

MUMBAI OFFICE :-Unit No. 11, Ruby Coach Lane, Marol Nake,
Near Hind Saurashtra Indl. Estate,
Off. Andheri-Kurla Road, Andheri (E), Mumbai - 59.
Tel. : +91 22 28505403
Cell : +91 93728 05577
E-mail : rajwater@ymail.comPlot No. : 27, Survey No. 47, Jivraj Industrial Area,
Opp. Falcan Pump, Vavdi, Gondal Road,
Rajkot - 360 004. (Gujarat) India
Tele : +91 281 - 3291791 / 2922777
Telefax : +91 281 - 2922481
Cell : +91 93757 55777 / +91 97276 55777
Website : www.rajwater.com
E-mail : info@rajwater.com

DM Plant

Process:

- **Raw water pump**
For transfer of raw water to DM water plant.
- **Strong Acid Cation Exchanger Unit.**
To desalt the raw water i.e. to remove positive ions from water.
- **Strong Base Anion Exchanger Unit.**
To desalt the raw water i.e. to remove Negative ions from water.

⇒ SCOPE OF SUPPLY:

The scope of supply for 4,000 Ltr./Hr.(75 M3 / Regeneration) D. M. Plant contains

Raw water Pump.	1 No.
Strong Acid Cation Exchanger Unit	1 No.
Strong Base Anion Unit	1 No.
Instruments	1 No.
Stand for Unit	1 Set.

Source Of Water :

D.M. plant is designed based on **60 PPM raw water TDS.**

Treated Water Quality

The approximate quality of treated water is as follows considered for design of system.

Suspended Solids	: Nil
Turbidity	: Nil
pH	: 6.5 to 8.5
Chloride	: Nil
T D S	: Less than 2 ppm
Conductivity	: Les than 4 microsiemens/CM
Total Hardness	: 0 ppm as CaCo3

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Max. Temperature	:	40 deg. C
Free Chlorine, Bacteria, Oil,	:	Nil
Iron, Manganese. etc.	:	Nil
Turbidity	:	Less than 1.0 NTU

Scope of Exclusion

1. Foundation for Equipments and any Civil Works.
2. Power, Water and Electrifications.
3. Raw water storage.
4. Testing Chemicals and Facility.

Scope of Supply:

The following are the technical specification for the equipments supply for water treatment plant.

1. Raw water Pump.

No. of pump	:	1 Nos.
Type of pump	:	Centrifugal type
Capacity	:	4 M3 / Hr.
Power	:	1 HP.
Make of Pump	:	Kirloskor

2. Strong Acid Cation Exchanger

No of stream	:	1 Nos.
Model	:	DM / 1665 / UF
Diameter of vessel	:	16" Dia.
H.O.S.	:	65" Dia.
Material of construction	:	FRP.
Max. operating pressure KCS	:	2.0 Kg/cm ² .
Min. operating pressure KCS	:	1.5 Kg/cm ² .
Design Flow rate	:	5 M3/Hr.
Normal Flow rate	:	4 M3/Hr.
Type of Resin	:	Strong Acid Cation.
Resin qty in Ltrs.	:	150 Ltrs.
Regeneration Chemical	:	HCl 20 %.
Regnt. Qty as 20% Ltr/Reg	:	21 Kgs.
Net Output / Reg.	:	75 M3.

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Type	: Conical bottom.
Capacity.	: 100 liter.
M.O.C.	: HDPE.
Make	: reputed.

4. Strong Base Anion Exchanger

No of stream	: 1 Nos.
Model	: DM / 1665 / UF
Diameter of vessel	: 16" Dia.
H.O.S.	: 65" Dia.
Material of construction	: FRP.
Max. operating pressure KCS	: 2.0 Kg/cm ² .
Min. operating pressure KCS	: 1.5 Kg/cm ² .
Design Flow rate	: 5 M3/Hr.
Normal Flow rate	: 4 M3/Hr.
Type of Resin	: Strong Base Anion.
Resin qty in Ltrs.	: 150 Ltrs.
Regeneration Chemical	: NaOH 100 %.
Regnt. Qty as 100 % Kg/Reg	: 30 Kg.
Net Output / Reg.	: 75 M3.

5.Strong Acid Anion Exchanger (Regeneration Tank)

Type	: Conical bottom.
Capacity.	: 100 liter.
M.O.C.	: HDPE.
Make	: reputed.

6. Instruments**A Pressure Gauges : 2 Nos.**

Type	: Burdone Tube Type
Make	: Raj.
Range	: 0 - 28, 0 - 7 Kg/cm ²

B Rota meters : 1 Nos.

Type	: Float
M.O.C.	: Acrylic Body, SS Float.
Range (0 - 6000 Lph)	: 1 No

C Conductivity Meter : 1 No.

Type	: Digital Type
Range	: 0 - 999 micro mho/cm
Make	: Supertonic

G.S.T. TIN 24091804617 Dt. 18-9-09
C.S.T. TIN 24591804617 Dt. 18-9-09

Raj

Water Technology (Guj.) Pvt. Ltd.

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7. STAND FOR UNIT

Complete stand for unit will be made of M.S

8. INTERCONNECTING PIPE LINES

All interconnecting pipelines up to Raw Water Pump to Storage Tank will be provided of PVC by us.

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