

Drinking water system

RADIANT AQUASOL INDIA

Supply & Service provider for all RO purifiers.

*FLS
13/08/2024*

18-488/4, Mallikarjuna Nagar, Malkajgiri, Hyderabad - 500 047

radiantaquasolindia@gmail.com

M/S Fleming life sciences Pvt Ltd,

Corp. Office Plot 131, Ground floor,
Green Park Avenue, Behind Hotel Surabhi Pride
(Near Surchitra Junction), Jeedimetla - 500067,
Tel: 040 2723 5853, Mob no.9010491216

Factory: Kidchur Karnataka,
Kind Attn: MD SIR

Technical data sheets for Reverse Osmosis Plant 250 LPH -

Contact-

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Technical data sheets for Reverse Osmosis Plant 500 LPH

REF: LIVING/MJ/707

DATE: 12/08/2024

Scheme

Raw Water Tank → Raw Water Pump → Sand Filter → Activated Carbon Filter → Antiscalant Dosing → Reverse Osmosis Plant → Storage Tank → Use

Sand filter: Sand filter is a depth filter that makes use of coarse and fine media mixed together in a fixed proportion. This arrangement produces a filter bed with adequate pore dimensions for retaining both large and small-suspended particles. This filter consists of the vertical cylindrical pressure vessel with One set of internal water distribution and collection system, One initial charge of filter sand and under bed material, and multiport valves. Pressure gauges to monitor head loss across the filter.

Activated carbon filter ACF: Activated carbon filter is a depth filter that makes use of activated carbon. This arrangement produces a filter bed which removes colour and odour present in water. This filter consists of the vertical cylindrical pressure vessel with One set of internal water distribution and collection system, One initial charge of filter sand and under bed material, and multiport valves. Two pressure gauges to monitor head loss across the filter.

Antiscalant dosing system: Dosing system is used as antiscalent dosing to prevent the membrane from choking due to calcium, magnesium and silica deposits.

Reverse osmosis system 250lph capacity: The reverse osmosis system consists of 2nos 4040 membranes which gives an output of 500 litres per hour.

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Scope of Supply:-

1. Raw water pump -1 no
2. Dual media -1 no
3. Antiscalant dosing system with 5kg antiscalant and drum
5. Reverse osmosis system with u.v systems 500lph -1 no.
6. All necessary automation like switching on/off of the Ro system when the tank low pressure and high-pressure operation.
7. HDEP Raw water Tank BY client
8. Sintex /water tank -200 lph

Section I Design Philosophy

Plant Capacity

Filtration plant

Service flow rate : 2000lph

Reverse Osmosis system

Permeate flow rate : 250 LPH

Recovery : 50- 55%

Feed flow rate : 1000 LPH

Salt rejection : 95 %

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Section II

Technical Specifications

RAW WATER PUMP

1	CRI/ leo	One /leo/ cri
2	Type	HORIZONTAL
3	Capacity	2000 lph
4	H.P	.5hp

Dual media Filter

1	Quantity	One
	Type	Vertical pressure filter
3	Capacity	2000 lph
4	Diameter	12"
5	HOS	52"
6	MOC of housing	FRP
8	Maximum operating pressure	5 kg/cm ²
9	Minimum operating pressure	2 kg/cm ²
10	Make	Pentair or equivalent
11	Media depth	50kgs
12	Strainer	Top and bottom
13	Valve	Multi port pvc
14	Size of valve	25 NB
15	Piping and accessories	cpvc one lot

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Antiscalant dosing

1	Pump Quantity	1 NOS
2	Capacity	2 lph
3	Pressure	3 bar
4	Type	Electronic metering
5	Make	E-DOSE/UKL
6	Frequency	100 strokes / min
7	Dosing tank capacity	50 ltr
8	MOC	HDPE

Reverse Osmosis Plant

Micron filter

1	Quantity offered	One
2	Flow rate	2000LPH
3	Length of cartridge	Multi cartridge 2 no

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4	Type	PP spun bonded cartridge
5	Micron size	10 micron

High pressure pump

1	Quantity offered	One
2	Type	Vertical Multi stage
3	Capacity	1000 LPH@9 - 10 bar
4	Motor rating	2 HP
5	Make	lubi/ leo

Reverse Osmosis Module

1	Quantity offered	One
2	Feed rate	1000 LPH
3	Recovery	40 - 50 %
4	Permeate flow rate	250LPH
5	No of membranes	InOS
6	Salt rejection	95 %
7	Make	HYDRAMEM/ OIASIS /EQULENT
8	Model	CPA2 4040
9	No of pressure vessel	2 INOS
10	MOC	FRP

RO skid

1	Quantity	One no
2	MOC of skid SS	own
3	Make	OWN

Pipes & Valves

1	Quantity offered	One lot
2	Type	Ball valve
3	Pipes	One lot
4	MOC	As required upv/ cpvc

Pressure gauges

1	Quantity offered	3 nos
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2	Location	RO, ro feed, rejects, sand filter, activated carbon filter
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Pressure switch

1	Quantity offered	2 nos
2	Type	Low pressure switch - 1 no High pressure switch - 1 no
3	Make	Standard make
4	Location	Inlet & outlet of HP pump

Flow meters

1	Quantity offered	2
2	Type	Rota meter
3	Location	Permeate and rejects,

Control panel

1	Quantity offered	One
2	Type	Skid mounted
3	Make	own
4	MOC	N/A
5	LOGIC s	With interlocking, conductivity

R.O. Treated water Tank- 1no

Section III

Commercial Terms and Conditions

Sl.No	Specification	Amount in Rs.
1	R.O PLANT 250 LPH (with storage tank- 200 LPH installation & commissioning)	Rs94,000 (GST 18% EXTRA)

EXCLUSIONS

v All civil works such as foundations, drains, drain channels, platforms etc.

Negotiate and
Release PO

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- v Unloading, storage, insurance and security of equipment at site
- v All pipelines up to inlet and from the outlet of our plant.
- v Room for RO plant
- v Anything not specifically mentioned in our offer

Trust you will find our offer quite competitive and expect to receive your most favorable order.

Price basis : Ex office /works-Hyderabad

Freight : Extra at actual

Delivery and completion : 1 weeks

(DEPENDING ON WORKING TERMS)

Payment terms:

70% advance along with order

30% against supply of equipments prior to dispatch

Warranty: 12 months from the date of delivery against inherent manufacturing defects. The warranty does not cover warrant for membranes or any electrical or electronic items and any replacement for normal wear and tear

Validity: This offer is valid for 30-45 days.

Trust you will find our offer quite competitive and expect to receive your most favorable order.

For-**RADIANT AQUASOL INDIA**

Michael Joseph (business Head)

Mobile- 9848982638