

CONCLAVE CUM SENSITIZATION WORKSHOP ON MAKING WATER SENSITIVE CITIES IN GANGA BASIN AIMED AT IMPROVING RIVER HEALTH/FLOWS

MARCH 15, 2023 | JUNIPER HALL, INDIA HABITAT CENTRE (IHC), LODHI COLONY, NEW DELHI

Context setting

March 15, 2023

About CSE and our work

Set up in 1980's, Delhi – as a registered non profit society.

An institution to bridge the gap between information and knowledge; between knowledge and public awareness; to influence public policies and practices for sustainable development –





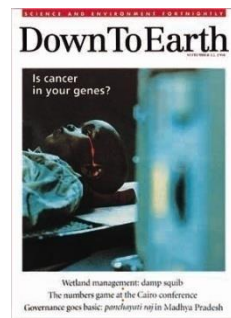
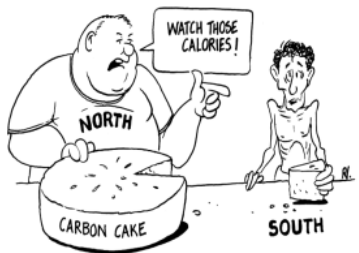


‘to promote sustainable development with equity, participation and democracy’.

Need to leapfrog to new answers...

New ways of progress. About deepening democracy to secure rights and access to resources. About building institutions from national to local levels. About strengthening regulatory measures for environmental protection



40+ years, 150+ staff, learning, sharing and pushing for change

Policy research & advocacy	Documenting to build knowledge	Disseminating knowledge	Training & education
Sustainable mobility & Clean Air 	Knowledge portal	Down To Earth	Green School Programme
Sustainable habitat	Climate change Resource Centre	Gobar Times	Media Resource Centre
Sustainable industrialization 		CSE Websites	Anil Agarwal Green College/ Environment Training Institute
Sustainable Water - Waste water management 		Books 	Regulators training
Climate change		Films 	South-South Learning, training and capacity building
Renewable energy			
Food safety & toxins			

- Awarded Stockholm World Water Prize in 2005
- CSE Regional- South Asia 2008-13
- CSE Global -2014 and beyond

A global south based think tank and capacity building institution, Linking national- global and contributing in global dialogue/ processes

CSE is designated –

- **Centre of Excellence** - Urban Development :Sustainable Water management area and Centre for **Applied Research & Capacity Building Training Entity** for Urban Local Bodies under AMRUT & SBM National Missions in **Engineering, Town Planning and Public Health Area** - designated by the Ministry of Housing & Urban Affairs, Govt. of India
 - MoU with **State Govt. of Odisha, A.P, Jharkhand.**
 - Programme cum Technical Support to **Uttar Pradesh** State Govt.
- **Nodal centre for training of Environment Regulators-** Ministry of Environment , Forests and Climate Change, Govt. of India
- **National hub for knowledge creation and capacity building –** Ministry of Jal Shakti, Government of India





Aim & Objectives

to help establish policy principles, innovative technologies and **implementation strategies** for water and wastewater management and

efforts directed towards meeting twin goals of laying foundations for

a **water prudent society** and **adapting to climate change**.

SWW - Capacity Building Focus Area :

Water

- » Water Sensitive Urban Design & Planning (including rainwater harvesting),
- » Green Infrastructure and Nature Based Solutions
- » Urban Lake Management
- » Water and Communication
- » Tools and Approaches for Citywide Water
- » Water Woes

Sanitation & FSM / Septage Management

- » Citywide Inclusive Sanitation (CWIS),
- » Tools and Approaches for Citywide Sanitation (including Preparing City Sanitation Plans / Shit Flow Diagram)
- » Decentralised Wastewater Treatment including Reuse
- » Faecal Sludge / Septage Treatment
- » Sanitation Safety Plan
- » SFD Week 2019

Training and Capacity Building Activities

- Short Training
- Exposure Visit
- Webinars
- Online Courses
- Knowledge Conclave
- Off Site Tailor made Training
- Alumni Networking Meeting
- 900 + fellowships (2017-22)**
- both International and National. Cover flight, Accommodation and Training fees.**
- Participants from Global South -Africa get priority



- Working with identified partners / multipliers both state and non – state for past **12 years and beyond with 5000+ alumni**

Developing a demand driven research, capacity building and awareness creation programme.

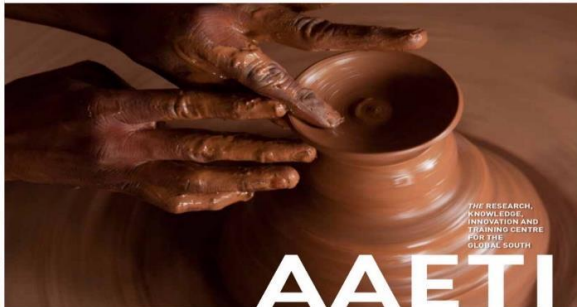
.... aimed at mainstreaming designing and implementing affordable and sustainable citywide sanitation (incl. water) for all .



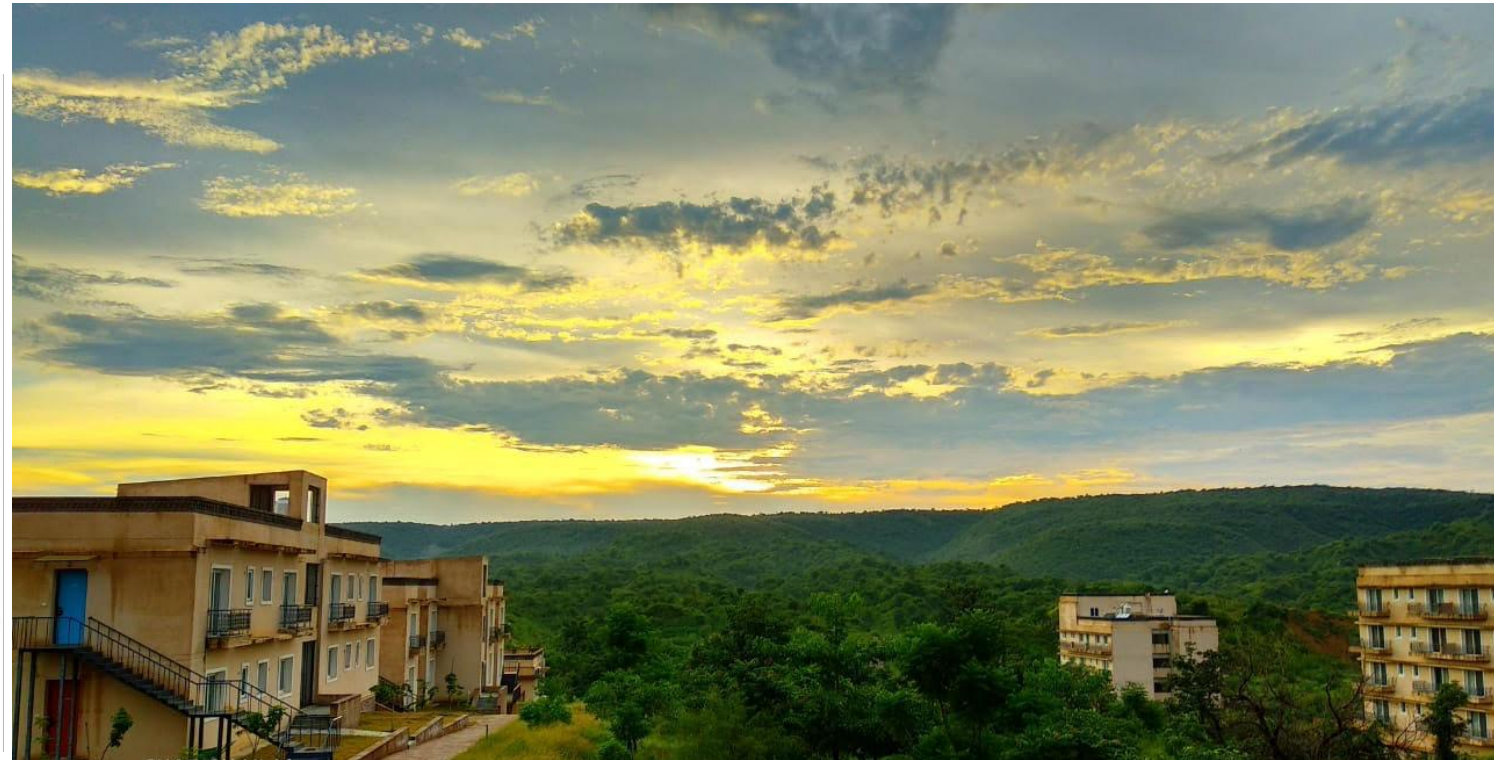
AAETI



School of Water and Waste



AAETI
ANIL AGARWAL
ENVIRONMENT
TRAINING
INSTITUTE



A **teaching - learning and innovation centre** that is designed to find appropriate and **affordable solutions** for key problems of **India and the global south**.

About the CSE-NMCG Programme

➤ Vision:

Making **Ganga basin cities water-sensitive** for improved river health.

➤ Aim:

Capacity building initiatives, action research and developing model projects for making cities in the Ganga basin water-sensitive, by **improving the river flow and health with water-sensitive urban design and planning**.

➤ Objectives:

- Sensitize and **build capacities of 1,300+ municipal and state functionaries**, elected representatives and other key actors as well as the National Mission for Clean Ganga (NMCG) team in making cities water-sensitive.
- Help improve **convergence of programmes** like Jal Jeevan Mission, Atal Bhujal Mission, Jal Shakti Mission, Atal Mission for Rejuvenation and Urban Transformation (AMRUT) and Swachh Bharat Mission.

➤ Programme Tenure: **3 years**



Three Year Activity Plan:

- # **40+ activities over 3 year** - 24 Training (incl. 12 no. online) , 12 webinars , annual knowledge conclaves & field exposure visits for **capacity building of 1300+ state / development authorities / municipal functionaries**
- # Develop **Practitioner's Guide (5 no.s) on thematic focus areas**
- # **Helpdesk & Web portal** for handholding support to design and implement model WSUDP intervention as model projects



Programme Highlights



CAPACITY BUILDING

To improve capacities and understanding about issues of decentralized water management and augmenting water supply through rainwater harvesting, decentralized sewage including septage management and reuse or recycling of wastewater.



RESEARCH

To secure sustainability in urban water management for improved river flow and health.



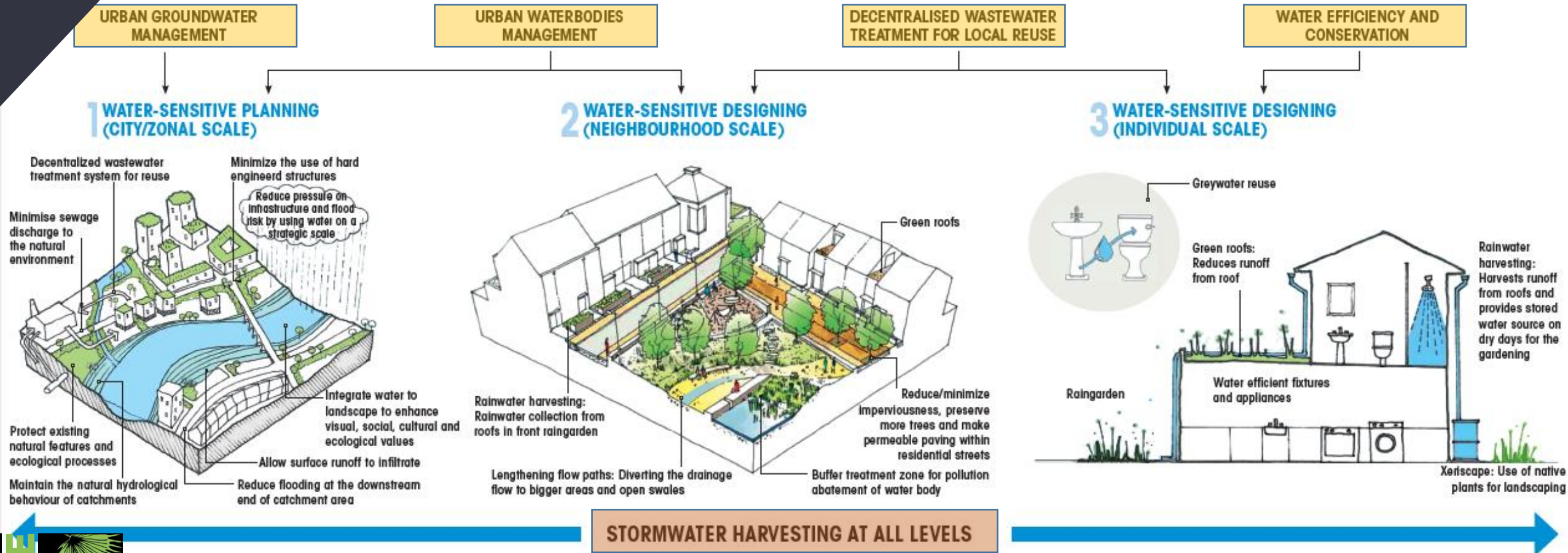
**TECHNICAL KNOWLEDGE SUPPORT
FOR MODEL PROJECTS**

To increase knowledge about best practices regarding sustainable water and wastewater management including rainwater harvesting; sewage treatment; reuse and recycling of wastewater; water efficiency; and conservation, protection and management of urban water bodies;

Key Thematic Focus Areas

The comprehensive vision of this project is to promote water- sensitivity of cities in the Ganga Basin. The vision is being achieved through five key thematic focus areas

Water Sensitive Urban Design & Planning - Concept and Approach



Capacity Building & Action Research: Oversight Planning Committee (18 members)

An advisory committee comprising sector experts to strengthen the efforts of CSE for efficient design and delivery of the proposed capacity building project has been developed.

WATER SENSITIVE URBAN DESIGN & PLANNING

RAINWATER HARVESTING, WATER EFFICIENCY & CONSERVATION AND DECENTRALISED WASTEWATER TREATMENT & LOCAL REUSE.



Venkatesh Dutta
Professor,
SEES, BB Ambedkar
University, Lucknow



P Z Thomas
Managing Director,
EEPCL



Himanshu Joshi
Professor, Department
of Hydrology,
IIT Roorkee



Deepak Khare
Professor, Water
Resources Development
& Management,
IIT Roorkee



Manu Bhatnagar
Principal Director,
Natural Heritage
Division, INTACH,
New Delhi



Somanth Sen
Associate Professor,
IIT Kharagpur



Sumit Sen
Head and Associate
Professor, Department
of Hydrology,
IIT Roorkee



Victor Shinde
Sector Coordinator for
Water and
Environment,
NIUA



Nadeem Khalil
Professor, Department of
Civil Engineering,
Aligarh Muslim University



S.K. Sharma
Groundwater Expert
Former Member
(Technical), CGWB



Rajiv Sinha
Professor,
Department of Earth
Sciences, IIT Kanpur



Somnath Bandopadhyay
Associate Professor
Nalanda University,
Bihar



Shashank Shekhar
Professor (Geology),
Delhi University



Mohit Ray
Independent
Environmental
Consultant
& Activist



K.J. Anandha Kumar
Scientist
(Hydrogeologist)
(Retd.), CGWB



Meenakshi Dhote
HOD, Dept. of
Environment Planning,
SPA, Delhi



Ritesh Kumar
Head, Wetlands
International, South
Asia, WI-SA



Venkatesh Dutta
Professor,
SEES, BB Ambedkar
University, Lucknow

Capacity Building & Action Research: External Trainers (29 in nos.)

WEBINARS & ONLINE TRAININGS



Rajiv Ranjan Mishra
Director General
National Mission for
Clean Ganga (NMCG)
India



Sunita Narain
Director General
Centre for Science and
Environment (CSE)
India



G. Mathi Vathanan
Principal Secretary,
HUDD, Odisha



Vandana Menon
Independent
Consultant, New Delhi



Stanley Samuel
CEO Ecosoft Pvt Ltd,
Singapore



Sanjay Prakash
Managing Director
SHIFT Architects



Abhinav Pandey
Head of Studio
SHIFT Architects



Jigisha Jaiswal
C-WAS CEPT,
Ahmedabad



Victor Rana Shinde
Lead: Water and
Environment
NIUA



Somnath Sen
Retd.
Associate
Professor. IIT
K



Mr Manu Bhatnagar
Principal Director,
Natural Heritage
Division,
INTACH, New Delhi



Dr Ritesh Kumar
Head,
Wetlands
International,
South Asia



Ashok Kumar Singh,
IAS,
Executive Director
(Projects),
NMCG



Dr Ravinder Kaur
Principal Scientist,
WTC,
IARI



Dr Mohit Ray
Environmental
Consultant and
Activist



Tanmay Kumar
Project Engineer
CH2M HILL



P.Z. Thomas
Managing Director
EEC Pvt. Ltd



Jamie Ewert
Monash University
CRC for Water
Sensitive Cities



Sandhya Haribal
Senior Project
Manager
CDD Society



Eli Cohen
Founder and CEO,
Ayala Water &
Ecology, Israel



Vijay Kumar Chaurasia
Joint Advisor,
CPHEEO, MoHUA,



Nadeem Khalil
Professor
Aligarh Muslim
University



Dr K.S. Jayachandran
(Delhi Pollution
Control Committee)



Veena Srinivasan
Senior Fellow
(ATREE), Bangalore



S. Vishwanath
Director-Biome
Environmental
Solutions, Bangalore



Vivek Jangde
Dy. General
Manager
ESTPL



Dr Mansee Bal Bhargava
(EDC), Ahmedabad



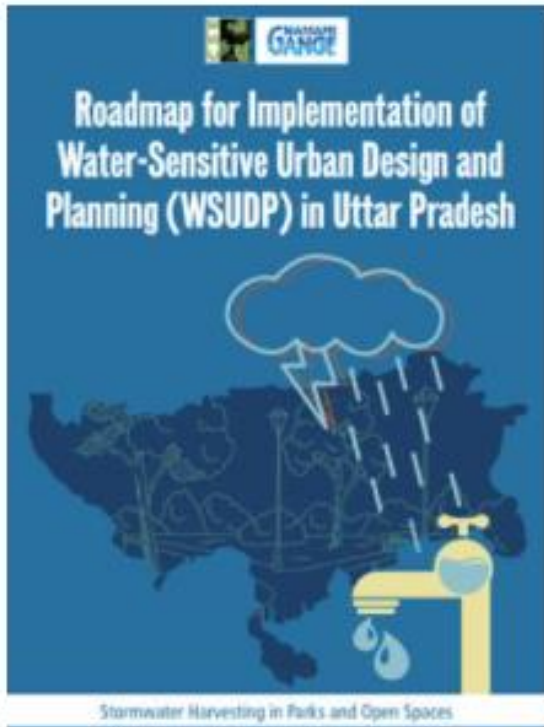
Ramveer Tanwar
Pondman
Environmentalist



Lokendra Thakka
Officer Incharge,
GoMP State
Wetland Authority

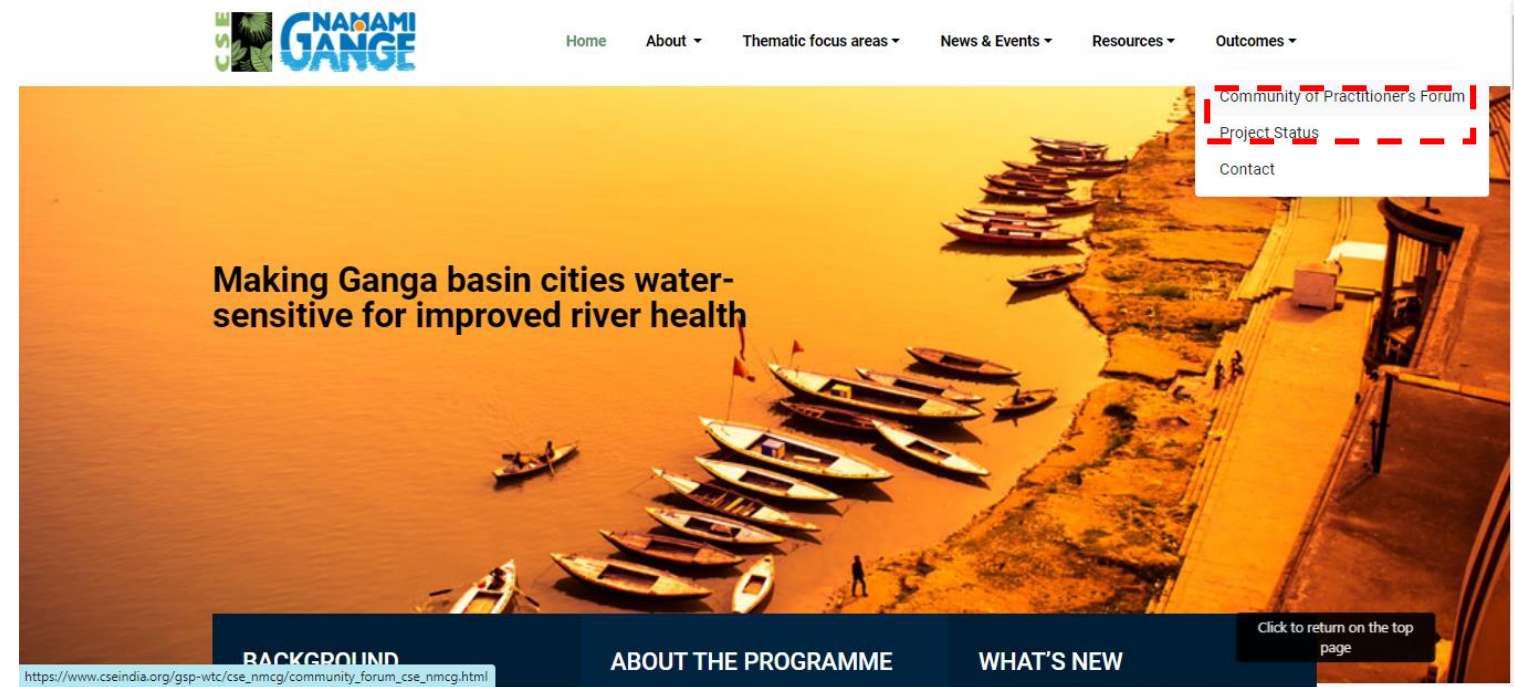
RESIDENTIAL TRAININGS

Report

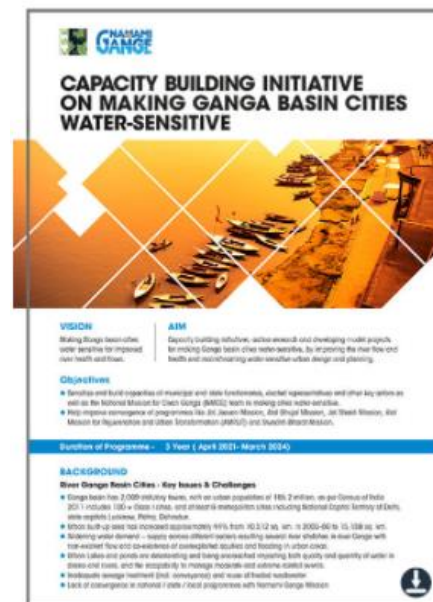


Total Downloads: 837

Programme
Brochure in Hindi
and English



Web Portal and Helpdesk



About the Conclave cum Sensitization Workshop on

Making water sensitive cities in Ganga basin aimed at improving river health/flows

The knowledge conclave is one of a series of activities under the 3-year partnership (2021-24) between Centre for Science and Environment (CSE), New Delhi, and National Mission for Clean Ganga (NMCG) for making water sensitive cities in Ganga basin' aimed at improving river health/flows.

Aim

- CSE has developed a set of learning collaterals under the NMCG-CSE partnership. To present them for peer review and to engage to develop a shared understanding of challenges and priorities in water, storm water, lakes and water bodies, decentralised waste water treatment systems and septage management challenges.
- The conclave is aimed at generating a deeper insight and engagement with key experts and city officials, academia and NGOs, on these critical issues.
- To use this opportunity to engage with a larger audience on what is appropriate for a global south water sensitive cities framework, as a contribution to river basin cities and to the global discourse.

Chair and Moderators: **Rajiv Ranjan Mishra** (Chief Advisor, NIUA)
& **Depinder Kapur** (Director, Water Programme, CSE)

09:00-10:00 AM	Registration	Session 2- Urban Lakes and Water Bodies	
10:00-10:15 AM	Welcome Address - Context setting for the event and Programme- Sumita Singhal, Programme Manager, CSE	12:00 Noon- 1:30 PM	Opening Presentation: Shivani, Senior Research Associate, CSE
10:15-10:30 AM	Keynote Address - G. Asok Kumar, Director General, National Mission for Clean Ganga (NMCG) Sunita Narain, Director General, CSE		Panellist 1: KS Jayachandran, Special Secretary, (Environment and Forests) Delhi Government
10:30-11:00 AM	Tea Break		Panellist 2: PG Ganapathy, Senior Advisor, CDD Society
Session 1: Storm water Management			Panellist 3: Ritesh Kumar, Director, Wetlands International South Asia
11:00 AM- 12:00 Noon	Opening Presentation: Shivani, Senior Research Associate, CSE		Panellist 4: Anil Bharti, Additional CE, Construction of Water Bodies and Innovation Cell, Delhi Jal Board
	Panellist 1: Samrat Basak, Director, Urban Water Resilience, World Resource Institute)		Panellist 5: Venkatesh Dutta, Professor, School of Earth and Environmental Sciences (SEES) BBAU
	Panellist 2: Mayank Mishra, Principal at SHiFt Studio For Habitat Futures		Panellist 6: Nidhi Dwivedi, Project Officer, National Mission For Clean Ganga
	Panellist 3: Vandana Menon, Independent consultant		
	Panellist 4: Rohit Kakkar, Deputy Advisor, CPHEEO, MoHUA		
1:30-2:30 PM			Lunch Break



Chair and Moderators: **Rajiv Ranjan Mishra** (Chief Advisor, NIUA)
& **Depinder Kapur** (Director, Water Programme, CSE)

Session 3- Water Sensitive Cities Framework

2:30-3:30 PM

Opening Presentation:

Depinder Kapur, Director, Water Programme, CSE

Panellist 1:

Manu Bhatnagar, Principle Director, Natural Heritage Division, INTACH

Panellist 2:

Jagan Shah, Senior Fellow, Artha Global

Panellist 3:

Tarika Gulati, Water Resources Expert, Alluvium Consulting India

Panellist 4:

Vishal Singh, IAS, Municipal Commissioner, Ayodhya

Panellist 5:

Himansu Badoni, Executive Director (Projects), National Mission For Clean Ganga

Session 4- Decentralised Waste Water Treatment Systems Co Treatment of Septage and Sewage

3:30-4:45 PM

Opening Presentation:

Decentralised Waste Water Treatment Systems:

Jyoti Parsad, Programme Officer, CSE

Co Treatment of Septage and Sewage:

Sumita Singhal, Programme Manager, CSE

Panellist 1:

Dhawal Patil, Co-Founder, Saniverse Environmental Solutions

Panellist 2:

Sarith Sasidharan, Senior Manager, EY

Panellist 3:

Avinash Y., Practice Lead, National Institute of Urban Management

4:45-5:00 PM

Closing remarks and feedback

Depinder Kapur, Director, Water Programme, CSE