

30th International Conference on
Hydraulics, Water Resources, River
and Coastal Engineering



HYDRO INTERNATIONAL 2025

Multi Disciplinary Conference & Exhibition

18 - 20 DECEMBER 2025

NIT ROURKELA



INTRODUCTION

The conference intends to provide a platform to water resources professional, academicians and young researchers to discuss and share their ideas. The conference mainly aims at providing a forum for the dissemination of recent contributions from academicians, scientists, researchers, practitioners and consultants in the fields of hydraulics, hydrology, water resources and coastal engineering.

ABOUT INDIAN SOCIETY FOR HYDRAULICS (ISH)

The Indian Society for Hydraulics (ISH) is a technical, educational, non-profit national organization, established in 1992 to serve as a common platform for engineers, scientists and technical personnel working in hydraulics and other allied fields. ISH helps technical personnel stay abreast with the latest development in hydraulics by organizing regular meets, seminars gatherings and symposiums. The body also makes it a point to recognize outstanding achievements in the field, by giving away awards to the deserving. The ISH headquarters are located at Central Power and Research Station in Khadakwasla, Pune. The conference is being organized under the aegis of the Indian Society for Hydraulics.

DATES & VENUES

The Conference will be hosted during **December 18 - 20, 2025** at **NIT ROURKELA, Sundargarh, Odisha - 769008, INDIA**. The details of conference will be made available on website (<https://hydro2025.nitrkl.ac.in>)

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THEME

Hydraulics

- Computational fluid dynamics
- Hydraulic transients
- Dam-break analysis and EAP
- Physical modeling
- Hydraulic structures
- Instrumentation
- Multiface flows

River Engineering and Fluvial Hydraulics

- Sediment transport
- River morphology
- Trans-boundary water sharing
- Reservoir sedimentation
- Hyper concentrated flow
- Sediment management in
- Hydropower projects
- Inter basin water transfer

Surface Hydrology and Watershed Management

- Watershed hydrology
- Hydrologic modeling
- Flood estimation, forecasting and protection measures
- Drought assessment and mitigation
- Integrated watershed management
- Catchment erosion
- Water conservation
- Environmental hydraulics
- EIA of water resources projects
- Hydrodynamics of flow interactions
- Water recycling and reuse

Environmental Flows in Natural Rivers

- Pollutant transport in rivers
- Groundwater contamination
- Sea water intrusion

Groundwater Hydrology

- Groundwater resource assessment
- Well hydraulics
- Modeling of flow and solute transport
- Planning of groundwater development
- Forensic groundwater hydrology
- Planning of groundwater development

Dam and Appurtenant Structures

- Dam safety, rehabilitation and monitoring
- Rehabilitation of old dams
- Site specific field investigation of power projects
- Risk assessment in hydropower Development
- Design of storage and diversion dams
- Stream flow turbines

Water Resources

- Optimal water allocation
- Reservoir operation and estimation of capacity
- Conjunctive use planning
- Irrigation and drainage
- Downstream issues

Coastal/Harbor & Ocean Engineering

- Coastal and ocean environment
- Ports and harbours
- Coastal and offshore structures
- Surface and subsurface seawater intrusion

Climate Change Impact on Water Resources

- Scientific aspects
- Impact assessment on water resources
- Effect on coastal environment
- Mitigation of climate change impact

Hydro Informatics

- Management of large data base
- Pre and post modeling data processing
- Geospatial applications
- Cyber infrastructure in water
- Application of AI / ML
- GIS and remote sensing applications

CALL FOR PAPERS

- **Extended Abstract Submission:**

Extended Abstracts (800 - 1200 words) are invited for the presentation in the conference. The abstract submission guidelines can be downloaded from here <https://hydro2025.nitrkl.ac.in/Abstract%20Format.pdf>

- **Paper submission Link:**

<https://easychair.org/conferences?conf=hydro2025>

- **Best Paper Award**

A Best Paper Award will be presented in each technical session under each theme. This award is designated for Early-Career Researchers.

- **Publication Opportunities**

Selected papers shall be published in peer-reviewed international journals (including ISH Journal of Hydraulics Engineering, Scopus, Q2) or Book Chapters.

KEY DATES

Extended Abstract Submission	30-Jun-2025
Acceptance of Abstract	31-Jul-2025
Registration Deadline	31-Oct-2025

REGISTRATION FEE (Including GST)

Foreign Delegates /Authors	\$500/-
Contributing Authors (ISH Members)	₹4000/-
Contributing Authors (Non ISH members)	₹5000/-
Delegates (Central govt/State Govt/ Academic Institutes):	₹6000/-
Delegates from Public Enterprises / private limited	₹7000/-
Student	₹3000/-
Sponsorship (two delegates)	Rs. 60,000
Sponsorship (four delegates)	Rs. 1,00,000
Exhibition	Rs. 1,00,000

Registration can be done through the link: <https://forms.gle/s7KxzVoVmktHQoha7>

The registration fee includes the conference proceedings, registration Kit, Working lunch, and tea/coffee during the conference. Registration fees can be paid online; QR code are also acceptable. The details are available on the event website

ACCOMMODATION

Would be provided in the Institute Guest house, Hall of Residences subjected to availability and on payment basis.

SPONSORSHIP

The HYDRO conference provides tremendous opportunities to national and international organizations ; central/state government organizations, public sector undertakings, industrial organizations, equipment manufacturers, entrepreneurs, consulting organizations and construction organizations to publicize themselves by being Platinum/Golden/Silver sponsors of the conference. Interested Organizations may contact the Organizing Secretary. The sponsorship fees payable and benefits are indicated below

Platinum Sponsor (INR 5,00,000)

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Silver Sponsor (INR 1,00,000)

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PARTICIPATION IN EXHIBITION

Exhibitors desirous to take Bare will make payment for minimum 15 sqm. Under the shell scheme, minimum space will be 9 sqm (3mX3m) and multiple of 3 m. The layout of exhibition plan will be uploaded on the event website. Free hosting of exhibitors' profiles and company website links on the event web portal.

Exhibition Participation Fee :

Bare Space INR 10000 per sqm

Shell Space INR 15000 per sqm

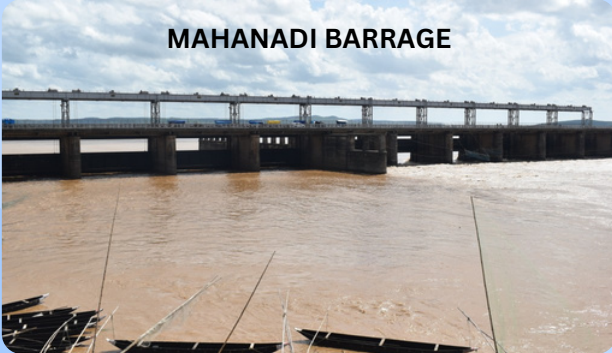
Glimpses

NIT ROURKELA CAMPUS



HYDRAULIC STRUCTURES NEARBY

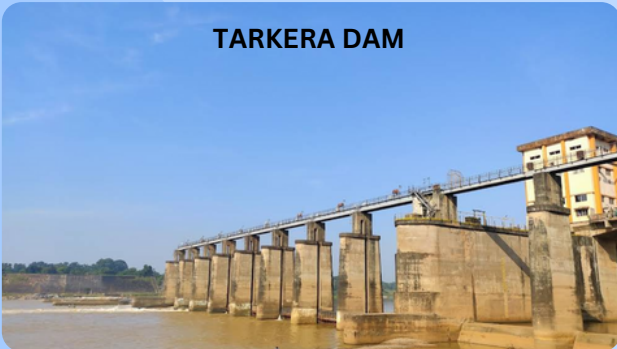
MAHANADI BARRAGE



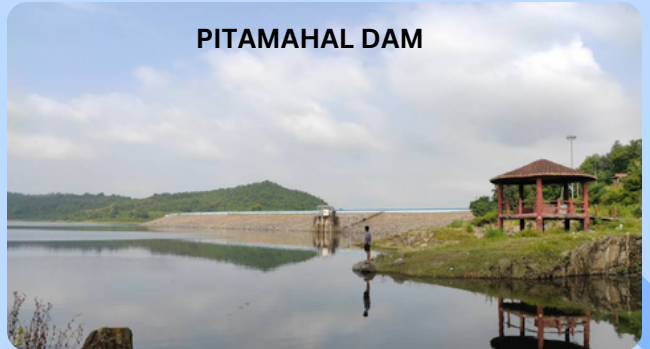
MANDIRA DAM



TARKERA DAM



PITAMAHAL DAM



SIGHTSEEING SPOTS

VEDVYAS TEMPLE



BIRSA MUNDA HOCKEY STADIUM



ROURKELA HILL TOP VIEW



KHANDADHAR WATERFALLS



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