



Sree Narayana Mangalam College Maliankara

(Affiliated to Mahatma Gandhi University, Kottayam)



POLICY DOCUMENT ON WASTE MANAGEMENT

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Area: SAAKALYA	Policy No. SNMC/ IQAC/PD-03	Document owner: Principal	
Title: Policy on waste Management	Issued on: 15-05-2020	Revised on: 01-06-2022	Pages: 6

Waste Management Policy

"Reduce, Reuse, Recycle: Our Commitment to a Greener Future"

SNM College is committed to promote sustainable waste management practices to reduce the environmental impact of its operations. This policy outlines our objectives and strategies to further enhance our efforts to create a more sustainable future.

Aims: Our aims are to:

1. Continue to reduce the amount of waste generated in the campus.
2. Further promote the adoption of sustainable waste management practices.
3. Encourage the use of eco-friendly products and materials.
4. Minimize the environmental impact of our operations.

Objectives:

1. Evaluate and improve the effectiveness of our existing waste management practices.
2. Expand the biogas plant and composting unit to process more organic waste.
3. Increase awareness and educate students and staff about sustainable waste management practices.
4. Continuously explore new and innovative ways to reduce waste and minimize our environmental impact.
5. Strengthen our collaborations with local bodies to manage plastic waste and promote sustainable farming practices.

Advisory Board

- a. Principal - Chairman
- b. IQAC Coordinator
- c. Coordinator Collector's @ college
- d. NSS Program officers
- e. NCC Officer
- f. Office Superintend

Waste Management Policy

Solid waste Management

- The Solid waste generated in the campus is segregated as bio degradable and non- bio degradable wastes.
- All Departments, laboratories, and Classrooms are provided with dustbins for dry wastage disposal. Segregation of the waste into dry and wet waste are done through the separately allotted dustbins at strategic locations in the college.
- Non- bio degradable wastes are handed over to Haritha Karma Sena of Vadakkekara panchayat as part of Swach Bharat Mission and "Collectors at College".
- Bio-gas unit is established in the canteen premise of the college. The organic waste material is collected from the college campus by the supporting staffs and students to deposit it in the tank. The decomposition process takes a few days to complete and produces gases such as methane, carbon dioxide, hydrogen, and hydrogen sulphide. The biogas is stored in a gas tank above the digester and drawn through pipes for use. Biogas is an excellent fuel because it contains up to 75% methane. This fuel is used in the canteen to cook food. It produces no smoke and leaves no ash or charcoal, but its residue can be utilized as high-quality fertilizer.
- Apart from the solid waste management in the college campus, the Haritha sena under NSS Unit of the college, functions to collect used plastics during the local festivals and handover it to Panchayat.

Liquid waste Management

- Laboratory liquid waste management system through percolation system: - One Soak Pits for groundwater recharge are constructed for non-hazardous liquid waste generated from labs.
- Liquid waste can be defined as waste water produced without chemicals at the time of practical. This is the liquid used for washing purpose other than reaction. As this liquid is not hazardous to environment it can percolate in the soil so as to avoid stagnant water and to facilitate ground water recharge.



- College promotes virtual labs and minimize the use of hazardous chemicals related experiments, even though some hazardous chemical wastes are created during the synthesis, chemicals are diluted before discarding in wash basin.
- The basin is Marked for the disposal of hazardous chemical waste and all the chemical waste is collected in a separate tank set up outside the laboratory. The chemical effluent is further carried away by the firm for treatment.

Water Management

- The water for all purposes is supplied through set of distribution pipes. The college has three wells and rain water storage unit with ample water.
- The ground water from the well is pumped into the storage tanks / elevated service reservoirs located at different places in the campus. The water is distributed through well-laid pipe network.
- The entire distribution system is well supervised by the college administration to ensure that there are no leakages and wastages of water through Leakages in the pipelines and the water-taps etc.
- Regular cleaning of the water tanks is regulated by the administrative staff of the college. All the stakeholders of the college are well-educated to use water economically and efficiently. Rainwater from different college buildings is taken to the well for ground-water recharge.
- A proper care is also taken to keep the Rooftops cleaned so that unnecessary garbage does not mix with the rainwater leading towards the well.
- Apart from carrying out Cleanliness Drives, Awareness Campaigns, the College NSS and NCC volunteers also build rainwater harvesting pit (MAZHA KUZHI) for ground water recharge in the adopted villages during the NSS Special Camps.
- College has a dedicated area for organic farming where we grow vegetables using sustainable farming practices. Waste water from sinks is used for gardening. The residue from bio-gas plant is also used as organic fertiliser for this farming activity.

E-waste Management

- E- waste management is carried out through the Department of Physics. Components and other small devices/parts of non-repairable equipment's are used to fabricate new experimental kits / power supplies.

- The department has started reusing the electronic components from the discarded instruments, PCs, UPS, etc. such as transformers, transistors, ICs, Capacitors, Inductors, Resistors, Connectors, Sockets, Switches, Wires, LEDs and other electronic
- or electrical devices to fabricate the instruments and experimental kits that are used in the Physics Laboratory.
- The students and faculty have also involved in the maintenance and repairs of the instruments and experimental kits, which led to increase their life and the optimum uses. This have not only become a step towards the E-waste management but also cultivated innovative ideas among the students and the faculty. The students have also gained many skills through these activities.
- The e-waste of the college is generally not thrown into garbage. Instead, these unwanted/excess computer machines / devices / printers / scanners / keyboards / mouse etc. are transferred to external agencies through MoUs.

Paper Waste Management:

- The college aims to reduce paper waste by promoting digital communication and using online platforms for documentation and record-keeping.
- The implementation of Enterprise Resource Planning (ERP) also helped to reduce the use of paper in the day-today activities of the various stakeholders.
- Assignments are also permitted to submit as soft copies and students are instructed to write assignments on both sides of the paper if they submit it as hardcopies.

Vermicompost Unit: Vermicompost Unit is established in the campus, maintained and controlled by Department of Botany and Zoology. The students of the departments actively involve themselves to run this unit. The organic waste material is collected from the college campus by the students to deposit it in the special vermicompost tank. Using cow dung, Earthworms the soil mixture is made with appropriate proportions. With the help of students and farmers this mixture is installed in the tank and watered properly for 4-8 weeks. First flush of pure, odourless and granular, soft vermicompost is obtained. Vermiwash, a liquid can be obtained from the tank by pipe in case of excessive water. This activity of the Departments promotes Vermicomposting awareness among the students and the farmers for eco-friendly organic farming.

Sanitary napkins: The college has installed Incinerators for the disposal of sanitary pads in the Girls' Common Room and in selected toilets as a step towards eco-friendly disposal mechanisms.

Display Boards: Display boards to Promote Environmental Sensibility on College Campus
Various boards including Quotes that promote environmental awareness and ethics including air-pollution control, plastic-free campus, conservation of energy, recycling of resources, tree plantation, Nature conservation, etc. are displayed for all the stakeholders of the college.

We believe that by working together, we can create a greener and more sustainable future for SNM College and beyond. This policy reflects our ongoing commitment to sustainable waste management practices and outlines our objectives and strategies for achieving our goals. We will continue to evaluate and improve our waste management practices to ensure that we remain at the forefront of sustainable practices in the academic community.

