Shoolini University

6 CLEAN WATER AND SANITATION

WATER CONSUMPTION TRACKING

2025



Shoolini University of Biotechnology and Management Sciences, Solan, Himachal Pradesh, India-173229

6.2.1. Water consumption tracking

Shoolini University tracking the volume of water used across the university campus. During the year 2025 (Jan–Dec), the University maintained monthly source-wise records of water received from IPH /main supply, borewells (aquifers), natural sources, and supplying natural spring water.

The University recorded **104,685,440 litres (104,685.44 m³)** of total water received during the year 2025. The recorded sources comprised;

- 54,027,500 litres from IPH/main supply.
- 37,149,640 litres from borewells/aquifers.
- 13,508,300 litres from natural sources.

The average daily water consumption is **285,770.27 litres/day**, which corresponds to **46.57 litres per person per day** based on a campus population of 6,137 FTE.

This per-capita consumption is considerably lower than the National Building Code (NBC) of India standard of 135 litres/person/day, demonstrating the university's efficiency in managing water resources. The significant reduction in water use reflects the university's efficient water management practices and its conscious efforts towards resource conservation.

The University maintains monthly and annual records of these water volumes, providing evidence of systematic measurement and monitoring of water use across the campus. Supporting records include the annual water monitoring report and source-wise monthly water records.

Evidence:

WATER RECEIVED					WATER USED	
MONTH	**IPH (Liters)**	**WATER FROM NATURAL SOURCE (Liters)**	**BOREWELL (Liters)**	**TOTAL WATER RECEIVED (Liters)**	**WATER CONSUMPTION (Liters)**	**RECYCLED WATER (Liters)**
Jan-25	26,92,500	2,53,900	18,86,190	48,32,590	47,68,940	38,10,852
Feb-25	61,85,200	3,64,600	21,80,540	87,30,340	87,30,340	67,27,046
Mar-25	72,54,100	8,59,600	24,37,150	1,05,50,850	1,05,50,850	80,67,826
Apr-25	65,12,500	5,96,400	20,92,160	92,01,060	92,01,060	69,31,872
May-25	60,90,000	6,50,500	19,69,020	87,09,520	87,09,520	66,52,568
Jun-25	21,39,000	3,04,400	12,92,260	37,35,660	37,80,570	29,90,496
Jul-25	30,39,600	52,200	19,84,590	50,76,390	50,73,720	40,53,296
Aug-25	36,48,000	23,95,000	41,24,440	1,01,67,440	1,01,53,940	65,65,755
Sep-25	16,76,600	28,48,300	53,39,460	98,64,360	97,33,150	63,17,588
Oct-25	41,03,800	25,99,100	47,71,890	1,14,74,790	1,14,49,330	82,63,673
Nov-25	57,85,600	15,76,400	50,79,100	1,24,41,100	1,24,07,870	87,77,853
Dec-25	49,00,600	10,07,900	39,92,840	99,01,340	97,46,860	67,22,370
Total	**5,40,27,500**	**1,35,08,300**	**3,71,49,640**	**10,46,85,440**	**10,43,06,150**	**7,58,81,195**

Recycling and Conservation Practices

During 2025, the University recorded 75,881,195 litres (75,881.20 m^3) of recycled water, equivalent to approximately 72.75% of total recorded water consumption through the Sewage Treatment Plant (STP) and reused for non-potable applications such as horticulture, flushing, and campus landscaping. Additionally, the university has adopted drip irrigation systems, which minimize water losses and ensure targeted delivery of water to plants.

Conclusion

Shoolini University maintained systematic water records throughout 2025, documenting **104,685,440 litres received**, **104,306,150 litres consumed** and **75,881,195 litres recycled**. Average consumption was **46.57 litres per person per day**, based on 6,137 FTE, while **recorded water reuse represented 72.75%** of annual consumption. Wastewater treatment, non-potable reuse and efficient irrigation support the University's contribution to SDG 6: Clean Water and Sanitation. These initiatives contribute to SDG 6: Clean Water and Sanitation, while continued monitoring and verification of consumption and recycling records can further strengthen sustainable water-use practices.