



HYDRO 2024



29th International Conference on Hydraulics, Water Resources, River and Coastal Engineering



Organized by

Central Water & Power Research Station

Department of Water Resources,
River Development & Ganga Rejuvenation
Ministry of Jal Shakti
Government of India

— In Association with —

The Indian Society for Hydraulics (ISH)

DATE

**18-20
December 2024**

VENUE

CWPRS, PUNE

**Multi Disciplinary
Conference**

Exhibition

600+ Delegates

FIRST INFORMATION BULLETIN

INTRODUCTION

Central Water & Power Research Station (CWPRS), Pune, INDIA, under the aegis of The Indian Society for Hydraulics (ISH) is organizing 29th International Conference on Hydraulics, Water Resources, River and Coastal Engineering HYDRO 2024 International during December 18-20, 2024 at **CWPRS**, Pune.

The rationale of the Conference is to bring together engineers/ scientists working in design, planning, construction maintenance and research aspects of Hydraulics, Water Resources, River and Coastal Engineering to interact and exchange their experiences through paper and invited lectures. The conference would be conducted in parallel sessions.

A key feature of the conference would be an exhibition running in parallel covering the entire gamut of technologies and facilities available for Hydraulics, Water Resources, River and Coastal Engineering. The Exhibition will be concurrent with the conference and will provide a unique networking opportunity to the exhibitors for showcasing the capabilities, achievements, products and services to the practicing professionals in the field of Hydraulics, Water Resources, River and Coastal Engineering.

ABOUT CWPRS

CWPRS a premier research institute under Union Ministry of Jal Shakti, Department of Water Resources, River Development & Ganga Rejuvenation has been serving nation since the year 1916 rendering its services the national needs through basic and applied research in river training and flood control, hydraulic structures, harbours, coastal protection, foundation engineering, construction materials, pumps and turbines, ship hydrodynamics, hydraulic design of bridges, environmental studies, earth sciences, and cooling water intakes using Physical and mathematical models and field and laboratory experiments.

CWPRS institutes in-depth relations with its clientele, by learning their environments & challenges to enable it to offer techno-viable solutions with a sincere perspective which has always made it stand out to its vast clientele. CWPRS has offered its services to a number of projects in the neighbourhood countries as well as countries in Middle East and Africa.

ABOUT ISH

The Indian Society for Hydraulics (ISH), Pune was established in 1992 as a technical, non- profit national organization which provides a forum for Engineers, Scientist and other technical personnel engaged in various activities related to Hydraulics, Water Resources, River and Coastal Engineering.

DATES AND VENUE

The Conference will be hosted during December 18 - 20, 2024 at Central Water & Power Research Station (CWPRS), Khadakwasla, Pune - 411024 (Maharashtra), INDIA. The details of conference will be made available on ISH/CWPRS website (www.ish.net.in/ <https://cwprs.gov.in/Page/HYDRO-2024.aspx>)

Chief Patron : **Ms. Debashree Mukherjee, I.A.S**
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Department of Water Resources,
River Development & Ganga Rejuvenation,
Ministry of Jal Shakti,
Government of India

Patron : **Dr. R. S. Kankara**
Director & President, ISH
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Pune, India

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THEMES

Extended abstracts of original work of the authors including measurement, analysis, theoretical, physical modelling and validated numerical modelling, for the following topics are invited. Selected papers will be further processed for publication in reputed journals including ISH Journal. Any topics not listed below but of relevance to the objectives of **HYDRO 2024** would also be considered.

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 biota 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

Abstracts falling under the purview of any one of the topics within the sub-themes specified for the conference not exceeding 500 words may be submitted through our website <https://cwprs.gov.in/Page/HYDRO-2024.aspx> electronically by May 31, 2024. The entire process of submission of a synopsis/paper and approvals for the same is online. Please mention your affiliation, mailing address, mobile number and e-mail address.

KEY DATES

| | |
|-----------------------------------|---|
| Submission of Abstract | : 31 st May 2024 |
| Acceptance of Abstract | : 25 th June 2024 |
| Submission of Full Length Paper | : 15 th September 2024 |
| Acceptance of Full Length Paper | : 15 th October 2024 |
| Schedule of Conference On Website | : https://cwprs.gov.in/Page/HYDRO-2024.aspx |

REGISTRATION FEE

| | |
|--|-------------|
| Foreign Delegates / Authors | : \$. 500/- |
| Contributing Authors (ISH Members) | : ₹ 4,000/- |
| Contributing Authors (Non-ISHMembers) | : ₹ 5,000/- |
| Delegates (Central Government/State Govt./Academic Institutes) | : ₹ 6,000/- |
| Delegates from Public Enterprises / Private Limited | : ₹ 7,000/- |
| Student | : ₹ 3,000/- |

Prospective participants desirous of attending the conference are requested to submit the registration form electronically along with registration fee before before 15 November, 2024. The registration fee includes the Conference proceedings, Registration Kit, working lunch, tea/ coffee during the conference.

Registration Fee should be sent by DD in favour of The Indian Society for Hydraulics, Payable at Pune. Online payment (NEFT) details are also available on website.

LOCATION & ACCOMMODATION

CWPRS is located on the south-western side of the Pune city on Pune-Sinhgad Road near Khadakwasla village. It is about 19 Km from Pune Station and 27 Km from Pune Airport. Few accommodations will be provided from the organizers on first-come-first-served basis in Government guest houses. However, a list of nearby suitable hotels will be made available on the event website. We encourage the participants to check and satisfy all quality and safety aspects before the hotel booking is made.

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)

- Full registration for 8 delegates
- Company name & logo on promotion material like proceedings, stationary items etc.
- A full page advertisement in the Post Session Proceedings
- 10 min time slot for technical presentation during the technical session

Golden Sponsor (INR 3,00,000)

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- A full page advertisement in the Post Session Proceedings

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- A full page advertisement in the Post Session Proceedings

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 3m. 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.

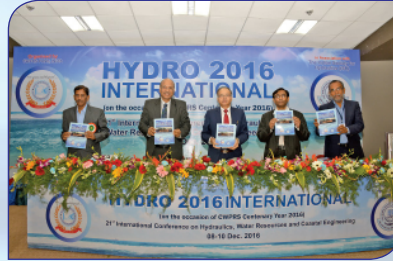
Exhibition Participation Fee :

Bare Space INR 10000 per sqm

Shell Space INR 15000 per sqm

Few Glimpses....

HYDRO - 2016 - CWPRS, Pune



HYDRO - 2022 - PEC, Chandigarh



HYDRO - 2023 - NIT, Warangal



For Further Details Contact:

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Website : <https://cwprs.gov.in/Page/HYDRO-2024.aspx>



FIRST INFORMATION BULLETIN

HYDRO 2024

29th International Conference on
***“Hydraulics, Water Resources,
River and Coastal Engineering”***