



NATIONAL MINIMUM TRAINING PROGRAMME ON **COMPLIANCE, MONITORING AND ENFORCEMENT**

14 February-14 March, 2011

Day-1, 14/02/2011

10:00 – 10:30

Registration

10:30 -11:00

Introduction of participants

Chandra Bhushan, Deputy Director General,
CSE

11:00 -11:15

About Regulatory training programme

Shri J S Kamyotra, Member Secretary, CPCB

11:15 – 12:00

Overview of the training programme

Chandra Bhushan, Deputy Director General,
CSE

12:00 – 12.15

Keynote address

Ministry of Environment and Forests

12:15-12:30 Tea Break

12.30 – 1.00

About CSE

Aditya Batra, CSE

1:00 – 1:30

Library visit

Kiran Pandey, CSE

1:30-2:30 Lunch – CSE Main Building Terrace (5th Floor)

2.30 – 3.30

Environmental challenges in India

Chandra Bhushan, Deputy Director General,
CSE

3:30-3:45 Tea Break

3.45 – 5.00

Movie: Source to Life

Film: Audio Visual Unit, CSE

Day-2, 15/02/2011

10:00 - 11.30

Key provisions of Water Act,
landmark judgement, success stories and
problem associated with Water Act

Dr R C Trivedi, Former Additional Director,
CPCB

11:30-11:45 Tea Break

11:45-1:30

Key provisions of Air Act,
landmark judgement, success stories
and problem associated with Air Act

Dr B Sengupta, Former Member Secretary,
CPCB

1:30-2:30 Lunch – CSE Main Building Terrace (5th Floor)

2.30 – 3.30

Evidence collection and legal sample
collection under Air act, Protocol for
prosecution under Air act

Dr V N Rayudu, Deputy Director - Labs (Rtd),
Tamil Nadu Pollution Control Board

3:30-3:45 Tea Break

3.45 – 5.00

Evidence collection and legal sample
collection under water act, Protocol for
prosecution under water act

Dr V N Rayudu, Deputy Director - Labs (Rtd),
Tamil Nadu Pollution Control Board

Day-3, 16/02/2011

10.00 - 11.30	Environment Protection Act - 1986, various rules under EP Act, implementation of EP Act 1986 through various agencies. Landmark judgement and some success stories under EP Act	Dr B Sengupta, Former Member Secretary, CPCB
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11:30-11:45 Tea Break

11:45-1:30	Issues related to monitoring data verification generated by industries through approved labs. Concept of self-monitoring by industries and usefulness in Indian condition.	Dr V N Rayudu, Deputy Director - Labs (rtd), Tamil Nadu Pollution Control Board
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1:30-2:30 Lunch – CSE Main Building Terrace (5th Floor)

2:30 - 3:15	EP Rules – Hazardous wastes management, key objectives and provisions.	Dr B Sengupta, Former Member Secretary, CPCB
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3:15-3:30 Tea Break

3:30 - 4:15	EP Rules – Noise, key objectives and provisions.	Dr V N Rayudu, Deputy Director - Labs (Rtd), Tamil Nadu Pollution Control Board
4:15 – 5:00	Key landmark judgement and various environmental principles enunciated by the Supreme Court	Mr Sanjay Upadhyay, Lawyer

Day-4, 17/02/2011

10:00 -12:00	Ambient air quality standard – rationale for fixing the standards and procedure followed	Dr B Sengupta, Former Member Secretary, CPCB
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12:00-12:15 Tea Break

12:15 – 1:30	Vehicular pollution control and strategies	Dr H B Mathur, Prof IIT Delhi (Rtd) and Distinguish Fellow, CSE
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1:30-2:30 Lunch – CSE Main Building Terrace (5th Floor)

2.30 – 5.30	Ambient air quality and stack emission <ul style="list-style-type: none">• Network design• Stack monitoring• Meteorology	Dr Rajender Prasad, Chief Executive, Ecotech Instruments
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Tea will be served in between the session

Day-5, 18/02/2011

10.00 – 12.00	Domestic waste water treatment technologies – Existing and Upcoming	Prof Vinod Tare, IIT Kanpur
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12:00-12:20 Tea Break

12:20 – 1:30	Case study of Delhi STPs	Prof Vinod Tare, IIT Kanpur
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1:30-2:30 Lunch – CSE Main Building Terrace (5th Floor)

2:30 – 5:30	Field trip: Visit to Okhla STP	CSE
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Day-6, 19/02/2011

10.00 – 11.30	Concept of consent management, drafting, evaluating and processing of consent applications, application of IT in consent management	Dr. D D Basu, Additional Director, CPCB
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11:30-11:45 Tea Break

11.45 – 12.30	Tools and techniques for data verification,	Dr. D D Basu, Additional Director, CPCB
12.30 – 1.45	Protocol for writing legal notices and responses	Dr. D D Basu, Additional Director, CPCB

1:45-2:30 Lunch – CSE Main Building Terrace (5th Floor)

2.30 – 5.00	Class exercise: How to grant consent?	Dr. D D Basu/ Nivit/Sanjeev
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Day-7, 20/02/2011**Delhi Trip (Qutab Minar, Lal Quila, India Gate)****Day-8, 21/02/2011**

10.00 – 11.30	Brief introduction to small scale industries, pollution potential, treatment options with case studies, clean technologies and waste minimization options and protocol for inspection and monitoring of SSI	Dr B Sengupta, Former Member Secretary, CPCB
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11:30-11:45 Tea Break

11.45 – 1.30	Decentralised wastewater treatment	Mirazuddin, CSE
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1:30-2:30 Lunch – CSE Main Building Terrace (5th Floor)

2.30 – 5:00	Available Treatment technologies for CETPs, including advance technologies and protocol for inspection and monitoring of CETP	Shri Nazimuddin, Environmental Engineer, CPCB
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Day-9, 22/02/2011

10.00 – 1:30	Field trip: Visit to Okhla CETP	Mirazuddin, CSE
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1:30-2:30 Lunch – CSE Main Building Terrace (5th Floor)

2.30 – 5.30	Field Trip: Vasant Vihar Nallah and Hauz Khas Lake	Mirazuddin, CSE
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Day-10, 23/02/2011

10.00 – 11.30	Sugar and Distillery: Pollution, pollution control and prevention	Sujit Kumar Singh, CSE
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11:30-11:45 Tea Break

11.45– 1.00	Mining: Environmental and social challenges and Environment Management Plan	Nivit Kumar Yadav, CSE
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1:00-1:30 Lunch – CSE Main Building Terrace (5th Floor)

1.30 – 2.30	Movie: The black magic	Film: Audio Visual Unit, CSE
2.30 – 5.00	Rainwater Harvesting: Design, operation and maintenance including site visit	Sushmita, CSE

Day-11, 24/02/2011

10.00 – 11.30	Municipal solid waste management – status, disposal techniques and best practices	Dr Sanjeev Aggarwal, Scientist 'C', CPCB
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11:30-11:45 Tea Break

11.45 – 2.00	Thermal Power Plant – Pollution, pollution control and prevention and clean coal technology	Dr. B Sengupta, Former Member Secretary, CPCB
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2:00-2:30 Lunch – CSE Main Building Terrace (5th Floor)

2.30 – 4.00	Water quality objective and standard (surface water and ground water) – rationale and procedure for fixing standard	Dr R C Trivedi, Former Additional Director, CPCB
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4:00-4:15 Tea Break

4:15– 5:30	Protocol for designing network for monitoring and assessment of ground and surface water, monitoring techniques, and use of modern technologies (GIS/GPS) for pollution monitoring	Dr R C Trivedi, Former Additional Director, CPCB
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Day-12, 25/02/2011

10.00 – 11.15	Textile – Pollution, pollution control and prevention	Sujit Kumar Singh, CSE
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11:15-11:30 Tea Break

11.30 – 1.30	Petrochemical and oil refinery – Pollution, pollution control and prevention	Dr Prashant Gargava, Senior Env Engineer, CPCB
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1:30-2:30 Lunch – CSE Main Building Terrace (5th Floor)

2.30 – 5.00	Hazardous waste management: <ul style="list-style-type: none">• Wastes disposal options,• Design criteria of TSDF,• Environmental risk with TSDF,• Protocol for inspection and monitoring of TSDF site <i>Tea will be served in between the session</i>	Dr . N. K Verma, Former Additional Director, CPCB
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Day-13, 26/02/2011**Field visit to NTPC Dadri Thermal Power Plant****Day-14, 27/02/2011****OFF****Day-15, 28/02/2011**

10.00 -11.45	Class exercise: NTPC Dadri inspection report based on site visit	Sujit/Nivit, CSE
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11:45-12:00 Tea Break

12.00 – 1.30	Performance Evaluation of Air pollution control equipments with reference to cyclone, ESP and Baghouse	Dr H B Mathur, Prof IIT Delhi (Rtd) and Distinguish Fellow, CSE
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1:30-2:30 Lunch – CSE Main Building Terrace (5th Floor)

2.30 – 3:15	Understanding CEPI: Methodology, advantages and limitations	Sanjeev, CSE
3:15-5:30	CEPI calculation and class exercise	Nivit/Sanjeev

Day-16, 1/3/2011

10:00 – 11:30	Iron and Steel – Pollution, pollution control and prevention	Umashankar, CSE
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11:30-11:45 Tea Break

11:45 – 1:00	Case study: Sponge Iron Industries and its pollution potential	Sugandh Juneja, CSE
1:00 – 2:00	Group exercise: Site visit preparation	

2:00-3:00 Lunch – CSE Main Building Terrace (5th Floor)

3:00- 4:30	Break	
4:30	Depart for Chittorgarh	

Day-17, 2/3/2011**Visit to Birla Chittor limestone mine and cement plant, Rajasthan****Day-18, 3/3/2011**

10.00 – 2.00	Visit to Partibha Syntex Limited, MP	
2.00 – 4.00	Visit to Hazardous waste landfill site, MP	

Day-19, 4/3/2011

10.00 – 2.00	Visit to Ranbaxy Laboratories Limited, MP	
2.00 – 4.00	Visit to TATA Leather , MP	

**Day-20, 5/3/2011
Return to Delhi****Day-21, 6/3/2011
OFF****Day-22, 7/3/2011**

10.00 – 1.30	Class exercise on drafting notices to industries for violation under EP Act/Air Act/Water ACT	P S Mathur, Law Officer CPCB
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1:30-2:30 Lunch – CSE Main Building Terrace (5th Floor)

2:30 – 5:30	Class exercise: Preparation of inspection report based on field visit (Birla Chittor Cement plant and Hazardous waste landfill site)	Nivit/ Sujit
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Day-23, 8/3/2011

10:00 – 11:30	Class exercise: Groupwise presentation of inspection report	Nivit/ Sujit
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11:30-11:45 Tea Break

11:45 – 1.30	About EIA, legal provisions, screening, scoping and impact assessment,	Sujit, CSE
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1:30-2:30 Lunch – CSE Main Building Terrace (5th Floor)

2:30 – 4:00	Public consultation	Kanchi Kohli, Kalpavriksh
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Day-24, 9/3/2011

10:00 – 11:00	Introduction to air quality monitoring	Dr D Saha, Incharge Air Lab, CPCB
11:00 – 12:00	Sampling and analysis of air pollutants (PM10, PM2.5, SO2, NOx and CO)	Dr D Saha, Incharge Air Lab, CPCB
12:00- 1:00	QA/QC in data generation and calibration of sampling equipment	Air lab, CPCB

1:00-2:00 Lunch – CSE Main Building Terrace (5th Floor)

2:00 – 5:00	Field visit: Monitoring at ITO Station	Air lab, CPCB
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Day 25, 10/3/2011

10:00 – 11:15	Hazardous air pollutant assessment, monitoring and control	Dr B Sengupta, Former member secretary, CPCB
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11:15-11:30 Tea Break

11:30 – 1:00	Air Toxics and its importance in air pollution control	Dr H B Mathur, Prof IIT Delhi (Rtd) and Distinguish Fellow, CSE
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1:00-1:30 Lunch – CSE Main Building Terrace (5th Floor)

1:30 - 2:30	Sampling and analysis technique of VOC/BTX/PAH in air	Dr S K Tyagi, CPCB
2:30 – 5:00	Demonstration of <ul style="list-style-type: none">• GC• HPLC• AAS• UV-VISIBLE	Dr Sapna Johnson, CSE Shri R K Sahu, CSE Dr Nimisha Jadon, CSE

Day-26, 11/3/2011

10:00 – 11:15	Pesticides in the environment and their health impacts	Prof H C Agarwal, Prof (Zoology) - Rtd, University of Delhi and Advisor, CSE
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11:15-11:30 Tea

11:30 – 1:00	Sampling and analysis of physico-chemical pollutants in water and wastewater	Shri R K Sahu, CSE Dr Nimisha Jadon, CSE
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1:00-2:00 Lunch – CSE Main Building Terrace (5th Floor)

2:00 – 4:00	Sampling and analysis of pesticides and other toxic and heavy pollutants	Dr Sapna Johnson, CSE Shri R K Sahu, CSE
4:00 – 5:00	Concluding Session	

Day-27, 12/3/2011**Field visit to Mathura Refinery****Day-28, 13/3/2011****Visit to Agra****Day-29, 14/3/2011****Sight Seeing**