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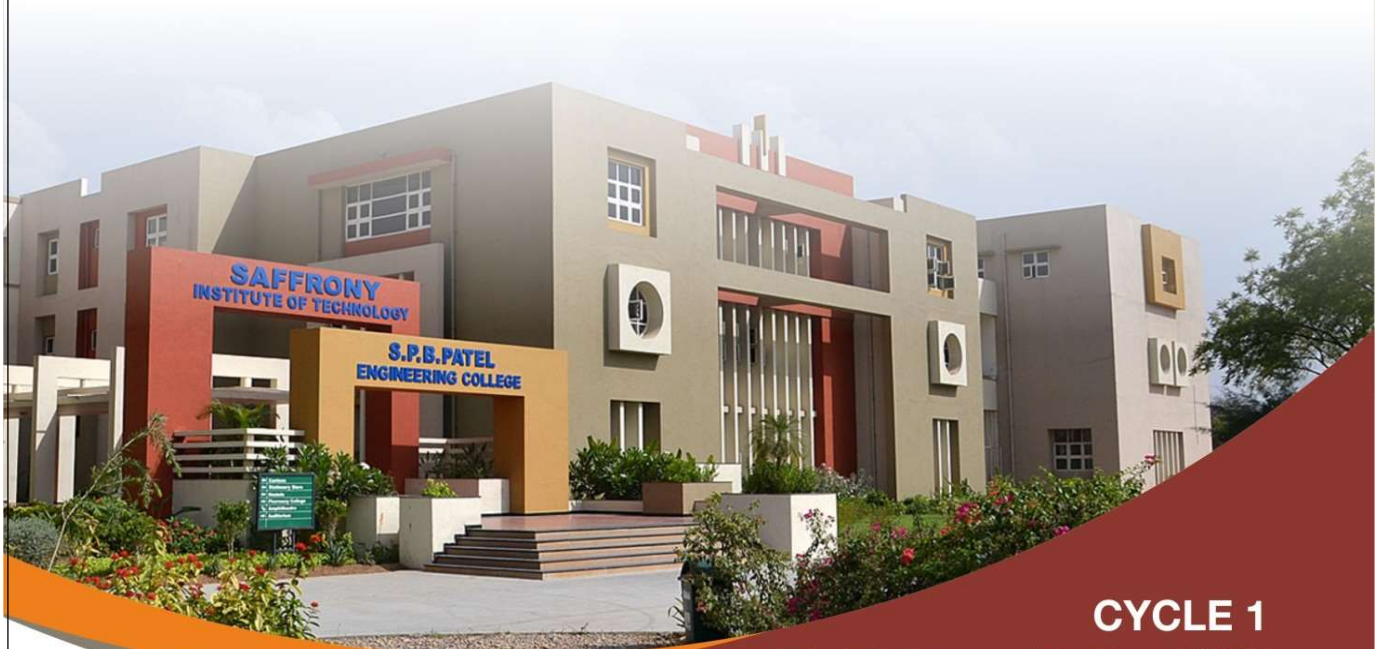


CYCLE 1
NAAC Accreditation 2023

Management of the various types of degradable and non-degradable waste

Submitted to

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

S.P.B. PATEL ENGINEERING COLLEGE
SAFFRONY INSTITUTE OF TECHNOLOGY CAMPUS

Contents

Management of the various types of degradable and non-degradable waste

Waste management poses a significant challenge for any institution, but at Saffrony Institute of Technology, we prioritize waste reduction to facilitate easier management. Waste management has always posed a significant challenge for any institution, but at Saffrony Institute of Technology, we firmly believe in the principle of generating less waste. By adopting sustainable practices and fostering a culture of environmental responsibility, we aim to minimize waste generation, making it easier for us to manage our resources effectively. Central to our waste management strategy is the effective handling of both degradable and non-degradable waste. Here's how we manage these waste types and their importance for our institute.

I. Degradable Waste Management:

Degradable waste refers to materials that can decompose naturally over time, such as food scraps, paper, and yard waste.

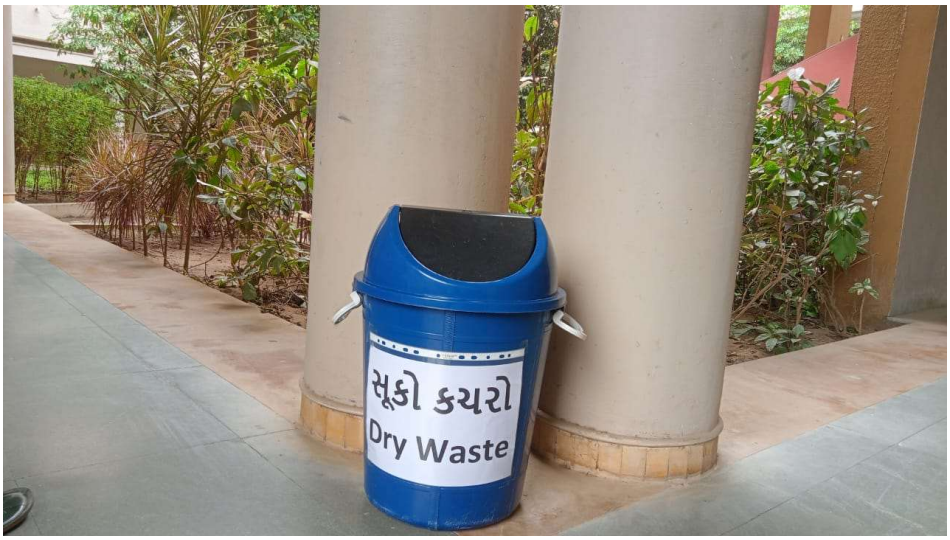
At Saffrony Institute, degradable waste is stored separately in designated dry waste bins, identifiable by their blue color.

Importance:

Separating degradable waste helps prevent contamination and promotes more efficient recycling processes.

Proper management of degradable waste reduces the environmental impact associated with landfilling and incineration.

By composting organic waste, we can produce nutrient-rich compost that can be used to enrich soil in campus gardens and landscaping projects, fostering sustainability.



II. Biodegradable Waste Management:

Biodegradable waste specifically refers to organic matter that can be broken down by microorganisms, including food waste, plant materials, and certain types of packaging.

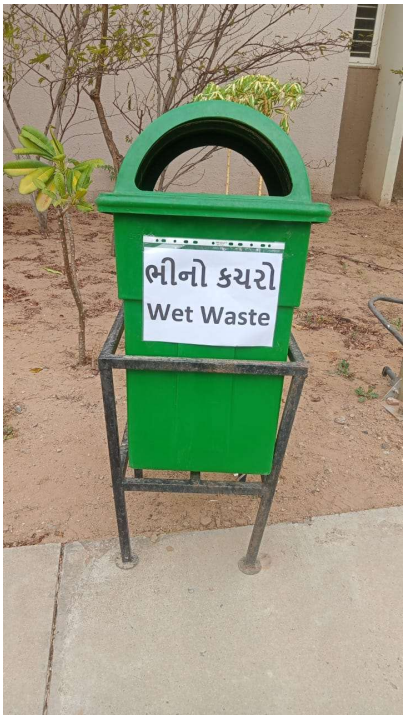
In line with our commitment to sustainability, biodegradable waste is collected separately in green-colored bins across the institute.

Importance:

Segregating biodegradable waste from other types of waste facilitates its decomposition in controlled environments, such as composting facilities.

Composting biodegradable waste reduces methane emissions, a potent greenhouse gas, thus mitigating our institute's carbon footprint.

Utilizing biodegradable waste for composting aligns with our ethos of circular economy principles, where resources are reused and recycled to minimize waste generation.



III. Food Waste Disposal at the Canteen: A Sustainable Approach

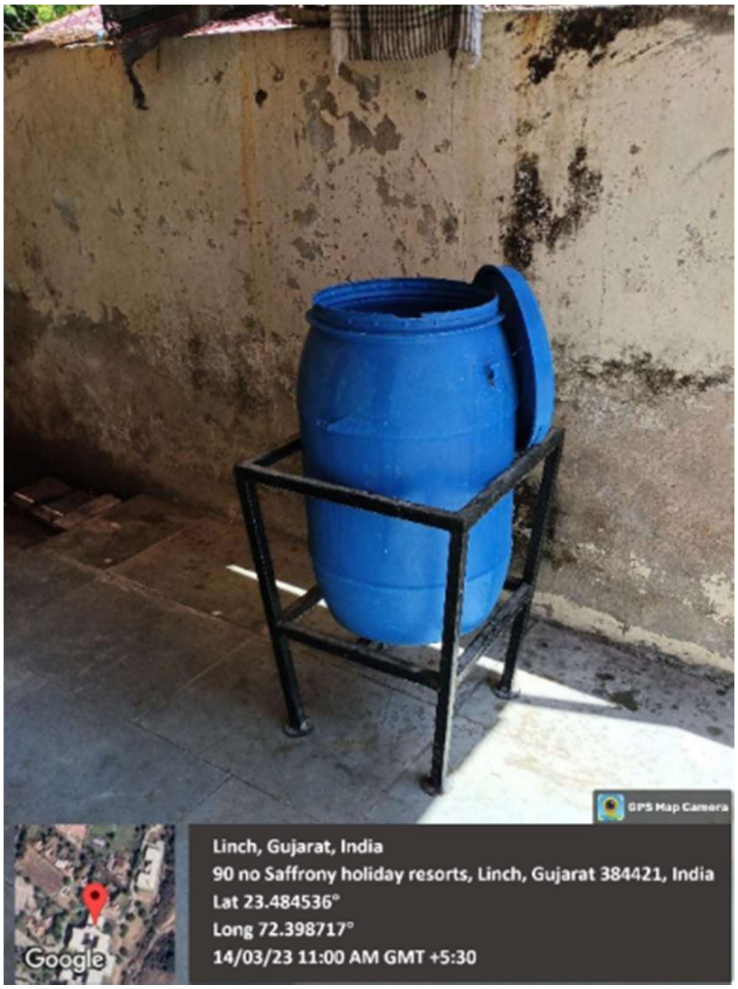
At Saffrony Institute of Technology, we recognize the importance of responsibly managing food waste generated in our canteen. Rather than allowing leftover food to go to waste, we have implemented a sustainable approach to disposal.

After the canteen operating hours, any leftover food is collected in designated bins. These bins are specifically allocated for food waste and are separate from other waste streams to prevent contamination. Once collected, the food waste undergoes careful processing.

Instead of discarding it, we have established a partnership with local farmers and animal shelters. The leftover food is collected and repurposed as feed for cattle and other livestock. This practice not only reduces food waste but also provides a valuable resource for local agriculture.

By diverting food waste from landfills and converting it into animal feed, we contribute to the reduction of greenhouse gas emissions associated with organic waste decomposition. Furthermore, this initiative fosters a sense of community engagement and demonstrates our commitment to sustainability beyond the campus boundaries.

Through such innovative solutions, we strive to minimize our environmental footprint while actively contributing to the well-being of our local community. This approach aligns with our ethos of responsible resource management and underscores our dedication to creating a more sustainable future.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IV. Decomposition Pit for Waste Management: A Sustainable Solution

In our ongoing commitment to sustainable waste management practices, Saffrony Institute of Technology has implemented a novel approach: the decomposition pit. This initiative serves as a proactive solution to effectively manage organic waste generated within our campus premises.

The decomposition pit functions as a designated area where organic waste, such as food scraps, garden trimmings, and biodegradable materials, is collected and deposited. Through the natural process of decomposition, facilitated by microorganisms present in the soil, organic waste undergoes breakdown and transformation into nutrient-rich compost.

This sustainable solution offers several benefits:

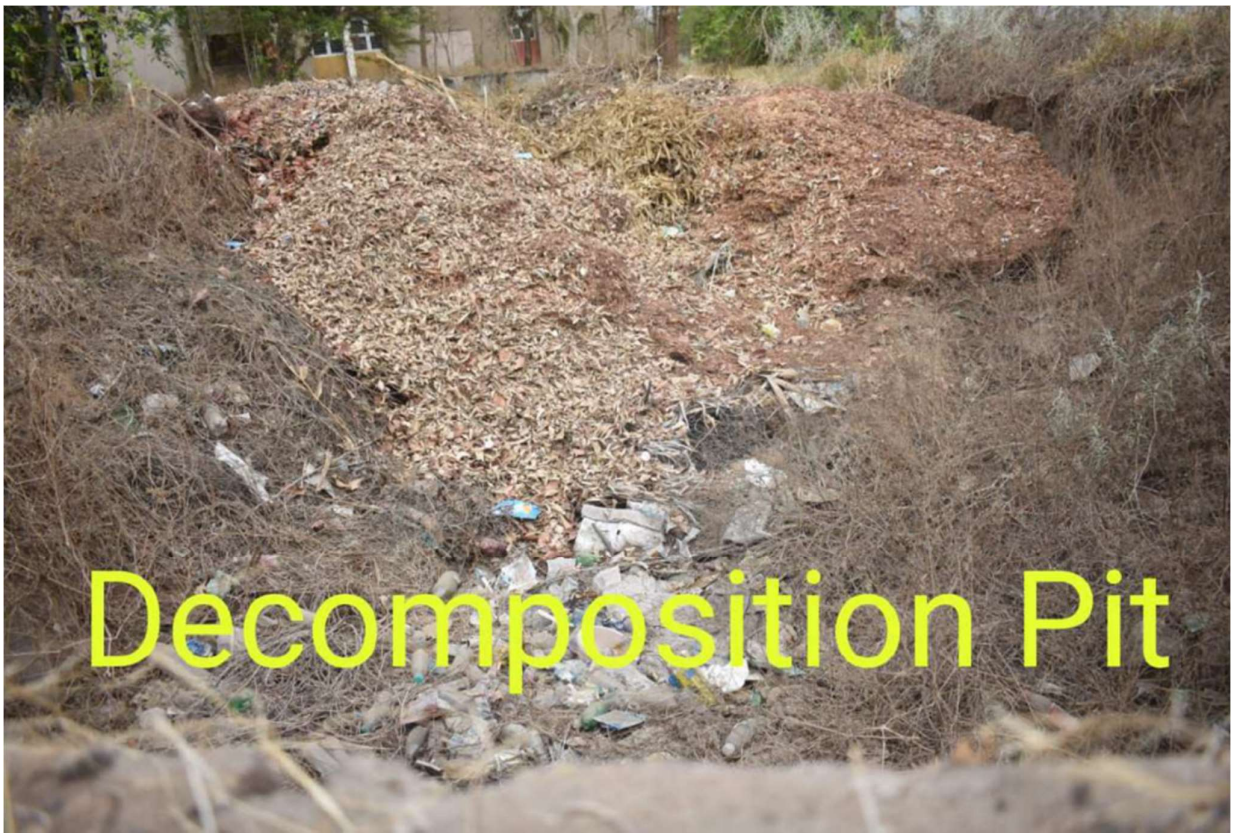
1. Waste Reduction: By diverting organic waste from traditional disposal methods, such as landfilling or incineration, the decomposition pit significantly reduces our institute's environmental footprint.

2. Resource Regeneration: The resulting compost serves as a valuable resource for enriching soil quality in campus gardens, landscaping projects, and agricultural endeavors.

3. Educational Opportunity: The decomposition pit also serves as an educational tool, providing students with hands-on learning experiences about the importance of organic waste management and the principles of composting.

4. Community Engagement: Through outreach and awareness initiatives, we involve the broader campus community in the process, fostering a culture of environmental stewardship and responsibility.

By embracing the decomposition pit as a sustainable waste management solution, Saffrony Institute demonstrates its dedication to environmental sustainability and responsible resource management. Through continued innovation and collaboration, we aim to further enhance our waste management practices and inspire positive change within our institution and beyond.



By implementing these measures for managing degradable and biodegradable waste, Saffrony Institute of Technology demonstrates its commitment to environmental sustainability and responsible waste management practices. Through education and engagement initiatives, we strive to instill a culture of waste reduction and resource conservation among our students, faculty, and staff, ensuring a greener future for generations to come.