

6.3.3 FREE DRINKING WATER PROVIDED



6.3.3 - Free drinking water provided

SKCET is dedicated to providing sustainable, safe, and easily available drinking water for the health and well-being of its employees, instructors, and students. In the residence halls and academic buildings, SKCET has installed 86 water coolers, dispensers, and purifiers. Water quality is tested to make sure that safe drinking water quality requirements are fulfilled. SKCET makes sure that every source of drinking water is kept clean and maintained to stop the formation of mold and germs.

Distribution system

Water from the borewell is pumped to a ground-level tank and then to an overhead tank, where it is stored and distributed throughout campus. Water is supplied to every part of the campus via a well-designed pipe network. The civil works committee closely monitors the entire distribution system to make sure that there are no leaks or wastes of valuable water through joints, valves, etc. Devoted employees (plumbers) are in charge of maintaining the distribution system. As soon as issues are found, quick action is made to prevent water waste. The Reverse Osmosis (RO) plant regularly supplies drinking water through water containers in accordance with seasonal demand.

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

Table: Source of Water, Location of Storage and Application





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

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
			5.5 kW		Sump in Admin (25 kL)	OH tank in Admin (30 kL)
			371/1	4	OH tank in Library	(10 kL)
1.	Admin Block	585 ft	(Sump to	-⊤ hrs/dav	OH tank in Conv.	Centre +
			OH)	·····,	Food Court	
					(15 kL)	
						OH tank
	C-3 Block	400 ft	3.7 kW		Sump near STD	near STP
						(40 kL)
2			3.7 kW (Sump to	4		OH tank
۷.				hrs/day	(40 KL)	near C3 &
						C5 (15
			UH)			+ 15 KL)
	New Guest		271/1		Sump near Boys	OH Hostel
3.	House	250 ft	3.7 KVV		Hostel (80 kL)	Block (9 KL)





			3.7 kW	5		OH Hostel
			(Sump to	hrs/day		G-Block (9
			OH)			KL)
						OH in A
						Block (20 kL)
						OH in B
						Block (20 kL)
						OH in C
						Block (10 kL
				18	mp near C- Block	x 2)
4.	Boys Hostel	350 ft	7.5 kW	hrs/day	(35 kL)	OH in D
				nis/day		Block (20 kL
						x 2)
						OH in E
						Block (10 kL
						x 2)
			5.5 kW			
5.			(Sump to			(30 kL x 2)
			OH)			
	Ladies Hostel	585 ft	3.7 kW	8 hrs/day		OH in Mess
					Sump in Hostel (50 kL)	(30 kL+15
6.						kL)
	Bore-1 & 2		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), MCA 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.	Parameters	Description
No.		
1.	Total no. of RO	01
	Plant	
2.	Capacity of each	5000 litres per hour
	RO Plant	
3.	Source of raw water	Groundwater
4.	% of RO & grey	40% Treated Water & 60% Grey Water
	water output	
5.	Usage of grey water	Gardening
6.	Cleaning schedule	Weekly cleaning and Replacement of media
	of carbon & sand	once in 3 years
	filter	
7.	Cleaning schedule	Cleaning quarterly and Replacement of
	of membrane	membrane once in 3 years





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

Drinking Water consumption Details:

S.No	Location	No. of cans	Usage
1.	College Campus	280 Cans (20 L per can)	5,600 L/d(5.6 m³/d ⁾
2.	Boys Hostel	220 Cans (20 L per can)	4,400 L/d (4.4 m ³ /d ⁾
3.	Girls Hostel	140 Cans (20 L per can)	2,800 L/d (2.8 m ³ /d ⁾
4.	Additional stock	1000 L	1,000 L/d (1 m ³ /d ⁾
Total Water Consumption			13,800 L/d or 13.8 m ³ /d







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

Drinking water facility inside the campus blocks







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WATER DISPENSERS INSIDE THE CAMPUS BLOCKS









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