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7.1.4: Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within 500 words)

Solid waste management

Liquid waste management

Biomedical waste management

E-waste management

Waste recycling system

Hazardous chemicals and radioactive waste management

1. Solid Waste Management:

The institution employs various facilities for solid waste management. These facilities include:

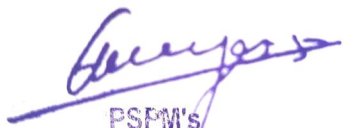
- Segregation Units: These units are equipped with sorting mechanisms to separate recyclable materials like paper, plastic, glass, and metal from non-recyclables.
- Composting Facilities: Organic waste such as food scraps, yard trimmings, and other biodegradable materials are processed through composting facilities to produce nutrient-rich compost for landscaping and gardening purposes.
- Incinerators: For non-recyclable and non-compostable waste, the institution may utilize incinerators with advanced pollution control technologies to reduce the volume of waste and minimize environmental impact.
- Landfills: For waste that cannot be recycled, composted, or incinerated, the institution may operate or have contracts with landfill facilities for safe disposal.


2. Liquid Waste Management:

Liquid waste management facilities in the institution typically include:

- Wastewater Treatment Plants: These plants treat sewage and other liquid wastes to remove contaminants and pollutants before releasing the treated water back into the environment or reusing it for non-potable purposes.




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- Effluent Treatment Units: These units handle liquid waste generated from industrial processes and laboratories, treating it to meet regulatory standards before discharge.

- Oil-Water Separators: In facilities where oil or grease may be present in wastewater, oil-water separators are used to remove these substances before the water undergoes further treatment.

3. Biomedical Waste Management:

Facilities for managing biomedical waste include:

- Segregation Areas: Dedicated spaces for segregating biomedical waste from other types of waste at its source.

- Autoclaves: These machines use steam sterilization to treat infectious biomedical waste before it is sent for disposal.

- Chemical Treatment Units: Certain biomedical waste, such as sharps or chemical waste, may require special chemical treatment to neutralize pathogens or hazardous substances.

- Hazardous Waste Storage: Secure storage areas are designated for storing biomedical waste until it is collected by authorized disposal agencies.

4. E-Waste Management:

Facilities for managing electronic waste include:

- Collection Centers: These centers allow staff and students to safely dispose of electronic devices such as computers, monitors, and cell phones.

- E-Waste Recycling Units: Specialized facilities equipped to dismantle and recycle electronic devices, recovering valuable metals and components while ensuring proper disposal of hazardous materials.

- Data Destruction Facilities: Before recycling, data-containing devices like hard drives are securely wiped or physically destroyed to protect sensitive information.




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5. Waste Recycling System:

The institution likely has a comprehensive recycling system in place, including:

- Bins and Collection Points: Strategically placed bins and collection points for different types of recyclable materials throughout the campus.
- Education and Awareness Programs: Initiatives to educate the community about the importance of recycling and proper waste disposal practices.
- Partnerships: Collaborations with recycling companies or municipal authorities for efficient collection, sorting, and processing of recyclable materials.

6. Hazardous Chemicals and Radioactive Waste Management:

Facilities for managing hazardous chemicals and radioactive waste typically include:

- Chemical Storage Areas: Secure storage facilities equipped with proper containment measures and labeling for hazardous chemicals.
- Radioactive Material Handling Facilities: Specialized areas equipped with shielding and monitoring systems to handle radioactive materials safely.
- Waste Minimization Programs: Initiatives to reduce the generation of hazardous chemicals and radioactive waste through inventory management, substitution with safer alternatives, and process optimization.
- Disposal Contracts: Arrangements with licensed disposal contractors for the safe and compliant disposal of hazardous chemicals and radioactive waste according to regulatory requirements.

By implementing these facilities and systems, the institution can effectively manage various types of degradable and non-degradable waste while minimizing environmental impact and ensuring compliance with regulations.




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