

**7.1.3**

***Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)***

- Solid waste management
- Liquid waste management
- E-waste management
- Hazardous chemicals and radioactive waste management

**Provide web link to**

- Relevant documents like agreements/MoUs with Government and other approved agencies
- Geotagged photographs of the facilities
- Any other relevant information



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**Autonomous (Affiliated to Savitribai Phule Pune University)**

**SOLID WASTE MANAGEMENT**

Every department of St. Mira's College as well as the administrative offices create some waste which is dumped in a separate waste bin for degradable and non-degradable. From here, all dry waste is taken by the support staff to larger bins donated to the college by Adar Poonawalla Foundation. Thereafter, the garbage is collected by the PMC for safe disposal. Paper and scrap waste is sold for recycling to a scrap dealer at frequent intervals. Since 2020-21 being the Covid-19-year, partial operation of the college led to minimal waste. While disposing the waste, the college segregates waste into degradable (canteen food waste, garden waste, paper, etc.) and non-degradable (plastic, e-waste, polythene, glass, etc.)

Our college promotes digital platform to reduce the usage of paper for communication and sharing documents.

The College periodically conducts all the required measures and awareness programs for the students about the hazards of plastic and alternative ways through which usage of plastic can be minimized. The institution takes all the measures required to ensure that the campus is free of plastic items and other wastes that harm the environment. As part of this, the college organised Garden Manuring Activity, Red Dot campaign, Newspaper Bags Making Activity, Green Trek cum Cleanliness Drive, Guest Lecture on "Innovative Techniques for Waste Recycling & Energy Conservation", Campus Cleanliness Drive, Waste Management Workshop, Eco friendly Ganpati and so on.

The Garden Waste Management Project harvested several kilograms of manure for 2017-18 and 2019-20, which was sold in the Annual Mira Bazaar.

**Liquid waste Management**

The liquid waste generated in the campus is piped out through municipal pipelines for safe disposal.

**E-waste management (non-degradable waste)**

The e-waste includes out of order equipment or obsolete items like lab instruments, circuits and accessories, printer, charging and network cables, Wi-fi devices, cartridges, sound systems, display units, UPS etc. A suitable budget is allocated to upgrade the system. AMC is maintained to periodically review the effective functioning of CPU's and Monitors.

All such equipment's which cannot be reused or recycled is disposed through authorized vendors. Instead of a new procurement Buy-Back option is preferred for technology up gradation.



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**Hazardous chemicals waste management**

Laboratory Glassware Disposal- This applies to laboratory glassware, including:

- Intact or broken laboratory containers such as flasks, beakers, bottles, pipette, conical flasks;
- Small glass containers, test tubes

Packaging Instructions for Non-Contaminated Laboratory Glassware

1. The non-contaminated glassware is placed in sturdy cardboard box lined with a plastic bag.
2. The box is securely sealed with tape.
3. It is labelled "CLEAN Lab Glass - Trash".
4. The trash is placed in the box or put in dumpster.

Laboratory Chemical Disposal

For qualitative analysis only soluble salts are analysed using micro scale technique i.e., quantity about 5 milligrams or volume 0.5 ml.

For volumetric analysis solutions having very dilute concentrations are used i.e., 0.1 M to 0.05 M.

Thus, innocuous aqueous waste in the laboratory may be poured down the sink. Some chemicals are washed down with excess water.



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