



SIENA COLLEGE OF PROFESSIONAL STUDIES

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WASTE MANAGEMENT POLICY



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INTRODUCTION

Effective waste management is a crucial aspect of environmental sustainability and responsible campus operations. Siena College recognizes its responsibility to manage waste efficiently, reduce its environmental footprint, and promote sustainable practices among students, faculty, and staff. Higher education institutes play a vital role in the field of environment and sustainability, considering this Siena College of Professional Studies, Edakochi, shall pay considerable attention to minimize the production of waste on the campus. This policy envisages to guarantying the moral, social and legal responsibilities of the college in creating an environment-friendly and sustainable world devoid of waste and exploitation of nature. This Waste Management Policy Report outlines our waste management policies, with a specific focus on the pipe composting method implemented on our campus.

WASTE MANAGEMENT POLICY STATEMENT:

Siena College is committed to sustainable waste management practices that align with our broader environmental policy objectives. Our waste management policy encompasses the following key principles:

- **Waste Reduction:** We aim to minimize waste generation at the source by promoting practices that reduce, reuse, and recycle materials.
- **Efficient Waste Collection:** Siena college is dedicated to establishing efficient waste collection systems to ensure the proper separation and handling of different types of waste.
- **Composting and Organic Waste Management:** We will actively promote composting as a method for managing organic waste, with a particular focus on the pipe composting system.

OBJECTIVES

- Create consciousness among faculty and students about the ways in which waste is generated and the means by which they can reduce waste generation and manage the waste they produce.
- To provide appropriate training for faculty, staff, students and other stakeholders on waste management issues.
- Orienting them to adopt appropriate technologies for processing and managing solid, liquid and e-waste.
- Follow the five "R" principle of reduce, reuse, recycle, refuse and regenerate
- To encourage holistic approach of waste management in the campus.
- Educate and create awareness to the community about proper waste management through extension activities.

So, policy is framed to maintain and manage the waste generated during college hours. This policy envisages to guarantying the moral, social and legal responsibilities of the college in creating an environment-friendly and sustainable world devoid of waste and exploitation of nature. This policy is a guidance document to the teaching and non-teaching faculties, and students to behave responsibly in the production of waste, waste segregation, storage, handling, transport and disposal.

SCOPE

This document provides information on the procedure being followed on waste management in the College

APPLIES TO

All the teaching and non-teaching staff, and students.

SOLID WASTE MANAGEMENT

Solid Wastes, which may cause severe health problems, can be categorized into two types, Biodegradable and Non-Biodegradable. Biodegradable waste includes garden waste, food waste, canteen waste and waste from toilets etc. Non-Biodegradable waste includes plastic, tin, glass, bottle etc. that is likely to be a threat to the health of the environment.

Policies adopted

- Bio-degradable wastes are effectively converted to fertilizer by composting inside the college campus. Implementing pipe composting on the college campus presents a sustainable solution for organic waste management. It promotes waste reduction, produces nutrient-rich compost, and fosters a culture of environmental stewardship among students, faculty, and staff. Through the pipe composting initiative, our college contribute to a greener and sustainable future
- Non bio degradable waste including plastic, tin, glass etc. are collected in different coloured bins placed in the campus premises.
- The students are encouraged to discard wastes to the respective baskets based on the type of solid waste.
- Dustbins are be kept in each college premises, class rooms, ladies' room, staff room, laboratories and library of the college.
- Cleanliness drive in campus for collection of garbage and solid waste by NSS & Nature Club of the college is done periodically.
- Maximized use of paperless technology is adopted i.e., sharing of data /Lecture notes on google class room, etc.
- All one-side used papers are utilized for routine printing activities.
- Paper waste collected from various sources is fed into the incinerator. The residue from the incineration process is collected and managed separately.

Pipe Composting Method:

The college has implemented a pipe composting system on the campus as a sustainable solution for managing organic waste. This system involves the use of specially designed pipes to compost organic waste materials such as food waste, and garden debris. The composting process take place within the pipes, providing an efficient and eco-friendly method for converting organic waste into nutrient-rich compost. The compost produced through this method is high in nutrients and can be used to enrich campus gardens and landscaping.

Implementation of Pipe Composting:

The college has installed pipe composting units at strategic locations on our campus. These units are equipped with clear signage and instructions for proper waste segregation and disposal. Campus residents, including students, faculty, and staff, are encouraged to use these units for organic waste disposal.

Monitoring and Maintenance:

To ensure the effectiveness of the pipe composting system, Siena College has established a maintenance schedule, which includes regular inspections, turning of compost, and troubleshooting any issues that may arise. The Nature Club of the college is responsible for overseeing the proper functioning of the composting units.

LIQUID WASTE MANAGEMENT

Liquid waste refers to any form of waste that is predominantly in a liquid state. It includes both hazardous and non-hazardous liquids generated from various sources.

Policies adopted

- All waste water lines from toilets; bathrooms etc. are connected with Municipal drainage mains. Septic tank effluent from various sanitary blocks is connected to municipality drainage.
- Canteen wastewater shall be managed through sedimentation pits which are cleared periodically of the waste and the rest of the water shall pass into the traditional drain.

E-WASTE MANAGEMENT

E-waste is a general category for electronic products facing displacement or replacement that are hazardous due to the toxic metals present with their internal materials, coatings and glass. E-waste contains metals and other materials that can be hazardous to human health and the environment if they are not properly managed. Electronic waste includes damaged and unserviceable CD's, printers, monitors, hard disc, scanners, calculators, battery, mouse, Key pad, CPU, Xerox machine etc.,

Policies adopted

- Before disposing of e-waste, we consider options for reducing or reusing the devices.
- The college shall identify and collect all E-Waste generated on the campus premises.
- E wastes should be placed in the separate room.
- E-wastes should not be thrown in the dustbin.
- After the collection of E-wastes we contact the authorized e-waste recycling facility that accept electronic devices. The facilities employ environmentally responsible methods to dismantle, separate, and process e-waste components for recycling or proper disposal.
- Before giving to the e-waste recycling facility, we ensure that all personal and sensitive data is securely erased from electronic devices before disposal.

EDUCATION AND OUTREACH

We are committed to educate the campus community about the benefits of waste management including pipe composting and providing guidance on its proper use.

This includes:

- Conducting workshops and training sessions on waste segregation and composting practices.
- Distributing educational materials and guidelines on composting.
- Promoting awareness through campus events and campaigns.

CONCLUSION

Siena College of Professional Studies recognizes that effective waste management, including the innovative use of pipe composting, is integral to our commitment to environmental sustainability. We are dedicated to reduce our environmental impact, conserving resources, and promoting responsible waste management practices among all members of our campus community.

This Waste Management Policy Report serves as evidence of our commitment to responsible waste management and our contribution to building a greener and more sustainable future for our institution and the wider community.