



Centre for Science and Environment

# ANIL AGARWAL DIALOGUES

**EXCRETA DOES MATTER**

MARCH 4-5, 2013 NEW DELHI

Jacaranda Hall, India Habitat Centre, Lodhi Road, New Delhi

## PROGRAMME SCHEDULE

### DAY 1: 4 MARCH 2013, MONDAY

Registration 9:30 – 10:00 am

#### INAUGURAL PLENARY: 10.00 am to 10.30 am

##### Urban India's Water and Waste Challenges

**Introduction to the Dialogue**

SUNITA NARAIN, Director General, CSE

**Chair**

A VAIDYANATHAN, Former Member, Planning Commission

TEA – 10.30 am to 11.00 am

#### SESSION 1: 11.00 am to 1.30 pm

##### Urban Waterscapes – Urban Water Catchments and Commands

**CHAIR:** SHEELA NAIR, Chairperson, Tamil Nadu State Planning Commission

**Water scenario in India**

TUSHAAR SHAH, International Water Management Institute

**Urbanization, industrialization and water conflicts in India**

K J JOY, Society for Promoting Participative Ecosystem Management

**Urban water/sewage reforms in Maharashtra**

MALINI SHANKAR, Water Resources Department, Maharashtra

**Water and sewage challenges of new towns along the corridor**

AMITABH KANT, Delhi-Mumbai Industrial Corridor

**Optimising local water resources and availability in Chennai**

S JANAKARAJAN, Madras Institute of Development Studies

**Meeting Gurgaon's water needs**

PRAVEEN KUMAR, HUDA Administrator

**Barriers to universalising access to water & sewage**

MARIE-HELENE ZERAH, Institut De Recherche Pour Le Developpement

#### SESSION 2: 11.00 am to 1.30 pm

##### Sponging off Urban Lakes

**CHAIR:** M RAMACHANDRAN, Former Secretary, Ministry of Urban Development

**Technical aspects of how to save a lake**

ANJAL PRAKASH, SACIWaters

**Bangalore's lakes and impact on groundwater**

BHARGAVI RAO, Environment Support Group

**Revival of Dal lake**

IRFAN YASIN, Srinagar Lake Water Development Authority

**Agriculture and tourism, the enhanced challenges of Vembanad lake**

N C NARAYANAN, IIT Bombay

**Mansagar restoration model**

RAJEEV LUNKAD, The Jal Mahal Resorts Pvt Ltd

LUNCH – 1.30 pm to 2.30 pm

### SESSION 3: 2.30 pm to 4.30 pm

#### Groundwater – What Lies Beneath

**CHAIR:** G MOHAN KUMAR, Special Secretary, Ministry of Water Resources

<b>Groundwater in urban India</b>	HIMANSHU KULKARNI, Advanced Centre for Water Resources Development and Management
<b>Urban groundwater monitoring</b>	SUSHIL GUPTA, Chairperson, Central Groundwater Board
<b>Designer wetlands for lake rejuvenation and water security</b>	RAKESH KUMAR, National Environment Engineering Research Institute
<b>Legal framework for protection of groundwater</b>	ARCHANA VAIDYA, Indian Environmental Law Offices
<b>Experience of aquifer mapping and groundwater monitoring in urban areas: Case study of Bhuj</b>	YOGESH JADEJA, Director, Arid Communities and Technologies

### SESSION 4: 2.30 pm to 4.30 pm

#### Fouled – Urban Sewage Mismanagement

**CHAIR:** ANIL BAIJAL, Chairperson, National Institute of Urban Affairs

<b>Overview of sewage management in India</b>	DEEPAK KANTAWALA, Independent Consultant
<b>How a utility manages sewage in a metro</b>	GAURAV GUPTA, Bangalore Water Supply and Sewerage Board
<b>Challenges of sewage treatment in India</b>	SHYAM ASOLEKAR, IIT Bombay
<b>Lessons for better sewage management from urban sanitation plans</b>	SRINIWAS CHARY, ASCI Hyderabad
<b>Emerging STP technologies and their cost-effectiveness</b>	ARUNABHA MAJUMDER, Jadavpur University
<b>Time to think out of the box – need of wastewater reuse in India</b>	UDAY KELKAR, NJS Consultants
<b>The economics of sewage management</b>	ABHAY KANTAK, Crisil
<b>Implementation of City Sanitation Plan</b>	DIRK WALTHER, Deutsche Gesellschaft fuer Internationale Zusammenarbeit
<b>Innovative technologies in urban wastewater treatment</b>	VIPUL GOYAL, Degremont

TEA – 4.30 pm to 5.00 pm

### SESSION 5: 5.00 pm to 5.45 pm

#### Special Session

**Chief Guest:** Shri M HAMID ANSARI, Hon'ble Vice-President of India

<b>Why Excreta Matters</b>	SUNITA NARAIN
<b>Keynote address</b>	A VAIDYANATHAN
<b>Chief Guest's address</b>	Shri M HAMID ANSARI, Hon'ble Vice-President of India

### SESSION 6: 6.30 pm to 9.00 pm

#### Strategy Meeting for Lake and River Warriors (Core 6A, 4th Floor, IHC)

**CHAIR:** K L VYAS, Osmania University

**Evolving a common strategy for future action**

T Mohan, Yogesh Jadeja, Anjal Prakash, Tej Razdan, Anil Mehta, Harsh Vardhan, Bhartendu Prakash, Suresh Raikwad, Rajendra Singh, S Janakarajan, Ranjan Panda, Partha Das, Govind Pandey, Kiran Sood, Parineeta Dandekar, Ravi Singh, D K Joshi, Manu Bhatnagar, R M Bhardwaj, Ritesh Kumar, Leo Saldanha, Bhallu Mondhe, N C Narayanan, Anu Mehrotra, Sudha Bhattacharya, A L Ramanathan, Raman Kant, Rajkumari Rao, Colonel Oberoi, Ritwick Dutta, Tushar Pancholi, Jasveen Jairath, Mahesh Pandya, Neha Patel, Sanjay Singh, Arunabha Majumder, Rajeev Lunkad, Archana Vaidya, Rochamliana, Sandeep Joshi, Latika Thukral, Jayant Chaudhary, Irfan Yasin, Mhaveer Sukerlai, A K Patnaik, Priyanie Amerasinghe, Anita Rana, Suneel Joshi, Raman, A B Gupta, Mohit Kumar Ray, Vishwa Vijay Singh, R C Trivedi

## DAY 2: 5 MARCH 2013, TUESDAY

### SESSION 7: 10.00 am to 11.30 am

#### Killing Rivers – Revival Strategies

CHAIR: ROHINI NILEKANI, Chairperson, Arghyam

Growing challenge and causes of river pollution	R C TRIVEDI, Former Scientist, Central Pollution Control Board
Saving rivers	RAJENDRA SINGH, Tarun Bharat Sangh
Safeguarding rivers and watersheds, case study of Bangalore	LEO SALDANHA, Environment Support Group
Overview of Ganga river pollution	R M BHARDWAJ, Central Pollution Control Board
Case study of Noyyal river pollution	T MOHAN, Madras High Court Appointed Commissioner
Restoration and conservation of Chite Lui	ROCHAMLIANA, Zoram Research Foundation
Case study of Musi river pollution	PRIYANIE AMERASINGHE, IWMI

TEA – 11.30 am to 12.00 pm

### SESSION 8: 12.00 pm to 1.30 pm

#### Clean Up – Decentralised Sewage Management as an Alternative to Pipes Pumps and Plants

CHAIR: AJAY SHANKAR, Member Secretary, National Manufacturing Competitiveness Council

Green Bridge - In situ treatment	SANDEEP JOSHI, Shrishti Eco-Research Institute
Potential of soil bioremediation	H S SHANKAR, IIT Bombay
Turning sewage into a resource	SAMPATH KUMAR, Nualgi Nanobiotech
The cost of alternatives in sewage management	STANZIN TSEPHAL, Consortium for DEWATS Dissemination Society
Restoration of Mithi river	MAMTA TOMAR, JM Enviro Pvt Ltd
Cleaning at the Kumbh with bacteria	VARUN ARORA, Greenways
Threats and remedies for urban lakes	MANU BHATNAGAR, INTACH
Innovative, ecological and economical means to treat wastewater	SANJAY AGGARWAL, Clover Organics Pvt Ltd

LUNCH – 1.30 pm to 2.30 pm

### SESSION 9: 2.30 pm to 4.00 pm

#### Brown Gold or Plain Excreta – Is Sewage a Resource

CHAIR: DEBASHREE MUKHERJEE, CEO, Delhi Jal Board

Challenges of sewage management in small towns	ASHISH MATHUR, JUSCO
Case studies from Gujarat of sewage reuse	ALKA PALRECHA, People in Centre
East Kolkata wetlands as a water reuse system	DHRUBAJYOTI GHOSH
Surat's story on sewage treatment and reuse	ANAND MADHAVAN, ICRA Management Consulting Services Limited
The health implications of reusing sewage	NANDINI SHARMA, Maulana Azad Medical College
Effects of sewage use on soil quality	RAHUL BAKARE, Arghyam
Best water reuse practices in industry	RAMANI IYER, Forbes Marshall

### CLOSING PLENARY: 4.30 pm to 5.30 pm

#### The Future Does Not Have to Be Dry

HIGH TEA – 5.30 pm



"This political economy of defecation is a topic nobody talks about. Sewage systems constitute an ecologically mindless technology. Consider first the large amount of water that is used just to carry away a small quantity of human excreta. Big dams and tubewells are needed to bring this water home leading to enormous environmental problems. Then large quantities of water that get flushed down the toilet pollute rivers and large water bodies.

This...nobody talks about. It is neither rational, just or sustainable."

Anil Agarwal  
*Founder Director CSE*