

अपशिष्ट प्रबंधन नीति

WASTE MANAGEMENT POLICY



श्री लाल बहादुर शास्त्री राष्ट्रीय संस्कृत विश्वविद्यालय

(संसद के अधिनियम द्वारा स्थापित एक केन्द्रीय विश्वविद्यालय)

SHRI LAL BAHADUR SHASTRI NATIONAL SANSKRIT UNIVERSITY

(A Central University by an Act of Parliament of India)

नई दिल्ली New Delhi -110016 (भारत/India)

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1. Summary

This document outlines the University's Waste Management Policy. It details the university's arrangements to minimise solid and liquid waste production, and improve their segregation, collection, transport, safe disposal, recycling, wastewater treatment, reuse and safe disposal of effluent generated in the university. In the context of this policy, wastes include domestic and institutional waste (paper, plastic, recyclable materials, cardboard, food waste, glass, metals), leaves, construction waste, plastics, hazardous waste and wastewater. The policy shall inter alia include technology options for waste to compost and waste to energy with due consideration for the environment.

2. Waste Management Policy Statement

The University is committed to manage waste produced in the campus in an environmentally safe, cost-effective and timely manner in line with current environmental legislation. The university shall comply with the Waste Management Rules as prescribed by the Govt. of India and Govt. of NCT Delhi and the guidelines of the Municipal Corporation of Delhi (MCD) issued from time to time.

3. Scope

The scope of this policy shall cover the solid (including papers, plastics, e-waste, and hazardous waste) and wastewater generated on the university's campus. It shall apply to all employees (faculty and staff) and their family members residing in the campus, students, guests of the university and others visiting the campus.

4. Introduction

This Waste Management Policy forms a part of the SLBSNSU's Strategic Plan. The policy shall aim to ensure that all waste (solid, wastewater) generated within the university is managed and disposed of safely and efficiently in accordance with the environmental legislation; and to demonstrate the university's commitment to implement and deliver the best waste management practices to

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reduce, recover, recycle, disposal; and thereby reducing the negative environmental impacts arising from the waste. The Policy highlights the need to consider the environmental impacts when making any procurement decisions or constructing or refurbishing buildings. The primary objectives of the policy are to ensure cleanliness in the SLBSNS University Campus for a healthy, hygienic and liveable environment. The University is committed to implementing an effective and responsible waste management process that meets all the environmental regulations for a sustainable society.

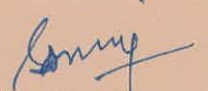
5. The Waste Hierarchy

The University shall have adequate arrangements, facilities, infrastructure, requisite logistics and disposal/recycling infrastructure and all students, staff and families of staff members shall ensure to make use of these facilities to help dispose of and recycle the waste as much as possible. The waste hierarchy can be represented in the form of a pyramid shown in Fig.1.5. The Waste Hierarchy WASTE MANAGEMENT POLICY | 03 Fig. 1 highlights that waste minimization shall be the first step which should be practised for less generation of waste. This may be achieved by dissemination of information about waste reduction and segregation at source, collection, followed by ensuring its transport and disposal by technological options within the university or as per the arrangement made by the Municipal Corporation of Delhi. Promotion of reusable products shall be carried out in the university to reduce waste generation- it shall include; paper, glass, cardboard, leaves/grass of plants, construction/demolition waste and other non-hazardous waste etc. The hazardous wastes generated in the university premises shall be disposed of in an environment-friendly manner by taking adequate support from the Delhi Pollution Control Board or registered firms, adept at handling of hazardous wastes. In simple terms, the SLBNSU Waste Management Policy shall be based on the following principles:

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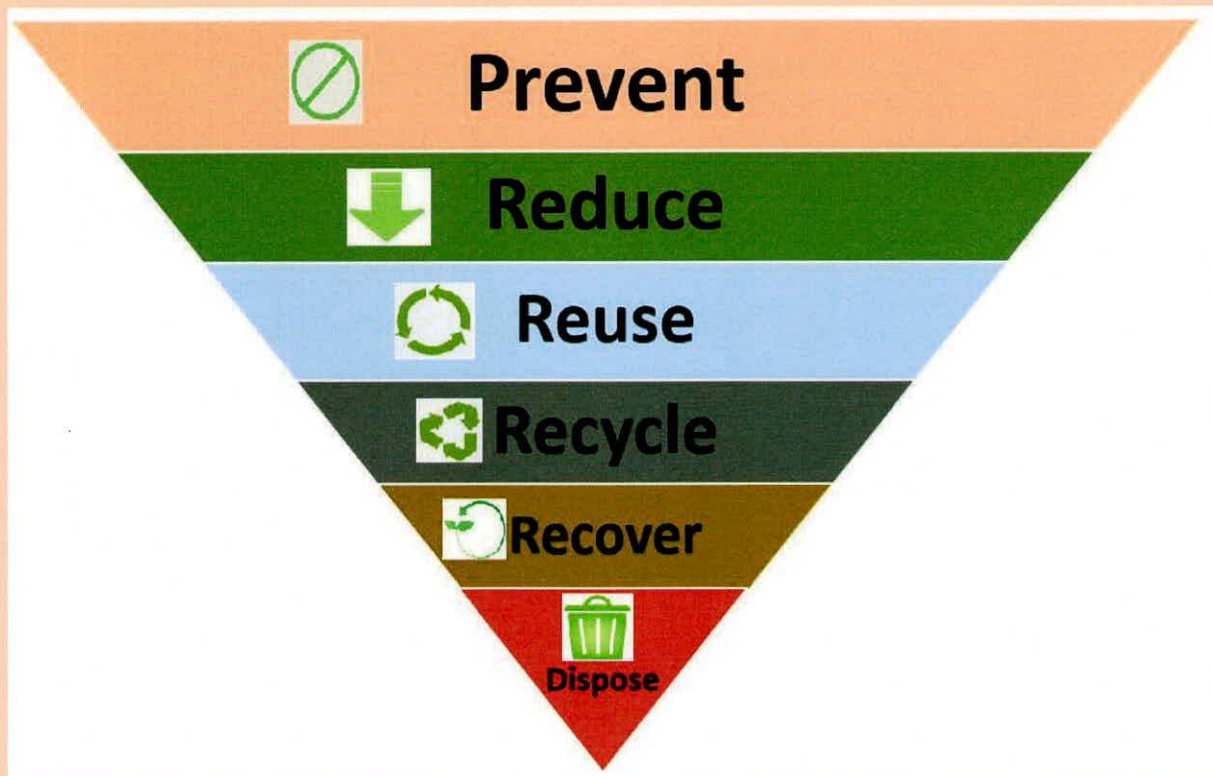


Fig.1.Waste Hierarchy Pyramid (from the most favourable (top) to the least (bottom) Waste minimization at source (prevention)

- (A) Reduction and reuse at source
- (B) Effective segregation at source
- (C) Waste recycling
- (D) Waste to composting
- (E) Waste-to-Energy
- (F) Waste disposal

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6. Plastic Waste Reduction

The University shall recognise the adverse impact of plastic waste production and disposal. Plastic pollution can hurt the water environment and thus the University shall seek to reduce plastic use and wastage on campus. The following initiatives shall be adopted:

- Single-use plastics in catering (food packaging, disposable coffee cups, and cutlery) shall be replaced with compostable catering supplies in the university canteen and other cafes to reduce plastic waste on campus.
- Reusable cups shall be made available to the university staff and students to reduce single-use disposable cup wastage.

- Conferencing and other events shall make use of reusable glasses to serve water, thus eliminating waste from used plastic bottled water.
- Water coolers/ RO Plants/ Water filters shall be installed throughout the campus for use by students and staff to encourage bottle reuse.

7. Policy Targets

Specifically, the university targets that by the year 2024,

- Shall safely dispose of entire solid and liquid waste produced on the campus
- Shall stop the use of 'single-use' plastics on campus using a combination of alternative materials.
- Ban on the use/sale of plastic bottled water on campus.
- Recover and ensure proper disposal of e-waste.
- Treat the household / institutional wastewater produced in a small-capacity wastewater plant before discharging it into the public sewers, using the treated effluent for flushing in toilets, gardening and other horticulture purposes.

8. Roles and Responsibilities

For effective implementation of the university's waste management policy, the roles and responsibilities of the various stakeholders shall be as under:

a) Nodal officer, Waste Management Policy

The Registrar or his/her nominee shall be the Nodal Officer and he/she shall have the overall responsibility to ensure the compliance of the waste management policy. He/she shall have to coordinate all the related activities and ensure the installation and logistics support for the collection, segregation, transport, treatment, disposal and reuse of solid and liquid waste generated in the university.

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b) Heads of Departments shall be responsible for ensuring,

Collection and segregation of papers, plastic, cardboard, laboratory waste, and hazardous waste in their respective departments. Ensure segregation, safe storage and disposal of hazardous waste by relevant legislation in their respective department. Identification of competent/trained personnel to

implement the arrangements for the management of hazardous waste also to ensure that all wastewater infrastructure (toilets, urinals, sinks etc.) and other related appurtenances in their respective departments are in working condition to ensure smooth flow of sewage/wastewater reach to the collection tank of the Sewage Treatment Plant.

c) Class Representatives and Students of the class

The Class Representative shall be responsible for ensuring the cleanliness of the class rooms, laboratories, corridors, amenities and hostel and advise all students not to through litter, plastic and other waste. In case of any issue related to housekeeping, they shall report immediately to the concerned Head of the department or directly to the concerned staff in the department.

d) Students

All students of the university shall ensure the cleanliness of their respective classrooms, laboratories, streets, corridors, amenities and hostel on the campus. In case of any issue related to housekeeping, they shall report immediately to the Class Representative or the Warden or directly to the concerned staff in the department/hostel.

e) Chairperson of the Hostel Management Committee (HMC)

The Chairperson of the Hostel Management Committee (HMC) shall ensure and coordinate the cleanliness of the hostel and compliance with this Waste management policy through the warden(s).

f) Hostel Warden

The hostel warden(s) shall ensure the cleanliness of the Boys' hostel and compliance of this Waste Management Policy. He shall ensure that all wastewater disposal arrangements installed in the hostel are operational at all times. He shall also ensure that all the wastewater infrastructure (toilets, urinals, sinks in laboratories etc.) and appurtenances in the hostel are in working condition to ensure smooth flow of sewage / wastewater to the sewer line. In case of any complaint, he immediately raise complaint to the concerned maintenance unit / UWD.

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g) Registrar

The Registrar shall be responsible for arranging and implementing all possible infrastructure and logistics needed to ensure full compliance of the policy through U.W.D. This infrastructure/includes; bins, brooms, wipers/moppers, phenyl /disinfectant, vehicle/trolley to transport the waste, workers, compost plant, landfill, the safety of workers and Liaison with the vendors/contractors/MCD etc. The Registrar shall also be responsible for arranging O&M /AMC of all waste collection/transport and disposal infrastructure.

h) University Engineer

He/she shall ensure the coordination of safe disposal of wastewater, and solid waste (including plastics, paper, cardboard etc.) generated in the university including the requisite designs in line with the environmental legislation. He/she shall also ensure the coordination of safe disposal of hazardous waste generated in the university in line with the environmental legislation.

i) System Administrator, Computer Centre

He/she shall ensure identification, collection, segregation, reuse and safe disposal of e-waste generated in the university.

j) Every waste generator in the university,

He/she shall,

- Segregate and store the waste generated by them in three separate bins meant for biodegradable, non-bio-degradable and hazardous wastes and handover the wastes to authorised waste pickers/waste collectors as per the directions or notification by the university/MCD from time to time.
- Wrap securely the used sanitary waste like diapers, sanitary pads etc., in the pouches provided by the manufacturers or in suitable wrapping material as instructed by the university and place the same in the bin meant for dry waste or non-bio-degradable waste/dispose of in the incinerators installed in their respective toilets.

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- Not throw, burn or bury the solid waste generated, in classrooms, offices, laboratories, corridors, streets, roads, canteen etc. in open drains/sewers.
- Not organise an event or gathering of more than one hundred persons in the university Seminar halls etc. without informing the concerned department head and UWD at least three working days in advance. The organiser of such an event shall ensure segregation of waste at source and handing over of the same to the waste collector.
- Work in close partnership with the UWD of the university/MCD to ensure segregation of waste at source as prescribed, facilitate collection in separate-coloured bins, and hand over recyclable material to the authorised waste pickers.

9. Operational Methodology

The methodology can be categorized into two:

A. Primary Collection

The university shall,

- Ensure source segregation of waste, to channelize the waste to wealth by recovery, reuse and recycling. This shall be done at the level of each academic department, laboratory, hostel, administrative block, main building, canteen, hostel mess etc.
- Shall ensure a coloured bin system for Green Waste, Dry Waste, and Hazardous Waste.
- Arrange for door-to-door collection of segregated solid waste from all households including hostel and academic area.
- Establish a system to identify organisations of waste pickers or informal waste collectors to facilitate their participation in solid waste management.

B. Secondary Collection

The university shall,

- Ensure coloured bins at every Secondary Collection Point.
- Set up secondary storage facilities at a designated place on the campus of the university, with sufficient space for sorting of recyclable materials to enable informal or authorised waste pickers and waste collectors to separate recyclables from the waste.

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C. Transportation of Waste

In this, the university shall,

- Transport segregated bio-degradable waste to processing facilities like compost, bio-methanation plant or any such facility.
- Make proper arrangement for in-house and on-site processing of such waste.
- Transport non-bio-degradable waste to the respective processing facility or material recovery facilities or secondary storage facility.
- Ensure transport of waste in segregated form in covered vehicles.

D. Collection, transport and treatment of Wastewater and safe disposal of treated effluent

In this, the university shall,

- Facilitate the construction, operation and maintenance of requisite infrastructure for collection, transport of wastewater,
- Ensure safe disposal of treated sludge.
- Ensure safe disposal of treated effluent and/or re-use the same for flushing in toilets, gardening and horticulture purposes within the university.

E. Specific tasks be taken on immediately.

The university shall implement the following immediately on the basis:

- Proper collection and Segregation of domestic and institutional waste.
- Timely transportation.
- Daily Road sweeping- of roads, classrooms, departments and hostels.
- 100% collection at a fixed time 365 days in a year.
- Penalize the polluters/defaulters through a monetary fine.
- Ban the sale and use of plastic carry bags (of thickness less than 50 microns) within the University.
- Organize effective "Information, Education and Communication (IEC)" and "Capacity Building" programmes.

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10. Capacity Building and Training through IEC (Information, Education and Communication)

The success of any Waste Management Plan depends upon the extent of public/community participation. Thus, the university shall undertake capacity building by training students, housewives and other staff of the university. It shall also organize Information, Education and Communication (IEC) activities. The main objective of the IEC shall be to make people understand. Specifically, these include,

The concept and need for segregation at the source

- The need to waste storage at the source in separate receptacles - one for biodegradable and another for recyclable.
- The role of citizens in the primary collection of waste from the household and handing over to waste collectors,
- The need to use litter bins on roadsides and public places.
- The impact of solid waste on public health and the environment

11. Policy Making Committee

For effective implementation of the WMP, there shall be a Waste Management Policy Implementation Committee (WMPIC). The constitution of the same shall be as follows:

- a) Registrar
- b) Two Deans
- c) Hostel warden
- d) DR (A/cs)
- e) University Engineer
- f) System Administrator
- g) Library-in-Charge.
- h) NSS Coordinator
- i) AR (Admn.)
- j) Assistant Engineer - Convenor

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12

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