

Shiv Nadar Institution of Eminence

Sustainable water extraction on campus

At Shiv Nadar Institution of Eminence, on-campus water extraction is done from borewells, and practices ensure sustainable water extraction. Compliance is ensured with the daily extraction limit provided by Central Ground Water Authority (CGWA). In addition to the ground water, water is also collected through the rainwater harvesting infrastructure installed on campus. Rainwater is collected using the installed infrastructure of the university building for usage.

Sustainable water extraction

- The university sources water through eight authorized borewells on campus using sustainable water extraction technologies.
- The quantity of water extracted is metered, maintained within permissible limits, recorded, and regularly reported to the State Pollution Control Board.
- The emphasis is on water reuse and initiatives for water conservation and rainwater harvesting to move towards water neutrality.

Water Treatment Plant

- A part of the treated water is directly supplied for domestic use in washrooms and for the cleaning activities
- Another portion of the treated water is supplied to be further filtered and used for drinking
- Chemical testing and analysis are done to ensure that all relevant parameters are within the acceptable limits.

Water usage and collection

- Signage is placed across the campus promoting conscious water usage
- Water consumption is monitored and analyzed for usage trends and identification of opportunities for further improvement.
- Treatment of used water in the sewage treatment plant
- Water being treated is measured, and records are maintained.
- Documentation of water usage and reuse is done for carbon footprint computation in the Carbon Footprint Data Sheet.

Reuse of water

- Water is currently being reused for horticulture purposes through tanks and pipes for irrigation
- Measurement of reused water is done by recording the number of tanks sent for horticulture purposes and the amount of water being sent through pipes.

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Process Overview for sustainable water management

Water use and reuse system

