



**INTERNATIONAL CENTRE FOR HYDROPOWER**

***Hydro Lab***

IN COOPERATION WITH NTNU, NORWAY

# **PLANNING & DESIGN OF HYDROPOWER HEADWORKS IN SEDIMENT LOADED RIVERS**

**Date : 02 – 09 November 2022, Kathmandu, Nepal**

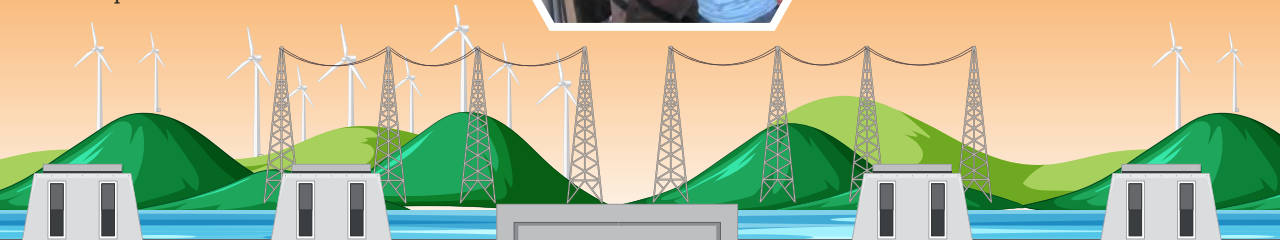


## BACKGROUND

The International Centre for Hydropower (ICH), Norway and Hydro Lab, Nepal proudly invite you to an international workshop titled "Planning and Design of Hydropower Headworks in Sediment Loaded Rivers" to be held in Kathmandu, Nepal. This workshop offers you, within the framework of lectures, laboratory experiments and field excursions, better insight in planning and design of headworks for the mitigation of sediment induced problems. Senior professionals involved with headworks design and sediment handling will share their experiences through lectures, field visits and laboratory demonstrations. The knowledge gained from the workshop will be beneficial for the sustainable development of hydropower in steep sediment-carrying rivers.

## TARGET GROUP

The main target group is experienced professionals involved in hydropower planning, design and operation from the Himalayan Region as well as other regions with similar river characteristics. Candidates should have a minimum of bachelor's degree in civil engineering or have an equivalent background in the fundamental engineering aspects of hydropower systems, and have relevant job experience.



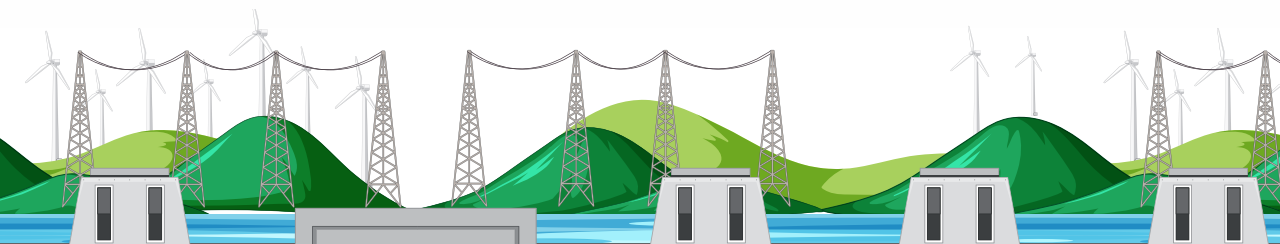




## TIME AND VENUE

The workshop will start on Thursday, 03 November and end on Tuesday 08 November 2022 in Kathmandu. Participants are expected to arrive in Kathmandu on Wednesday 02 November and depart from Kathmandu on Wednesday 09 November 2022.

The participants will be accommodated in Kathmandu for the first few days for lectures. Then the participants will be transported by coach for a field visit of some of the hydropower plants (under construction/under operation). Additionally, to acquiring practical knowledge on physical hydraulic models and relevant laboratory experiments, the participants will then be taken to hydraulic laboratory of Hydro Lab.



## ADMISSION CONDITIONS

The major portion of the workshop expenses is sponsored by the Norwegian Agency for Development Cooperation (NORAD). Therefore, the participant or their institution shall have to bear only a nominal registration fee of USD 250 per person for participants from developing countries abroad and NPR 20,000 for Nepalese participants. If seats are available, participants from developed countries may also be considered for the workshop by paying a registration fee of USD 1,200. The fees include accommodation, all meals, transportation for field trips, a social Programme and documentation. The participants shall be responsible for arranging their travel to and from Nepal. Selected participants shall pay the corresponding registration fee before 27 September 2022.

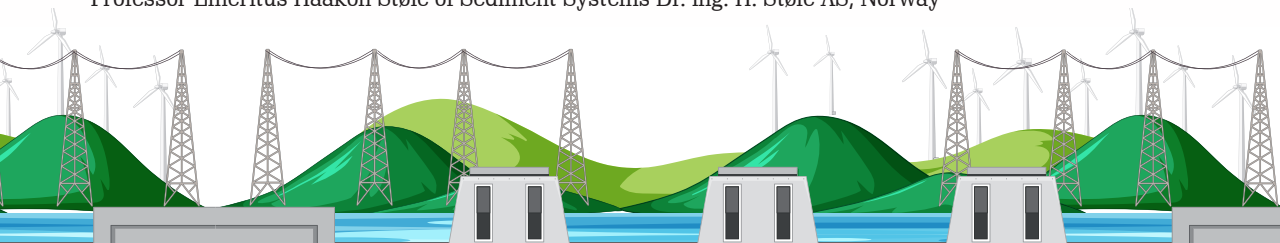


## PRELIMINARY PROGRAMM

Tentative Program	
Day and time	Activities
Wednesday, 02 November 2022	Arrival to Kathmandu, Nepal
Thursday, 03 November 2022	Programme opening and lectures
Friday, 04 November 2022	Country presentations and lectures
Saturday, 05 November 2022	Visit to nearby hydropower plant(s)
Sunday, 06 November 2022	Lectures in the first half and travel back to Kathmandu in the evening
Monday, 07 November 2022	Lectures, observation of physical hydraulic models and laboratory experiments
Tuesday, 08 November 2022	Participation in NVE & ICIMOD programme at ICIMOD, Kathmandu and programme closing in the evening
Wednesday, 09 November 2022	Departure from Kathmandu

### Facilitator/Principle Resource Person:

Professor Emeritus Haakon Støle of Sediment Systems Dr. ing. H. Støle AS, Norway





## APPLICATION

The number of workshop participants will be limited to 25. Application deadline is set to 31 August 2022. Interested participants are requested to visit the website of International Centre for Hydropower (ICH), Norway. The online application is available at [www.ich.no](http://www.ich.no). In case if there is a problem with the online application, please contact Mr. Yogesh Khadka, Sr. Manager, Laboratory & Business Development, Hydro Lab, at the address given below. Selected participants will be notified within 12 September 2022.



Contact details:

### **Mr. Yogesh Khadka**

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Institute of Engineering Premises  
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## ABOUT THE ORGANISERS

The International Centre for Hydropower (ICH), Norway is an international capacity building organisation focused on providing the transfer of knowledge through organizing trainings, workshops, seminars and conferences designed to develop competencies for the energy sector and promote the sustainable development of hydropower resources. ICH is a non-profit organisation based on institutional membership. ICH develops and effectuates its programs independently and in partnership with other organisations.

Hydro Lab is a well-equipped independent hydraulic research laboratory, established in 1998 with the objective to assist in the achievement of national development goals by providing an effective base for research and development, training and consultancy services in the field of hydraulics and sedimentation related to water resources development in Nepal and internationally. Hydro Lab has gradually expanded its activities including prototype turbine efficiency testing, settling basin performance tests, reservoir sedimentation study, hydraulic design, design review of headworks and has also established geotechnical laboratory to provide geotechnical and geological testing and investigation services. Knowledge sharing through training/workshops and providing research opportunity to MSc and PhD students from different universities from Nepal and abroad is also one of the important activities of Hydro Lab.



### INTERNATIONAL CENTRE FOR HYDROPOWER

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#### CONTACT PERSON

Mr. Tom Solberg, Project Director



IN COOPERATION WITH NTNU, NORWAY

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#### CONTACT PERSON

Dr. Ing. Meg B. Bishwakarma, General Manager

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