6.3.3 Free Drinking Water Provided



6.3.3 - Free drinking water provided

SKCET is committed to providing sustainable, clean, and readily available drinking water for the health and well-being of its staff, teachers, and students. SKCET has placed 86 water coolers, dispensers, and purifiers throughout residence halls and academic buildings. Water quality is examined to ensure that the safe drinking water quality standards are met. To prevent the growth of mould and bacteria, SKCET ensures that all sources of drinking water are kept clean and maintained.

Distribution system

Water from the borewell is pumped to a ground-level tank, then to an overhead tank, where it is stored and distributed across campus. A well-designed pipe network delivers water to every part of the campus. The civil works committee keeps a tight eye on the entire distribution system to ensure that no valuable water is wasted or leaked through joints, valves, etc. The distribution system is maintained by committed workers (plumbers). As soon as problems are identified, prompt action is taken to prevent the loss of water. The Reverse Osmosis (RO) plant delivers drinking water through water containers on a regular basis, based on seasonal need.

Table: Source of Water, Location of Storage and Application

Type of Water	Source	Application
Corporation Water	Municipal Corporation	Drinking application through water dispensers
Bore well water	1. Admin Block – 1 No. 2. C3 Block Back Side – 1 No. 3. Paly Ground Garden – 1 No. 4. New Gest House – 1 No.	Utensil Cleaning, Bathing & Cloth Washing

	5. F Block Right Side – 1 No 6. Ladies Hostel – 2 Nos.	
Rain Water	Collected from 1. Admin Block – 1 No 2. MCA Block – 1 No 3. C4 Block – 1 No 4. C3 Block – 1 No 5. MBA Block – 1 No	Used to increase the ground water level

Table: Details of the Water Utilities, Storage, Motor Capacity and Approximate Run Hours

S. No.	Location	Depth	Motor Capacity	Approx. Run Hours	Storage - I	Storage - II
1.	Admin Block	585 ft	5.5 kW	4 hrs/day	Sump in Admin (25 kL)	OH tank in Admin (30 kL)
			3.7 kW (Sump to OH)		OH tank in Library (10 kL)	
					OH tank in Conv. Centre + Food Court (15 kL)	
2.	C-3 Block	400 ft	3.7 kW	4 hrs/day	Sump near STP (40 kL)	OH tank near STP (40 kL)
			3.7 kW (Sump to OH)			OH tank near C3 & C5 (15 + 15 KL)
3.	New Guest House	250 ft	3.7 kW		Sump near Boys Hostel (80 kL)	OH Hostel Block (9 KL)

			3.7 kW (Sump to OH)	5 hrs/day		OH Hostel G-Block (9 KL)
4.	Boys Hostel	350 ft	7.5 kW	18 hrs/day	Sump near C-Block (35 kL)	OH in A Block (20 kL)
						OH in B Block (20 kL)
						OH in C Block (10 kL x 2)
						OH in D Block (20 kL x 2)
						OH in E Block (10 kL x 2)
5.			5.5 kW (Sump to OH)		Sump near Dining (60 kL)	OH in Dining (30 kL x 2)
6.	Ladies Hostel Bore-1 & 2	585 ft	3.7 kW	8 hrs/day	Sump in Hostel (50 kL)	OH in Mess (30 kL+15 kL)
			3.7 kW			OH in Block-1 (15 kLx 2)
In C3- Block; a main OH tank of 40 kL near STP is available. From that tank; water is being supplied through gravity to nearly seven buildings namely; C1 Block (15 kL), C2 Block (20 kL), C3 Block (30 kL), BS Block (15 kL), ECE block (15 kL), MBA Block (15 kL), CS Block (15 kL).						

Note:

- All the Over Head (OH) tanks are made using cement construction.
- The maintenance team ensure to clean the tank for every six months (Twice in an year)
- Bleaching power is mostly used to clean the inside tank.

Treated Water for Drinking Application:

- The college management is keen on providing uninterrupted, safe and healthy drinking water to all; throughout the year.
- Water dispenser are provided at appropriate places offering the treated RO water for the students (Both Normal and Hot temperature)
- The overhead tanks storing the well water are cleaned at regular intervals and the water management team has been maintaining a cleaning schedule Utensil Cleaning, Bathing & Cloth Washing.

Table: Specifications of RO Plant and Potable Water Distribution System

S. No.	Parameters	Description
1.	Total no. of RO Plant	01
2.	Capacity of each RO Plant	5000 litres per hour
3.	Source of raw water	Groundwater
4.	% of RO & grey water output	40% Treated Water & 60% Grey Water
5.	Usage of grey water	Gardening
6.	Cleaning schedule of carbon & sand filter	Weekly cleaning and Replacement of media once in 3 years
7.	Cleaning schedule of membrane	Cleaning quarterly and Replacement of membrane once in 3 years

8.	Back washing duration & Frequency	Sand Filter and Activated Carbon Filter Backwashing once a day or when differential pressure goes above 0.5 kg/cm$^{2;}$ RO Membrane Automated Backwashing
9.	Functioning of RO Plant	Automatic only
10.	Quality of RO water (TDS Values)	30 to 45 ppm
11.	RO water storage	Storage Tank (Food grade SS tank)
12.	Best Operating Procedures to be done	As per Guidelines on Water Purification By Reverse Osmosis by Ministry of Railways, GoI, (Report No. RDSO/WKS/2015/2) – Welcome Step.



RO plant front view



Filtration units inside RO plant



Filtered water storage unit



Filtered water to cans for distribution



Distribution of water cans from RO plant

WATER DISPENSERS INSIDE THE CAMPUS BLOCKS






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