Policy Report on Degradable and Biodegradable Waste Management at ICEEM

- **Introduction:**

ICEEM is committed to sustainable waste management practices that minimize environmental impact and promote resource efficiency. The institution has implemented a comprehensive waste management system that includes the segregation of wet (biodegradable) and dry (non-biodegradable) waste. Utilizing advanced machinery, ICEEM effectively manages and processes these waste streams, contributing to the sustainability of the campus and surrounding community.

- **Aims and Objectives:**

  - **Primary Aim:** The primary aim of ICEEM's waste management policy is to ensure a sustainable and environmentally responsible approach to handling all types of waste generated within the institution. This aim underscores ICEEM's commitment to reducing its environmental footprint, promoting resource efficiency, and fostering a culture of sustainability within the campus community.

  - **Objectives**

1. **Minimize Environmental Impact by Reducing Waste Sent to Landfills**

   - **Objective**: Reduce the volume of waste that ends up in landfills.
   - **Details**: By implementing efficient waste segregation and recycling systems, ICEEM aims to significantly decrease the amount of waste disposed of in landfills. This not only conserves landfill space but also reduces greenhouse gas emissions, leachate production, and other negative environmental impacts associated with landfill sites.
   - **Actions**: The institution employs waste sorting machinery and promotes composting and recycling to divert waste from landfills.

2. **Promote the Segregation of Wet and Dry Waste at the Source**

   - **Objective**: Ensure effective segregation of wet (biodegradable) and dry (non-biodegradable) waste from the point of generation.
   - **Details**: Proper segregation at the source is crucial for efficient waste management. By

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distinguishing between wet and dry waste early in the process, ICEEM enhances the effectiveness of subsequent waste processing and disposal methods.

- **Actions**: ICEEM provides clearly marked bins for wet and dry waste across the campus and educates the campus community on the importance of proper waste segregation.

3. **Utilize Biodegradable Waste for Composting and Agricultural Purposes**
   - **Objective**: Convert biodegradable waste into useful compost to support agricultural activities.
   - **Details**: Biodegradable waste such as food scraps, garden waste, and other organic materials are composted to produce nutrient-rich compost. This compost is then used to enrich the soil on the institution's agricultural land, thereby promoting sustainable agriculture and reducing the need for chemical fertilizers.
   - **Actions**: The institution operates composting units and integrates the use of produced compost into its agricultural practices.
4. **Ensure Proper Disposal and Recycling of Non-Biodegradable Waste**
   - **Objective**: Effectively recycle non-biodegradable waste and ensure safe disposal of non-recyclable materials.
   - **Details**: Non-biodegradable waste, including plastics, metals, and glass, is collected and sent to authorized recycling vendors. This process not only reduces the environmental impact of waste but also supports the recycling industry and promotes the reuse of materials.
   - **Actions**: ICEEM collaborates with certified recycling agencies to ensure that non-biodegradable waste is processed responsibly.
5. **Educate the Campus Community about Sustainable Waste Management Practices**
   - **Objective**: Raise awareness and educate students, faculty, and staff about the importance of sustainable waste management.
   - **Details**: Creating a culture of sustainability requires ongoing education and engagement. By informing the campus community about proper waste segregation, the benefits of recycling and composting, and overall environmental stewardship, ICEEM aims to foster long-term behavioral changes that support sustainability.

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- **Actions**: The institution conducts workshops, seminars, and awareness campaigns focused on waste management and environmental sustainability. Additionally, informative signage and guidelines are provided throughout the campus to reinforce proper waste management practices.

  ICEEM's waste management policy is designed to create a sustainable and environmentally responsible campus. By focusing on minimizing landfill waste, promoting segregation, utilizing composting, ensuring proper recycling, and educating the community, ICEEM demonstrates its commitment to environmental stewardship and sustainability. These objectives collectively contribute to a cleaner, greener, and more sustainable campus environment.

Facilities and Practices:

- **Segregation of Waste:** ICEEM employs a state-of-the-art machine designed to separate wet (biodegradable) waste from dry (non-biodegradable) waste. This machine ensures efficient and effective segregation, which is crucial for subsequent processing and disposal.
  - **Wet Waste (Biodegradable)**: Includes food scraps, canteen waste, garden clippings, and other organic materials.
  - **Dry Waste (Non-Biodegradable)**: Includes plastics, metals, glass, and other recyclables.
- **Processing of Wet Waste:** Wet waste is collected and transported to the composting facility within the campus. The following steps are involved in processing wet waste:
  - **Composting**: The biodegradable waste is processed in composting units to produce high-quality compost. This compost is used to enrich the soil of nearby agricultural land owned by the institution.
  - **Agricultural Use**: The compost produced is utilized on the institution's agricultural land, which supports various farming activities. This practice not only recycles organic waste but also enhances soil fertility and agricultural productivity.

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- **Disposal and Recycling of Dry Waste:** Dry waste is managed through a systematic collection and recycling process:
  - **Collection**: Segregated dry waste is collected in designated bins placed across the campus.
  - **Recycling**: The collected dry waste is sorted and sent to authorize recycling vendors who process the materials for reuse. This reduces the volume of waste sent to landfills and promotes the recycling industry.

- **Additional Facilities**
  - **Educational Programs:** ICEEM regularly conducts workshops and seminars to educate students and staff about the importance of waste segregation, recycling, and sustainable waste management practices. These programs aim to foster a culture of environmental responsibility within the campus community.
  - **Monitoring and Evaluation:** The institution has established a monitoring system to regularly evaluate the effectiveness of its waste management practices. This includes tracking the volume of waste generated, segregated, composted, and recycled, as well as assessing the quality of compost produced.

ICEEM's waste management facilities and policies demonstrate a robust commitment to environmental sustainability. By effectively segregating, processing, and utilizing both wet and dry waste, the institution not only minimizes its environmental footprint but also contributes to local agricultural productivity. Through ongoing education and monitoring, ICEEM ensures continuous improvement in its waste management practices, fostering a cleaner and greener campus environment.

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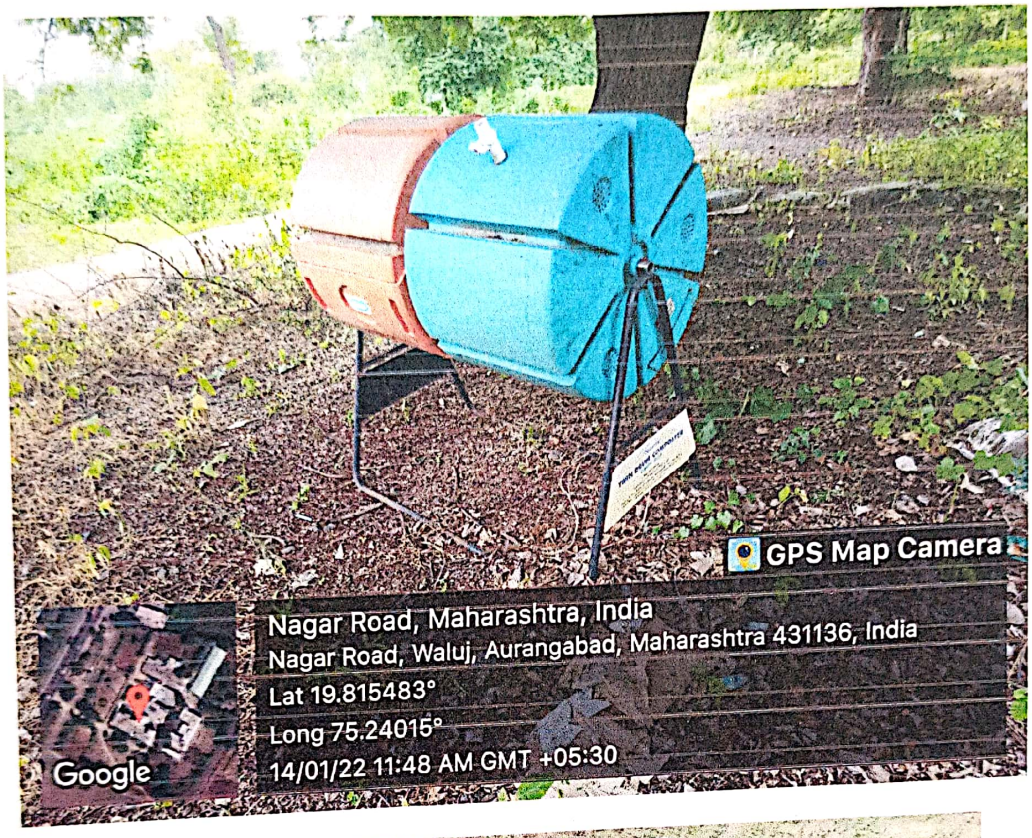
Evidence of Activity:



Drum Composter

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Biogas Plant

IQAC Coordinator

Director

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