# NIRAVAHANA:

## HOME

A concern for the environment, a passion for design, a desire to innovate…
Niravahana is the platform for you. The event requires participants to come
up with simple, yet creative solutions to everyday design problems.

## PROBLEM STATEMENT:

In recent times, Bangalore city has emerged as a major hub of Electronic as well
as IT industries. However, this resulted in generation of bulk of E-waste or Waste
Electrical and Electronic equipment (WEE). Bangalore was ranked $3^{rd}$ in top ten
cities generating E-waste. (Guidelines of Environmentally Sound Management of
E-waste, 2008)

In view of this existing scenario, present your ideas on effective management of
E-waste in Bangalore city.

You can use the below given data:

STATISTICS ON E-WASTE IN BANGALORE:

- WEE generated in Bangalore (from ToT data)-6,743.87MT/year

| Equipment | Quantity(MT) |
|---|---|
| Personal Computers | 6558.9 |
| Printers | 53.71 |
| Televisions | 76.91 |
| Mobile Phones | 54.35 |

- As per study by E-Parisaraa, per capita e-waste generated per year in Bangalore – 19kg.

Present your ideas on estimating, collecting, handling and treatment of different types of wastes (like household appliances, electrical and electronic tools, IT & Telecommunication equipment etc.)

Describe in detail the methods of waste segregation, collection, storage and disposal, according to the resources available.

## JUDGING CRITERIA:

- o Innovative use of materials, aspects of sustainability and Eco friendly ideas - 50%
- o Presentation- 20%
- o Feasibility of ideas and plan- 15%
- o Cost analysis and analysis of energy efficiency of the plan- 15%

Note: The decision of judges and organizing committee would be final and binding. The organizers reserve the right to modify any of the rules and regulations from time to time in order to maintain a healthy spirit of the competition. Participating teams are requested to check this space for the latest updates

# FORMAT:

The team can include a maximum of three members.

**Stage I:** Teams are expected to send the abstract design, concisely stating ideas and techniques, in MS-Word documents,etc., through email. Teams will be shortlisted based on these documents.

**Last date for submission of Abstracts 20th October 2013**.

**Stage II:** Selected teams will be invited to Engineer 2013 and are required to give a power point presentation showing detailed plan, techniques to be used for better management of E-waste.

# ELIGIBILITY:

The team can include a maximum of three members.

All members of the team should be enrolled as students in an educational institute.

No person can be a part of more than one team.

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