

**NATIONAL WORKSHOP ON
WASTE MANAGEMENT RULES AND
INNOVATIONS IN WASTE MANAGEMENT**

11TH AND 12TH APRIL 2017

Leachate

Remediation

Manifest **MSW** E-waste

Composting

Segregation

TSDF Toxicity Pyrolysis

Hazardous

Compliance

Waste

Preprocessing Collection

Coprocessing Rules

Safe disposal C&D waste

BMW

Increase your
Handprint
Reduce your
Footprint,



HAND PRINT
Action Towards
Sustainability



CEE
Centre for Environment Education

About the programme

The Indian Constitution clearly imposes duty on every citizen to protect environment, Article 51-A (g), says that, "It shall be the duty of every citizen of India to protect and improve the natural environment including forests, lakes, rivers and wild life and to have compassion for living creatures" and Article 48-A reads that "The State shall endeavor to protect and improve the environment and to safeguard the forests and wildlife of the country" because the earth is our paradise and it is our duty to protect our paradise



Reduce

Each of us has a right to clean air, water and food. This right can be fulfilled by maintaining a clear and healthy environment through proper air and water pollution prevention and control as well as scientifically designed and efficient environment management system (EMS). Any material, which is not needed, by the owner, producer or processor is waste. As such, waste is a "Right thing in a wrong place." Almost all the components of different types of wastes have some potential for reuse, recovery and recycle if they are converted or treated in a scientific manner.

India's growth story, especially in the last few decades has resulted in a rapid increase in both domestic and industrial wastes. According to the Ministry of Environment Forest and Climate Change (MoEFCC), Government of India, 67 million tonnes of waste is generated annually in the country at present, out of which 52.6 million tonnes is municipal solid waste, 5.6 million tonnes plastic waste, 0.17 million tonnes is biomedical waste, 7.9 million tonnes is hazardous waste and 0.8 million tonnes is E-waste.



Reuse

MoEFCC notified new version of six Waste Management Rules in 2016 to combat the challenges emerged in waste management. These rules are as under-

- Hazardous and Other Wastes (Management and Transboundary Movement) Rules,
- E-waste (Management) Rules,
- Bio-Medical Waste Management Rules,
- Plastic Waste Management Rules,
- Construction and Demolition Waste Management Rules,
- Solid Waste Management Rules,

The new rules are now applicable beyond municipal areas and have included urban agglomerations, census towns, notified industrial townships, areas under the control of Indian Railways, airports, special economic zones, places of pilgrimage, religious and historical importance, and state and central Government organizations in their ambit.



Recycle


GPCB, CEE and NEERI are organizing this programme which aims to educate and train all stakeholders through highly experienced and eminent experts in the field of environment, from renowned institutes like IIT, NEERI, CPCB, GPCB, PRL, SMC, IGBC, Industries Commissionerate, Govt. of Gujarat and CEE who will elaborate very important provisions of the six waste management rules of 2016 to enable participants to go for sustainable production by using the concept of circular economy and industrial symbiosis. The program will also provide an opportunity to all stakeholders to learn about their actions for conservation of natural resources and restoration of wholesomeness of this planet by their own positive actions i.e. "Hand Print"-positive actions towards sustainability"



Recover


The "Hand Print" concept was launched in 2007 by CEE at UNESCO's 4th International Conference on Environmental Education held at Ahmedabad, India. The hand print represents the belief that we can make a difference through individual and collective actions to solve the environmental problems.

GPCB




Constituted under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 Gujarat Pollution Control Board (GPCB) is a chief regulatory authority under the Forest and Environment Department (F&ED) of Government of Gujarat, which implements environmental legislations. The Board is bringing out tools for industries and citizens highlighting different schemes beneficial to them focusing on 4Rs, good governance, and initiatives for protection of environment, implementation of innovative technologies as well as promotion of R & D in environmental sector. Implementation of E-governance, formation of help desks and environmental clinics, promotion of waste to wealth concept, encouragement to ISO and Responsible Care (RC) certified industries, providing ETP operator training and an initiative to encourage public participation at large and constitution of Paryavaran Rakshak award are the glaring examples of some of the state-of-the-art approaches implemented by GPCB. The state of Gujarat has the largest common environmental infrastructure facilities like CETPs, CMEEs, CSLFs, CHWIFs, CBMWTFs, CMSWDFs, common Spray Dryers, common E-waste recycling facilities and common safe wastewater disposal systems in the entire country. GPCB has ISO 9001:2008, ISO 14001:2004 and NABL accreditation for their office and state of the art laboratory respectively, and has adopted the path of e-Governance as a tool for paradigm shift in environmental management.

NEERI



The National Environmental Engineering Research Institute (NEERI) is a premier R&D organization in the domain of Environmental Science and Technology in India with its Center of operations at Nagpur. Its waste management division has done pioneering work in this area and the focus of their research has always been addressing the contemporary issues, regulations and industrial requirements for the sustainable development. The different aspects of waste management covered and the expertise developed by NEERI are; waste characterization, process based waste minimization approach, waste reduction by advanced chemical treatment processes, reuse, recycle, scientific disposal, secure Landfill design and monitoring, vetting of the designs, modifications, assessment of impacts, safety and performance assessment for Common TSDF sites, MSW, E-Waste and BMW management facilities, development of protocols for the remediation of contaminated sites and many others in this field. NEERI has successfully completed projects of national and international repute for many Industrial organizations, multinational companies, regulatory agencies, and government sectors and assisted Hon'ble courts of the country to issue appropriate directions in the field of environment pollution prevention and control.

CEE



Established in 1984 as a 'Centre of Excellence' under Ministry of Environment Forests and Climate Change, (MoEF&CC) Government of India, Centre for Environment Education (CEE) targets to improve public awareness and capacity building with the help of enforcing agencies through interaction with the stakeholders, to encourage the conservation and sustainable use of natural resources and environmental compliance leading to a better environment and improvement in the quality of life. An International conference on Education as a driver for Sustainable development goals (SDGs) was organized by CEE with UNEP, UNESCO and Government of India. More than 750 delegates from 22 countries participated in this conference. CEE develops interpretation centers and mobile exhibitions. It has designed and developed exhibitions mounted on a train; the "Science Express: Biodiversity Special (2012) and Climate Change Special (2015)."

The Industrial Pollution Prevention (IPP) group at CEE is actively involved in organizing awareness, training and capacity building programmes in the field of sustainable industrial development. Three programmes in the year 2015-2016 on "Industrial wastewater treatment", "AEROSPECTRUM 2015" on Air pollution: status, aspects/impacts, mitigation measures, and "Hazardous Waste Management have been successfully organized. WETSKILLS India 2015 and 2017, an Indo-Dutch Skill development programmes related to water and wastewater aspects, were organized for technical students and faculties of India and Netherlands. Apart from training and capacity building program, IPP group also involved in techno-legal advisory to NGT, Industrial associations and common environmental infrastructure facility operators for improving their compliance, upgrade performance of their CETPs, sustainable production and waste utilization.

Focus Areas

- All six Waste Management Rules notified by MoEFCC in 2016
- 360 degree approach to waste management
- Challenges and Innovations in Solid Waste Management
- Different aspects of landfill sites and remediation of contaminated land
- National scenario and advanced BMW management practices.
- Best Solid Waste Management Practices
- Recent Innovations and technological advancements in the field of E waste Management
- Importance of Co-processing of hazardous waste in cement/steel/thermal power plants,
- Technological innovations and advancements in HWM,
- Advanced C&D waste management practices and Green Building concept
- Ecofriendly management of plastic waste through pyrolysis
- Use of CEPI as a tool for measurement of environmental pollution in industrial clusters
- Schemes of central or state government for financial assistance to industries/common facility operators for improvement in their EMS
- EIA notification 2006—major provisions and recent changes
- Bio medical waste management-case studies

Resource Institutes/Department

- National Environmental Engineering Research Institute (NEERI)
- Indian Institute of Technology, Delhi, (IITD)
- Central Pollution Control Board (CPCB)
- Forest and Environment Department, Govt. of Gujarat
- Industries Commissionerate, Govt. of Gujarat
- Gujarat Pollution Control Board (GPCB)
- Centre for Environment Education (CEE)
- Surat Municipal Corporation (SMC)
- Indian Green Building Council (IGBC)
- Central Institute of Plastic Engineering and Technology (CIPET)

Who should participate?

The Programme is designed for different stakeholders including representatives of the Industrial associations, individual industries, all common environmental infrastructure facility operators like TSDF, CETP, BMW, CHWI, E Waste, BMW, C&D Waste, regulators such as local bodies, State Pollution Control Board, policy makers such as representatives of Department of Environment of State Governments, students, researchers, research and technical institutes, Builders, Cement, Steel and Power plants, NGOs, auditors and consultants and preprocessing facility operators.

Registration

The applicant can register himself by submitting the application form with the registration fees as Stated under through a Cheque /DD in favour of "NFD: CEE A/c IPP".

Registration fees:

1. For Professionals: (Per participant) **Rs.3500/-**
(Rupees three thousand five hundred only)
1. For Students: (Per participant) **Rs.500/-**
(Rupees five hundred only)

For Students, the I-card is must for verification.

For communication/query/

information about the program: Visit www.ceeindia.org or contact

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Reduce



Reuse



Recycle



Recover



Venue:

**Auditorium, Gujarat Pollution Control Board
Paryavaran Bhavan, Sector-10A, Gandhinagar-382010**