



# Nature Based Solutions for Water Circularity and Sustainability

CDD India & Divecha Centre for Climate Change, IISc, Bengaluru

## CONFERENCE AGENDA

Date: 26th Feb, 2025 - 28th Feb, 2025

Venue: Satish Dhawan Auditorium, Indian Institute of Science (IISc), Bengaluru, Karnataka 560012

### DAY 1 - INAUGURATION

Session	Facilitator	Timings
Registration		9.30-10.00
Welcome	Ms. Latha Raman Jaigopal, Board Member, CDD India	10.00-10.15
Setting up of Landscape of NBS in Global South, and Felicitation of the Sector Experts, NbS Compendium Launch	Shri. Harshvardhan, CEO, CDD India	10.15-10.45
Application of NbS for cities in Karnataka	Smt. Deepa M, IAS, Secretary to Government, Urban Development Department, Government of Karnataka	10.45-11.00
COFFEE BREAK		11.00-11.15

**Note: This is a plastic-free campus. Please refrain from bringing any plastic items.**

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## DAY 1 - SESSION 1

Session	Distinguished Speaker	Moderator	Panellist	Timings
<b>NATURE BASED and ECO-CENTRIC Approaches to Used Water Management</b>	<b>Mr. Stefan Reuter</b> , Senior WASH Professional, Germany, Executive Director (Ex.) BORDA		<b>Shri V.K. Chaurasia</b> , Joint Advisor CPHEEO, Ministry of Housing and Urban Affairs (MOHUA) Govt. of India	
	<b>Mr. Andreas Schmidt</b> , Co-Founder & Managing Director, URBAN Waters Consulting GmbH	<b>Prof. Chanakya HN</b> , Former Professor Indian Institute of Science	<b>Shri Rajiv Batish</b> Chief Engineer Rural, Director WSSO, Mission Director Jal Jeevan Mission Haryana	11.15-13.30
	<b>Dr. Nadeem Khalil</b> , Professor Dept. of Civil Engineering, Aligarh Muslim University		<b>Shri. Depinder Kapur</b> , Independent Researcher and Development Expert in WASH and Natural Resource Management	
			<b>Ms. Sakshi Gudwani</b> , Senior Program Officer, Gates Foundation	
			<b>Ms. Natasha Patel</b> , CEO, India Sanitation Coalition (ISC), FICCI	13.30-14.15
LUNCH				

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# Nature Based Solutions for Water Circularity and Sustainability

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## DAY 1 - SESSION 2

Session	Distinguished Speaker	Moderator	Panellist	Timings
<b>Nature Based &amp; Ecologically Informed Strategies for Mitigating Urban Flooding and Managing Stormwater.</b>	<b>Dr. V. Thiruppugazh, IAS</b> (Rtd.), Chairperson of the Advisory Committee for Mitigation and Management of Floods in Chennai Metro , (Ex.) Advisor National Disaster Management Authority	<b>Dr. Kapil Gupta,</b> Professor, Department of Civil Engineering, IIT Bombay	<b>Dr. V. Thiruppugazh, IAS</b> (Rtd.), Chairperson of the Advisory Committee for Mitigation and Management of Floods in Chennai Metro , (Ex.) Advisor National Disaster Management Authority	<b>14.15-15.30</b>
	<b>Prof. Vilas Nitivattananon,</b> Professor, Department of Development and Sustainability, Asian Institute of Technology (AIT), Bangkok.		<b>Mr. Joop Stoutjesdijk,</b> Lead Water Resource Specialist, World Bank	
	<b>COFFEE BREAK</b>			
	<b>Mr. Gunter Langergraber,</b> Senior Scientist, Institute of Sanitary Engineering and Water Pollution Control, University of Natural Resources and Life Sciences Vienna (BOKU University)	<b>Dr. Kapil Gupta,</b> Professor, Department of Civil Engineering, IIT Bombay	<b>Shri. Aman Bhaiya,</b> Vice President, SBI Foundation	<b>15.30-15.45</b>
	<b>Shri. Naresh Narasimhan,</b> Co-Founder MOD Foundation Bangalore		<b>Shri. B. S. Prahlad,</b> Chief Engineer BBMP (Storm Water)	<b>15.45-17.45</b>
	<b>HIGH TEA</b>		<b>Shri. PG Ganapathy,</b> Senior Advisor, CDD India	<b>17.45</b>

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# Nature Based Solutions for Water Circularity and Sustainability

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## DAY 2 - SESSION 1

Session	Distinguished Speakers	Moderator	Panelist	Timings
Roadmap Towards Sustainable Management of Groundwater Resource	<b>Shri. Sushil Gupta</b> , Former Chairman, Central Ground Water Board and Central Ground Water Authority	<b>Dr. Dipankar Saha</b> , Member Head quarter (Ex.) Central Ground Water Board, Ministry of Jal Shakti	<b>Shri. Anjum Parvez</b> , Additional Chief Secretary, Rural Development and Panchayat Raj, Govt. of Karnataka	09.30- 11.15
	<b>Dr. Himanshu Kulkarni</b> , Scientist Emeritus & Co- founder, ACWADAM		<b>Shri. Joydeep Gupta</b> , India Manager, Earth Journalism Network Internews	
<b>COFFEE BREAK</b>				11.15- 11.30
	<b>Dr. Yogendrasinh Jadeja</b> , Founder, Director and Geo- Hydrologist, Arid Communities and Technology (ACT)		<b>Shri. Ratnesh Jha</b> , Executive Director, United Nations Global Compact Network India	
	<b>Shri. Shilp Verma</b> , Senior Researcher & Deputy Country Director IWMI, India	<b>Dr. Dipankar Saha</b> , Member Head quarter (Ex.) Central Ground Water Board, Ministry of Jal Shakti	<b>Dr. Mukand Babel</b> , Professor, Water Engineering and Management (WEM) Program and Director of the Centre for Water and Climate Adaptation (CWCA), Asian Institute of Technology (AIT), Bangkok.	11.30- 13.30
<b>LUNCH</b>				13.30- 14.00

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## DAY 2 - SESSION 2

Session	Distinguished Speaker	Moderator	Panellist	Timings
<b>Enhancing Water Quality through Nature Based Solutions: Harnessing Ecosystem Services for Sustainable Water Management</b>	<b>Dr. Elango Lakshmanan</b> , Visiting Faculty, Hydraulics and Water Resources Engineering Group, Department of Civil Engineering, IIT Madras	<b>Prof. Pawan Labhsetwar</b> , Professor of Practice, Department of Civil Engineering, IIT Madras, Former Chief Scientist, CSIR- NEERI	<b>Dr. Kunal Kanti Majumdar</b> , Professor & Medical Superintendent cum Vice Principal, KPC Medical College & Hospital, Kolkata Arsenic Specialist, WHO (SEARO), (Ex.) Consultant, Arsenic Mitigation, UNICEF, Kolkata	
	<b>Shri. Sunderrajan Krishnan</b> , Executive Director, India Natural Resource Economics and Management (INREM) Foundation		<b>Shri. Ajaz Hussain</b> , Chief Engineer Department of Rural Drinking Water and Sanitation, Govt. of Karnataka	14.00-15.30
	<b>Shri. Suneel Rajavaram</b> , Senior Manager, Centre for Affordable Water and Sanitation (CAWST), Canada, & <b>Shri. Lalit Sharma</b> , Principal Scientist Water Research and Training, Sehgal Foundation		<b>Shri. Asad Umar</b> , Sector Lead & Director WASH, Health and Nutrition, Aga Khan Foundation	
			<b>Prof. R. Srinivasan</b> , Visiting Professor, Divecha Centre for Climate Change, IISc	15.30-15.45
<b>COFFEE BREAK</b>				

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# Nature Based Solutions for Water Circularity and Sustainability

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## DAY 2 - SESSION 3

Session	Distinguished Speaker	Moderator	Panellist	Timings	
<b>Using Nature Based Solutions to Manage Water Bodies and Wetlands to Enhance Aquatic Ecosystems</b>	<b>Shri. Brijendra Swaroop</b> , Executive Director Projects, National Mission for Clean Ganga (NMCG)	<b>Shri. PG Ganapathy</b> , Senior Advisor, CDD India	<b>Ms. Usha Rajgopalan</b> , Writer, Translator and Lake Conservationist	<b>15.45-17.45</b>	
	<b>Prof. Venkatesh Dutta</b> , Professor, School of Earth and Environmental Sciences (SEES), BBAU, Lucknow		<b>Ms. Latha Raman Jaigopal</b> , Co-founder, Head of Projects Inspiration Collective, Kochi		
	<b>Shri. Akash Hingorani</b> , Co- Founder, Principal Architect, Oasis Design Inc.		<b>Ms. Shashikala Iyer</b> , Senior Specialist- Policy & Partnerships, WWF-India		
<b>Closing Address</b>	<b>Shri. Harshvardhan, CEO, CDD India</b>				
<b>HIGH TEA</b>				<b>17.45 Onwards</b>	

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## DAY 3 - PAPER PRESENTATION

Theme	Author	Presentation Title	time
<b>NATURE BASED and ECO-CENTRIC Approaches to Used Water Management</b>	<b>Prerna Jadhav</b> , Student, Cept University	ECO TOWN PLANNING: A Sustainable Approach to Urban Resilience in Ahmedabad	<b>9.30-9.40</b>
	<b>Kayla Coppens</b> , PhD Student, University of Geneva	Vermifiltration for Domestic Wastewater Treatment Performance Analysis of a Full Scale Treatment Installation and Evaluation of Effluent Reuse for Irrigation	<b>9.45-9.55</b>
	<b>Garakahalli Siddaiah Santhosh</b> , Technical Expert, Wastewater, BORDA- South Asia	Nature-Based Wastewater Treatment for Resilient Communities in Himalayan Region: A Demonstration Project at the District Police Line, Leh	<b>10.00-10.10</b>
	<b>Byrareddy H V</b> , Engineer Intern, CDD India	Enhancing the Quality of Faecal Sludge-Based Inputs through Nature-Based Solutions for Sustainable Agriculture	<b>10.15-10.25</b>
	<b>Girija Ramakrishna</b> , Research Scholar, IISc	Faecal Sludge Quality Criteria to Inform a Regulatory Framework for Safe Application in India: A Comprehensive Review of Global Regulations	<b>10.30-10.40</b>
	<b>Nikhilesh Kumar</b> , CEO, CO-Founder, Vassar Labs	Driving Climate Resilient Water Security with Digital Solutions	<b>10.45-10.55</b>
	<b>Kumar Sonu</b> , Senior Project Engineer, IIT Kanpur	A ceramic membrane developed from wheat husks for a microbial desalination cell	<b>11.00-11.10</b>

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## DAY 3 - PAPER PRESENTATION

Theme	Author	Presentation Title	time
<b>NATURE BASED and ECO-CENTRIC Approaches to Used Water Management</b>	<b>Meghana P,</b> Program Engineer , CDD India	Evaluating the Effluent Quality from Faecal Sludge Treatment Plants: Performance Assessment Study in India	<b>11.15-11.25</b>
	<b>Refreshment Break</b>		<b>11.30-11.45</b>
	<b>Vinaya P,</b> Engineer Intern, CDD India	Best Management Practices for Faecal Sludge Application in Agriculture	<b>11.50-12.00</b>
	<b>Meghana P,</b> Program Engineer , CDD India	Evaluating the Phosphorus Removal Efficiency of Different Plant Species in Constructed Wetlands	<b>12.05-12.15</b>
	<b>Samrat Gupta,</b> Water For People India	Circular Economy for Sustainable Faecal Sludge Management in Rural India	<b>12.20-12.30</b>
<b>Nature Based &amp; Ecologically Informed Strategies for Mitigating Urban Flooding and Managing Stormwater.</b>	<b>Migash M,</b> Student, Indian Institute of Engineering Science & Technology, Shibpur	Implementation of Nature Based Solutions to Mitigate the Effect of Urbanization on Blue Infrastructure - a Casestudy of Chennai	<b>12.35-12.45</b>
	<b>Harsimran Kaur,</b> Assistant Professor, IIT BHU	Re-imagining the Nature of Blue-Green in Cities a Multi-Disciplinary Ecosystem-Based Approach Towards Water Secure and Flood Resilient Cities: A Case Study of Varanasi	<b>12.50-13.00</b>
	<b>M.Anusha,</b> Project Assistant, WASH Institute	Planning Strategies for Blue Green Infrastructure for Mitigating Urban Flood and Sustainable Water Management -A Case of Chennai	<b>13.05-13.15</b>

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Theme	Author	Presentation Title	time
		<b>Lunch</b>	<b>13.20-14.00</b>
<b>Roadmap Towards Sustainable Management of Groundwater Resource</b>	<b>Gracy Hepzibah</b> <b>David</b> , Assistant Professor, Acharya's NRV School of Architecture	Learning from Ancient Water Structure Design Case of Sinodia, Rajasthan, India - A Sustainable Approach	<b>14.05-14.15</b>
	<b>Sahadev G</b> , Geophysicist, Art of Living	Mitigation of Groundwater Exploitation through Managed Aquifer Recharge and Rainwater harvesting: A Case Study of Uttanuru Mini Watershed In Palar Basin, Kolar District. Karnataka	<b>14.20-14.30</b>
	<b>Suvajit Dey</b> , Program Officer, Hill Forum, NIUA	A Quick Method for the Decision Makers to Identify and Manage Potential Groundwater Recharge Zones - A case study for the Semi-Arid Girna River Basin, Maharashtra, India, Using Bivariate Matrix and GIS-based Analytical Hierarchical Process (AHP) Technique	<b>14.35-14.45</b>
	<b>Yaamini R</b> , Student, CEPT University	Varsha Sanchay Yojana - Rainwater Harvesting Management plan	<b>14.50-15.00</b>
	<b>B J Giridhar</b> , Assistant Professor, GFGC, Department of Collegiate Education, Hangal, Karnataka	Impact of Rainwater Harvesting in Farm Ponds and Groundwater Conjunctive Use: Empirical Insights from Semi-Arid Regions of India	<b>15.05-15.15</b>

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## DAY 3 - PAPER PRESENTATION

Theme	Author	Presentation Title	time
<b>Roadmap Towards Sustainable Management of Groundwater Resource</b>	<b>Amitava Roy</b> , Manav Rachna International Institute of Research & Studies, Faridabad	The challenges and options towards optimal management of fresh water use in oil/gas upstream industry and safe disposal of effluents	<b>15.20-15.30</b>
	<b>Asmita Saha</b> , WaterAid India	Governing the Invisible: Data-Driven Community Centric Strategies for Rural Groundwater Sustainability in India	<b>15.35-15.45</b>
<b>Refreshment Break</b>			<b>15.45-16.00</b>
<b>Enhancing Water Quality through Nature Based Solutions: Harnessing Ecosystem Services for Sustainable Water Management</b>	<b>Harsh Mahato</b> , Student, NICMAR University	Addressing Water Circularity and Sustainability Challenges in Mining-affected Areas and Chemical Agriculture of Jharkhand Through Nature-based Solutions	<b>16.05-16.15</b>
	<b>Chakkarabani D.</b> , Student, School of Planning and Architecture, Bhopal	Revitalization of Uyyakondan Canal Through Integrated Urban Landscape Development in Trichy	<b>16.20-16.30</b>
	<b>Dr. Karishma Maheshwari</b> , Research Associate, Manipal University, Jaipur	Integrated Microalgae-Solar evaporator System: A Circular Economy Approach to Sustainable RO Reject Water Treatment	<b>16.35-16.45</b>
<b>Using Nature Based Solutions to Manage Water Bodies and Wetlands to Enhance Aquatic Ecosystems</b>	<b>Sminu TV</b> , Manipal Academy of Higher Education	Framework for Urban Aquatic Ecosystem Restoration Using Constructed Wetland: Linking Ecology, Economy, and Society	<b>16.50-17.00</b>

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