



CENTRE FOR
SCIENCE AND
ENVIRONMENT

COMPREHENSIVE CAPACITY BUILDING PROGRAMME ON Sustainable Decentralised Wastewater Treatment (Including Reuse and Recycle)



February 12-15, 2013

Course Outline

Venue:

**Anil Agarwal Green College
38, Tughlakabad Institution, New Delhi**

Day 1: 12 February, 2013

Session	Time	Topics	Faculty
	11:30 – 12:00	Registration	Water Team, CSE
Module 1: Introduction			
	12:00 – 12:30	Welcome address and About CSE	Ms. B.P. Sridevi, <i>Director, NURM IVI</i> , Dr. Suresh Kumar Rohilla <i>Programme Director, CSE</i>
Module 2: Urban Wastewater and Sanitation – An Overview			
	12:30 – 13:30 Lunch		
	13:30 – 14:30	Urban Water Management – challenges and issues with specific reference to JnNURM	Dr. Suresh Kumar Rohilla, <i>Programme Director, CSE</i>
	14:30 – 15:00	Report card and road map of wastewater management and sanitation in JnNURM mission cities	Dr Deblina Dwivedi <i>Programme Officer, CSE</i>
	15:00 – 15:15 Tea Break		
	15:15 – 16:00	State of Art of Sewage generation and treatment including assessment of septage management in JnNURM mission cities	Dr. D.D. Basu Former Addl. Director, CPCB; Advisor, CSE
Module 3: Decentralised approaches in treating urban sewage			
	16:00 – 16:45	Film- Fecal Attraction: The political economy of defecation	Audio Video unit, CSE
	16:45 – 17:30	Domestic wastewater treatment – existing and upcoming technologies	Dr Deblina Dwivedi <i>Programme Officer, CSE</i>
	17:30 – 18:30	Introduction to Decentralised wastewater treatment systems	Dr Deblina Dwivedi <i>Programme Officer, CSE</i>

Day 2: 13 February, 2013

Module 4: Decentralised approaches in treating urban sewage- Do it yourself

	10:00 – 11:00	Introduction to Soil Bio Technology (SBT)	Dr. Avinash M. Kadam <i>Managing Director, Sugam Paryavaran Vikalp, Pvt. Ltd</i>
	11:00 – 11:15 Tea break		
	11:15 – 12:15	Planning and designing of SBT	Dr. Avinash M. Kadam <i>Managing Director Sugam Paryavaran Vikalp, Pvt. Ltd</i>
	12:15 – 13:00	Clean Your Act	Audio Video unit, CSE
	13:00 – 14:00 Lunch		
	14:00 – 15:00	Planning and designing of DWWT components	Dr Deblina Dwivedi <i>Programme Officer, CSE</i>
	15:00 – 15:15 Tea Break		
	15:15 – 16:00	Economics and cost recovery of DWWT in India	Dr Deblina Dwivedi <i>Programme Officer, CSE</i>
	16:00 – 16:15	Introduction to planning and designing of DWWT components (working in groups)	Ms Parul <i>Research Associate, CSE</i>

16:15 – 18:00	Preparation of plan and design for different DWWT projects	Ms Parul, Research Associate, CSE
Day 3: 14 February, 2013		
Module 4: Decentralised approaches in treating urban sewage (cont.)		
10:00 – 11:00	Constructed Wetlands- Approach and Practices	Dr Deblina Dwivedi Programme Officer, CSE
11:00 – 11:15 Tea Break		
11:15 – 12:15	Preparation of City Sanitation Plans – Strategies under NUSP	Prof (Dr) P. S. N. Rao, SPA, New Delhi
12:15 – 13:00	Bioremediation for Municipal wastewater treatment: Experiences that hold promising solution	Mr. Manu Bhatnagar Principal Advisor, INTACH
13:00– 14:00 Lunch		
14:00 – 18:00	Field trip	Water Team, CSE
Day 4: 15 January, 2013		
Module 5: Wastewater Recycle and Reuse- Policy and Review		
10:00 – 11:00	Recycling and reuse of treated sewage – policy, options and standards	Dr. Suresh Kumar Rohilla <i>Programme Director, CSE</i>
11:00 – 11:15 Tea break		
11:15 – 12:00	Group presentation by participants	Water Team, CSE
12:00 – 12:30	Feedback session: presentation and discussion	Water Team, CSE
13:00 – 13:15	Distribution of certificates	Ms. B. P. Sridevi, <i>Director, NURM IV</i> / Dr Suresh Kumar Rohilla <i>Programme Director, CSE</i>
13:15 – 14:15 Lunch		