Detail Project Report

Name of Client: - Dream Team Kolhapur

We, Kalpataru Consultant, have successfully installed & commissioned the reverse osmosis plant at Dream Team, Kolhapur, Maharashtra 41002 & We hereby affirm, to the best of our knowledge and belife, based on inspections, obersvations & testing of reverse osmosis plant designed & commissioning by us is substantially completed and operable.

We analyse the water sample from MoEF and NABL accrediated lab and the water sample is comply with required limit as per 10500:2012 and as per lab analysis water is potable and follow drinking water standard. So water is suitable for drinking purpose. Water ananlysis repoert is attached in **Annexure I**

Treatments are as follows

1. Pressure Sand Filter
2. Activated Carbon Filter
3. Cartridge & UV Filter
4. ATM

1. Pressure Sand Filter:-

Pressure Sand Filter is used for removal of suspended solids & turbidity from Water &Waste water. Sand filtration is frequently used and very robust method to remove suspended solids from water. The filtration medium consists of a multiple layer of sand with a variety in size and specific gravity.

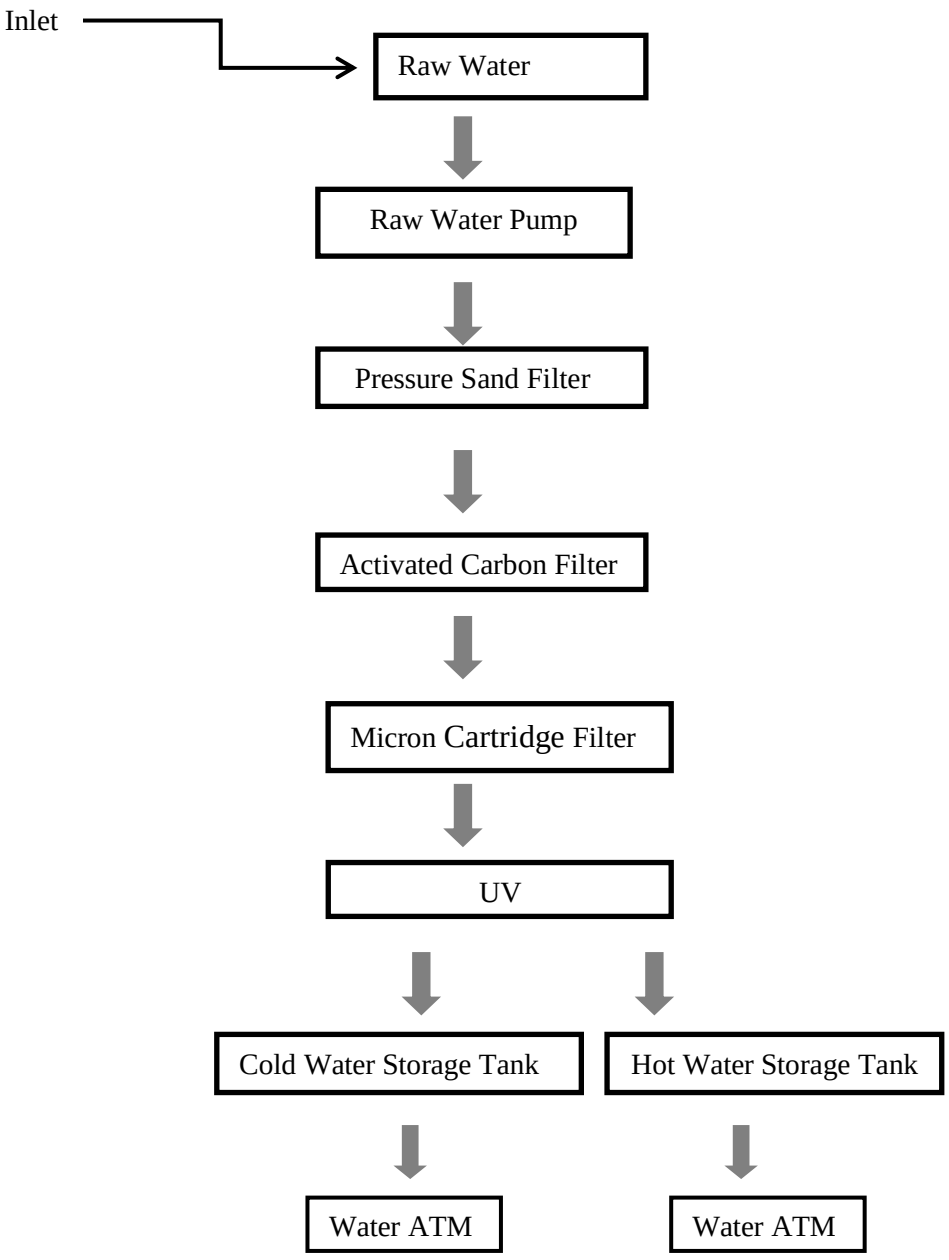
2. Activated Carbon Filter

Activated carbon is also being used to an increasing extent in the treatment of water, including drinking water, groundwater, service water and waste water. Its primary role in this context is to adsorb dissolved organic impurities and to eliminate substances affecting odour, taste and colour and other organic pollutants.

3. Cartridge & UV Filter

This water filter cartridge is suitable to remove sediments, dirt, and rust from water. A cartridge is encased within a housing or a casing and used to remove unwanted particles, pollutants, and chemicals from liquids. The cartridge is exposed to water, liquid or solvent that needs filtration, as it flows inside the housing and passes through the filter element. Cartridge filters can also remove submicron particulates. UV disinfection technology is used for disinfection of bacteria, viruses, molds, algae and other microorganisms

- **Process Flow of Filter Unit**



Annexure I

TEST REPORT		
Name and Address of Customer:- **Dream Team**	**Date of Sampling**	07/01/2022
	Start Date of Analysis	08/01/2022
	End Date of Analysis	14/01/2022
	Sample Details	Drinking water
	Sample Collected By	Kalpataru Consultant
	Sampling Procedure	APHA 1060

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (IS 10500:2012)	Methods
1	pH	7.54	--	6.5 to 8.5	APHA 4500 H+ B, 23rd Ed. 2017
2	Total Dissolved Solids TDS	124	mg/L	<500	APHA 2540 C, 23rd Ed. 2017
3	Total Hardness	100	mg/L	<200	IS 3025 (Part 21)
4	Chloride (as Cl)	17.04	mg/L	<250	APHA 4500 Cl, 23rd Ed. 2017
5	Calcium (as Ca)	25.65	mg/L	<75	IS 3025 (Part 40)
6	Magnesium (as Mg)	8.77	mg/L	<30	IS 3025 (Part 46)
7	Total Coliform	Absent	MPN/100ml	<2	IS 1622:1981
8	E. coli.	Absent	MPN/100ml	<2	IS 1622:1981

Remark-

- **The above water sample is Comply with required limit as per 10500:2012.**
- **For Total Coliform &*E.coli*. <2 can be consider as Zero [Refer IS: 1622 (R.A.1996), Table No.-4].**
- **As per lab analysis water is potable and follow drinking water standard.**
- **Water is suitable for drinking purpose**