"e-WASTE MANAGEMENT PLAN"
Under the initiative of Eco Club, Alder College

What is e-waste?

Electronic waste (e-waste), is a generic term used to describe all types of **old, end-of-life or discarded electrical and electronic equipments,** such as household appliances, office information and communications equipment etc. E-Wastes are generally destined for reuse, resale, salvage, recycling, or for disposal.

The electronic products can contain heavy metals like **cadmium, lead, copper, nickel, mercury and chromium** that can contaminate the environment. E-Waste contains both valuable and hazardous materials that can cause harm to the environment and human health if not disposed-off properly.

Recycling and disposal of e-waste may involve significant risk to health of workers and communities in developed countries, therefore, great care must be taken to avoid unsafe exposure in recycling operations and leaking of materials such as heavy metals from landfills and incinerator ashes.

E-waste Management includes the following activities:
1. Collection of e-waste
2. Sorting of e-waste
3. Processing of e-waste
4. Repairing of e-waste
5. Recycling
6. Dismantling
7. Component recovery from e-waste
8. Residual Disposal of e-waste

In the table below is a list of e-waste and examples.

e-waste category	Some examples of product
Large household appliances	Refrigerator, freezer, washing machine, cooking appliances, etc.
Information and communication technology equipments	Computer, laptops, mobiles, computer accessories, printers, copying equipments.
Consumer electronics	Toaster, coffee machine, clock, watches, hairs dryers, TV, radio, camera, shavers, etc.
Small household appliances	Vacuum cleaner, watch, grinder, etc.
Electronic and electrical tools	Drills, saws, sewing machines, etc.
Lighting equipments	CFL, sodium vapor lamps, fans, switch, wires, etc.
Toys and sports equipments	Computers, phones, video games, electric trains, etc.
Medical devices	Radiotherapy, cardiology, dialysis equipments
Monitoring and controlling equipments and automatic dispenser	Smoke detector, thermostat, ATM, etc.

Role of Government in E-waste Management in India

The Government has taken a number of steps to formalize the e-waste recycling sector of the country.

Legislative progress on E-Waste Management in India :

1. E-Waste was brought under the ambit of **Hazardous Waste (Management and Handling)(HWM) Rules (1989,2000, 2003)** indirectly.

2. E-Waste was addressed as a separate challenge under **Environment and Forests Hazardous Waste (Management and Handling) Regulations, 2008.**

3. **E-Waste (Management and Handling) Rules, 2011.**

4. **E-Waste (Management Rules), 2016**
   Compact Fluorescent Lamps (CFLs) and other mercury containing lamps were added to the list of e-waste. The Schedule I of the E-waste (Management) Rules, 2016 divided the various Electrical and Electronic Equipment (EEE) into two broad categories. The categories are:
   1) Information, technology and communication (ITEW)
   2) Consumer electrical and electronics (CEEW)
   Link below for more details:
   https://cpcb.nic.in/displaypdf.php?id=aHdtZC9HVUlERUxJTkVTX0VXQVNURV9SVUxFU18yMDE2LnBkZg==

5. **E-Waste (Management) Amendment Rules, 2018**

6. **E-Waste (Management) Rules, 2022** :
   The Ministry of Environment , Forest & Climate Change (MOEFCC), has notified E-Waste (Management) Rules, 2022 which has replaced the E-waste (Management) Rules, 2016. The 2022 Rules has introduced recycling targets in the extended producer responsibility (EPR) plan of the producers of E-Waste.
   Link below for more details:
   https://cpcb.nic.in/uploads/Projects/E-Waste/e-waste_rules_2022.pdf

   Notified electrical and electronic equipment under E-waste (Management) Rules 2022:
   https://eprewastecpcb.in/ieee-list

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E-Waste Management in the Institution

- **The Institution under the E-waste Management Plan aims to create a point source segregation of e-waste in the college campus by setting up a well managed Collection Point.**
- **The Collection Point forms the initial step in channelization of e-waste management activities, under this the Alder College will maintain an e-waste bin and an e-waste storage room.**
- **This will be an internal collection i.e., only the students and the faculties of the college can bring their e-waste and put it in the e-waste bin, which will be later on stored in the e-waste storage room.**
- **After the e-waste is collected in bulk, it will be handed over to registered collector/recycler.**

Why?

- Educational institution generates a reasonable amount of electronic waste, which requires proper management.
- Electronic waste has detrimental effects on our environment, the health of humans and animals and there is risk of having your data stolen.
- Recycling our used electronic devices is important to make sure that everyone takes part in protecting our environment and community.
- It is a step towards the Institute's commitment to impart comprehensive and value-based education through such initiatives the students will experience hands-on learning about e-waste management which will instill a sense of responsibility towards sustainable life style.
- **As per E-waste (Management) Rules 2016**, e**ach stakeholder has a separate responsibility.** Though there is no rule for compliance as an individual consumer, we should support the entire ecosystem to ensure protection of the environment.

Objectives:

- **To reduce e-waste generation.**
- **To sensitize students and faculties on proper e-waste segregation and disposal through hands-on practice.**
- **To create a sustainable e-waste collection channelization system.**
- **To promote & encourage the 3Rs.**

How?

- Organise **"e-waste awareness campaign"** in the campus to engage and spread the key message of proper e-waste management.
- Conduct awareness programmes for students and faculties on safe disposal of e-waste.
- Awareness package including e-waste films, AV-guides, posters and pamphlets dissemination.
- Information session under e-waste management programmes from stakeholders.
- **Set up e-waste bin and e-waste storage room in the college campus.**

Guidelines for e-waste management in the college

1. **E-waste Bin: An e-waste bin** will be provided in the College campus, where the e-waste can be dropped off.

2. Students and faculties can drop their e-waste in the e-waste bin during working hours in the week days (Monday – Friday).

3. **Record Book:** A register will be maintained to keep record of participants and track the effectiveness of the policy. Participants will enter their name, designation, the e-waste product and date of drop-off.

4. **Storage Room** – A storage room will be maintained for safe & proper storage of the e-waste.

5. After every **3 or 6 months** the accumulated e-waste in the storage room will be handed over to authorized collectors/recyclers.

6. The management of the storage room and handing over of the e-waste to registered collectors/recyclers will be overseen by the **Eco Club** with the support and authorization of the College Administration.

(Note: The above mentioned guidelines can be revised subsequently as and when required)

Eco Club: **Principal**
1. **Ms. Wonchano Ezung**   **Alder College**
2. **Ms. Temjensongla Longkumer**   **Kohima**