29-30 JANUARY 2026
SCOPE CONVENTION CENTER,
LODHI ROAD, NEW DELHI

CONFERENCE ON

CLIMATE-RESILIENT DAMS AND
HYDROPOWER INFRASTRUCTURE
INTEGRATING
ENVIRONMENTAL SUSTAINABILITY
IN PLANNING AND DEVELOPMENT

ORGANIZED BY

CENTRAL BOARD OF IRRIGATION & POWER
ESTD. 1927
New Delhi
ISO 9001:2015

INCOLD

SUPPORTED BY

CIGB ICOLD

केविप्रा CEA

INDIAN NATIONAL HYDROPOWER ASSOCIATION
INHA

INVITATION

Devendra Kumar Sharma
President, International Commission on Large Dams

At this critical juncture in human history, we are confronting a planetary emergency. With extreme weather and climate change becoming daily realities, we are increasingly grappling with challenges of water insecurity and the energy transition. In view of these realities and the uncertainties brought by climate change, the role of professionals working in hydropower and dam engineering is becoming more critical than ever.

As we look ahead, the challenge is clear: to deliver infrastructure that is resilient, sustainable, and equitable. ICOLD remains committed to guiding nations toward solutions that ensure water security, protect communities, and power a greener, more sustainable future.

I am happy to note that INCOLD and CBIP, with the support of ICOLD is organizing this conference on Climate-Resilient Dams and Hydropower Infrastructure. The conference will provide a platform for researchers, engineers, policymakers, and young professionals to discuss climate change impacts on dams and hydropower systems, sustainable planning approaches, environmental safeguards, and technological and policy innovations for resilient and environmentally sustainable infrastructure in vulnerable regions. I look forward to the participation of dam, hydropower and disaster management professionals as well as newcomers and INCOLD members in large numbers in New Delhi.

I also take this opportunity to invite you all to attend ICOLD 2026, Annual Meeting and International Symposium being held in Guadalajara, Mexico from 21-29 May, 2026.

Ghanshyam Prasad
President, CBIP; Chairperson, CEA
& Ex officio Secretary to GoI

As India advances toward clean and secure energy, hydropower remains vital for grid stability and renewable integration. However, growing climate challenges, especially in ecologically sensitive regions, demand a fresh, resilient approach to infrastructure planning.

This conference offers a timely platform for collaboration across sectors — from hydropower professionals to climate scientists and policymakers. I commend INCOLD for this initiative and encourage all stakeholders to contribute toward shaping a climate-smart hydropower future.

A.K. Singh
President, INHA
& Former CMD, NHPC

Our river basins and mountains, once reliable sources of energy and water, now face severe challenges from climate change, glacier retreat, and extreme weather. The upcoming Conference on Climate-Resilient Dams and Hydropower Infrastructure is a timely call to rethink development in the Himalayan region, prioritizing environmental care, community safety, and resilience.

As President of INHA, I urge all professionals to engage deeply, blending traditional wisdom with modern innovation to build a more balanced and sustainable future.

OVERVIEW

Climate change is altering precipitation patterns, increasing the frequency of extreme weather events, and accelerating glacial melt — all of which have direct impacts on water availability, quality, and hydropower operations. These changes are no longer distant projections; they are unfolding in real-time.

In recent years, and particularly during the current monsoon season, the northern Indian states of Uttarakhand, Himachal Pradesh, Jammu & Kashmir and Punjab have faced devastating floods, landslides, and infrastructure failures triggered by torrential, intense and erratic rainfall, including cloud burst. These events are causing loss of lives, widespread displacement, destruction of homes, collapse of roads and bridges, and disruption of hydropower operations. Scientists attribute these disasters to a combination of climate change-induced weather extremes, deforestation, unregulated construction, and fragile mountain ecosystems under pressure.

These increasingly frequent and severe events underscore the urgent need to rethink traditional approaches to dams and hydropower infrastructure development. It is important to consider shifting toward climate-resilient and environmentally sustainable planning and design, especially in ecologically sensitive regions like the Himalayas.

To deliberate on these pressing issues and explore potential solutions, CBIP is planning to hold a conference on Climate-Resilient Dams and Hydropower Infrastructure: Integrating Environmental Sustainability in Planning and Development on 29-30 January, 2026, at SCOPE Convention Center, Lodhi Road, New Delhi

OBJECTIVES

- **Assess the multifaceted impacts of climate change** on water resources, hydropower infrastructure particularly in ecologically fragile and disaster-prone regions such as the Himalayan states.
- **Promote sustainable and climate-resilient planning** approaches for hydropower, infrastructure that consider environmental vulnerabilities and long-term community safety
- **Explore best practices for environmental safeguards** in the design, implementation, and monitoring of infrastructure projects, with a focus on minimizing ecological disruption, landslide risks, and sediment-related impacts
- **Facilitate cross-sectoral collaboration** between water resource managers, energy planners, infrastructure developers, environmental scientists, and disaster risk professionals to strengthen technical and institutional capacity.
- **Highlight policy, regulatory, and technological innovations** that support integrated, environmentally sustainable, and climate-resilient infrastructure development in vulnerable regions.

KEY THEMES

THEME	FOCUS AREA
Climate Change and Water Resources Management	Climate impacts on hydrology and systems
Climate Change and Environmental Considerations in Dams and Hydropower Projects	Structural interventions, Ecological safeguards and EIA practices
Climate Risk Assessment and Adaptive Planning	Vulnerability analysis and scenario tools
Sustainable Infrastructure Design and Operations	Long-term, low-impact infrastructure
Regulatory Frameworks and Environmental Compliance	Policy, approvals, and monitoring systems
Nature-Based and Technological Solutions	Green and innovative engineering materials and solutions
Capacity Building and Stakeholder Empowerment	Enhancing skills, resources, and participation to enable stakeholders to drive sustainable impact
Social Impact Assessment and Community Resilience	Addressing social consequences and equity
AI and Geospatial Technologies	Climate change projections, Impact assessment
Climate change on Himalayan Cryosphere	Glacier studies and Risk Assessment
Climate Finance	Financing instruments, Banking& Non-Banking Financial Institutions and Multilateral Institutions perspectives
Coastal Population vulnerability	Water Quality, Flooding, Saltwater ingress

TENTATIVE SCHEDULE

DAY 1

- Registration
- Inaugural Session: Welcome Address & Conference Objectives
- Plenary Session: MoJS, MoP, MoEF & CC, MNRE, NDMA, States
- Technical Sessions: Adaptation and Resilience in Climate-Stressed Regions
- Climate Change and Water Resources Management
- Climate-Resilience and Environmental Considerations in Dams and Hydropower Projects
- Recent Flood Events in Uttarakhand, Himachal J&K & Punjab – Lessons for Infrastructure Planning; the Case Studies
- Climate Risk Assessment and Adaptive Planning

UNDERSTANDING THE CHALLENGE AND BUILDING THE FOUNDATION

DAY 2

- Technical Sessions: Sustainable Infrastructure Design and Operation: Dams, Hydropower Projects, and Communication Networks
- Disaster Management and Early Warning Systems
- Enhancing Safety, Resilience, and Structural Integrity of Dams
- Nature-Based and Technological Solutions
- Institutional Strengthening and Cross-sectoral collaborations
- AI and Geospatial Technologies
- Climate Finance: Perspectives from World Bank, ADB, NBFCs & National Banks
- Valedictory Session

TOOLS, SOLUTIONS, AND WAY FORWARD

WHO SHOULD ATTEND?

- → Engineers and Project Planners
- → Environmental Specialists
- → Hydropower and Water Resource Professionals
- → Academics and Researchers
- → Government Officials and Policymakers
- → NGOs and Development Agencies
- → Students in Environmental and Water Sciences

REGISTRATION FEE

	Delegate/Author	Research Student
For SAARC countries	₹ 12,000*	₹ 6,000*
Other countries	USD 300*	USD 150*

**GST extra @ 18% on registration fees given above*

A 10% discount on the registration fee will be offered to members of CBIP and INCOLD.

The registration fee includes a registration kit, working lunch, and tea/coffee during the conference. Participants are required to make their own arrangements for accommodation, travel, and other personal expenses. Please note that the registration fee is non-refundable.

CALL FOR PAPERS

The Organizing Committee cordially invites researchers, practitioners, policymakers, engineers, consultants, academicians, and students to contribute to the Conference by submitting technical papers, case studies, or presentations that advance the understanding and application of climate-resilient strategies in water resources, hydropower infrastructure, environmental management, and sustainable infrastructure design and operation including dams, hydropower projects, and Communication Networks. The full text of the papers, not exceeding 08 pages of A4 size, in single space and 10 Point Normal Times Roman Font, both in MS Word and PDF, need to be sent through e-mail only at INCOLD contact@incold.co.in. Selected submissions will be presented during the technical sessions of the Conference.

Timeline for Submission:

Full Paper Submission : 20th December 2025
PPT Submission : 10th January 2026

EXHIBITION OPPORTUNITY

As part of the Conference on, a dedicated Exhibition Zone will be organized to provide companies, institutions, and organizations with a valuable platform to:

- **Showcase** state-of-the-art equipment, tools, and technologies relevant to climate-resilient water management and hydropower infrastructure
- **Present** innovative solutions in environmental monitoring, dam safety, early warning systems, and sustainable infrastructure development
- **Demonstrate** products and systems for risk assessment, flood forecasting, structural health monitoring, and ecosystem-friendly project design
- **Engage directly** with government agencies, infrastructure developers, policy influencers, researchers, and consultants involved in water, energy, and environment sectors
- **Build brand visibility** among a targeted audience of sector professionals and explore new collaborations and business opportunities
- **Network** with key stakeholders driving change in the planning and implementation of climate-adaptive and environmentally sustainable projects

Exhibitors will gain valuable exposure during the conference, making it an ideal opportunity to promote expertise, generate leads, and contribute to the advancement of sustainable infrastructure solutions.

Custom exhibition options are available. Slots are limited, so we encourage early booking to secure your space. The Charges for one stall will be **Rs. 1.50 lakh + @18% GST**.

Deliverable: One Built-in Booth; Table and Chair (one each); one Electric Point; Two complimentary delegate passes (for booth management and conference attendance).

SPONSORSHIP

Benefit	Platinum ₹5,00,000	Gold ₹3,00,000	Silver ₹2,00,000	Supporter ₹1,00,000
Recognition as Sponsor in Conference materials	✓	✓	✓	✓
Logo display on Conference backdrop & banners	✓	✓	✓	✓
Opportunity to display standees/brochures at the venue	✓	—	—	—
Complimentary registrations	10	6	4	2
Acknowledgment during inaugural and closing sessions	✓	✓	✓	✓
Opportunity to speak in a session or panel discussion	✓	✓	—	—
Exhibition Stall	1	—	—	—
Invitation to key person of organisation as special invitee	✓	✓	—	—
Branding through promotional materials on delegate kit	✓	✓	—	—

PAYMENT DETAILS

Kindly arrange to remit the payment by bank demand draft/cheque payable at par in New Delhi, drawn in favour of "Committee for International Commission on Large Dams, India" or by bank transfer to the following account:

- Name of Bank and Address: Canara Bank, Delhi Diplomatic Enclave, 7/48, Malcha Marg, Chanakyapuri, New Delhi 110021
- Account No. 0157101031509 * MICR Code No. 110015007
- Account Holder Name: "THE COMM FOR INCOLD"
- IFSC Code: CNRB0000157 * Swift Code: CNRBINBBBFD

In case of online transfer, the bank convenience fee will be charged directly by the bank and is not included in the registration fee.

GST No. : 07AABAT3238R2ZY

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Interested participants may submit the following mandatory details:

Name and Designation.....

Organization Name and address with City and PIN Code.....

Organisation's GST No. to be mentioned in the Tax Invoice.....

Mobile No. and E-mail ID .....

Payment Details: Bank Draft No./ Online Bank Transaction ID.....

dated ..... for Rs..... to be enclosed

MEDIA PARTNER

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SECRETARIAT

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