



NETAJI SUBHAS UNIVERSITY

JAMSHEDPUR

(A Unit of Sitwanto Devi Mahila Kalyan Sansthan)

Estd. Under Jharkhand State Private University Act, 2018

Waste water recycling

The wastewater treatment plant at Netaji subhas University represents a pivotal initiative in addressing the growing challenge of water scarcity and environmental sustainability. This facility not only ensures the safe treatment of wastewater generated within the campus but also demonstrates advanced technologies for water reuse and resource recovery. The plant is strategically located within the university campus to promote eco-conscious practices and serve as an educational resource for students.

Objective: To implement the "Reduce, Reuse, Recycle" methodology for liquid waste.

NSU has a specific "Liquid Waste Management" protocol cited in its environmental reports. The university actively converts "waste" water into a resource.

- **RO Reject Water Reuse:** A standout practice at NSU is the management of water from the Reverse Osmosis (RO) purification plants (capacity ~5000 liters). The reject water (brine), usually thrown away, is piped separately and utilized for **watering the campus gardens and plants**.
- **Greywater Usage:** Wastewater generated from washrooms and canteen areas is directed towards landscaping needs where possible, reducing the demand on freshwater for maintaining the university's green cover.

At Netaji Subhas University (NSU), Jamshedpur, Waste Water Recycling is a pivotal aspect of the sustainable ecosystem, aligned with the institution's "Green Campus" mandate. Recognizing that water is a finite resource, the university has implemented strategic measures to minimize wastage through the "Reduce, Reuse, and Recycle" philosophy.

The most significant initiative in this regard is the utilization of **RO Reject Water**. The campus houses high-capacity Reverse Osmosis (RO) plants to provide safe drinking water for students and faculty.

Typically, the concentrated brine (reject water) from such plants is discarded; however, at NSU, this



Registrar
Netaji Subhas University
Jamshedpur, Jharkhand

NSU (CAMPUS): Pokhari, Bhilai Pahari, PS: MGM, Dist: East Singhbhum, Jamshedpur - 831012 Toll Free No: 1800 8899 022

NSU (CITY OFFICE): 4th Floor, Shatabdi Tower, Sakchi, Jamshedpur - 831001

Landline No: 0657 2233 022

Visit: www.nsuniv.ac.in | Mail us on: info@nsuniv.ac.in

NSU Office No: 9835 203 429



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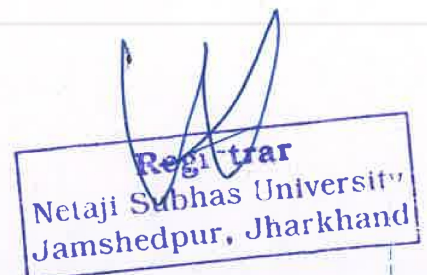
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water is collected and channelled into a dedicated piping network that directly feeds the campus landscaping and gardens.

This practice serves a dual purpose: it responsibly manages the high-TDS (Total Dissolved Solids) output without polluting local drains, and it significantly reduces the demand on fresh groundwater for horticultural needs. By turning potential waste into a valuable resource for maintaining the university's lush green cover, NSU effectively reduces its freshwater footprint, demonstrating a practical and impactful commitment to environmental conservation.



Waste water recycling center





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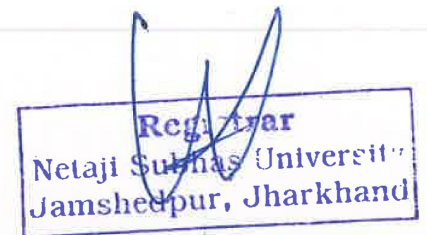
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