



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi

NAAC Accredited with A+ Grade,

NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH), MBA & MCA.



POLICY WASTE DISPOSAL – HAZARDOUS MATERIALS

Policy Number : MITS/SDG/WDHM-2024/10

Effective Date : 23 September 2024

Review Date : 23 September 2026

SDG Mapping:

SDG 12 – Responsible consumption and production.

SDG 15 – Life on land

1. Policy Statement

This policy affirms our institution's commitment that no hazardous waste will be generated. Any waste if at all, classified under hazardous material, generated will be kept to a bare minimum and disposed properly as per the standards.

2. Purpose

- To comply with the hazardous waste management rules, 2016 (governing the handling and disposal of hazardous waste in India).
- To align institutional practices with **UN SDG 12.2.3 – Responsible consumption and production (Policy waste disposal – Hazardous materials)** and **UN SDG 15.4.3 - Life on land (Policy on Hazardous waste disposal)**.

3. Scope

This policy applies to:

- E-wastes
- Wastes generated from the Chemistry laboratory and the Environmental science laboratory
- Demolition waste from the civil engineering department
- Plastic wastes.



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4. Definitions

- **E-waste**, or electronic waste, is discarded electrical and electronic equipment. It encompasses a wide range of devices, from computers and televisions to mobile phones and appliances. E-waste is a growing concern due to the potential for toxic substances to be released into the environment if not handled properly.
- **Demolition waste**, also known as Construction and Demolition (C&D) waste, refers to the debris generated during the demolition of structures, including buildings, roads, bridges, and other infrastructure. It's a significant source of waste, comprising a large portion of total solid waste, and is distinct from municipal solid waste. C&D waste can include a variety of materials like concrete, wood, metal, asphalt, and other building materials.
- **Plastic waste**, refers to plastic objects that haven't been properly recycled, disposed of, or have been illegally dumped. It's a significant environmental issue, accumulating in various habitats and causing problems for wildlife and ecosystems.

5. Policy Provisions

1. MITS, Madanapalle is committed to take care that no hazardous materials are produced by any of its activities. **Experiments designated for the chemistry laboratory curriculum** meant for B.Tech I year classes are designed in such a way that no hazardous wastes are generated from them. The chemical reactions use very dilute reactants and are simple acid base reactions which get neutralized to common salt and water. The same holds good for the Environmental Science Laboratory functioning under the Department of Civil Engineering. The dichrometry and potentiometry experiments in the Chemistry laboratory use very dilute solutions of potassium di chromate. The end product of these titrations are dilute solutions of Cr^{3+} which is not hazardous. We also confirm that no chemicals based on heavy metals are used in our laboratories.
2. Dedicated pits to store waste products are available, making sure that they make no contact with the surroundings.
3. A Sewage Treatment Plant with a capacity to treat 50 kilo litres per day is available within the campus.



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The treated water goes to nurture the flora in the MITS garden.

4. E-wastes and demolish waste are sent to suitable vendors/agencies/plants, after an audit, where they will be recycled and disposed as per the standards. Demolition wastes are used as land fills within the Institute to create pedestrian pathways etc.
5. NSS units occasionally host plastic waste collection programs in which the waste is collected and disposed without harming the environment and without burdening the land fill.
6. All the wastes are audited before their disposal.

6. Implementation & Monitoring

Cells/Departments Responsible	Responsibility
Site office Department of Civil Engineering Computer Center NSS Unit Department of Chemistry	Policy enforcement and awareness drives
NSS Unit	Conducting sensitization campaigns on water conservation.

7. Awareness & Training

Observe “International E-Waste Day” on October 14th of every year.

8. Review and Amendments

This policy will be reviewed every **two years** by the cells responsible for policy enforcement and awareness drives mentioned in S.no. 6. The policy will also be reviewed earlier if necessitated by government guidelines or institutional needs.

Prepared by

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