

# WATER TREATMENT

## REVERS OSMOSIS UNIT



Raw Water is initially dosed with chlorine. This takes care of the organic matter to some extent. Raw water is passed through Multi Media Filter with the help of Feed pump of suitable capacity to remove suspended impurities. This filter unit gives the coarse filtration.

Filtered water is then passed through Activated Carbon Filter to remove excess chlorine (de-chlorination), o-dour, color and turbidity due to colloidal suspended impurities and organic impurities. De-chlorinated water is then dosed with anti-scalene dosing system.

The water is further passed through 5 micron cartridge filter to remove micron particles to avoid clogging of the Reverse Osmosis membrane. Reverse Osmosis Unit is the heart of the treatment scheme. It will reduce the Dissolved Salts from the raw water up to the remarkable level. A lot of bacteria are also removed in this process.

Treated water from Reverse Osmosis unit will be stored into Storage tank of desired capacity. The Stored Water is then passed through set of Micron Filters and then Ozone and Ultraviolet Sterilization to ensure complete bacteria free pure water.



Capacity ranging from 500 liter to 200000 liters per hour. The unit will be designed based on the application and raw water properties. Complete stainless steel construction or FRP and stainless steel combination units can be designed based on the application and budget. All pumps are ground Foss and R.O. membranes are from hydrometrics. Complete automatic with PLC man machine interface or manual operations unit can be fabricated based on the requirement. The unit will produce finest quality fresh and crispy drinking water. The unit will comply with bureau of Indian standers.

**ASSUMPTIONS FOR DESIGNING**

Design of Water Treatment Plant is as per the Raw Water Analysis assumed and Final Water Quality Desired

Sr. No.	PARTICULARS	PRESENT	DESIRED
1	Colour	Clear	Clear
2	Odour	Unobjectionable	Unobjectionable
3	PH at 25 degrees	7.2	6.9 - 7.2
4	TDS	900 PPM	<10 PPM
5	TH	450 PPM	<10 PPM

**No poisonous substances and other minerals in proper proportion.**



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