

## Methodology during the training programme



Classroom lecture



site visit



Group exercise

## About CSE

The Centre for Science and Environment is a public interest research and advocacy organisation, which promotes environmentally sound and equitable development strategies. The Centre's work over the past twenty years has led it to believe and argue, both nationally and internationally, that participation, equity and community based natural resource management systems alone will lead the nations towards peace and development.

The fundamental principle underlying CSE's water management programme is that the looming water crisis facing the country is not primarily due to lack of water, but rather arises from mismanagement of water resources. The centralised management paradigm has kept the citizens out and taken away their sense of responsibility towards managing their water. Given the growing population and water demand, the government will find it extremely difficult to raise financial resources to meet the growing water needs as well as to clean up the increasing levels of polluted water. The answers to meeting the challenge of the water crisis lie in a participatory, efficient and sustainable water management paradigm. Every person, household, company or community can contribute to this effort by mobilising finances and labour. Thus, water management, from water conservation to water pollution, must become everybody's business.

The Ministry of Urban Development (MoUD) has designated Centre for Science and Environment (CSE) as a Centre of Excellence (CoE) for Sustainable Water Management. This distinction is a result of CSE's past efforts and initiatives on rainwater harvesting, decentralised wastewater management, community based water management, river pollution etc as.

## Training Programme on **DECENTRALISED WASTEWATER TREATMENT SYSTEM**

- Civil Engineers • Architects • Urban Planners
- Environment Consultants • NGOs • Students
- Researchers

**2012–2013**

Centre for  
Science and  
Environment



## TRAINING OBJECTIVE

CSE is organizing training programmes to provide an overview of the existing wastewater treatment practices and will focus on promoting, planning and designing decentralised systems to facilitate recycling and reuse of wastewater.

## PROGRAMME OVERVIEW

The increasing urban population in India along with increasing wastewater generation gives reason for concern and the need for sustainable and affordable water and sewage management practices. There is a big gap between sewage generated and treated in urban centers.

The decentralised approach to wastewater treatment systems is a growing practice which demonstrates the opportunities for implementing sewage treatment in an efficient and cost effective way including reuse and recycle of treated wastewater.



Decentralised wastewater treatment system at Adarsh Vidyalaya, Kurla Badlapur Distt Thane.

## COURSE OUTLINE

The course will provide comprehensive knowledge about the following topics to the participants:

- Water management and status of sewage generation and treatment in India
- Fundamentals of wastewater treatment
- Review of the existing sewage treatment practices
- Decentralised approaches in treating sewage
- New and emerging on-site technologies in domestic wastewater treatment
- Water efficient sanitation practices
- Economics of decentralised wastewater treatment systems
- Planning, designing, implementation and monitoring of localized treatment systems
- Recycle and reuse options for treated wastewater

## TRAINING TOOLS

- Classroom lectures by experts
- Site visits to wastewater treatment and reuse projects
- Practical group exercises
- Presentations by participants
- Reference material
- Film screening

## PARTICIPANTS

Civil engineers, architects, urban planners, environment consultants, NGOs, students and academicians with interest in the theory, planning and designing, practice and policy of urban water management.

## PROGRAMME FEE

Rs 6600/- for two day  
Rs 9900/- for three day

Training fee include CSE course material, site visits, lunch , tea/coffee and snacks during training programme. Please note that accommodation and travel related costs are not included in the course fee. However, CSE can assist on self payment basis.

50% discount for NGOs and students. For others, a concession of 20% is given to the second nominee and onwards. The maximum allowable concession is 20%.

**Discounted seats are limited and offered on first come first serve basis.**

The course fee should be paid in advance by demand draft/cheque in the name of CENTRE FOR SCIENCE AND ENVIRONMENT, New Delhi.

***Participants will get a certificate on the successful completion of the course***

## FELLOWSHIPS

Fellowships are available for participants from Nepal, Sri Lanka, Pakistan, Bangladesh, Afghanistan, Bhutan and Maldives. For the details on the fellowship please visit the link: <http://www.cseindia.org/node/982>

## VENUE



### **Anil Aggrawal Green College**

Centre for Science and Environment,  
38, Tughlakabad Institutional Area (Near Batra Hospital)  
New Delhi- 110062

## FOR REGISTRATION CONTACT

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### **Tentative Training Calendar**

2 day course:  
June 29-30, 2012  
February 16-17, 2013

3 day course:  
September 12-14, 2012