



**RESIDENTIAL TRAINING**

# **INTEGRATED SOLID WASTE MANAGEMENT**

**TO SUPPORT IMPLEMENTATION  
OF SOLID WASTE ACTION PLANS UNDER  
SWACHH BHARAT MISSION 2.0**

**JUNE 14-17, 2022**

**Last date to apply: 10th June 2022**

**Anil Agarwal Environment Training Institute  
(AAETI), Nimli, Tijara, Rajasthan**



## COURSE HIGHLIGHTS

### 1. Solid waste management in India: Challenges and agenda

#### SESSION SUMMARY

*An introductory session, focusing on the challenges on the ground towards sustainability and the agenda for change*

### 2. Assessment of the current status

- Waste quantification
- Waste characterisation
- Gap analysis – target, infrastructure, humanpower
- Bulk waste generators
- Integration of the informal sector in the value chain

#### SESSION SUMMARY

*Preliminary assessment of the current situation to understand the gaps; helps create a baseline to prepare a comprehensive plan of action*

### 3. Source segregation – strategy, planning, implementation and monitoring

- Strategy to promote source segregation
- Planning and implementation
- Capacity building
- Monitoring of source segregation results

#### SESSION SUMMARY

*Source segregation is non-negotiable, but we have not paid enough attention to it. This session will focus on the strategies, planning, capacity building and monitoring of source segregation in Indian cities*

### 4. Collection and transportation

- Planning and execution
- Monitoring

#### SESSION SUMMARY

*Collection and transportation of municipal solid waste occupies the largest share of operational expenditure in the SWM value chain. This session will deliberate on creating an efficient collection and transportation mechanism to make it cost effective, environment friendly and sustainable*



The flagship Swachh Bharat Mission (SBM) 2.0, with its heavy focus on solid waste management, is being seen as a potential game-changer for India. The key mission agenda talks about making India “garbage-free”, with components like remediation of legacy waste, and building infrastructure for treatment, processing, recovery, and recycling of municipal solid waste to divert 80 per cent of it from reaching the landfill by 2026. With committed financial devolution of Rs 1.4 lakh crore for the second phase of the Mission, it also brings in an element of “performance-linked disbursement” as an innovative financing instrument to help achieve the mission objectives.

Local governments in India have been given a clear mandate with substantial financial devolution. But achieving the milestones under SBM 2.0 would call for careful assessment of the current situation, efficient planning and implementation of activities aligned with the Mission objectives, and most importantly, a very capable institution on the top to drive the mammoth agenda forward. The magnitude of the Mission creates space for private companies, research institutions, academia, civil society organisations, consultancy firms, startups and others to create an ecosystem to turn waste management services into business models for economic and environmental sustainability, which would be critical to the envisioned success of the Mission.

Centre for Science and Environment (CSE) is offering a tailor made four-days residential training programme for stakeholders and solid waste management practitioners. The high impact training is designed to provide an end-to-end solution to design and implement a robust system of managing solid waste aligned with the principle of circular economy.

## 5. Processing and treatment of various waste streams

- Organic waste management
- Quality monitoring of compost
- Inorganic waste management
- Plastic waste management
- Sanitary waste management
- Domestic hazardous waste management
- Biomedical waste management
- E-waste management

### SESSION SUMMARY

*This session will talk about the policy mandate with reference to the existing rules and management practices to be adopted for dealing with each of the waste streams with technologies, resource requirement, infrastructure, and strategy for implementation in order to make the system affordable and sustainable*

## 6. Extended Producer Responsibility (EPR)

- Plastic waste management
- E-waste management

### SESSION SUMMARY

*This session will focus on the EPR policy framework and implementation modalities, and the institutional arrangement in the implementation value chain based on the principle of “polluter pays”*

## 7. Remediation of legacy waste

- Environmental and health hazards of dumping
- Current status of dumpsites in India
- Approaches to dumpsite remediation

### SESSION SUMMARY

*Remediation of legacy waste is one of the strongest mandates under SBM 2.0 to clean up the garbage mountains, reclaim the lost land and use the extracted waste fractions for gainful application. This session will talk about how the cities can plan the entire operation in the most environmentally sustainable manner*

## 8. Scientific disposal

- Site selection and site investigation
- Landfill design and construction
- Operations and management of sanitary landfill
- Cost
- Key considerations for tendering and procurement
- Case studies

### SESSION SUMMARY

*Unscientific dumping of mixed municipal solid waste is going to cost us more than Rs 1 lakh crore over the next five years. Scientific disposal of inert and process rejects accounts for not more than 20 per cent of the total waste generated in India. This session discusses the key considerations for a sanitary landfill, cost, procurement issues and some good practices so that the unscientific dumping grounds are replaced with sanitary landfills to deal with non-hazardous and non-reactive waste fractions without polluting.*

## 9. Construction and demolition waste management

- Estimation
- Collection and transportation
- Treatment and reuse for revenue generation
- Case studies

### SESSION SUMMARY

*Heaps of C&D waste is a common site in cities. This session will talk about how C&D waste can be a great source of revenue if managed well*

## 10. Instituting sustainable solid waste management by local authorities

- Institutional arrangement for efficient waste governance
- Technologies for digital monitoring
- Adoption and enforcement of local policies (by-laws)
- Creating an enabling environment for private companies

### SESSION SUMMARY

*Appropriate arrangement at the local government level to institute a robust solid waste management is pivotal to its sustainability. This session will focus on critical elements in waste governance, institutional monitoring, by-laws and on creating a level playing field for the private companies*

## 11. Understanding the economy of SWM

- Good practices – learning from the local governments
- Good practices – a sustainable business model

### SESSION SUMMARY

*This session is about learning the economics of waste management to identifying potential areas to reduce expenditure and augment revenue. The session will also talk about how some of the Indian local authorities have taken themselves to a new height as economic model of solid waste management*

## 12. City/Panchayat level Solid Waste Action Plan under SBM 2.0

- Basic information
- Profile
- MSW processing, gap analysis and action plan
- Mechanical road sweepers (as applicable)

### SESSION SUMMARY

*This session will take the participants through the elements of City/Panchayat Solid Waste Action Plan under SBM 2.0 to enable them understand the planning requirements to access the Additional Central Assistance (ACA) for remediation of legacy waste, augment treatment and processing efficiency and achieve the key mission milestones as per the prescribed monitoring framework*





## TRAINING METHODOLOGY

- Presentation-based discussions, including question hour for each session
- Video demonstration
- On-site demonstration
- Group activities
- Role play
- Demonstration of monitoring technologies
- Quiz

## COURSE FEES

Participant's profile	Course fee	Cost to be borne by the nominating authority or by participants themselves	Cost to be borne by CSE
Indian participants	<b>Rs 20,000</b>	Cost of travel from source city to New Delhi and return to the source city upon completion of the training	Course fee is inclusive of travel to the training institute, accommodation, food, training materials, resource person, training kit etc
International participants	<b>US \$300</b>	Cost of travel from source city to New Delhi and return to the source city upon completion of the training	Course fee is inclusive of travel to the training institute, accommodation, food, training materials, resource person, training kit etc
CSE's institutional partner (nominated Government of India, state government and City/ Panchayat officials)	<b>Partially funded</b>	Cost of travel from source city to New Delhi and return to the source city upon completion of the training	Travel to the training institute, accommodation, food, training materials, resource person, training kit etc



## ESSENTIAL TRAVEL INFORMATION

Registered participants will need to reach New Delhi by the afternoon of June 13 and may plan their return travel on June 18, 2022. CSE will arrange pick-up at New Delhi and transportation from New Delhi to Nimli of all registered participants on June 13, 2022. All participants will be transported back to New Delhi (airport/railway station) on June 18 depending on their return travel plans.



SCHOOL OF CIRCULAR ECONOMY

**AAETI**

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