MITS

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(Deemed to be University under Section 3 of UGC Act, 1956)

WATER REUSE AND RECYCLING POLICY

Document Information	Details
Policy number	MITS/SDG/WRP-2024/12 | Revision 01 (2026)
Effective date	September 2026
Review date	September 2028
SDG mapping	SDG 6 — Clean Water and Sanitation

1. Policy Statement

MITS is committed to responsible water use, reduction of avoidable water demand, rainwater harvesting and safe recovery and reuse of treated wastewater for suitable non-potable applications. The institution retains its stated ambition to work towards water neutrality by 2030, with progress to be assessed through measured and documented performance.

2. Purpose and Objectives

- Conserve freshwater through efficient fixtures, prompt leak repair and responsible occupant behaviour.
- Maintain and improve rainwater-harvesting and wastewater-treatment arrangements where installed.
- Promote safe reuse of treated water, especially for landscaping and other technically appropriate non-potable purposes.
- Establish traceable records of water withdrawal, consumption, treatment and reuse to support periodic improvement.
- Build water-conservation awareness among students, employees and the wider community.

3. Scope

This policy applies to water-related activities across MITS-managed premises, including academic and administrative buildings, laboratories, hostels, canteens, staff quarters, gardens, landscaped areas and playgrounds, insofar as those facilities are under institutional operational control.

4. Definitions

Water neutrality: a longer-term goal of avoiding or balancing adverse net water demand through verified conservation, demand reduction, recovery and replenishment measures; progress must be quantified rather than presumed.

Treated wastewater: wastewater that has undergone an appropriate treatment process and is confirmed suitable for its intended reuse. Non-potable use means any purpose other than drinking, cooking or other direct potable applications.

5. Policy Provisions

5.1 Water-use efficiency and leak management

The Site Office/Facilities function shall promote water-efficient taps, flush valves and flow restrictors when installing or replacing fixtures. Leakage, dripping taps, malfunctioning valves and damaged pipelines shall be reported through designated maintenance channels, logged and addressed according to priority. Building occupants shall be encouraged to use only the water necessary for the intended activity.

5.2 Rainwater harvesting

MITS shall protect, inspect, clean and maintain its rainwater-harvesting pits and associated drainage or recharge arrangements. Any rainwater collected or recharged shall be managed with due regard to site conditions, maintenance requirements and applicable public-health safeguards. Capacity figures shall be updated only after verification by the responsible technical section.

5.3 Wastewater treatment and safe reuse

The institution shall maintain wastewater-treatment arrangements, including its sewage treatment plant where operational, and prioritize treated-water reuse for gardening and landscaping when treatment quality and operational arrangements permit. Reuse for any additional purpose must be assessed by the competent technical section against applicable quality and safety requirements. Untreated sewage shall not be used for irrigation, and non-potable distribution shall be kept distinct from drinking-water systems.

5.4 Monitoring, measurement and reporting

The Site Office, supported by the Department of Civil Engineering, shall maintain records of available water sources, meter readings or documented estimates, treatment-plant operation and volumes reused where measurable. Source water, treated-water output and reused-water quantities shall be recorded separately to prevent double counting. Data limitations and estimation methods shall be explicitly disclosed in annual summaries.

5.5 Awareness and participation

Water-conservation notices shall be displayed at appropriate water-use points. The NSS Unit, in coordination with the relevant departments and the SDG Cell, shall facilitate periodic awareness programmes, including activities around World Water Day, subject to the institutional activity calendar. Reports shall identify dates, participants, topics and measurable outcomes, where available.

6. Implementation Responsibilities

Office / unit	Responsibility
Site Office / Facilities / Maintenance	Operation, repairs, source records, fixture replacement and inspection of water infrastructure.
Department of Civil Engineering	Technical advice on harvesting, treatment, water-efficiency improvements and monitoring methods.
NSS Unit	Water-conservation outreach and awareness activities, with documented participation.

SDG Cell	Coordinate annual evidence compilation and review of water-reuse initiatives.
University Administration	Consider budgets, authorise changes and approve policy revisions through competent channels.

7. Monitoring and Evidence

An annual internal review should consolidate water consumption figures, available meter or source records, maintenance actions, STP operating information, treated-water test results where required, rainwater-harvesting maintenance and awareness-event reports. Data should distinguish verified measurements from estimates and identify gaps requiring correction. Targets or achieved water savings shall be published only when supported by comparable evidence.

8. Review and Amendments

This policy shall be reviewed at least once every two years by the responsible offices, coordinated through the SDG Cell, or earlier if institutional requirements or applicable regulations change. Amendments take effect only after approval by the competent university authority. The prior approved policy remains the governing record until this revised draft is formally adopted.

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