

## About CWPRS

Established in 1916, the Central Water and Power Research Station (CW&PRS), Pune, is the premier National Institute devoted to water and power resources development and water-borne transport. The scope and magnitude of the services offered by CW&PRS cater to the research and development needs of the country. As the UN recognized Regional Laboratory for ESCAP region, CW&PRS has offered its services in following major disciplines.

- River Engineering
- River and Reservoir System Modeling
- Reservoir and Appurtenant Structures
- Coastal and Offshore Engineering
- Foundation and Structures
- Applied Earth Sciences
- Instrumentation, Calibration & Testing Services

For more details about CW&PRS, please visit [www.cwprs.gov.in](http://www.cwprs.gov.in)

## Venue and Date

The training course will be held during 17-19 Sept, 2025 at Central Water & Power Research Station(CWPRS), Khadakwasla, Pune-411024.

## Target Group

The training course is intended for practicing field engineers, research scientists of PSU and Government organizations and students who are involved in the field of Instrumentation and bathymetry survey of reservoirs.

## Registration & Participation

Interested participants can register themselves by sending the registration form attached with the brochure to co-coordinator on or before 14<sup>th</sup> of Sept 2025 along with training course fees in the mail provided in the brochure. The total number of participants is restricted to 25, preferably one or two from each organization.

### Fee Structure

The registration fee for Central/ State Govt., PSU, Colleges etc. is Rs.6000/-, for private Institutions/ Companies the fee is Rs.7500/- and for bona fide students sponsored by colleges and educational institutions the fee is Rs.3000/- only. The Demand Draft towards registration fee may be drawn in the name of Pay & Accounts Officer, CW&PRS, Pune” payable at the State Bank of India, Pune-411001, Treasury Branch(Code No. 1904).

### Accommodation

Limited accommodation is available in CWPRS guest house and accommodation will be provided at CWPRS guest house on first come first served basis. The participants may have to stay on twin sharing basis. The participants are requested to arrange own transport facility from Airport/Railway station/Bus stand to CWPRS.

for any further information, please contact:

#### 1) Course Coordinator:

Shri G.V.Ramana Rao, Scientist ‘E’

Ph.No.020-24103479/8208412339

#### 2) Co-Coordinator:

a) Shri M.S.Bist , Scientist ‘D’

Ph.No.020-24103313/9421057659

Email: [msbist1974@cwprs.gov.in](mailto:msbist1974@cwprs.gov.in)

b) Mrs Lata Gupta , Scientist D

Ph No. 020-24103485/9421053308

#### 3) Training Management Cell

Ph.No: 020-24103363

CW&PRS, Khadakwasla, Pune-411024

Email: [cwprstraining@gmail.com](mailto:cwprstraining@gmail.com)

## Training Course on

## “Advanced Instrumentation and Reservoir Modern Bathymetry Survey Techniques”



**Date:17<sup>th</sup> to 19<sup>th</sup> Sept 2025**



**Government of India**

**Ministry of Jal Shakti**

Department of Water Resources,  
River Development and Ganga Rejuvenation  
**Central Water & Power Research Station**  
Khadakwasla,Pune-411024

**Dr. Prabhat Chandra**  
**Director**

## Registration Form

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

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

Organization: \_\_\_\_\_

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

Tel:(Off) \_\_\_\_\_ (Res) \_\_\_\_\_

Mobile No: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

Enclosed please find DD No. \_\_\_\_\_

\_\_\_\_\_ Dated \_\_\_\_\_ for Rs. \_\_\_\_\_

\_\_\_\_\_ drawn on \_\_\_\_\_ towards

registration fee or Bharat Kosh Payment details

\_\_\_\_\_

Accommodation required: Yes/No

Date: \_\_\_\_\_ Signature of the Participant

## Preamble

The reservoirs are the backbone of the water resources system which need constant monitoring and remedial measures if affected. The major cause of the reservoir capacity loss is due to sedimentation process which is naturally occurring process and not yet quantified. The reservoirs are built during British era and consequently by union government of India with a life planned for more than 100 years or so. There is a need to check whether the proposed rate of sedimentation considered during design is correct and the capacity is preserved for our today's need. Though many mathematical modeling methods are available for this but the true depth and capacity assessment is possible with the advent of DGPS based integrated bathymetry technology. CWPRS is a pioneer institute with multi domain expertise in this field and have carried out bathymetry sedimentation survey of more than 40 major reservoirs across India including Mulla Periyar, Indira Sagar, Rihand dam, Mahi Bajaj Sagar, Bakreswar and river cross section profiles of Srisailem dam plunge pool and Baglihar dam etc. There would be demonstration of the bathymetry system and allied hydraulic instruments/SCADA system installed in models. The training will provide an overall idea of Bathymetry techniques, data processing and reporting the data with available open source software.

## Course Objective

The objective of the course is to disseminate knowledge related to latest hydraulic instrumentation and efficient hydrographic survey techniques for the assessment of reservoir sedimentation, its capacity & different methods to be taken for enhancing the original capacity. The present training course is being organized to share the field experiences with site engineers, research scientists and to discuss various problems faced due to sedimentation survey and related issues.

## Course Content

The course consists of lectures by experts having long research and professional experience in the area of Instrumentation and Bathymetry survey in reservoirs/lakes as well as in coastal followed by unique case studies carried out by CWPRS will be discussed. A demonstration of the Bathymetry survey equipment will be arranged along with analysis using EIVA and SURFER software to generate area, volume and contour plots etc.

