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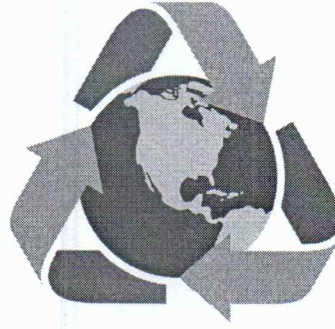
Guru Ghasidas Vishwavidyalaya, Bilaspur

A Central University Established by the Central University Act 2009

Waste Management Policy for Guru Ghasidas Vishwavidyalaya

Promoting Sustainable Practices and Responsible Waste Management

(Guidelines for Effective Waste Management and Stakeholder Engagement)



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CONTENTS

1. Preamble	3
2. Introduction	3
3. Policy Statement	4
4. Policy Objective	4
5. Waste Segregation and Management	5
6. Action Plan	6
7. Stakeholder Engagement	7
8. Policy Review	7
9. Conclusion	7

1 Preamble

The university's commitment to a clean environment led to the creation of the "Waste Management" policy. The university is aware of the importance of a sustainable approach to environmental protection as well as ensuring a secure and healthy working environment for students, non-teaching staff, and other workers. The university focuses on proper waste segregation at the source and, if practical, the conversion of waste into other usable products before disposal.

It has been realized that eco-friendly practices and technologies should be used to cut down on waste. This would be in accordance with the Sustainable Development Goals (SDGs) and any government-imposed environmental rules and policies. This policy's mission is to set goals and deadlines for appropriate action plans and to make it easier for them to be implemented from time to time.

2 Introduction

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Guru Ghasidas Vishwavidyalaya (A Central University) is committed to transforming lives and serving society through the pursuit of excellence in teaching, innovation, lifelong learning, cultural enrichment, and outreach services. The university recognizes the environmental impact of the products and services we use, our ecological footprint, and the waste impact on our local and global environment. This waste management policy is designed to provide guidelines for sustainable and holistic waste management at Guru Ghasidas Vishwavidyalaya, which will help in reducing its environmental footprint and provide a safe and healthy work environment for teaching and non-teaching employees, students, and visitors. The full range of waste-related operations, such as their generation, sorting, storage, handling, and transportation from their point of origin to their final disposal site, are included in waste management.

The Vishwavidyalaya's Waste Management Policy is based on a 'waste management hierarchy' which emphasizes a 5R's approach, which stands for Refuse, Reduce, Reuse, Repurpose, and Recycle. The Vishwavidyalaya accord top priority to waste reduction at source and encourage cyclical use of resources with disposal as the last resort. The '6Rs' principle, elaborated in the Waste Management Guidelines, is adopted with reference to the developments in waste management that are relevant to a university setting. We are committed to putting in place effective waste management that exceeds the legislative and regulatory requirements. We emphasize implementing procedures to prevent immediate and future pollution or harm to health and continually improving our performance.

3 Policy Statement

- 3.1 It is the establishment of a campus that is environmentally sustainable and has clear adoption and trash management policies.
- 3.2 When providing waste management services on campus, the University will adhere as closely as is practical to the best environmental practices.
- 3.3 This policy's objective is to promote the idea of "Zero Waste" with the goal of reducing the impact of the numerous wastes produced on campus using the 5R's approach, which stands for Refuse, Reduce, Reuse, Repurpose, and Recycle.
- 3.4 The University will inform all students, faculties, staff members, stakeholders, etc. of this policy.
- 3.5 This policy is in effect for all waste-producing operations, including those of the personnel, canteens, guest house, etc.

4 Policy Objectives

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- 4.1 **Minimize waste generation:** Promote waste reduction strategies, including awareness campaigns, education, and the adoption of sustainable practices, to minimize waste generation within Guru Ghasidas Vishwavidyalaya.
- 4.2 **Facilitate proper waste segregation:** Establish a comprehensive waste segregation system to ensure the separation of biodegradable waste, recyclable dry waste, sanitary waste, and hazardous waste at the point of generation.
- 4.3 **Promote recycling and resource recovery:** Encourage the implementation of recycling programs to maximize resource recovery from recyclable dry waste and minimize its disposal in landfills.
- 4.4 **Ensure safe and environmentally friendly disposal of sanitary waste:** Establish protocols for the safe collection, treatment, and disposal of sanitary waste to prevent any health or environmental hazards.
- 4.5 **Implement proper handling and disposal of hazardous waste:** Develop protocols for the safe handling, storage, transportation, and disposal of hazardous waste generated within the university premises.
- 4.6 **Involve stakeholders:** Engage students, faculty, staff, waste management authorities, and the local community in waste management initiatives, fostering a sense of responsibility and collective action.

5 Waste Segregation and Management

In order to proper segregation and management of waste, the generated waste was divided into different categories. The segregation and management plan for each has been deliberated in detail below.

5.1 Biodegradable Waste

- i. Encourage the implementation of an on-site composting facility to manage biodegradable waste generated within the university.
- ii. Provide separate bins or containers for the collection of biodegradable waste and educate stakeholders on the importance of proper segregation.
- iii. Utilize the compost produced for campus gardening or donate it to local farmers or community gardens.

5.2 Recyclable Dry Waste

- i. Establish a system for separate collection, storage, and recycling of dry waste, including paper, plastics, metals, and glass.

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- ii. Install clearly labelled and colour-coded bins for different types of recyclable dry waste at convenient locations across the campus.
- iii. Collaborate with authorized recycling agencies or establish tie-ups with local recycling units to ensure proper dry waste recycling.

5.3 Sanitary Waste

- i. Provide separate bins for sanitary waste collection in restrooms and other relevant areas.
- ii. Ensure the proper disposal of sanitary waste using eco-friendly and hygienic methods, such as sanitary waste incineration or approved sanitary waste disposal systems.
- iii. Conduct regular awareness programs to educate stakeholders on the safe disposal of sanitary waste and the importance of maintaining proper hygiene.

5.4 Hazardous Waste

- i. Develop protocols for the identification, segregation, and proper storage of hazardous waste, such as chemicals, batteries, and electronic waste.
- ii. Collaborate with authorized agencies or recyclers to handle the collection, transportation, treatment, and safe disposal of hazardous waste.
- iii. Conduct regular training sessions to educate stakeholders on the proper handling and disposal of hazardous waste.

Table 1 below may be used as a guideline for waste segregation and management.

Table 1. Waste Segregation and management plan

Category	Description	Disposal method	Pick-up timings
Biodegradable waste	<ul style="list-style-type: none"> • Vegetable and fruit peels. • Leftover food. • Tea leaves, coffee powder. • Fruit kernels and seeds. • Pencil shavings, match sticks. • Flowers and leaves 	Collect in the bin for biodegradable waste.	Collection every morning. (Biodegradable waste)
Non-biodegradable /Recyclable (Dry)	<ul style="list-style-type: none"> • Plastic, Paper, Glass. • Thermocol, Cardboard. • Metal, Fabric, Leather. • Packaging materials. 	<ul style="list-style-type: none"> • Collect in the bin for non-biodegradable waste. • Keep bin outside door. 	Collection every morning. (Non-biodegradable waste)
Sanitary waste	<ul style="list-style-type: none"> • Diapers, Sanitary Napkins. 	Securely wrap in brown/plastic bag or	Collection every morning.

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	<ul style="list-style-type: none"> • Condoms. • Any material contaminated with blood. 	<p>newspaper and mark red cross.</p> <ul style="list-style-type: none"> • Collect in the SAME bin as recyclable waste. 	(Non-biodegradable waste)
Hazardous waste	<ul style="list-style-type: none"> • Bulbs, CFLs, tube lights. • Batteries, Electronics. • Broken Glass, blades, scissors. • CDs, mobiles, chargers, USB. • Medical Waste, Chemicals, etc 	Keep them in your house separately.	<ul style="list-style-type: none"> • Collected once a month through special drives by Engineering Section (ES) • Personally dispose of in ES designated areas.

6 Action Plan

- 6.1 Establish a Waste Management Committee comprising representatives from different departments, faculty, students, staff and persons associated with waste management to oversee waste management activities and ensure policy implementation. The duration of the abovementioned committee shall be fixed for two years.
- 6.2 Conduct regular waste audits to assess waste generation patterns, identify areas for improvement, and track progress.
- 6.3 Develop a waste management plan outlining specific targets, responsibilities, and timelines for waste reduction, segregation, recycling, and disposal activities.
- 6.4 Conduct awareness campaigns, workshops, and training programs to educate stakeholders about waste management practices and their roles in implementing the policy.
- 6.5 Implement a system for monitoring and reporting on waste management practices, including the establishment of metrics to measure the university's performance in waste reduction, recycling rates, and proper waste disposal.
- 6.6 Foster collaborations with waste management authorities, NGOs, and local community organizations to exchange knowledge, share best practices, and support waste management initiatives.

7 Stakeholder Engagement

- 7.1 Encourage active participation of students, faculty, and staff in waste management initiatives through student clubs, eco-clubs, and other community engagement activities.

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- 7.2 Conduct regular awareness campaigns, seminars, and workshops to sensitize stakeholders about waste management, sustainable practices, and their role in implementing the policy.
- 7.3 Involve the local community in waste management efforts through collaboration, awareness programs, and joint clean-up drives.

8 Policy Review

This waste management policy should be reviewed periodically, at least annually, to assess its effectiveness, consider stakeholder feedback, and incorporate any regulatory changes or emerging best practices in waste management.

9 Conclusion

This waste management policy for Guru Ghasidas Vishwavidyalaya outlines guidelines for effective waste management, including the management of biodegradable waste, recyclable dry waste, sanitary waste, and hazardous waste. By implementing these measures and actively engaging stakeholders, the university can contribute to environmental sustainability, promote a culture of responsible waste management, and create a cleaner and healthier campus environment.

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