



MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD.

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Corrigendum of E-Enquiry

Name of E- Enquiry-

E-Enquiry for Providing & Installation of Industrial water Filter Plant at 100kV Shahapur Substation EHV substation under EHV (O&M) Dn. Dombivali.

The Following point to be adjoined with term & condition No. 17

Guarantee: You will have to give of one year guarantee of Industrial water Filter Plant .

Technical Specification as below:-

➤ **PLANT INTRODUCTION:**

Water Treatment scheme is designed to produce product water at the flow rate of **500 LPH** based on Reverse Osmosis Technology.

Note: The proposed water treatment system can even work continuously for 8-9 Hrs per day leaving aside 0.5 – 1 Hrs for the recommended Backwashing of the Filtration system.

➤ **RAW WATER ANALYSIS (ASSUMPTED):**

The proposed Water Treatment System based on following Water Analysis,

Sr. No.	Parameter	Analysis Value.
1	Total Dissolved Solids	2000 ppm (Max.)
2	Turbidity	<1 NTU
3	Total Hardness	< 350
4	Ph	7.5

5	Organics And Bacteria	NIL
6	Oil And Grease	NIL
7	Residual Chlorine	NIL
8	Temperature (°C)	< 40.
9	Color	Color Less
10	Odor	Odor Less
11	BOD & COD	NIL

➤ **END WATER QUALITIES:**

TDS	< 100ppm.
Ph	7.0 +/- 0.2
Turbidity	Nil.
Color	Nil.

RO PLANT OPERATING CONDITION:

Sr. No.	Parameter	Value.
1	Feed Flow Rate.	1000LPH
2	Product Flow Rate	450LPH
3	Reject Flow Rate.	550LPH
4	Recovery.	60 %

Treatment Scheme

Sr. No.	Description
1	Raw Water Pump
2	Sand Filter
3	Carbon Filter
4	Anti Scaling Dosing System.
5	Micron Cartridge Filter (20 Micron & 5 Micron)
6	High pressure Pump
7	RO Module
8	RO Product water storage Tank. (By Client Scope)

The End Water quality shall be achieved subjected to:

- Feed quality is same as specified in your enquiry. In case of any change in the quality of raw water, the same may have an implication on the operating parameters and End- water quality of the system.
- Feed limiting condition mentioned in our offer is strictly maintained.
- Operation of Water treatment plant is strictly followed in totality as per our operating manual & instructions.

Technical Specification of 500 LPH Standard

➤ Raw Water Pump

Type	:	Rotary Centrifugal.
No.	:	1 No.
Make	:	Shakti/Leo/CRI.
Capacity	:	1000LPH. Or As required.
Pressure	:	3 Kg/ Cm2
Power	:	1 Hp.

➤ Pressure Sand Filter

Type	:	Vertical
Diameter	:	13 inch.
Height	:	54 inch.S
Volume	:	54 liter.
MOC	:	Imported
Make	:	FRP
Type of Operation	:	Manual.

➤ Pressure Activated Carbon Filter

Type	:	Vertical
Diameter	:	13 inch.
Height	:	54inch.
Volume	:	54liter.
MOC	:	imported
Make	:	FRP
Type of Operation	:	Manual

➤ Cartridge Filter Housing

Flow Rate	:	1000 LPH.
No of Cartridge Housing	:	1 Nos.
Make	:	Imported

➤ Micron Cartridge Filter

Flow	:	2000 LPH.
MOC	:	PP.
No of Cartridge	:	1 Nos.
Size	:	20 x4
Rating	:	5 Micron

➤ **High Pressure Pump**

Type	:	Rotary Centrifugal.
No.	:	1 No.
Make	:	Shakti/Leo/CRI/CNP
Capacity	:	2000LPH. Or As required.
Pressure	:	10-12 Kg/ Cm2
Power	:	3 Hp.

➤ **RO Pressure Tube**

Item	:	RO module consisting of membrane Housing SS304 with RO membrane mounted skid SS304.
MOC	:	PENTAIR
No	:	40 x 40 2E.
Qty	:	1 nos

➤ **Membrane**

Type	:	DOVE/ PURE ONE/ZED FLOW
Size	:	40/40
Quantity	:	2 Nos.
Make	:	USA

➤ **Dosing System**

Type	:	Automatic
Size	:	6LPH.
Quantity	:	1 Nos.
Make	:	India

Instrumentation

➤ **Pressure Gauges**

- | | | |
|----------|---|-------|
| Quantity | : | 4Nos. |
|----------|---|-------|
- **Flow Meter**
- | | | |
|----------|---|-------------------|
| Quantity | : | 2 Nos. |
| Location | : | RO Product Water. |
- **Pressure Control Valve**
- | | | |
|----------|---|--------------------|
| Location | : | Reject Water Line. |
| Nos. | : | 1 No. |
| Make | : | Spring System |
- **Pipeline** : Complete astrel CPVC
- **Multiport wall** : inactive
- **Panel :** : aster 3 PHASE
- **Skid** : SS
- **Fully Automatic Electric Control Panel with Indicators, with On Off Switch.
WITH FLOATY SYSTEAM**

Note – The other Term & condition will remain unchanged.

[S. K. Fulari]
Executive Engineer
EHV O&M Dn Dombivali

