Criterion VII – Institutional Values and Best Practices

Metric No.	Key Indicator - 7.1 Institutional Values and Social Responsibilities
7.1.3	**Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste :** ● Solid waste management ● Liquid waste management ● Biomedical waste management ● e-Waste management ● Waste recycling system **The institution undertakes various waste management measures to ensure a clean and waste free campus.** **Waste Disposal Initiatives** Different departments of the institution undertake various steps to handle different types of waste: ● **Solid Waste**: Broken glassware, plastic, and paper waste are segregated and disposed off in dedicated dustbins. Dry and wet waste is collected separately. Used/soiled papers are shredded regularly. Discarded bins and containers reused for pots and plants ● **Liquid Waste**: Liquid Wastes and Strong acids are diluted and neutralized before discarding. Concentrated acids are diluted before disposal, and cryogenic chemicals are treated with potassium permanganate to ensure safe disposal. ● **Biomedical and Biological Waste**: Laboratory biomedical waste, including blood samples, are treated with dettol/savlon, taped in red and disposed off separately . Animal waste and bacterial cultures were packed and promptly disposed off on the same day to prevent putrefaction. Laboratory Bacterial cultures are Autoclaved and then disposed. A workshop by BARC technology for solid waste management was organized. ● **E-Waste Management:** ● To address electronic waste responsibly, the institution partnered with non-governmental organisations for its proper disposal. This ensured that e-waste did not end up in landfills, contributing to a cleaner environment. E-Waste collection drive was organised by NSS, Value Lab and Rotaract club. ● **Waste Recycling System:** The institution focused on reducing waste generation. Previous years saw the recycling of canteen waste and garden waste into biodegradable manure. However, in 2020-21, the compost pit could not be maintained due to pandemic conditions. The institution encouraged the reuse of discarded

items like dustbins, containers, and wooden frames, transforming them into useful resources.

- **Hazardous Chemicals and Radioactive Waste**: The Chemistry Department, and SIES management, signed a contract with UDINE for the collection and disposal of expired and unused chemicals. . Radioactive material is maintained as per regulatory safety process and safety guidelines laid down by the Atomic Energy Regulatory Board (AERB), Government of India.

Any Other Relevant Information:

Pandemic-Induced Changes

In the year 2020-21 and 2021-22 the canteen and laboratories are not functional, due to pandemic conditions.. Therefore, the amount of waste generated during these years was negligible.

The Institute has taken initiatives for environmental sustainability:

- **Effective Waste Segregation**

Segregation of dry and wet waste is followed by the institution. Separate dustbins are placed prominently throughout the premises to facilitate this process. This segregation ensures that waste disposal is efficient.

- **Laboratory Waste Management**

Laboratory materials were discarded only after proper segregation. The disposal of unused hazardous chemicals was carried out in collaboration with industries, guaranteeing their safe removal.

Recognition and Awards

The institution was recognized with the "Swachh Vidyalaya Puraskar" in 2021-22, a District Level Award, having a five-star rating with a remarkable score of 104.5%. This reflects the institution's commitment to maintaining an environmentally sustainable campus, even in challenging circumstances.

Conclusion:

These initiatives and achievements ensure a cleaner, healthier environment and also demonstrate the commitment towards waste reduction.

SN	PARTICULARS	LINKS
1	MoU/ Guidelines with government or any other agency /Policy Documents	Atomic Energy Regulatory certificate, UDINE Certificate 7.1.3 Govt DOC.pdf
2	Geotagged Photographs	Waste Management 7.1.3 Geotagged Photos
3	Any other relevant information	Awards, Activities 7.1.3 Awards and Activities