Every city in India can be called a river city. Almost all have waterbodies flowing through them or near them. But the fate of most of these waterbodies is a matter of concern. Many are severely polluted. Others have been filled up and built over. With the demise of these ‘sponges’, the drainage capacity of most cities has been destroyed, leaving them open to threats from extreme storm events and urban flooding.

The solution lies in understanding the challenges of rapid urbanisation and devising engineering solutions accordingly – for instance, rainwater can be collected and diverted through correctly designed drains to different water harvesting structures such as waterbodies to recharge the groundwater and avoid waterlogging.

Centre for Science and Environment (CSE) invites nominations/applications for a two-part training programme, which is a part of the three-year CSE sub-programme supported by the National Mission for Clean Ganga (NMCG), aimed at building capacity of cities in the Ganga basin and making them water-sensitive. It is a part of the ongoing efforts by NMCG for ensuring convergence of Namami Gange with other national missions such as AMRUT 2.0, Smart Cities and SBM 2.0.

**TRAINING PROGRAMME**

**RAINWATER HARVESTING AND STORMWATER MANAGEMENT FOR CLIMATE-RESILIENT RIVER CITIES**

**ONLINE AND ONSITE**

A two-part training programme that teaches you to reinvent water management in cities

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**PART A (ONLINE)**

**January 29-February 14, 2024**

Open to Indian and foreign participants

Part A of this training programme – which will be delivered online – will familiarise the participants with the fundamental concepts and learnings. It will focus on:

• Overview of changing rainfall patterns in today’s climate-risked world
• Monitoring rainfall: Use of different rain gauges
• Introduction to urban flooding: Why urban India floods
• Basics of designing stormwater drains in cities
• Overview of the challenges of managing stormwater in urban areas
• Ways to collect, divert and recharge groundwater through rainwater harvesting structures

**PART B (ONSITE)**

**February 21-23, 2024**

Open only to Indian participants

Part B of the training programme will be held at the Anil Agarwal Environment Training Institute (AAETI) in Nimli. It will offer the participants advanced concepts and learnings, and will focus on:

• Challenges of managing stormwater in cities: Anthropogenic and natural factors, urban planning and drainage disruption, density of built-up area and run-off, and rainfall intensity and climate change
• Engineering (stormwater drainage systems) and spatial planning challenges
• Planning and designing of stormwater drains
• How stormwater drains can be used to solve urban flooding: Best management practices
• Planning and designing of rainwater harvesting systems using stormwater drains: Maintenance and monitoring the system for improved groundwater recharge
• Communication strategies and institutional arrangements to promote stormwater management and rainwater harvesting

Venue: Anil Agarwal Environment Training Institute (AAETI), Neemli, Rajasthan.

**TRAINING FEES**

*No training fee will be charged from nominated government employees from India.*

**For the rest:**

<table>
<thead>
<tr>
<th>Part</th>
<th>Fee (for Indian participants)</th>
<th>Fee (for foreign participants)</th>
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<tbody>
<tr>
<td>A</td>
<td>RS 3,500</td>
<td>US $75</td>
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<tr>
<td>B</td>
<td>RS 28,000 (single occupancy accommodation)</td>
<td>RS 25,600 (double occupancy accommodation)</td>
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**WHO WILL BENEFIT FROM THE TRAINING**

Central/state/municipal functionaries (decision makers/managers and regulators); any other functionaries dealing with AMRUT, Smart Cities Mission, Jal Jeevan Mission (Urban), Swachh Bharat Mission (U), Atal Bhujal Mission and Namami Gange; officials with water utilities; engineers/architects/planners/researchers/academicians

**TRAINING COORDINATOR**

Prodeep Kumar Mishra
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