

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**
- **Biomedical waste management**
- **E-waste management**
- **Waste recycling system**
- **Hazardous chemicals and radioactive waste management**

1. Solid waste management: Academic buildings and its premises are cleaned regularly and its wastes are segregated and disposed accordingly. One side printed papers are used for internal correspondences. The food waste is used for the production of biogas. The Hu-Methane Gas Plant generates the Bio-gas of about 60m³ per day. The usage of number of LPG cylinders in the hostel kitchen are minimised by the use of generated gases through Hu- Methane gas plant.

2. Liquid waste management: Liquid waste from the points of generation like the canteen and toilet, etc., is let out as effluent into a proper drainage facility to avoid stagnation. The waste water collected from hostel (used water from sinks, bathrooms, or laundry) is used to irrigate the plants.

3. Biomedical waste management: An effective way of biomedical waste management system is functioning in Health Care Centre. This includes, setting up waste segregation stations with clearly labelled bins as Yellow waste, Red waste, Blue waste and White waste containers. A MoU is made between Kovai Bio Waste Management (P) Ltd and Health Care Centre for the process of collection, reception, storage, transportation, treatment, disposal and handling any form of Bio-Medical Waste in compliance with Bio Medical Waste Management. Specified category of bio wastes are kept with respect to colour of bins and taken care by Kovai Bio Waste (KBW) Management (P) Ltd. It leads to the minimized environmental impact, promote resource recovery and create a culture of sustainability in campus.

4. E-waste management - The major e-waste such as written-off instruments/equipment, old version computers, printers, electronic gadgets/circuits, kits have been written off on regular basis and condemned devices and materials from computer lab are sold to the e-waste management companies/buyers in Coimbatore. All the miscellaneous e-waste such as CDs, batteries, fluorescent bulbs, PCBs, and electronic items are collected and delivered for safe disposal. Minor repairs are addressed by the lab technician with the support of staff members whereas the major issues are repaired by professionally trained personnel. A constituted committee provides recommendations and suggestions on disposal of e-waste in aspects of to whom to dispose and when to dispose.

5. Waste recycling system: Efforts have been taken to recycle and reuse the waste generated inside the campus. The answer sheets used by the college students, old record and waste papers are cut into pieces with a paper shredding machine and then procured for Weighbridge weighing in the presence of the office staff. These paper wastes are sent to Sripathi Paper and Boards Pvt Ltd, Bhavanisagar, a paper mill with a pulping capacity of 70 tonnes per day to make new paper.

6. Hazardous chemicals management: Hazardous chemicals are kept in a store room allocated in the chemistry laboratory and strong acids like HCL, HNO₃, H₂SO₄ are kept in the sand to protect human health, the environment, and ensure compliance with regulatory requirements.