5 - Pressure gauge meter
6 - Dual media filter
7 - Carbon filter
8 - Anti scalent dosing pump
9 - Micron cartridge filter
10 - By-pass valve
11 - High pressure pump
12 - R.O. module with pressure tubes and R.O. membranes
13 - Rejection controller
14 - Reject water
15 - Product water
16 - Water level controller
17 - Automatic panel
18 - Flow meters