

NATIONAL WATER ACADEMY, PUNE

Training Program on
Design of Dams
16-20 March 2020

REGISTRATION FORM

Name (in capitals): _____

Designation _____

Organisation/Department : _____

Responsibilities (in brief): _____

Full Postal Address: _____

Tel Nos.(with STD Code) : _____

Fax No: _____ Mobile : _____

E-mail: _____

Whether lodging & boarding at NWA needed (PI tick): Yes / No

Date _____ **(Signature of the participant)**

SPONSORING AUTHORITY

Name and Designation of Sponsoring Authority : _____

Full Postal Address: _____

Tel Nos.(with STD Code) : _____

Fax No: _____ Mobile : _____

E-mail: _____

Date _____ **(Signature and Seal)**

Completed Registration Form may be sent by Fax to: 020-24380110



सत्यमेव जयते

Government of India
Ministry of Jal Shakti,
Department of Water Resources, RD & GR
Central Water Commission



Training Program on
Design of Dams
16-20 March 2020



Organized by & at
National Water Academy
Pune

Introduction and Objectives

There is a huge need to build human resources for the Water Resources Sectors in India. A well trained and motivated manpower is the backbone of any developmental activity. In a hugely diversified field like water sector also, there is pressing need for sustained human resources development through multi level training of personnel involved in the sector to undertake the challenging tasks ahead. For the stakeholders, training presents an opportunity to be proficient by understanding a relevant portfolio of issues, changing environment, policies, projected mandates and appropriate technologies, good practices and resource management techniques, conceptual framework, related strategies, using a variety of training devices and delivery methods. In the context of water resources sector, training in the form of capacity building is indispensable.

Central Water Commission is playing a vital role in Capacity building activities through dedicated National Water Academy (NWA), Pune, the proposed sub-module on "Design of Dams" as a part of Core Area Training Programs is scheduled to be organized for enhancing the technical capabilities of mid level Officers. Accordingly, this training program on "**Design of Dams**" has been planned to develop/build capacity in designing various types and components of Water Resources Structures.

Program Content

The program will have detailed coverage on important design aspects covering the topics viz.

- Overview of Dams and Design Philosophy
- Site selection, selection of site-specific dam type,
- Layout setting and planning
- Design of Concrete and Masonry Dams and its appurtenant structures Planning of Hydro-mechanical Equipment for dams
- Importance of Model Studies in design of dams with case studies on refinement of design
- Visit to Physical Models of Projects in CW&PRS
- Design of Earth and Rockfill Dams
- Selection of Seismic Design Parameters of Dams
- Geotechnical Investigation and Foundation Treatment
- Dynamic Analysis of Dams
- Seepage control measures in dams
- RCC dams: difference from gravity dam, design mix and concrete laying techniques Safety in Construction Management Construction Methodology & Equipment Planning
- Special (typical) problems encountered in dam designs – some instances
- Design of Fish ladder (Tentative)
- Visit to Water Resources Project.

The program will comprise of technical sessions; case studies; hands-on sessions and field visits.

Program Fee

There is **no program fee** for participants from **Central and State Govt. departments**. Charges for participants from other categories are:

Category	Description	Fee in Rs. (per participant)
A.	Central/State/Local Government Depts. including their autonomous bodies:	Nil
B.	'Not for Profit' Central and State PSUs	Nil
C.	Recognized academic institutions, NGOs	1,500/-
D.	Central and State Public Sector Undertakings	10,000/-
E.	Private Companies, individuals	15,000/-

- Discounts applicable : (a) 50% for PSUs of MoJS i.e. WAPCOS & NPCC (no group discount); (b) For others – 20% discount for 3-4 participants; 30% discount for 5 or more participants from the same organization.

For modalities in respect of payment of fee, please refer to our website or contact the Program Coordinator.

Resource Persons

The resource persons for the program would be subject experts from:

- ❖ Central Water commission ;Central Soil and Material Research Station;Central Water and Power research Station ;Dam Project Authorities etc.

Duration

One Week Duration (16-20 March 2020).The participants are expected to reach NWA by the evening of 15th March 2020 and should plan to leave only after 1800 Hrs. of 20 March 2020

Venue

National Water Academy, Khadakwasla, Sinhagad Road, Pune-411 024.

(for more info on NWA, visit <http://nwa.mah.nic.in>)

Target Group

Graduate Engineers (B E/B Tech) with some years of work experience in the field of design of water resources structures, of the levels of Superintending Engineer/Executive Engineer, Assistant Executive Engineer and Assistant Engineer.

Participation

The nomination of the officers fitting the target profile may be sent to the Program Director latest by 02 March 2020. The nominated officers are requested to start for the program only after confirmation of their nomination. The accepted nominations will be displayed on NWA's website (<http://nwa.mah.nic.in>) under the link "Upcoming Events" on 04 March 2020.

Local Hospitality

NWA has a self-contained residential campus, and out-station participants would be provided with accommodation in the NWA Hostel as per the availability. Lodging & boarding charges as per government rates (about Rs. 410/- per person per day) will have to be borne by the participants. Participants may also make their own stay arrangements, if they wish. Airport/Railway station pickup/drop will also have to be arranged by the participants themselves.

Weather

During the month of August, the average temperature of Pune may be around 30°C varying around with rainfall.

Contact

For sending nominations or for any information with regard to this Program, please contact:

Shri Harish Girish Umbarje

Director & Program Coordinator

National Water Academy, CWC,

Khadakwasla, Sinhagad Road,

Pune – 411 024 Tel: 020 – 24380392 Ext 206, Fax: 020-24380110

Mobile : 9947243510

e-mail: nwa.mah@nic.in/ harishumbarje-cwc@nic.in

Website: <http://nwa.mah.nic.in>