

**Conference on
Pumped Hydro Power Storage – The Need to
Support High Penetration of Renewable Energy**

**July 25-26, 2024 (Thu-Fri)
Pradhan Mantri Sanghralaya, Teen Murti, New Delhi**

Culmination of Curtain raiser for ICOLD 2024



Organized by



In association with



ANNOUNCEMENT

Pump storage plants play a pivotal role in modern energy systems, offering efficient energy storage solutions vital for the integration of renewable energy sources and the stability of power grids. CBIP and INCOLD with support of CEA are organising a conference on Pumped Storage Plant on 25-26 July 2024 at Pradhan Mantri Sanghralaya, Teen Murti, New Delhi. This conference serves as a platform for professionals, researchers, and enthusiasts to delve into the multifaceted world of pump storage technology. Through engaging discussions, presentations, and conference, we aim to explore the latest advancements, challenges, and best practices in pump storage technology, with a special focus on the guidelines for preparation of Detailed Project Reports (DPRs) join us as we unravel the intricacies of pump storage plants and chart a course towards a sustainable energy future.

TOPIC BEING COVERED BUT NOT LIMITED TO:

1. Fundamentals of Pump Storage Technology:

- Principles of pump storage operation
- Components of a pump storage plant
- Types of pump storage systems (closed-loop, open-loop, etc.)

2. Design and Engineering Considerations:

- Site selection criteria
- Hydraulic design and turbine selection
- Electrical and mechanical design aspects

3. Construction and Project Management:

- Construction techniques and challenges
- Project planning and scheduling
- Risk management in pump storage projects

4. Environmental Impact Assessment and Mitigation:

- Environmental considerations in pump storage development
- Wildlife conservation measures
- Mitigation strategies for minimizing ecological footprint

5. Integration of Pump Storage with Renewable Energy:

- Role of pump storage in renewable energy integration
- Synergies between pump storage and variable renewable sources
- Grid stability and reliability enhancements

6. Economic and Financial Analysis:

- Cost-benefit analysis of pump storage projects
- Financing options and investment models
- Market outlook and revenue streams

7. Policy and Regulatory Frameworks:

- Government incentives and subsidies
- Regulatory compliance requirements
- Case studies and best practices from different jurisdictions

8. Preparation of Detailed Project Reports (DPRs):

- Components and structure of DPRs
- Data collection and analysis methodologies
- DPR preparation guidelines and standards

9. Case Studies and Project Showcases:

- Successful pump storage projects around the world
- Lessons learned and key takeaways from implementation experiences
- Innovative approaches and emerging trends in pump storage development

10. Future Perspectives and Research Directions:

- Technological innovations and future trends in pump storage
- Research gaps and opportunities for further advancement
- Role of pump storage in the evolving energy landscape

OFFICIAL LANGUAGE

English will be the official language of the Conference.

DATES AND VENUE

The conference will be held on July 25-26, 2024 (Thu-Fri), Teen Murti, Pradhan Mantri Sanghralaya, New Delhi.

SUBMISSION OF TECHNICAL PAPERS/PRESENTATION/CASE STUDIES

The Eminent Industries experts including Academia have been invited to deliver expert lectures during the conference. Experts who desire to submit technical papers, presentation or case studies on above topics or any other related topics are welcome to submit the same by 15th July, 2024.

REGISTRATION FEE

The registration fee payable, per delegate, including authors of papers, for participation in the Conference is as follows:

Fees	Non-Members	Discounted fees for Member of INCOLD/CBIP
	INR 12,500/-	INR 10,000/-

GST @18% will be charged extra on Registration Fee.

After making the payment online in respect of the event, the details like UTR/Organization name to be furnished immediately.

The registration fee covers the cost of registration kit, lunch and tea in-between the technical sessions.

Notes : 1. Participants will have to make their own arrangement for travel, boarding and lodging, etc.

2. Spot registration facility will also be available, provided prior information is received.

SPONSORSHIP OPPORTUNITY

The Conference provides an effective opportunity for organisations/companies to sponsor/support the Conference under following categories:

Platinum Sponsor : Rs. 3,00,000/-	Gold Sponsor : Rs. 2,00,000/-	Silver sponsor : Rs. 1,00,000/-
<ul style="list-style-type: none">• 10 delegate passes for participation in the conference• Company logo on main banner• Circulation of Company Literature• Announcement - Thanking sponsor• Speaking Opportunity• Table Space to display• Invitation to the key person of the organisation as special invitee.• Complimentary Advertisement in the Key Journal Published immediately after the event covering report of the event.• Company logo on Cover page of Proceedings Volume• One year complementary Institutional membership of INCOLD to Diamond sponsor besides other privileges	<ul style="list-style-type: none">• 05 delegate passes for participation in the conference• Company logo on main banner• Circulation of Company Literature• Announcement -Thanking sponsor• Speaking Opportunity• Table Space to display• Invitation to the key person of the organisation as special invitee.• Company logo on Cover page of Proceedings Volume• Complimentary Advertisement in the Key Journal Published immediately after the event covering report of the event	<ul style="list-style-type: none">• 03 delegate passes for participation in the conference• Company logo on main Banner• Company logo on Cover page of Proceedings Volume• Announcement - Thanking sponsor

#GST @18% (as per Reverse charge Mechanism)

PAYMENTS

The fee can be paid by cheque to be drawn in favour of "Committee for International Commission on Large Dams, India" or by bank transfer to the following account:

Bank Details for arranging Payment:

Name of Bank: 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: CNRBINBBDFS



ABOUT THE ORGANISER

CBIP

The Central Board of Irrigation and Power (CBIP), a premier institution, was constituted in 1927 by the Govt. It is serving the Nation in the disciplines of Water Resources, Power, RE Sectors and allied fields for more than 97 years.

The main objective of CBIP is dissemination of technical knowledge through various modes, such as :

- Organizing National and Intl. Seminars, Symposiums, Seminars and Workshops, training programme etc.
- Publication of technical documents e.g., manuals, technical reports, guidelines and journals etc.
- To provide information about technological developments to the engineers/professionals and other stake holders.

INCOLD

The Committee for International Commission on Large Dams, (INCOLD) is the Indian Committee interacting with ICOLD Central Office in Paris and helps in dissemination, in India, of information about new developments in dam engineering, besides projecting India's expertise at international level through participation in various events of ICOLD. Indian experts are many a time invited to officiate as members of ICOLD Committees on specialized topics. Presently Indian representatives are members in 19 technical committees out of 27 committees of ICOLD. INCOLD the National Chapter for ICOLD, is housed in CBIP, is honoured for hosting the 92nd annual meeting and international symposium at Pragati Madian, New Delhi, during 29th September to 3rd October 2024.

SECRETARIAT

All correspondences relating to the Conference should be addressed to:

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July 25-26, 2024 (Thu-Fri), New Delhi

REGISTRATION FORM

(To be filled in block letters preferably typed)

1. Name of Participant _____
(Surname) (First Name) (Prefix Prof./Dr./Mr./Mrs./Ms.)
2. Designation: _____
3. Name of Organisation: _____
4. Mailing Address: _____
City _____ State _____
Country _____ PIN _____
Phone _____ Fax _____ E-mail _____
Dated _____ Signature _____