

**Three Day Training Programme**  
**On**  
**E-Waste Management & Recycling options**  
**For Sustainable Development**

**(Dates: 25 -27 October 2017)**



**Programme Director**  
**Mr. J.KoteswaraRao**



**NATIONAL INSTITUTE FOR MICRO, SMALL AND MEDIUM ENTERPRISES**  
**(ni-msme)**  
**(An Organisation of Ministry of M S M E, Govt. of India)**  
**Yousufguda, Hyderabad – 500 045**

## **Rationale**

"E-waste" is a popular, informal name for electronic products nearing the end of their "useful life." E-wastes are considered dangerous, as certain components of some electronic products contain materials that are hazardous, depending on their condition and density. The hazardous content of these materials pose a threat to human health and environment. Discarded computers, televisions, VCRs, stereos, copiers, fax machines, electric lamps, cell phones, audio equipment and batteries if improperly disposed can leach lead and other substances into soil and groundwater. Many of these products can be reused, refurbished, or recycled in an environmentally sound manner so that they are less harmful to the ecosystem. The proposed workshop highlights the hazards of e-wastes, the need for its appropriate management and options that can be implemented.

Advances in the field of science and technology brought about industrial revolution in the 18th Century which marked a new era in human civilization. In the 20th Century, the information and communication revolution has brought enormous changes in the way we organize our lives, our economies, industries and institutions.

These spectacular developments in modern times have undoubtedly enhanced the quality of our lives. At the same time, these have led to manifold problems including the problem of massive amount of hazardous waste and other wastes generated from electric products. These hazardous and other wastes pose a great threat to the human health and environment. The issue of proper management of wastes, therefore, is critical to the protection of livelihood, health and environment. It constitutes a serious challenge to the modern societies and requires coordinated efforts to address it for achieving sustainable development.

According to the Basel Convention, wastes are substances or objects, which are disposed of or are intended to be disposed of, or are required to be disposed of by the provisions of national laws. Additionally, wastes are such items which people are required to discard, for example by law because of their hazardous properties. It comprises a whole range of electrical and electronic items such as refrigerators, washing machines, computers and printers, televisions, mobiles, i-pods, etc., many of which contain toxic materials. Many of the trends in consumption and production processes are unsustainable and pose serious challenge to environment and human health.

According to some of the studies on e-waste assessment, it has been estimated that about 800,000 tonnes of electrical and electronic waste (e-waste) was generated in 2012. The high rate of reuse and refurbishment of electrical and electronic products in India has enabled the growth of the secondary market there by extending the life of the product and only small quantities of e-waste are destined for recycling.

According to MAIT-GTZ study estimates most of the e-waste is recycled in the informal or unorganized sector comprising of small and microenterprises located in and around major cities. Such units use highly polluting technologies leading to adverse effects on environment and health. However, the scenario is changing with the formal e-waste recyclers setting up recycling units.

The Ministry of Environment and Forests, Government of India has notified the e-waste (Management and Handling) Rules, 2011 under the Environment (Protection) Act, 1986. These rules are applicable to the producers of electrical and electronic equipments, the consumers, collection centres, dismantlers and recyclers handling e-waste.

According to these rules every stakeholder in the e-waste value chain is responsible for the ‘environmentally sound management’ of e-waste.

The various provisions under these rules make it mandatory to comply with these rules and non-compliance of any of the provisions under these rules is subject to the penalty and punishment under Section 15 of the Environment (Protection) Act, 1986. These rules have come into force with effect from May 2012.

In this context, a three day training programme covering the above issues, programme is scheduled on 25-27 October 2017 organized at **ni-msme** campus, Yousufguda, Hyderabad.

### **Objective:**

The overall objective of this programme is to provide an insight into various aspects of e-waste management with the respect to the current situation and future scenario.

### **Contents:**

The programme is designed to cover broadly the following topics:

- ✚ Introduction to e-waste management
- ✚ Regulatory Framework & Compliance requirements
- ✚ Composition of e-waste
- ✚ Environmental & health issues
- ✚ E-waste Collection System
- ✚ Extended Producer Responsibility
- ✚ Recycling e-waste: practices & challenges
- ✚ Role of informal sector in e-Waste Management
- ✚ Procedures for setting up e-waste recycling facilities
- ✚ Environmentally Sound Management of e-waste
- ✚ Approach towards effective Management Systems for e-waste
- ✚ Case studies & Group Discussion

### **Methodology:**

The programme shall include class room Sessions with Lectures/discussions, with audio visual aid; bench - marked video shows, Chalk & Talk sessions, group discussions, case studies, sharing of experiences, etc.

All the sessions will be interactive, demanding active participation from all the participants, as required.

### **Target Participants:**

Senior level Managers, Administrators, Corporate Executives, Scientists, Engineers, Consultants, Pollution Control Board officers, Recyclers, those proposing to set up recycling units, NGOs and others find the workshop immensely useful.

### **Faculty:**

Apart from the core Internal Faculty of **ni-msme** Professional Experts from the field of E-waste Management, Regulatory Bodies, Scientists & consultants will be invited to deliver lectures and share their knowledge with participants.

**Programme Venue:**

**Lecture Hall, (New Training Building),  
ni-msme campus,  
Yousufguda, Hyderabad.**

**Dates: 25 -27 October 2017.**

**Timings:**

On the first day, Registration will commence at 09.00 hrs. On all other day, the workshop Timings will be from 09.30 am – 05.30 pm with breaks in between for tea and lunch.

**Fee:**

**Rs 10,500/- (Rupees Ten Thousand and five Hundred only) for Residential Fee** per participant and **Rs 9000/- (Rupees Nine Thousand only) for non-residential**. In addition, **18 % of GST is applicable on course fee**. Fee includes course material, course kit, twin-sharing accommodation as per availability, breakfast, lunch, dinner, tea / coffee and snacks during the actual days of Training Programme.

The payment of course fee, in the form of DD/Cheque drawn in favour of “*Chief Administrative Officer, ni-msme*” payable at *Hyderabad*.

**Certificate**

A certificate of participation will be awarded to each participant on conclusion of the workshop.

Enquiries and nominations may be addressed to:

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**Further Correspondence for Enquiries and nominations addressed to,**

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