





# CHAMUNDA WATER TREATMENT



 9824863883

Ro Plant, Mixbad, D. M Plant And Automatic Water  
Softner Manufacturing Sales And Service

 Valiba Shopping Center  
Vivekanand Nagar, Hathijan -382445

 [nikunjenik10@gmail.com](mailto:nikunjenik10@gmail.com)

## 100/150 LPH



Model	CWT 100 / 150
Skid	MS/SS
Milti Grade Media Filter	Pressure Vessel Frp/MS/SS 8x44"Vessel (1 PCS)
Activate Carbon Filter	20" (1 PCS)
Multiport Valve	1 Sets
Media	Quartz Sand, Granular Carbon 1100iv, Gravel.(as per need)
Antiscalent Dosing System	1 PCS
Micron Cartridhe Filter	20" X 2 ",5micron PP Filter (2 PCS)
High Pressure Pump	050/075 HP.(1 PCS)
Membrane Housing	40* 21 (1 PCS)
Ro Membrane	40" x 21" (1 PCS)
Uv System	100/150 Lph
Unit Panel	adp
Instruments	pressure Gauge (2Pcs), Rota Meters (2Pcs)
Pressure Switch	High Pressure Switch, Low Pressure Switch.(1Pcs Each)
Inter Connecting Pipe	UPVC/PVC/SS
Cip System	25 L Tank
Auto / Manual Ele. Panel	Volt Meter,Ampere Meter, MCB Switch,PCB
Indicators	Power, Working, Low Pressure, High Pressure,
	Cureent, Dry Run, Tw Tank.

Model	CWT /250/500/1000
Feed Pump	1 HP, Single Phase (1 PCS)
Skid	MS/SS
Multi Grade Media Filter	Pressure Vessel FRP /MS/SS 13"x54" Vessel (1 PCS)
Activate Carbon Filter	Pressure Vessel FRP /MS/SS 13"x54" Vessel (1 PCS)
multiport Valve	2 Sets
Media	Quartz Sand, Granular Carbon 1100iv, Gravel.(as per need)
Antiscalent Dosing System	1 PCS
Micron Cartridhe Filter	20" X 4 ",5 Micron PP Filter (2 PCS)
High Pressure Pump	3 HP. (1 PCS)
Membrane Housing	40* 40 (4 PCS)/ 80*40(1PCS)
Ro Membrane	40" x 80" (2PCS)/80*40(1PCS)
Uv System	1000 LPH
Unit Panel	ADP
Instruments	pressure Gauge (2 Pcs), Rota Meters (3 PCS)
Pressure Switch	High Pressure Switch, Low Pressure Switch.(1Pcs Each)
Inter Connecting Pipe	UPVC/PVC/SS
Cip System	100 L Tank
Auto / Manual Ele. Panel	Volt Meter,Ampere Meter, MCB Switch,PCB
Indicators	Power, Working, Low Pressure, High Pressure,
	Cureent, Dry Run, Tw Tank.

## Ro PLANT F.R.P





## Demineralization (DM) Water Treatment Plants

Demineralization Is The Process of Removing Mineral Salts From Water By Using The Ion Exchange Process. Demineralised Water Is Water Completely Free (Or Almost) Of Dissolved Minerals As A Result Of One Of The

### Following Processes :

- Distillation
- Deionization
- Membrane Filtration (Reverse Osmosis Or Nanofiltration)
- Electrodialysis
- Or Other Technologies.

Demineralized Water Also Known As Deionized Water, Water That Has Had Its Mineral Ions Removed. Mineral ions such as cations Of Sodium, Calcium, Iron, Copper, Etc And Anions such as chloride, Sulphate Nitrate etc are common ions present in Water. Deionization Is a Physical process which uses specially-manufactured ion exchange resins which provides ion exchange site for the replacement of the mineral salts in Water With Water forming  $H^+$  And  $OH^-$  ions. Because The Majority of Water impurities are dissolved salts, deionization produces a high purity water that is generally similar to distilled water, and this process is quick and without scale buildup. De-mineralization technology is the proven produces mineral free water by operating on the principles of ion exchange, Degasification, and polishing. Demineralized water system finds wide application in the field of steam, power, process, and cooling.

### Principle

Raw Water Is Passes Via Two Small Polystyrene Bead Filled (ion Exchangeresins) Beds. While The Cations Get Exchanged With Hydrogen Ions In First Bed, The Anions Are Exchanged With Hydroxyl Ions, In The Second One.

### Process

In The Context Of Water Purification, ion-exchange Is A Rapid And Reversible Process In Which Impurity Ions Present In Tha Water Are Replaced By Ions Released By An Ion-exchange Resin. The Impurity Ions Are Taken Up By The Resin, Which Must Be Periodically Regenerated To Restore It To The Original Ionic Form. (an Ion Is An Atom Or Group Of Atoms With An Electric Charge. Positively-Charged Ions Are Called Cations And Are Usually Metals; Negatively-charged Ions Are Called Anions And Are Usually Non-metals). The Folowing Ions Are Widely Found In Raw Waters:

#### Cations

- Calcium ( $Ca^{2+}$ )
- Magnesium ( $Mg^{2+}$ )
- Sodium ( $Na^+$ )
- Potassium ( $K^+$ )

#### Anions

- Chloride ( $Cl^-$ )
- Bicarbonate ( $HCO_3^-$ )
- Nitrate ( $NO_3^-$ )
- Carbonate ( $CO_3^{2-}$ )

D.M 2000



D.M 4000



D.M 600





**MANUAL AND  
AUTOMATIC WATER  
SOFTENER  
100 TO 10000 LPH  
CAPACITY FRP &  
MS/ FRP**



📍 Valiba Shopping Center Vivekanand Nagar, Hathijan - 382445

✉ nikunjnik10@gmail.com ☎ 9824863883