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Department of Civil Engineering, NIT Rourkela

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Prof. S. N. Sahoo, Asst. Prof., NIT Rourkela  
Dr. R. Swain, Asst. Prof., NIT Rourkela

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Prof. H. B. Sahu	Prof. S. Behera
Prof. (Mrs.) A. Sahoo	Prof. B. Kundu

**Scope and Objective of the Conference**

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 costal engineering.

**About Indian Society for hydraulics (ISH)**

The Indian Society for Hydraulics (ISH) is a technical, educational, non-profiterring national organisation, 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 organising regular meets, seminars gatherings and symposiums. The body also makes

**IMPORTANT DATES (revised on 30.06. 2020)**

Abstract Submission	31 July 2020
Acceptance of Abstract	15 Aug 2020
Full Paper Submission	30 Sep 2020
Paper Review Outcomes	20 Oct 2020
Revised Paper Submission	30 Oct 2020
Registration Deadline	10 Nov 2020

**REGISTRATION FEE**

Student Author	Rs. 3,500
Student Author (ISH Members)	Rs. 3,000
Authors from academic Institute (Non-ISH Members)	Rs. 5,000
Authors from academic institutes (ISH Members)	Rs. 4,000
Delegates from Industry (Central Govt. /State Govt.)	Rs. 6,000
Delegates from Industry (Public sector/PVT. LTD.)	Rs. 7,000
Foreign Delegates	US \$ 500
Sponsorship (two delegates)	Rs. 70,000
Sponsorship (four delegates)	Rs. 1, 00,000

**Online Payments or Demand Draft:**

*Name of the account: Conference NIT Rourkela*

*Bank Name: State Bank of India*

*Branch: SBI NIT Campus branch*

*Account no: 36734418111*

*IFSC code: SBIN0002109*

*NIT Rourkela, Rourkela - 769008, Odisha, India.*

**ACCOMMODATION**

Limited accommodation for the delegates and students are available at NIT Rourkela guest house on payment basis. Accommodations are of first come and first serve basis with advance booking. Student participants will be accommodated in the hostels with payment basis.

**ORGANISING COMMITTEE****Chief Patron:**

Prof. A. Biswas, Director NIT Rourkela

**Patrons:**

Prof. Atal Choudhry, VC, VSSUT, Burla, Odisha

Prof. M. Panda, Ex. HOD, CE, NIT Rkl

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Prof. S. K. Patel, Dean (Academic), NIT Rkl

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# HYDRO-2020 INTERNATIONAL

*(Silver Jubilee Year)*

**(December 16-18, 2020)**

Website: <https://www.hydro2020.org/>

**25<sup>th</sup> International Conference on  
Hydraulics, Water Resources and  
Coastal Engineering**



**Organised by**

**National Institute of Technology  
Rourkela, Odisha, India**



**Under the aegis of**

**The Indian Society for Hydraulics  
(ISH), Pune**



it a point to recognise 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 organised under the aegis of the Indian Society for Hydraulics.

### THEMES

The papers on the following themes are invited from Academicians, Practicing Engineers, Researchers, Consultants and others associated with Hydraulics, Water Resources, Coastal and Environmental Engineering

- Advances in fluid mechanics
- Modelling of hydraulic systems
- Application of geospatial technologies
- Coastal and offshore hydrodynamics, experimental and numerical/statistical analysis, climate change impact
- Coastal, harbour, ocean engineering including coastal protection, sea structures
- Computational fluid dynamics
- Dam instrumentation
- Drought assessment & mitigation
- Effect on climate change on water resources
- Environment hydraulics
- Environmental impact assessments
- Erosion, sedimentation, sediment transport
- Flood forecasting and protection measures
- Flood warning system
- Fluvial hydraulics
- Groundwater hydrology
- Groundwater modelling and management
- Hydraulic and hydrologic routing
- Hydraulic and hydropower structures
- Hydraulic instrumentation
- Hydraulics of spillways and energy dissipaters
- Hydrological modelling and forecasting
- Hydrometeorology
- Impact of climate changes on water resources
- Irrigation and drainage management
- Rehabilitation of old dams and earthen dams
- Reservoir operation and downstream issues
- Reservoir sedimentation
- Risk / reliability analysis and design.
- River flow dynamics in channel and flood plains

- RS/GIS application for water resources managements
- Soft computing techniques
- Unsteady flow analysis
- Urban water and drainage management
- Water quality assessment and modelling
- Water quality for Indian rivers and its modelling
- Water quality modelling
- Water resources & hydrology
- Water resources structures and its management

### AWARDS

The outstanding professionals and researchers are awarded every year.

- ISH Lifetime Achievement Award
- S. N. Gupta Memorial Lecture
- Prof. R. J. Garde Research Award
- G. M. Nawathe Puraskar (Best Paper in Hydro Conference)
- Jal Vigyan Puraskar (Best Paper ISH Journal)
- Prof. U. C. Kothiyari-ISH Best PhD Thesis award
- Prof. U. C. Kothiyari-ISH Best M.Tech award

In addition to above, awards would also be provided for Best papers in different parallel sessions for both Oral and Poster presentations individually.

### CALL FOR PAPERS

Research papers are invited from faculties, research scholars, design engineers, industry, R & D personnel and practitioners working in the relevant fields. The abstract shall be submitted within 250 words along with Title, Author names, Affiliation, Address for correspondence, Emails of authors with four to five keywords on any one or more of the conference themes. All manuscript should be submitted through easy chair website only.

#### Paper submission Link:

<https://easvchair.org/conferences/?conf=hydro2020>

The authors of papers presented at the conference are encouraged to submit their research work for possible publication in ISH Journal of Hydraulic Engineering, T and F, UK, through the web portal: <https://mc.manuscriptcentral.com/tish>

### ABOUT ROURKELA CITY

Rourkela is a planned city located in the northern part of Odisha, India. It is the third-largest Urban Agglomeration in Odisha. It is surrounded by a

range of hills and encircled by rivers - Koel, Sankha and Brahmani. The city is also popularly known as *Ispat Nagar* and also as the *Steel City of Odisha*. It has one of the largest steel plants of the Steel Authority of India Limited (SAIL) known as Rourkela Steel Plant. The city has been selected as the smart city in the third phase of smart city list on 20 September 2016.



### About NIT Rourkela

National Institute of Technology Rourkela (NITR), formerly Regional Engineering College Rourkela (REC Rourkela), is a publicly funded premier institute of higher learning for engineering, science and technology located in the steel city of Rourkela, Odisha, India. It is ranked 16<sup>th</sup> in the NIRF Rankings 2019 of Indian engineering universities. The institute is about 7 km from the railway station. The closest domestic airport to Rourkela is Jharsuguda at a distance of 130 Km (well connected to Rourkela by the express way -taxi travel from the airport to NITR is around 2.00 hours). The International airports at Bhubaneswar and Ranchi are at a distance of 328 Km and 170 Km respectively. **Home page:** <https://nitrkl.ac.in/>  
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## **REGISTRATION FORM**

**For**

### **HYDRO-2020 INTERNATIONAL**

**25<sup>th</sup> International Conference on Hydraulics, Water  
resources and Coastal Engineering  
(December 16-18, 2020)**

**Name:** \_\_\_\_\_

**Designation:** \_\_\_\_\_

**Institute:** \_\_\_\_\_

**Paper Title:** \_\_\_\_\_

\_\_\_\_\_ **Paper ID:** \_\_\_\_\_

**Mailing Address:** \_\_\_\_\_

#### **Contact Number with STD Code**

**(Office):** \_\_\_\_\_

**(Mobile):** \_\_\_\_\_

**Email ID:** \_\_\_\_\_

**ISH Membership No (if any):** \_\_\_\_\_

**DD No/TXN Id.:** \_\_\_\_\_

**Bank:** \_\_\_\_\_, **Date:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

Whether participating in the conference: (Y/N)

Whether presenting a paper: (Y/N)

Whether participating in the exhibition: (Y/N)

Whether it is a commercial presentation: (Y/N)

Whether participating in technical tour: (Y/N)

**(Please give a title on the cover "HYDRO 2020")**