



Training Course on
**DAM BREAK ANALYSIS AND
 EMERGENCY ACTION
 PLANNING**

25 – 26 February, 2026



Organized & Hosted by

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

Central Water and Power Research Station

Sinhagad Road, Khadakwasla, Pune-411024

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 Director

[Online Brochure](#)

INTRODUCTION

Dam break is one of the major disasters causing severe damage to infrastructure like roads, railways, bridges, buildings and causing severe loss of life and property. The dam break analysis is very important for the purposes of decision making & planning concerning to dam safety, contingency evacuation planning, controlling downstream developments, real time flood forecasting and Emergency Action Planning.

CWPRS is having expertise in Dam Break Analysis and preparation of inputs for Emergency Action Planning. Dam Break studies have been carried out for projects like Shivvengudem Dam, Venkatadri Dam, Khadakwasla system, Mallana sagar dam, Gandhamala dam, Kanhar dam, Nathpa Dam etc. This training course will cover the topics related to different hydrological and hydraulic studies carried out for Dam Break Analysis and Emergency Action Planning of Disaster Management. Important case studies will also be discussed during the course.

COURSE OVERVIEW

The course spans two days and offers a comprehensive expertise of contemporary methods of flood analysis and hydrological data analysis and their applications. The objective of dam break modeling is to simulate the movement of the dam break flood wave along the area on the downstream using 1D or 2D modeling to identify the time of arrival of flood, flood inundated area, flood depth, flow velocity, peak discharge etc.

Dam break analysis and flood plain mapping are pre requisites and vital elements for the preparation of Emergency Action Plan (EAP) which streamlines duties undertaken by various local, district and state agencies in a coordinated manner to reduce potential disaster and protect human life and establishments.

KEY HIGHLIGHTS

- ❖ Dam Safety Act - 2021, Emergency Action Planning for Disaster Management
- ❖ Structural Audit for Dam Safety
- ❖ Dam Break Analysis using 1D and 2D models.
- ❖ Use of GIS and Remote Sensing in Floodplain Mapping
- ❖ HEC-RAS model for Flood Routing & Dam Break modeling-Demonstration

ELIGIBILITY & SELECTION CRITERIA

The course is intended for Central/State Government/PSU/Faculties for college for Private Institutes/Companies, Indian Students and Foreign nationals etc. The course will be organized ONLINE. No course fee for implementing agencies (IAs) under NHP and Online participants. However only approved list of participants will only be allowed to attend the online sessions.

APPLICATION PROCEDURE

Interested participants can register before the due date using the link given below:

<https://forms.gle/yex2Xeenn8PDsguf7>

A digital certificate of participation will be issued for the registered participants only. The link for Online Course shall be sent to the registered participants only. For further clarifications kindly contact the organizers through email.

For any further related queries participants may send an email to organizers along with details.

ABOUT CWPRS

Central Water & Power Research Station (CWPRS), Pune, an ISO 9001:2015 certified premier national institute offering a wide range of R&D services related to Water and Energy resources development, River Engineering problems and the Coastal development projects. The solutions offered by the Research Station are based on Physical & Mathematical Modeling, Field & laboratory investigations and Desk studies. CWPRS is a multidisciplinary organization which provides complete R&D solutions under one roof on problems related to water resources. As the UN recognized Regional Laboratory for ESCAP region since 1971, CWPRS has offered its services to a number of projects in the neighborhood nations as well as in countries of Middle East and Africa.

The major disciplines at CWPRS

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

The training program on 'Dam Break Analysis and Emergency Action Planning' will be conducted by Disaster Management Planning Division under River and Reservoir system Modeling (R&RSM) Group of CWPRS. R&RSM group deal with the analysis of Hydro-meteorological parameters, Hydrologic and Hydraulic Modeling of river basin, Flood Routing and Flood Forecasting Studies, Estimation of Design Floods, Estimation of Safe Grade Elevation for power plants and industrial establishments, Storm Water Management Studies, Dam Break Analysis and preparation of inputs for Emergency action planning, Water Yield Analysis, Water Resources Planning and Management Studies, Water Quality Monitoring, River Rejuvenation etc.

LOCATION AND ACCESSIBILITY

The Central Water and Power Research Station (CWPRS) is located near Khadakwasla Dam in Pune, Maharashtra. Pune is renowned for its rich cultural heritage, historical significance, vibrant arts and music scene, and educational institutions, earning it the nickname "Oxford of the East". Khadakwasla Dam is a dam on the Mutha River which is about 21 km from the centre of the city of Pune in Maharashtra, India. The dam created a reservoir known as Khadakwasla Lake which is the main source of water for Pune and its suburb.

IMPORTANT DATES AT GLANCE

Start Date to Apply: January 05, 2026

Last Date to Apply: February 05, 2026

Announcement of Selection List: February 10, 2026

Course Start Date: February 25, 2026

Course Completion Date: February 26, 2026

CONTACT US:

For more information, please write to:

Training Management Cell / PMU - NHP

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