

One Week Training Programme  
On  
**RECYCLING OF WASTES IN MSMEs**

23 - 27 August, 2021



Programme Director

**Mr. J. KOTESWARA RAO**

Associate Faculty Member (S.E.D)



**National Institute for Micro, Small and Medium Enterprises**

(An Organization of the Ministry of MSME, Govt. of India and ISO 9001: 2015 Certified)

## BACKGROUND

Increase in volume and types of solid waste have become an unmanageable problem for national and local governments. It has come to be a major challenge for all developing economies. Waste mountains have come to be a regular scene in many cities around the world, especially in the developing countries.

Waste management used to be considered a public good, where municipal authorities provided this service. However municipal authorities alone cannot deal with the challenge of managing waste in today's world, owing to rapid rise in solid waste creation.

Interestingly, the private sector can play a huge role in providing the service economically and efficiently and the role of this sector is well accepted in policy circles across the world. There are multiple benefits arising from increased private sector participation. Apart from the possibility of fast technology adoption, innovation potential in waste management technology and processes and new ways of recycling, Government of India will contribute by creating thousands of new jobs in the recycling and waste management industry and help create cleaner cities and a give boost to a greener economy.

The micro, small and medium enterprises (MSMEs) have immense business opportunities in this sector, because out of the total 4 billion tonnes of waste produced worldwide, just one billion is currently being recovered and only part of them recycled.

There are two aspects that define prospects for private sector, especially, MSMEs in the waste management sector. Firstly, the tremendous speed at which urbanization is happening across the developing economies and secondly, the scope and huge potential for international trade in secondary raw materials recovered from waste. Recycling of waste has huge business potentials and it can emerge as a core sector of the emerging green economy.

## MARKET OVERVIEW

### Solid Waste

With the ever increasing population and urbanization, the waste management has emerged as a huge challenge in the country. About 62 million tonnes of waste is generated annually in the country, of which 5.6 million tonnes is plastic waste, 0.17 million tonnes is biomedical waste, hazardous waste generation is 7.90 million tonnes per annum and 15 lakh tonne is e-waste. The per capita waste generation in Indian cities ranges from 200 grams to 600 grams per day. According to the environment ministry data, about 43 million TPA is collected, 11.9 million is treated and 31 million is dumped in landfill sites, which means that only about 75-80 per cent of the municipal waste gets collected and only 22-28 percent of this waste is processed and treated. To make it worse, waste generation is projected to increase from 62 million tonnes to about 165 million tonnes in 2030.

### Industrial waste

The quantum of industrial waste generation is also on a higher side. More than 8 million tons per annum is India's present hazardous waste generation. Maharashtra (22.84%), Gujarat (22.68%) and Telangana and Andhra Pradesh put together (13.75%) are leading states in the country in hazardous waste generation, followed by Rajasthan, Tamil Nadu, Madhya Pradesh and Chhattisgarh. Just these seven states, contribute to nearly 82% of the hazardous waste generated in the country.

However, it has been estimated that there is a good potential for power generation (about

225 MW from all sewage and about 1500 MW from Municipal Solid Waste) of about 1700 MW. Indian Renewable Energy Development Agency (IREDA) estimates indicate that India has so far realized only about 2% of its waste-to-energy potential. As per MoUD, Govt. of India has set a target of generating 700 MW energy from waste by 2019 (Feb 2016 notification)

### **E-waste**

Recently there are increased concerns on E-waste. The current e-waste generation pattern is 1.7 million tonnes / annum, with an alarming growth rate of 15% each year. The major concern in terms of management of e-waste is, more than 90% of the available e-waste continued to be recycled in the informal sector, in the by-lanes of cities and towns. However, if recycled scientifically, 95-98% of the materials can be recovered and put back in the process of material flow.

### **GROWTH DRIVES**

Waste Management Market is expected to be worth around US \$ 13.62 billion by 2025. Indian Municipal Waste management market is expected to grow at a CAGR of 7.14 % by 2025 while the e-waste management market is expected to grow at a CAGR of 10.03%.

### **FOCUS & OBJECTIVE**

Waste management is an emerging field that offers entrepreneurial opportunities. In this context National Institute for Micro Small and Medium Enterprises (**ni-msme**) is planning to organize a Five day training programme on "**Recycling of Wastes in MSMEs**". Major focus on Business Opportunities in Waste Management: Potentials and Challenges. Future waste management offers many business opportunities for the private sector such as: waste-collection/disposal services; operation of recycling plant; e-waste recycling; Consultancy; equipment supply; organic fertilizer manufacturing; transportation; trade in recycled materials.

The main objective of Training Programme is to sensitize the stake holders on various management issues like source segregation, collection, storage, transportation, processing, disposal of Hazardous Waste and Recycling process in MSMEs.

Also the Training Programme is aimed

- To understand and address the Existing Environmental Problems.
- To explain the rules and regulations of Hazardous Waste Management and their Impact.
- To Create Public Awareness on Hazardous Waste Management.
- To increase the involvement of people and private sector to improve the efficiency of Hazardous Waste Management.
- To Encourage NGOs, Mass Media, Local Body Representatives and other Stakeholders to bring awareness about Environmental Issues related to Recycling of Waste.
- To create awareness among people about the Management of waste handling.
- To reduce and recycle Industrial Waste to the Maximum Feasible Extent.
- To create new employment opportunities in the recycling Industry.

### **METHODOLOGY**

The programme will be organized on training programme model to create Awareness and to encourage people's participation through Interactive sessions and avail the benefits of emerging trends in recycling of wastes.

## DURATION

Five days (23 - 27 of August 2021) from 9.30 am to 5.30 pm.

## TARGET GROUP

Industrial Representatives, Local body Representatives, Recycling Industries Executives, NGO Representatives, R&D cells, Universities/Educational Institutions Representatives, Municipal Authorities including Supervisors and Stake Holders.

## FACULTY

Besides **ni-msme** Faculty, Academicians from Universities/ Expert Resource Persons / Faculty will be engaged from respective fields and areas.

## PROGRAMME COVERAGE

Widely used standardized best topics highlighting the Management Aspects of Industrial Hazardous Waste in India. To achieve Greater Participation of all individuals a common Platform would be provided for Greater Interaction and Exchange of Ideas.

## FEE

**Rs.15,000/- for Residential fee** per participant. **Rs.13,500/- for (Non-Residential Fee)** (In addition 18% of GST is applicable) Fee includes course material, course kit, and twin-sharing accommodation as per availability, breakfast, lunch, dinner, tea/coffee and snacks during the actual days of the training programme.

The payment of fee, in the form of Demand Draft in favour of “**National Institute for Micro Small and Medium Enterprises**” payable at **Hyderabad**.

## OUT COME OF THE PROGRAMME

The Programme is aimed to create awareness among the Public and Responsible Stake Holders for

- ❖ Better coordination amongst the all response and regulatory agencies.
- ❖ More development of community participation.
- ❖ Better understanding of process and procedures to the councils in Waste Management.
- ❖ Better disposal of waste among Community.
- ❖ Better use recycling process.
- ❖ Excellent platform for networking amongst the stakeholders
- ❖ Pollution control Abatements and cleaner technologies
- ❖ Adoption of resource conservation practices as a strategy for competitiveness
- ❖ Understanding of best management practices for promoting sustainable development.

Enquiries and nominations may be addressed to:

The Registrar,

**NATIONAL INSTITUTE FOR MICRO, SMALL AND MEDIUM ENTERPRISES (ni-msme)**  
(An Organization of the Ministry of MSME, GoI and ISO 9001 : 2015 Certified)

Yousufguda, Hyderabad – 500 045.

Tel Ph.No: 91-40-23608544 – 46, 23608317, 23633499.

Fax: 91-40-23608547, 23608956

E-mail: [registrar@nimsme.org](mailto:registrar@nimsme.org) | [www.nimsme.org](http://www.nimsme.org)

# National Institute for MSME (ni-msme) - The Premier Institute

National Institute for MSME (**ni-msme**), the pioneer institute in the field of MSME is playing a major role in providing pro-business environment to foster the progress of MSME towards success and prosperity. The raison d'être of this Institute is to assist the Government in formulating policies for micro, small and medium enterprises and to help the practicing and potential entrepreneurs through a host of services like training, research, consultancy, information, education and extension.

Set up in 1962, National Institute for MSME (**ni-msme**) has made valuable contributions by creating an impressive record of achievements beyond the Indian shores, enabling other developing countries to get the benefit of the Institute's facilities and expertise. The Institute is associated with prestigious world Bodies such as UNIDO, UNESCO, ILO, CFTC, UNICEF, AARDO and GIZ.

**ni-msme's** intellectual activities are pursued by its four Schools of Excellence, viz., School of Enterprise Development (SED), School of Enterprise Management (SEM), School of Entrepreneurship & Extension (SEE) and School of Enterprise Information & Communication (SEIC).

The Institute is having theme focused Centers like National Resource Centre for Cluster Development (NRCD) for helping the MSMEs by implementing the Cluster Development Approach. At present, the Institute is involved in development of more than 50 Rural, Artisan, Industry clusters across the nation and supporting to KVIC, Coir Board, NBCFDC, NSFDC and various state Governments for development of Handlooms, Handicrafts, Food Processing and Textiles Clusters. Intellectual Property Facilitation Centre (IPFC) provide IP advisory services to various research and academic institutions, Clusters, SMEs, Start-ups & Individual innovators. Around 150 SMEs & Start-Ups got benefited from IP registrations such as Trademarks, Patents and designs etc. Goods & Services Tax Cell (GSTC) provide GST registrations and tax compliances, Entrepreneur Development Cell (EDC) and Livelihood Business Incubator (LBI) supports MSMEs for creating a favorable ecosystem for entrepreneurial development in the country. The Institute stores and supplies information that helps to make a successful entrepreneur who is well versed in the intricacies of business and can participate in business activities intelligently and diligently through its Small Enterprises National Documentation Centre (SENDOC). The Institute has been publishing Small Enterprise Development and Management Extension (SEDME) Journal since 1974 in the domain of small enterprises, attracting contributors and users not only from every corner of the country but also from other developing as well as developed nations.

The Institute has trained 5,40,877 participants by organizing 16,106 programmes for Officials from various Ministries of Govt. of India and State Governments. **ni-msme** has also imparted skill training to 1,16,221 educated unemployed youth by conducting 3831 Entrepreneurship & Skill Development training programs (ESDPs). The Institute is implementing ITEC Scheme of Ministry of External Affairs, Govt. of India since 1967 and trained more than 10,350 International Executives from 143 developing countries. **ni-msme** has also completed more than 945 research and consultancy projects.

The management of the Institute rests with the Governing Council appointed by the Government of India. The governing body acts through the Director General. The present Director General is **Smt. S. Glory Swarupa**

*For further details, please contact*



**The Registrar**

**National Institute for Micro, Small and Medium Enterprises**

(An Organisation of the Ministry of MSME, Govt. of India and ISO 9001-2015 Certified)

Yousufguda, Hyderabad - 500 045, India

Tel: 91-40-23608544, 23608546, 23608317, And 23633499, Fax: 91-40-23608547, 23608956

E-mail: registrar@nimsme.org, ar@nimsme.org, **Website: www.nimsme.org**

