

Report on Water Reuse Measurement

SHOOLNI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES, BAJHOL, SOLAN, HIMACHAL
PRADESH-173229



Introduction

Water reuse is an essential sustainability practice, particularly in large institutions like universities, where water consumption can be significant. Water reuse refers to the recycling of treated wastewater for beneficial purposes such as agricultural and landscape irrigation, industrial processes, toilet flushing, and groundwater replenishment. The objective of this report is to determine whether the university measures the reuse of water across its campus and to provide evidence for such practices.

Water Reuse Measurement at the University

WATER RECEIVED						WATER USED		STP
MONT H	IPH	WATER FROM ADVENTURE CAMP TANK	WATER FROM NATURAL SOURCE	BOREWEL L	TOTAL WATER RECEIVED	WATER CONSUMPTION	WATER BOWSER	RECYCLED WATER
Jun-23	49,21,200	4,50,100	9,00,000	24,08,220	86,79,520	1,09,43,210	22,63,690	76,60,247
Jul-23	15,14,300	4,66,200	23,49,700	32,07,410	75,37,610	83,06,480	7,68,870	55,35,614
Aug-23	38,95,700	6,36,800	21,48,400	33,25,620	1,00,06,520	1,15,61,190	15,54,670	81,22,719
Sep-23	58,71,300	10,73,200	20,98,600	29,42,080	1,19,85,180	1,34,07,620	14,22,440	93,85,334
Oct-23	67,99,600	14,20,200	10,81,100	23,99,170	1,17,00,070	1,33,73,180	16,73,110	93,61,226
Nov-23	62,79,300	10,68,600	2,46,000	20,97,120	96,91,020	1,07,26,520	10,35,500	75,08,564



Dec-23	61,70,600	8,78,000	2,48,000	17,72,380	90,68,980	1,04,48,430	13,79,450	72,55,857
Jan-24	36,55,300	13,600	1,86,000	15,79,240	54,34,140	54,72,870	0	36,33,924
Feb-24	56,64,600	11,04,000	1,74,000	18,34,940	87,77,540	1,02,15,910	14,38,370	71,51,137
Mar-24	64,38,600	4,75,300	1,86,000	19,60,280	90,60,180	1,12,52,030	21,91,850	78,76,421
Apr-24	52,11,800	75,000	1,80,000	33,01,740	87,68,540	1,11,71,140	24,02,600	78,19,798
May-24	54,18,702	2,47,700	1,86,000	32,52,960	91,05,362	1,18,58,380	27,53,018	83,00,866
Jun-24	34,60,300	60,000	1,80,000	16,61,780	53,62,080	53,58,252	0	37,50,776
Jul-24	31,94,300	0	1,86,000	10,51,980	44,32,280	44,26,042	0	30,98,229
Aug-24	31,30,700	4,93,400	3,10,000	38,40,970	77,75,070	95,91,400	18,16,330	67,13,980

Note: Deficiency Of Water Being Met Through Water Bowsers



The university actively tracks water reuse. The excel includes several columns that capture the sources of water received, total water used, and—importantly—recycled water. The latter is labelled under the column "Recycled Water (STP)," which indicates water treated and reused via the university's Sewage Treatment Plant (STP).

Evidence of Water Reuse Measurement

The presence of the "Recycled Water (STP)" column demonstrates that the university monitors the quantity of wastewater that is treated and recycled for reuse. This recycled water is measured consistently across different months, as reflected in the dataset.

For example, during the months observed:

- In **June 2023**, the university recycled **7,660,247 liters** of water.
- In **July 2023**, the recycled water amounted to **5,535,614 liters**.
- In **August 2023**, the amount increased to **8,122,719 liters**.
- By **September 2023**, the recycled water further rose to **9,385,334 liters**.

These figures highlight the university's continuous efforts to measure and recycle water, aligning with sustainable water management practices.

Conclusion

The university does measure the reuse of water, as evidenced by the detailed records of recycled water from the STP. This data shows a commitment to sustainable water management by recycling treated wastewater, likely for non-potable uses such as irrigation or toilet flushing. The tracking of this data reflects a structured approach to water conservation, making the university an active participant in sustainable resource management.