

## Clean Up & Recycle for Environment: E-Waste Free School Awareness Campaign



Electronic devices has become the integral part of our life. It helps us in our daily life activities, such as mobile phones, Computers, TV, Refrigerator, Ac and etc.

These electronic products are composed of many precious metals such as Gold, Silver, Copper, Arsenic Beryllium, Cadmium, Lead, Mercury, Nickel etc. and nonmetals as PVC (Poly Vinyl Chloride), PCB (Polychlorinated Biphenyl).

These Electrical and electronic equipment containing all above metals and non-metals are hazardous in nature and capable to cause damage once they exposed to human health and the environment if not disposed of carefully. While some naturally occurring substances are harmless in nature, their use in the manufacture of electronic equipment often results in compounds which are hazardous (e.g. chromium becomes chromium VI).

Generally every electrical or electronic device has fixed end of life and after that it becomes non-usable and such non usable are described as Electronic Waste (E-Waste).

### **Environmental threat due to Electronic Waste**

- During polymerization process fugitive emissions are released.
- During product manufacturing various types of gases are released.
- Indiscriminate dumping of electronic waste on land makes the land infertile due to its barrier properties.
- Burning of plastics in e-waste generates toxic emissions such as Carbon Monoxide, Chlorine, Hydrochloric Acid, Dioxin, Furans, Amines, Nitrides, Styrene, Benzene, 1, 3-butadiene, CCl<sub>4</sub>, and Acetaldehyde

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### What should be done for safety of Human beings and environment?

#3R is the solution which means **REDUCE, REUSE & RECYCLE**.



#### **REDUCE**

Buy a product only when there is a dire need for it. Don't just chase the fashion and trend.

#### **REUSE**

When you really need something new, think about who could benefit and re-use your old technology and appliance by donating the outdated electronics to better use

#### **RECYCLE**

The process of recycling converts the hazardous waste and scrap into a usable form giving it a rebirth. Recycling is the last and most effective way of disposing your e-waste in an eco-friendly manner. When you recycle, you stop solid and hazardous waste going to landfill saving the natural resources which can be used to manufacture new products, and reduce the use of raw materials.

### How can a student, school, youth make a difference?

#### **Explore**

- Identify the electronic items in your School, Home, Neighbours, Society that is non usable and lying without no one attention.
- Talk to the concerned person holding the not working electronic items about the harmful effects of E-Waste.
- Activity to understand: Tell him about Bio- degradable and Non-Biodegradable items and try to make a list of his BD and non BD items.

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### Discover

- Find out how many electronic items are purchased every month or an year in your family. Try to trace and calculate the number of electronic which are replaced due to new one, and how many electronic become obsolete in each month. Make a chart of it. This is the electronic waste foot print of your family.
- Help of school Teacher: School Teacher will help the student in making a group of five students. This group will identify the E-waste footprint of his apartment or society.
- Hey Student! Understanding your family, apartment society e-waste program is the key to change, because it will help focus your efforts on the biggest problems, and you may be surprised by what you find.

### Action

- Run E-Waste interaction every Sunday around you.
- Promote 3R Concepts
- Call people to donate their used, obsolete electronics for reuse and recycle helping people in need and save environment.



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