

Policy on Water Reuse

Preamble

Water is a vital resource for life, ecosystems, and the functioning of educational institutions. Teerthanker Mahaveer University is committed to promoting water sensitivity, conservation, and reuse. This policy outlines strategies to manage wastewater responsibly, ensuring zero discharge, reducing freshwater dependence, and achieving sustainable water management in alignment with SDG 6, specifically Key Indicator 6.4.1 – Water Reuse Policy.

1. Vision

To cultivate a culture of water sensibility across TMU by promoting sustainable water reuse practices in all aspects of campus operations, research, horticulture, agriculture, and landscaping.

2. Mission

- To optimize water use efficiency and reduce dependency on external water sources.
- To ensure the university's water management practices are sensitive to nature and the environment.
- To implement water reuse strategies in academic, residential, and operational areas, including irrigation of horticulture, agriculture, and landscaping projects.
- To promote awareness among students, staff, and stakeholders about sustainable water practices.

3. Objectives

- Optimize reuse of treated wastewater from Sewage Treatment Plants (STPs).
- Reduce dependence on groundwater sources.
- Ensure water quality standards as per CPCB norms for reuse applications.
- Promote zero liquid discharge (ZLD) principles within the campus.
- Document, monitor, and report water reuse metrics under SDG 6.

4. Scope

This policy applies to all TMU campuses, including:

- Academic and research buildings
- Residential hostels and facilities
- Sports and recreational areas
- Horticulture, agriculture, and landscaping projects



Dr. Vaibhav Rastogi
Joint Registrar
Teerthanker Mahaveer University
Moradabad

5. Principles

- **Environmental Sensibility** – All water reuse initiatives must prioritize minimal impact on nature and maintain ecological balance.
- **Zero-Waste Philosophy** – Promote water recycling and reuse to approach a near-zero discharge campus.
- **Sustainability in Agriculture and Horticulture** – Use reclaimed water for irrigation and landscaping without compromising soil and plant health.
- **Efficiency and Conservation** – Encourage adoption of technologies that maximize water recovery, reduce wastage, and enhance efficiency.
- **Compliance and Monitoring** – Adhere to legal regulations and periodically assess the quality and quantity of reused water.

6. Water Reuse Strategies

- **Rainwater Harvesting:** Collect and store rainwater for reuse in irrigation and landscaping.
- **Wastewater Treatment and Recycling:** Treat greywater from hostels, laboratories, and washrooms for non-potable uses such as horticulture, agriculture, and landscaping.
- **Smart Irrigation Practices:** Use drip irrigation and automated watering systems (sprinklers) to optimize water use in gardens, lawns, and agricultural plots.

8. Implementation Framework

- Operate STP efficiently and maintain water quality as per CPCB guidelines.
- Maintain dual piping systems for potable and non-potable water distribution.
- Conduct periodic water testing (BOD, COD, TSS, pH, microbiological parameters).
- Set a target of 60–80% wastewater reuse across all non-potable applications.
- Integrate rainwater harvesting and groundwater recharge with wastewater reuse.
- Conduct training and awareness programs to promote water conservation and sensibility.

9. Roles and Responsibilities

- **University Administration:** Ensure resources for infrastructure and awareness campaigns.
- **Facilities and Estate Management:** Implement and maintain water reuse systems.
- **Faculty and Students:** Engage in research and projects that promote sustainable water practices.
- **Environment Committee:** Monitor water quality, evaluate policy impact, and suggest improvements.

10. Monitoring & Evaluation

- Maintain detailed records of water consumption, reuse, and savings.
- Conduct quarterly audits of water reuse systems in horticulture, agriculture, and landscaping areas.
- Periodically review and update water reuse technologies and strategies to align with best practices and environmental standards.

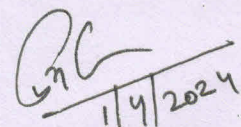

Dr. Vaibhav Rastogi
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11. Alignment with Sustainable Development Goals

This policy contributes directly to **SDG 6 – Clean Water and Sanitation**, particularly Target 6.4: Substantially increase water-use efficiency and ensure sustainable withdrawals and supply of freshwater.

12. Policy Review and Improvement

- The policy will be reviewed every three years to incorporate advancement in technology, regulatory changes, and feedback from the university community.
- Continuous improvement will be guided by environmental impact assessments and water sensibility principles.



Dr. Vaibhav Rastogi
(Joint Registrar)

Dr. Vaibhav Rastogi
Joint Registrar
Teerthanker Mahaveer University
Moradabad