SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF EDUCATION
(An Autonomous College Affiliated to the Tamil Nadu Teachers Education University and
Re-accredited with A++ Grade by NAAC with CGPA 3.82)
Sri Ramakrishna Vidyalaya Post, Coimbatore - 641 020.
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Waste Management Practices of the Institution

Sri Ramakrishna Mission Vidyalaya College of Education facilitates several techniques for the management of degradable and non-degradable waste. The primary focus is to reduce, reuse and recycle the waste. The college has "Waste Management Cell' that deal with the minimization of waste. The waste management practices of the college include

1. Segregation of Waste
2. E-waste Management
3. Vermi-compost
4. Bio Gas Plants
5. Sewage Treatment Plant

1. Segregation of Waste

Solid Waste Management

The college implemented solid waste management by enforcing the waste segregation rules. Segregation of waste is done keeping wet and dry wastes separately, so that dry waste can be recycled and wet waste can be composted. Dustbins are placed in every classroom, administrative rooms, library, laboratory, rest room and in needed places. Separate dustbins for biodegradable and non-biodegradable wastes are placed in the campus. Therefore, waste is segregated into biodegradable such as paper waste, food wastes, plant waste and non- biodegradable namely glass, metals, batteries, plastics, spare parts of electronic things. The non-degradable items are disposed for recycling. The solid wastes like plant litter, leaf litter and waste papers are collected and disposed to a place where it can be converted into manure and used as fertilizer for plants and trees. Every day the waste is collected and disposed properly.

This ensures that solid waste segregated at the source. Every day the waste is collected in bins and disposed to a place where it can be converted into manure. It is also ensured that the solid waste management has been done in following ways.

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Paper Waste

Used paper from the faculties and office is collected, stored, and recycled properly. The unwritten/ unprinted pages of used papers are reused to send circulars and other documentation purpose. Dustbins are provided in every classroom for collecting paper waste and they are cleared every day.

Food Waste

All hostels and canteen are provided with waste disposal mechanisms. The food waste is used for biogas production. The biogas produced is utilized for cooking at the hostel. The waste from the food outlets on campus is removed by the service providers and disposed of.

2. E-waste Management

The e-waste generated on campus, largely comprising defunct hardware from computers and other related electronic gadgets/ devices is annually collected and disposed. Tube lights, CFL, LED and computer parts are stored in the scrap yard of the college and handed over to the maintenance department in the Vidyalaya campus.

3. Vermi-compost

Ramakrishna Mission Vidyalaya has vermi-compost units to transform organic waste into a nutrient-rich fertilizer. The main objective of Vermicomposting is to produce organic manure of exceptional quality for the organically starved soil by using waste. The daily organic waste is generated due to fallen leaves from the green cover of the campus is used for vermicomposting. The disposal mechanism involves the proper collection, segregation, and disposal of waste. The biodegradable wastes are disposed of in the compost yard, composted, and recycled. Waste is collected and heaped in the farmyard and this waste is composted and converted into manure. Over 500 kgs of leaf wastes are collected at Vidyalaya Campus every day to make it Organic Manure. It is used for fertilizing the plants on the campus.

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4. Bio Gas Plant

A bio gas unit available in the Vidyalaya campus is of "Deenabandu Model", an improved fixed dome model. Biogas is produced by microorganisms, such as methanogens and sulfate-reducing bacteria, performing anaerobic respiration. The biodegradable wastes including sewage sludge and food waste are fed from a mixing tank through an inlet pipe connected to the digester. After fermentation, the biogas collects in the space under the dome. It is taken out for use through a pipe connected to the top of the dome, while the sludge, which is a by-product, comes out through an opening in the side of the digester. During the process, the micro-organisms transform biomass waste into biogas (mainly methane and carbon dioxide) and digestate. The bio gas produced is used as fuel for the hostel kitchen.

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The maintenance department in the campus collects approximately 800 kilograms of food waste from hostels every day that is converted into biogas by processing through the biogas plant available in the campus. 19 kilograms are produced everyday that saves the consumption of commercial cylinder.

5. Sewage Treatment Plant

Sewage Treatment Plant is installed in Vidyalaya campus to remove contaminants from sewage to produce an effluent that is suitable to discharge to the surrounding environment or an intended reuse application, thereby preventing water pollution from raw sewage discharges. In this process toxins, pollutants, and contaminants are removed from the sewage to produce clean water reused later on for the environment. The treated water from sewage is utilized for various purposes that include gardening, landscape irrigation and flushing.

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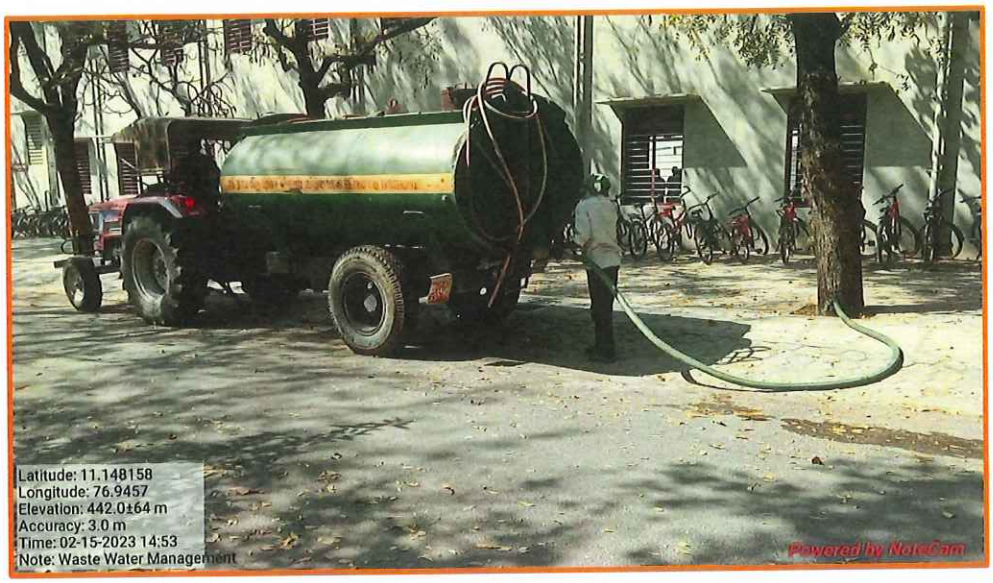
Watering Trees using Recycled Waste Water



Drip Irrigation using Recycled Waste Water

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