



Jamia Hamdard

Policy Title- Waste Management and Green Initiatives Policy		
1	Policy Number	JH/IQAC/PD-30
2	Brief Description the Policy	The educational institutions represent the main components of sustainability promotion in our society. Waste Management is one of the challenges that educational institutions must face in accomplishing the sustainability goals. In 2016 the Union Ministry of Environment, Forests and Climate Change (MoEF&CC) released the updated Solid Waste Management (SWM) Rules which applies to every Solid Waste generator contributing to Waste generation in the premises.
3	Scope/Objectives	Waste management is intended to reduce adverse effects of waste on human health, the environment, planetary resources, and aesthetics. The aim of waste management is to reduce the dangerous effects of such waste on the environment and human health.
4	Policy Applies To	All academics (teachers and students) Administrative Managerial processes in the university All Stakeholders
5	Last Update	September 03,2022
6	Approved By	Academic Council Board of Management
7	Responsible Authority for Implementation and Monitoring	Campus Development plan committee
8	Superseding Authority	Competent Authority/Body of the University
9	References for the policy (please tick)	NAAC accreditation NBA accreditation UGC/Govt. Directive NIRF AISHE

Policy Statement:

The policy on ‘Waste Management and Green Initiatives’ formulated in response to University’s commitment to clean environment. The University realizes the need of sustainable and circular approach essential in reducing its ecological footprint and providing a safe and healthy work environment for teaching and non-teaching employees, students, and surroundings.

Jamia Hamdard Waste Management and Green Initiatives Policy articulates commitment to reducing its environmental impacts through effective Waste Management and sustainable practices in converting Waste to resource. The Campus strives to work for obtaining a Zero Waste plan thus obtaining its Eco-friendly status through the policy of “reduce, reuse and recycle”.

OBJECTIVES

The objectives of this policy are to:

- Promote holistic approach of waste management, resource conservation and green initiatives at the university campus.
- Ensure that waste management is performed at university campus in line with all waste legislative requirements.
- Encourage judicious use of environmental resources to meet the needs and aspirations of the present and future generations.
- Provide clearly defined roles and responsibilities to identify and coordinate each activity related to waste management and green initiatives.
- Disseminate environmental awareness among students and staff members.

ORGANISATION AND MANAGEMENT

The responsibilities and management for the ‘Waste Management and Green Initiatives Policy’ are shared among variety of personnel within the University. The Campus Development plan committee of Jamia Hamdard shall be responsible for the formulation and implementation of ‘Waste Management and Green Initiatives Policy’

Functions of the Campus Development plan committee

- 1) Abide by this Policy Document in value and spirit.
- 2) Advise and coordinate the provision laid in the Campus Waste Management and Green Initiatives at the campus.
- 3) Guide and provide directions to the implementation of initiatives for environmental conservation in the field of waste, water, and energy.

- 4) Ensure that all stakeholders are advised that they must comply with the University's Waste Management and Green Initiatives Policy.
- 5) Set up a Green Cell of the University for monitoring and supervising the activity components of the policy document.

Responsibilities

A) Heads of Departments/Directors/Section In-charge

They shall have the following responsibilities

- Abide by this policy document in value and spirit
- Ensure that waste is disposed responsibly in their premises through the appropriate waste disposal system (such as segregation of waste and 4Rs), in accordance with University policy and procedures.
- Ensure that all stakeholders in their respective department are aware of the procedures/practices about waste management and green initiatives formulated in the policy.

B) Students/Staff members:

- Abide by this policy document of the University in value and spirit.
- Dispose the waste responsibly (at both office and residence), through the appropriate waste disposal system (segregation of waste), in accordance with university policy and procedures.
- Promote peer to peer understanding and appreciation of natural environment
- Report any challenges or problems in implementation of waste management and green initiatives to the Head of Department.

POLICY FOR WASTE MANAGEMENT

Solid Waste Management

The University shall apply a 'Waste Hierarchical Approach', to reduce, reuse, recycle and recover waste products to manage its waste responsibly, reduce the volume of waste sent to landfill and maximize reuse and recycling where possible.

Action Plan:

Waste Avoidance and Minimization - In the hierarchy of waste management, waste avoidance and waste minimization must be attempted first, for which dissemination of information on technological options should be a continuing exercise

- 1) **Segregation of Solid Waste at Source** - Waste generators would have to segregate waste into two streams – Biodegradable and Dry waste (Plastic, Paper, metal, Wood, etc.) before handing it over to the collector as mentioned in Solid Waste Management Rules, 2016 laid by Government of India.
- 2) **Reuse and Recycling** - The recyclable material like plastic, tin, glass, paper and others should be handed over either to authorized waste-pickers and recyclers or to the urban local body.
- 3) **Solid Waste Processing and Disposal** - It is advised that the bio-degradable waste should be processed, treated and disposed of through composting or any other suitable process/technology within the premises as far as practically possible and the non- biodegradable wastes shall be disposed through a responsible waste collector or agency as directed by the local authority.

Water and Wastewater Management

The university shall undertake its best efforts for.

- Conserve water through efficient fixtures as well as adopt rainwater harvesting.
- Minimize wastage of water in campus.
- Treat or dispose wastewater originating from university activities in a sustainable manner as per applicable guidelines by Govt.Agency
- Ensure that the treated effluent may be recycled for irrigation and other purposes.

Action Plan for Liquid Waste Management:

The Liquid waste from the campus consists mainly of domestic sewage from different establishments within the campus. A techno-economic feasibility study can be initiated for arriving at an appropriate solution for establishing Sewage Treatment Plants (STPs).

The effluent water can be utilised for landscaping and non-potable use.

E-waste/Hazardous waste/Biomedical Waste Management

The e-waste/Hazardous waste/Biomedical Waste originating at university premises shall be managed as per the policy or regulations laid down by Central and state government such as E-Waste Management Rules 2016, Hazardous and Other Wastes (Management and Trans boundary) Rules 2016 and Biomedical Waste Management Rules, 2016 .

Action Plan:

- All the departments may be required to carry out an incentivization of items which could possibly be classified in e-waste in the next 3, 6 and 12 months from the date of current usage.
- An e-waste collection centre may be established for obtaining e-waste from different departments.
- Suitable authorized vendors by the Central Pollution Control Board and willing to offload the e-waste from the campus would be invited for an auction of the e-waste.

GREEN INITIATIVES AT UNIVERSITY PREMISES

Green Audit

The university shall decide to undertake a comprehensive Green Audit of the existing structures and work operations annually to identify, quantify, describe, and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies and standards.

The objective of the green audit is to improve energy and water usage efficiency, better waste management and all-round management and development of campus in eco-friendly manner for sustainable future.

The Green audit may consist of following broad points:

- 1) **Water audit** – water balance consisting of source, consumption, and recycling.
- 2) **Waste audit** – incentivization of municipal solid waste, hazardous wastes, biomedical wastes, and sources thereof, compostable fraction of wastes, segregation of wastes, present practice on waste management inside campus.
- 3) **Energy audit**- incentivization of electrical fittings, fixtures, appliances, machines, etc., energy consumption, recognize energy wastage and leakage points.
- 4) **Biodiversity** – green cover mapping, tree counting, biodiversity register.

Green Master Plan

Since there is a need to augment the infrastructure on the campus, it becomes equally critical to ensure that the master plan is compliant with environmental norms.

The upcoming infrastructure and facilities as well as additions to the existing structures and facilities should be developed with a focus on energy efficiency, minimizing waste

generation, optimizing power consumption of power, water and other supplies.

Energy conservation

The university will do maximum efforts to reduce energy consumption and use renewable sources of energy as far as possible.

Action Plan:

- The points of energy wastage and leakage should be identified, and appropriate steps shall be taken to set a target of attaining significant energy saving by appropriate modifications and adopting best practices.
- The fluorescent lights may be replaced with LED in the existing buildings and streetlights across the campus.
- Use of renewable sources of energy should be increased either by installing solar panels on rooftops as well as suitable open places or by other suitable means.

Water Management Plan for Optimum Usage of Water

The university shall adopt a sustainable water management plan to prevent wastage of water as well as recycle and reuse wastewater in the university campus.

Action Plan:

- Reduction of potable water usage by efficient monitoring, using efficient fixtures and restricting usage for irrigation.
- Installation of rainwater harvesting units at suitable locations in campus.
- Use of Sustainable horticultural practices.

Reduction of Carbon Footprints

The university shall do possible efforts to reduce carbon footprints from university related activities via plantation drives and use of cleaner and eco-friendly methods.

Action Plan:

- A methodology of calculating the carbon footprints of the whole institute should be developed and its improvement should be monitored.
- Tree plantation drives on and off campus should be initiated to reduce the carbon footprints.
- Provisions should be made to motivate the staff and students for using bicycles, public

transport and/or car pool at least once a week for routine transportation.

Plastic free campus (avoid using single use plastic)

The university shall make provisions to ban the use of single use plastic at university premises. Various awareness programs may be initiated to motivate the staff, students and people in surrounding areas to phase out single use plastic from their schedule.

Biodiversity, Plantation and Landscaping of Campus

Proper documentation of the flora and fauna at university premises should be done with the help of experts. Further, plantation should be done in a planned manner with expert advice to add both green cover and beauty to the campus. Landscaping of different sizes may be done at suitable open spaces with flowering plants, grass and accessories targeting towards the most beautiful green campuses in surrounding.

Environmental Stewardship Awards

The university shall announce Environmental Stewardship awards from time to time to recognize laudable performances of different departments and communities of the campus for their contribution and implementation of Waste Management and Eco Initiatives.

Sensitization, Awareness and Capacity Building Programs

The university shall organize various workshops/seminars/dialogues/talks/creative actions/research programs to sensitize the students, staff and community in surrounding about global and local environmental issues for moving towards a resilient future.

Policy Monitoring and Review

The advisory board shall monitor and review the efficacy of the policy on annual basis. Discreet or micro data could be made accessible to IQAC and departmental heads for taking appropriate actions and complying with them on regular basis.