



Decide with Confidence



9001:2015



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II Shree Umiya Matay Namah II



GSTIN : 24AAECR3013M1ZJ

Water Technology (Guj.) Pvt. Ltd.

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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 3000 Ltr/hr DM Regeneration, 110000 liter) D. M. Plant contains

Raw water Pump.	1 No.
Strong Acid Cation Exchanger Unit	1 No.
Strong Acid Cation Exchanger (Regeneration Tank)	1 No.
Strong Base Anion Unit	1 No.
Strong Base Anion (Regeneration Tank)	1 No.
Instruments & Control panel	1 No.
Stand for Unit	1 Set.

Source of Water:

D.M. plant is designed based on **40 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	: 5 To 7
Chloride	: Nil
Conductivity	: Less than < 5 ppm

Feed Water Conditions For D.M. Plant.

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



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Scope of Exclusion

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

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	: 1000Ltr / Hr.
Power	: 0.5 HP.
Make of Pump	: Kirlosker

2. Strong Acid Cation Exchanger

No of stream	: 1 Nos.
Model	: DM / 1354/RW
Diameter of vessel	: 13" Dia.
H.O.S.	: 54" Dia.
Material of construction	: FRP.
Max. operating pressure	: 3.0 Kg/cm2.
Min. operating pressure	: 1.7 Kg/cm2.
Normal Flow rate	: 3000 Ltr ./Hr.
Type of Resin	: Strong Acid Cation.
Resin qty in Ltrs.	: 150Ltrs.
Regeneration Chemical	: HCl 33 %.
Regnt. Qty as 33 % Ltr/Reg	: 17ltr

3. STRONG ACID CATION EXCHANGER (REGENERATION TANK)

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



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4. Strong Base Anion Exchanger

No of stream	: 1 Nos.
Model	: DM / 1354 / RW
Diameter of vessel	: 13" Dia.
H.O.S.	: 54" Dia.
Material of construction	: FRP.
Max. operating pressure	: 3.0 Kg/cm ² .
Min. operating pressure	: 1.7 Kg/cm ² .
Normal Flow rate	: 3000 Ltr./Hr.
Type of Resin	: Strong Base Anion.
Resin qty in Ltrs.	: 150 Ltrs.
Regeneration Chemical	: NaOH 50 %.
Regnt. Qty as 50 % Kg/Reg	: 5KG

5. STRONG ACID CATION EXCHANGER (REGENERATION TANK)

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

8. Instruments & Contro Panel

9. Stand For Unit

Complete stand for unit will be made of M.S

10. Interconnecting Pipe Lines

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