

Waste Management

a.Solid Waste Management

At PERI Institute of Technology, solid wastes are collected daily by placing separate dust bins at various locations for biodegradable and Non-biodegradable waste. The institute has dustbins for all floors, all the departments, common areas, canteen, mess and every other open area. The garden trimmings generated from our college garden is utilized for preparing manure. Solid wastes are collected daily and dumped in pits excavated for this purpose inside the campus area and allowed to decompose. At a later date, this is dug out and used as manure for gardening. Waste from the departments, office, etc., is collected and given to the peripheral vendors on a timely basis. Paperless communication is also followed at our institution. WhatsApp and e-mail is followed for sending information among the staff members. We also encourage staff members for utilizing one-sided papers. Housekeeping staff clean and dispose of the wastes which are generated in classrooms and inside the campus. Maintenance Staff are appointed for monitoring the waste which is generated. The solid waste are collected and segregated as degradable and non-degradable waste and it is transported to the nearest municipal waste collection area trough trucks. Use of plastics is strictly banned inside the premises.

Waste audit Details

Locations

- Class rooms,
- Staff rooms,
- Laboratories
- Common Areas
- Canteen
- Mess/Dining Hall

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Equipments Used

- Garbage Bags
- Rubber Gloves
- Face Mask
- Weighing Machine

Procedure

- 1. Instructional Meeting with students
- 2. Garbage collection inside campus
- 3. Sorting out different kind of wastes
- 4. Weighing each kind of waste
- 5. Data Analysis
- 6. Results and Propsal

Data Recorded:

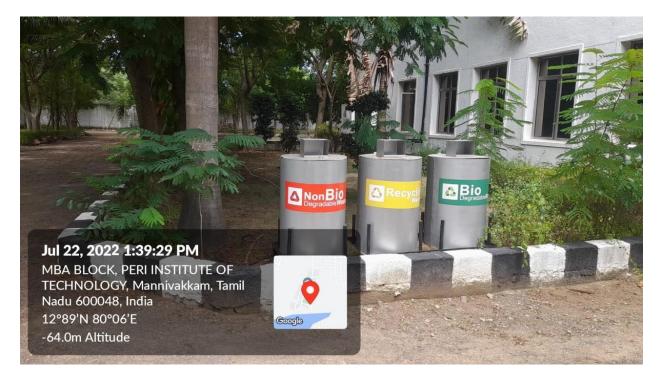
Waste collected was sorted into different categories as follows:

- Food waste
- Paper waste
- Plastic Waste
- Tetra packs/Tea Cups waste
- Metal Waste
- Glass Waste
- Yard Waste
- E-Waste

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Separate dust bins at various locations for biodegradable and Non-biodegradable waste



Garden trimmings used for preparing manure





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Solid waste management

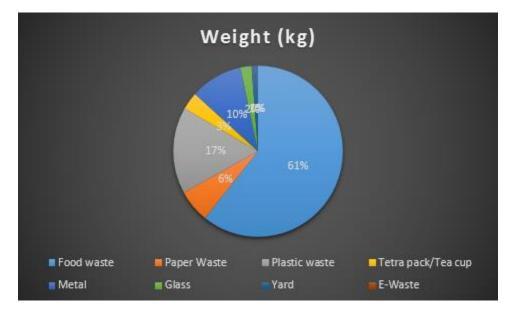


S.No	Type of waste	Weight (kg)
1.	Food waste	20.05
2.	Paper Waste	2.05
3.	Plastic waste	5.4
4.	Tetra pack/Tea cup	1.1
5.	Metal	3.3
6.	Glass	0.7
7.	Yard	0.4
8.	E-Waste	-
TOTAL		33.45





Pie Chart Comparison

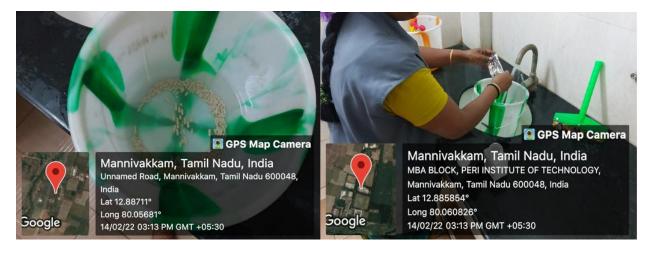


b. Liquid waste management

At PERI Institute of Technology, Waste water from the college is cleaned and the recycled water is diverted to garden to maintain plants inside the campus. Sprinklers are installed in our college garden to provide controlled and judicious utilization of water. The waste water from the reverse osmosis (RO) plant is used for gardening purposes. Eco friendly floor cleaners are used for floor and rest room cleaning and the water is disposed off to the sewage treatment plant for recycling. Waste water from washroom got recycled using Bacteria based Recycling Technology. Push taps are used in most of the places for controlling the wastage of water.







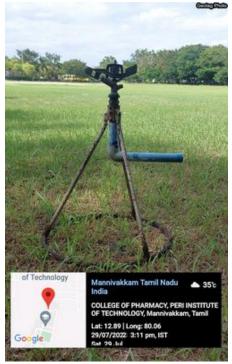
Waste Water recycling using Bacteria based method







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Water Sprinklers

c. E-Waste Management



The major sources of e-wastes at our college are outdated computer monitors, printer cartridges, mouse, keyboards, etc.. The broken and non-reusable E-wastes are stored in a separate room and sold as scrap to the local firm designated as authorized buyer by the **Tamilnadu pollution control board**. Refilling of the printer cartridges is done outside the college campus. Useful parts of electronic gadgets like resistors, capacitors, inductors, transistors, thermostats, etc. have been removed from the gadgets for reuse in practical labs.

d. Plastic Waste Management

At PER Institute of Technology, Separate containers for plastic wastes are used. Plastic waste are collected periodically and handed over for recycling to a local firm designated as authorized buyer by the **Tamilnadu pollution control board**.







e.Waste Recycling System

Separate containers for plastic wastes, Paper waste, and Glass wastes are provided which decreases the problem of separation of waste for recycling. The collected wastes are supplied to recycling vendors.



Separate container for Bio degradable waste





f.Hazardous chemicals and radioactive waste management

The chemistry lab uses only the diluted acids so no harmful chemical and radioactive materials are used.

Waste Management Initiatives – Additional Information

- Lab reports etc. are reused. Metal, wooden waste and other paper waste will be collected by maintenance department and disposed as scrap.
- E-waste is kept aside in all the departments for the proper disposal and the components which will be useful are kept safely for the future purpose.
- Non-working computers, monitors, and printers are discarded as scrapped.

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