

Waste Management Policy

MSRUAS/REG/WMT POL/2019-20



**RAMAIAH
UNIVERSITY**
OF APPLIED SCIENCES



Pro Vice Chancellor
M.S. Ramaiah University of Applied Sciences
Bangalore - 560 054.



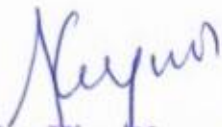
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***This Policy entitled "Waste Management"
is applicable to all Faculties of MSRUAS
from the Academic Year 2019-20
(As per the SRAs of the respective Faculty)***



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A. Waste Management

A.1 Purpose

This "Policy Document on Waste Management" describes the policies of MSRUAS and provides guidelines for Sustainable Waste Management in the University Campus in a manner which is environmentally responsible.

A.2 Background

M. S. Ramaiah University of Applied Sciences, Bengaluru, being a part of the reputed M. S. Ramaiah Group of Institutions, is committed to responsible utilization and protection of natural resources. As a leader in Higher Education, MSRUAS consciously embraces waste policies towards a sustainable green environment and declares its commitment in public domain.

A.3 Statement of Policy

The Policy of MSRUAS is to safeguard the natural environment, by consciously adopting environmentally friendly operations and practices. The University will develop and adopt best practices to reduce or eliminate the negative impact on the environment. The University will develop sustainable and innovative Waste Management solutions. The University is committed to compliance of all applicable laws and regulations. The University will involve all its employees and other stake holders in attaining excellence in good waste management practices

A.4 Policy Objectives

The long-term goals of MSRUAS in adopting Waste Management Policy are:

- Sensitizing the students and employees with appropriate waste management techniques
- Nurture good governance and practices in waste management
- Encouraging employees to evolve and adopt working cultures towards good Waste Management ideas
- Promoting innovation for sustainable development and waste management practices through Innovation Cell of MSRUAS Encouraging projects in efficient waste disposal in coordination with the local authorities

- Sharing of knowledge on Waste Management through collaborations with other Educational Institutions and Industry

A.5 Types of wastes generated

Types of waste generated by the various Faculties in MSRUAS may be as follows but not limited to:

A.5.1 Dry waste

Dry waste includes paper, glass, plastic, cardboard, Styrofoam, rubber, metal, food packaging material, milk cartons, packets food boxes and such items.

A.5.2 Wet waste

Wet waste includes vegetable peels, used tea, fruits, food leftovers and all other kitchen wastes. These are biodegradable organic waste that can also be composted. Wet waste also includes used water from bathrooms and toilets.

A.5.3 Solid waste

This includes broken chairs, tables, wooden planks, glass wares, other solid waste materials and such items.

A.5.4 Sanitary waste

Sanitary wastes include sanitary napkins, hair, nails and any waste with bodily fluids.

A.5.5 Chemical waste

This includes unused and surplus reagent grade chemicals, intermediates and by-products generated from research & educational experiments, used oil of all types, spent solvents - including water based, mercury containing items, pesticides, equipment and apparatus containing hazardous waste, paints - both oil and latex, preserved specimens, uncured resins (phenolic, epoxy, styrene), dye and glasses, degreasing solvents, and chemicals let out from various laboratories.

A.5.6 Bio-medical waste

Biomedical wastes comprises of tissues, animal carcass, animal house wastes, used syringes, soiled cotton and expired medicines.

A.5.7 E- waste

E-waste or electronic waste consists of batteries, computer and laptop parts, wires, electrical equipment of any kind, electrical and electronic toys, remote controllers, watches, cellphones, bulbs, tube lights and CFL bulbs.

A.5.8 Radioactive waste

Radioactive waste includes items generated out of nuclear medicine, nuclear research, nuclear power generation, rare-earth mining, and nuclear weapons reprocessing.

A.6 Policy Implementation by Individuals

All employees and students of MSRUAS shall carefully dispose the wastes based on their nature and comply with the following guidelines

A.6.1 Waste Management and Increasing Recycling

- Reduce the amount of waste generated in office, hostels and student accommodation
- Segregate and dispose waste as per BBMP guidelines

A.7 Policy Implementation by the Institution

The Leadership of MSRUAS shall comply with the following guidelines

A.7.1 Handling of waste:

The following guidelines should be adhered to with respect to the types of waste generated in the Faculties:

A.7.2 Dry waste

The aforementioned dry waste should be absolutely dry and discarded in the respective bins provided as per standard guidelines. Dry waste that are wet such as milk cartons, packets and food boxes need to be rinsed and dried properly before discarding through proper channel. Dry waste should be in dry form for recycling. All these wastes should be discarded as per the color codes in the respective dustbins and handed over to BBMP for further processing.

A.7.3 Wet waste

The aforementioned wet wastes should be segregated and handed over to the concerned BBMP persons for further processing into manures/compost. Washroom flush and sink water should be recycled via STP method. The recycled water must be used for watering the plants, flushing, vehicle washing and mopping floors.

A.7.4 Solid waste

Broken chairs and tables should be sold to authorized dealer, while wooden planks and other waste materials should be sent to authorized recycler. Broken glass wares should be gathered separately and handed over to concerned persons for safe disposal.

A.7.5 Sanitary waste

These wastes should be wrapped in a newspaper and marked with a red cross using a sketch or ink pen, and handed over to respective waste collectors from BBMP.

A.7.6 Chemical waste

Majority of organic solvents can be redistilled and reused. Before discharging anything to the drain, laboratory personnel should make sure that the material is safe and appropriate for disposal into the drain.

The other chemical wastes generated across the faculty should be gathered separately as per their nature. They should be discarded as per the standard guidelines provided by appropriate Government Authorities and should follow appropriate safety measures.

A.7.7 Bio-medical waste

Bio-medical wastes generated across the University should be handed over to a Government Licensed Contractor for further processing and safe disposal without causing any ill effect to the surroundings and environment.

A.7.8 E- waste

E-waste produced should be logged in an E-waste Register in each Faculty / Department / Office to keep a track. These types of wastes should be overseen by ICT Dept of the University and disposed

through a licensed E waste Contractor.

A.7.9 Radioactive waste

Radioactive wastes generated across the campus should be disposed strictly as the guidelines provided by Atomic Energy Regulatory Board, Gol.

A.8 Governance

- Limit the use of resources judiciously
- Responsibility of each person in the Faculty may be emphasized

A.8.1 Promoting Waste Management System

- Avoid / ban use of single use plastic in the campus, which applies to eateries and shop owners
- Ban use of plastic water bottles and containers in the campus
- Discard plastic waste as per the BBMP guidelines
- Ensure that all cleaning products are bio-degradable and non-toxic to have minimal detrimental impact on the environment
- Appoint Government Licensed Contractors for waste collection and disposal in a scientific manner for every type of waste generated at the University campus
- Provide sufficient, accessible and well publicized collection points for recyclable wastes
- Conduct annual audit of the waste management system by Government Licensed Auditors

A.8.2 Awareness

- Conduct awareness campaign on waste management through lecture sessions, webinars, street plays, seminars etc.,
- Observe "Swachtha Pakhwada" program twice in a year
- Conduct activities to promote appropriate waste management procedures within and outside

of MSRUAS

A.8.3 Training

- Provide training to all stakeholders of the University to upskill on waste management procedures
- Encourage staff to pursue online training course on waste management
- Conduct workshops to students and employees on the best practices in waste management

A.8.4 Awards and Incentives

- Awards to employees and students for outstanding contribution towards innovative waste management techniques
- Rewards to students and employees for participating in various initiatives in waste management in MSRUAS and outside
- Awards and rewards to all employees generating less waste and managing wastes in an optimal way

A.8.5 Monitoring and support

- Constitute a Waste Management Cell comprising of key stake holders of the University from different Directorates, Faculties and Students under the guidance of Environment Committee
- The Environment Committee will implement the Policy on Waste Management, Create an Action Plan for Initiatives on Good Waste Management techniques and implement the Action Plan in coordination with all employees of MSRUAS

A.9 Items / Aspects not covered in this policy document

If any stakeholder finds that there are items, action points, policy matters and general considerations not covered in this policy document, they should be brought to the notice of any member of the Environment Committee. The Committee Member will bring it up for a discussion in a Committee Forum for resolving the matter.