

QUOTATION

Date: 22.03.2024

To:

Mr, DIWAKAR GUPTA

Subject: Quotation for 1000 LPH FRP RO Plant SEMI - AUTOMATIC

Dear Sir,

This refers to your requirement of RO plant; we have quoted you for 1000 LPH complete scheme of RO System. Please find our Best Competitive Offer for you.

Our Best Techno-Commercial Offer is constructed as follows:

Process of the system & Design basis.

Scope of Supply with Technical Specification & Scope of exclusion. Price with Commercial terms & Conditions.

Kindly call us at your convenience for any further clarifications and information.

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

With Best Regards, Arunkumar 9620101383



We are thankful for your valuable order. According to your requirement we are hereby enclosing the quotation for 1000 LPH FRP Fully Automatic Reverse Osmosis System. Please find the details in the attachment.

RO Plant Manufactures is the leading manufacturers in Bangalore. We have 15 years' experience in the field of manufacturing. We have more than 1750 satisfied customers in all over India, and also providing services in Andhra Pradesh and Karnataka.

RO Plant Manufactures always try to serve u the latest technology in lowest prices. Most of the material of the plant is been manufactured by RO Plant Manufactures. We hold the monopoly for certain products in the market. We have expertise who have done years of R&D on the technology and serve the best to our esteem customers. We have a group of professional technical expertise who install, handle and service the machinery very well with advanced technology at your doorstep efficiently. Prior motto of our RO Plant Manufactures is 100% after sales service were other companies are lacking behind.

Our clienteles includes Bisleri, Royal challenge, Bhasyam public school,lion's club international, Sri Chaitanya techno schools, Iskcon temples etc; we are also having dealerships with reputed and well-known companies

Other than taking AMC we also supply the chemicals that help you to maintain the machinery and the water quality. We assure you the best and prompt services; we look forward for your positive reply.



























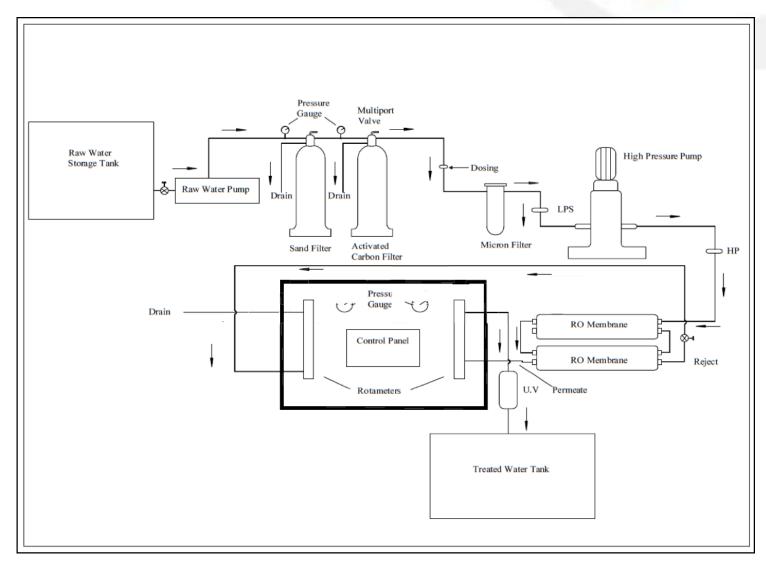




PROCESS DESCRIPTION

Water is passed through following different stages for process of filtration & separation in RO water plant process.







REVERSE OSMOSIS (RO) PROCESS

Reverse Osmosis is a technology that is used to remove a large majority of contaminants from water by pushing the water under pressure through a semi-permeable membrane.

A reverse osmosis membrane is a semi-permeable membrane that allows the passage of water molecules but not the majority of dissolved salts, organics and bacteria.

Pressure Sand filter:

To remove suspended matter from the water by means of Multi size Graded sand filled in the vessel of stainless steel material. This is natural process of filtration.

Activated Carbon filter:

To remove Color, Odor and Smell from water by using Granular Activated carbon. It absorbs contaminated particles of Oil & Grease from the raw water.

Antiscalant Dosing:

To prevent the desalting element from scale deposition.

Micron Filtration:

To remove the micron particles from the raw water by means of using disposable cartridges having Perfect micron size of porosity for filtration.

Desalination by RO Membrane Element:

To desalt the raw water i.e. to reduce the total dissolves solids.

By using Semi Permeable Membrane filter elements, where filtration process is carried out by applying pressure in the water. So finally we will get Low salt water with low total dissolve solids and High purity.

<u>Ultra-Violet Disinfection System:</u>

UV light is electromagnetic radiation with wavelengths shorter than visible light, UV is mutagenic to bacteria, viruses and other microorganisms, UV breaks molecular bonds within micro-organismal DNA.

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DESIGN BASIS

The following are technical specification for equipment supply for RO water project.

The Water Treatment Project is designed to produce 1000 LPH On the basis of following considered/approximate raw water quality.

Source Of Water

Suspended Solids	Nil
TDS	Less than 800 ppm
Turbidity	Less Than 4.0. NTU
pН	8

Treated Water Quality

The approximate treated water quality is as follows however it depends on row water quality considered for design of system. we can change the property of minerals/ions in Treated water by reducing and editing the mixing water quality in R.O. treated water.

Suspended Solids	Nil	
Turbidity	Nil	
pН	5.50 to 8.0	
Total Dissolved	Less than 50 ppm	
Solids		
Total Hardness	Less than 20 ppm as CaCo3	
Iron as Fe	Nil	
Organic Material	Nil	
Fluoride	less than 0.01 ppm	
Sodium	Less than 05 ppm	



SCOPE OF SUPPLY

Raw Water Feeding Pump	1 No.
Pressure Sand Filter	1 No.
Activated Carbon Filter	1 No.
Antiscalant Dosing System	1 Set
Micron cartridge filter (5/20" microns)	2 Nos.
High Pressure Pump	1 No.
Reverse Osmosis Element (4040)	1 No.
Pressure Vessel for element	ı No
Instruments	1 set
 Pressure Gauges 	4 Nos.
• Rotameters	2 Nos.
• Level Sensors	2 Nos.
 Auto Membrane Flushing System 	1 No.
 Fully Automatic control panel 	1 No.
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AUTOMATIONS

High-low voltage cutoff
High Ampere cutoff
Automatic Membrane flushing (start, stop, intermediate function)
Raw Water Tank Sensor
Treated Water Tank Sensor
Plant Error Reporting on Panel
Treated Water Quality Protection

TECHNICAL SPECIFICATIONS

RAW Water Pump:

Max. Flow	4 m³/hr.
Working flow	2 m³ /hr.
Working pressure	2 kg/cm².
Max. Pressure	3.0 Kg/Cm².
M.O.C.	C.I.
Power	1 HP.
Make	CRI
Nos. Offered	One No.



Multi-Graded Sand Filter:

M.O.C.	FRP	
Pipe Line Size	25 mm OD	A SULL STATE
Sand Qty.	150 Kg.	200 SEC. 1887
Valves	RunXin Imported MPV	
Max. Flow	5.00 m³/hr.	
Working Flow	3.0 m³/hr.	
Make	StarLite / hippo / TATA	
Nos. Offered	One No.	

> Granular Activated Carbon Filter:

M.O.C.	FRP		
Pipe Line Size	25 mm OD	127	
Sand & Carbon Qty.	50 Kgs		
Valves	RunXin Imported MPV		
Max. Flow	5.00 m³/hr.		
Working Flow	3.0 m³/hr.		
Make	StarLite / hippo / TATA		
Nos. Offered	One No.		

Antiscalant Dosing System :

Nos. offered	ı No.	
Dosing chemicals	Anti Scalant	
Rate of Dosing	ı ppm.	
Daily Consumption	3 to 5 gms/hr.	VERITO
Type of DosingPump	Electronic diaphragm	Www. Honoremann
	Pump.	100 100
Maximum Dosing	6 lph.	
Capacity		
Make	E Dose/Verito / CDOSE	

Micron Cartridge Filter:

Size	4.5" Dia. & 20" Long.	
Micron Rating	5 Micron.	
Type of Filter	P.P. Spun Jumbo	eff
Material of Housing	FRP	- 11
Max. Flow	4 m³/hr.	
Working Flow	3.0 m³/hr.	0
Make	FRP	
Nos. offered	2 Nos.	

High Pressure Pump:

Туре	Centrifugal-Multistage	
M.O.C.	S.S. 304	
Max. Pressure	11 Kgs/cm².	
Working Pressure	9 Kgs/cm².	
Max. Flow	3 m³/hr.	
Working Flow	2.5 m³/hr.	-
Motor	2 HP, Single phase	
Make	CRI	
Nos. offered	1 No.	-



Reverse Osmosis Membrane Elements:

Model	4040 brackish water.	
Туре	Spiral Wound	
Material	Polyamide	annear anne anne
Size	4" Dia. x 40" Long	Tables of the state of the stat
Make	Duken / hydroxy/ hitech	
Nos. Offered	o4 No.	

Pressure Vessels:

M.O.C.	FRP	
Туре	Horizontal Tube Type	
Capacity	1000 litres	
Max. Pressure	300 psi.	
Working Pressure	150 psi.	
Size	4" Dia X 80" Long	
Make	RO Deals	
Nos. Offered	2	

> <u>Fully Automatic Control Panel</u>:

- To control all the Pumps & Electrical units within the RO System.
- Panel helps us protect machine from electrical failures and it offers high level automation to increase the life of machine.
- Displays whole process with a mimic diagram to help understand the process easily.
- Displays all functions on the LCD display.

Make	Accord
Nos. Offered	1



Pressure Gauges :

Туре	Bottom And Back Mounted
Make	Standard
Range	0 - 21, 0 - 7 kg/cm²
MOC	SS 304
Nos. Offered	2





> Rotameters :

Туре	Float type	
Mounting	Panel Mounted	<u>.</u>
Make	Aster/ Flux	1
Nos. Offered	2	
33		

▶ <u>Level Controller</u>:

Туре	Electronic sensor	
Make	Standard	CWW.
Nos. Offered	2	

> SS Tank:

Туре	SS Tank	
Make	Standard	
Nos. Offered	1 Nos. (2000 Liters)	

☐ Card + Coin Box :-

Туре	Card + Coin Box	
Make	Inititative	
Nos. Offered	1 Nos.	Initiative's Coin + Card ATM

> <u>0.5 HP SS PUMP</u> :-

Туре	o.5 HP SS Pump	0 11
Make	CRI	
Nos. Offered	1 Nos.	

> <u>Sv 3/4</u>:-

Туре	Sv 3/4	
Make	Ro Deals	



COMMERCIAL QUOTE

The Complete Offer for Supply, Erection & Commissioning of Machine

FRP	1
ACCORD / INITIATIVE	1
FRP	1
STAINLESS STEEL	1
FRP	1
LOTUS	
SS / BRASS / FRP	:
Neer / LOTUS	
NUTS	
GOOD CHEMISTRY /SCALEFREE	
RAPID	
RAPID	
INNITIATIVE / VERITO /CDOSE	
ACCORD / INITIATIVE	
UKL/RAPID	
DUKEN / HITECH/HYDROXY/OTHERS	
LOTUS/HIPPO/UKL	
THREADED FILTER	
FRP	
INNITIATIVE	
CARBON	
SAND	
,	
	Quantity
	CARBON INNITIATIVE FRP THREADED FILTER LOTUS/HIPPO/UKL DUKEN / HITECH/HYDROXY/OTHERS UKL/RAPID ACCORD / INITIATIVE INNITIATIVE / VERITO /CDOSE RAPID RAPID GOOD CHEMISTRY /SCALEFREE NUTS Neer / LOTUS SS / BRASS / FRP LOTUS FRP STAINLESS STEEL FRP ACCORD / INITIATIVE

Те	rms
1.	GST 18% Included
2.	Installation & Service Charge Included
3.	Pipeline charges for site Extra
4.	Transportation lincluded
5.	Payment against Performa Invoice
6.	The validity for this Quotation is 07 days from the date of issue,

TERMS AND CONDITIONS OF SUPPLY

Price	The above Quoted price
Transportation	Included
Installation	Included
Pipeline charges	Included
Training	Will be provided
Taxes	GST@ 18% extra as applicable on basic price.
Delivery	1-2 weeks after confirmed order along with advance.
Payment	50% advance & 50% on delivery.
Price Validity	15 Days









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