CSE-NMCG Online Training Programme on
Rainwater Harvesting and Storm water Management for Climate Resilient River Cities

January 29- February 14, 2024

Proceedings of Training

School of Water and Waste, CSE in partnership with National Mission for Clean Ganga (NMCG), Ministry of Jal Shakti, and Government of India organized the online training “Rainwater Harvesting and Storm water Management for Climate Resilient River Cities” from January 29th to February 14th 2024.

A total of 156 Nominations received in which total 93 participants took part in the training overall from 14 different states across India. The training included around 83 percent males and about 17 percent females. The participants profile was spread across various diverse background including government officials, planners, engineers, architects working in Town & Country planning/ Municipal Administration Department or State Urban Development Authorities and engineers and planners working with Jal Nigam or Jal Sansthan, pollution control board etc. from various states across India.

The training started formally on the January 30th, 2024 with an introductory session with the participants. In this session an introduction to the training program was given to the participants, explaining the format of training which included virtual session and online session on the Moodle.

Mr. Vivek Kumar Sah, Programme Officer, Water Programme, CSE in his welcome address highlighted the need of water efficient practices to be adopted at individual, neighborhood as well as city level also he highlighted the process of how to use the Moodle.
The first virtual session of the training was held on October January 31st, 2024 from 03.00 pm to 5.00 pm. The session was taken by Dr. Ashok Kumar Professor of Planning and coordinator, Center for water studies, School of Planning and Architecture on “Water Sensitive Planning: Approach for cities in Global South”. Dr. Kumar highlighted why water sensitive planning is important for a climate resilient world. He also talked about spatial components and their use in water sensitive planning. A total of 80 participants attended the virtual session.
Virtual Session-2 (February 5, 2024)

The second virtual session was held on February 5th at 03:00 pm to 5:00 pm where Dr. A.K Gosain, Emeritus Professor, from IIT Delhi delivered a very interactive session on “Managing storm water drains in the cities – issues and solutions – case study Delhi”. He talked about use of GIS and other hydrological tools for planning of stormwater drains. He highlighted the case study of Delhi and their solutions such as Storm water from localities should be diverted to Parks to reduce flooding as well as induce groundwater recharge. A total of 71 participants attend the virtual session.

![Data Analysis: Storm Drain and DJB Sewer Connectivity](Image)

*Figure 3: Virtual Session-2 Taken by Dr. A K Gosain*

Virtual Session-3 (February 8, 2024)

The Third Session was held on February 8th at 03:00 pm to 05:00 pm. The session was taken by Mr. Krishna Jhawar, CEPT University on “Integrating urban flood management with Water Sensitive Urban Design.” He presented his case study on mainstreaming water sensitive concepts through spatial planning. Where he talked about the basics of sustainable urban drainage systems as well as use of digital elevation model for better planning. A total of 67 participants attended the session.
Virtual Session-4 (February 12, 2024)

The fourth session and concluding session of the online training was held on February 12th, 2024 at 03:00 to 05:00 pm. The session was taken by Dr. Rohit Goyal, Professor (HAG), Department of Civil Engineering, MNIT Jaipur on “Groundwater Governance-Policy framework and Urban Groundwater”. He talked about the need of rainwater harvesting, benefit of rainwater harvesting and about the options. He also explains the designing concepts of several rainwater harvesting structures and their potentials .he presented the case study of MNIT Jaipur Rainwater harvesting system. A total of 73 participants attended the session.
Figure 5: Virtual Session- 4 taken by Dr. Rohit Goyal