

No.A-33025/19/2023-24/NWA/

Dated : 30.01.2024

To

1. The Member (D&R)/Member (WP&P)/Member (RM), CWC, New Delhi
2. The Chief Engineer, CWC (HQ)/The Chief Engineer, Field Offices, CWC
3. The NPMU, National Hydrology Project, DoWR, RD & GR, MoJS, New Delhi
4. All the State & Central Implementing Agencies of National Hydrology Project
5. The Director RM Coord/ The Director, RDC-II/ The Director (Trg), CWC, New Delhi

Sub: Training Program on “Hydrometeorological Observations” at NWA, CWC, Pune - Call of nominations - reg

Sir/Ma'am,

A Training Program on “Hydrometeorological Observations” is scheduled to be conducted at NWA, CWC, Pune during 19-26 February 2024. Brochure of the program is enclosed. Salient details for this training program are as given below :

Name of Program	Duration & Days	Last date of receipt of nomination/s	Acceptance of Nomination/s	Participants' Profile
Hydrometeorological Observation Aspects (under NHP)	19-24 February 2024	9 Feb 2024	12 Feb 2024	The training course is intended to benefit the officers in the rank of JE/ AE/AEE/EE or equivalent and working in State and Central Govt. agencies associated with hydro-meteorological observations.

It is requested that **nominations** of the officials may please be sent so as to reach NWA by the **last dates as given above**. Complete details (address, email, telephone, mobile etc) of the nominated officer(s) and the controlling officer(s), name/s of modules may please be provided while sending the nomination/s. Other details of the programs are given in the website of NWA (<http://nwa.mah.nic.in>) and are also given in the enclosed Program Brochures. Confirmation on acceptance of nomination/s will be published on our web site (<http://nwa.mah.nic.in>).

**The nominated officers are requested to commence journey for the program only after getting confirmation/ acceptance of their nomination from NWA.**

Encl. : As above

Yours faithfully,



**S N Pande**  
Director, NWA, CWC  
& Course Director  
# 98731 63630

No.A-33025/19/2023-24/NWA/

Dated : 30.01.2024

To

1. The Member (D&R)/Member (WP&P)/Member (RM), CWC, New Delhi
2. The Chief Engineer, CWC (HQ)/The Chief Engineer, Field Offices, CWC
3. The NPMU, National Hydrology Project, DoWR, RD & GR, MoJS, New Delhi
4. All the State & Central Implementing Agencies of National Hydrology Project
5. The Director RM Coord/ The Director, RDC-II/ The Director (Trg), CWC, New Delhi

Sub: Training Program on “Hydrometeorological Observations” at NWA, CWC, Pune - Call of nominations - reg

Sir/Ma'am,

A Training Program on “Hydrometeorological Observations” is scheduled to be conducted at NWA, CWC, Pune during 19-26 February 2024. Brochure of the program is enclosed. Salient details for this training program are as given below :

Name of Program	Duration & Days	Last date of receipt of nomination/s	Acceptance of Nomination/s	Participants' Profile
Hydrometeorological Observation Aspects (under NHP)	19-24 February 2024	9 Feb 2024	12 Feb 2024	The training course is intended to benefit the officers in the rank of JE/ AE/AEE/EE or equivalent and working in State and Central Govt. agencies associated with hydro-meteorological observations.

It is requested that **nominations** of the officials may please be sent so as to reach NWA by the **last dates as given above**. Complete details (address, email, telephone, mobile etc) of the nominated officer(s) and the controlling officer(s), name/s of modules may please be provided while sending the nomination/s. Other details of the programs are given in the website of NWA (<http://nwa.mah.nic.in>) and are also given in the enclosed Program Brochures. Confirmation on acceptance of nomination/s will be published on our web site (<http://nwa.mah.nic.in>).

**The nominated officers are requested to commence journey for the program only after getting confirmation/ acceptance of their nomination from NWA.**

Encl. : As above

Yours faithfully,



S N Pande

Director, NWA, CWC

& Course Director

# 98731 63630

**Training Program on  
Hydrometeorological Observation  
(19-24 February 2024)  
REGISTRATION FORM**

Name (in capitals):

Designation:

Organisation :

Responsibilities (in  
brief):

Full Postal Address

Tel Nos (with STD Code):

Email :

Mobile

Whether require accommodation

YES / NO

?

Date:

(Signature of the Participant)

**SPONSORING AUTHORITY**

Full Postal Address

Tel Nos (with STD Code):

Email :

Mobile

Date

(Signature and Seal)

Completed Registration Form may be sent by email :

nwa.mah@nic.in , shailendrapandenwa@gmail.com, nwa.pune@gmail.com



**Government of India  
Ministry of Jal Shakti  
Department of Water Resources,  
River Development & Ganga Rejuvenation  
Central Water Commission**



**Training Program on  
Hydrometeorological Observations  
(19-24 February 2024)**

**HYDROMETEOROLOGY**

**WEATHER MEASURING INSTRUMENTS**

- a) Temperature-measuring instruments
- b) Pressure-measuring instruments
- c) Humidity-measuring instruments
- d) Precipitation-measuring instruments
- e) Cloud-measuring instruments
- f) Evaporation-measuring instruments
- g) Sunshine-measuring instruments
- h) Wind-measuring instruments

**Organised by  
National Water Academy, CWC, Pune**



## INTRODUCTION AND OBJECTIVE

India's water resources are crucial for poverty alleviation, environmental sustainability, and economic development. Hydrometeorological measurements are essential for water resource management, climate studies, and disaster preparedness. The Central Water Commission (CWC) is responsible for hydrometeorological data observation, demonstrating its expertise in this specialized work. Hydro-meteorological observation aims to assess basin-wise and sub-basin-wise water resources, cater to international aspects related to water, an important aspect in water related inter-state issues, flood forecast, provide data for research, planning, and management, contribute in preparation of DPRs, assess navigational potential for inland waterways, and provide essential data for better water resources development and management.

Since the commencement of the Hydrology Project (under NHP), NWA has been designated as a "Nodal Agency" for training and capacity building of the project's many components. NWA has contributed in the areas of hydrometry and HIS over the years. With the advancement of technology, it is felt imperative to have trained personnel in place to carry out hydrometeorological observations, which is critical for maintaining high data quality, adapting to technological advancements, integrating data across disciplines, and addressing the challenges posed by climate change and extreme weather events. Scientific hydrometeorological observations are critical for making informed decisions, managing water resources sustainably, and ensuring community and ecological resilience.

NWA has conceptualized the training on **"Hydrometeorological Observations"** with an aim to equip individuals with the necessary skills and knowledge needed to effectively carry out hydrometeorological observations and exposure to latest advancement in the relevant field.

## PROGRAM CONTENTS

The training focuses on covering skills for developing accurate data collection, instrumentation proficiency, and the ability to use modern technologies. It also focuses on data analysis and interpretation. Best practices in Hydrometeorological aspects, instrumentation; adaptation to new technologies which are being adopted to substantially enhance the quality of data etc., will be covered. The program comprises of classroom sessions as well as field visits. The lecture session will focus on introduction to hydrology & hydrometry and data collection, validation and analysis of various hydrological parameters. Apart from lecture sessions, field visits have also been envisaged during the programme to Hydrological Observation Sites, Current Meter Rating facility at CW&PRS and IMD Training Centre.

## RESOURCE PERSONS

The resource persons for the program would be subject experts from NWA, CWC, CWPRS and other organizations as well.

## DURATION

The program is of 6 days duration scheduled during 19-24 February 2024. The participants are expected to reach NWA by the evening of 18 Feb 2024 and should plan to leave only after 1800 Hrs. of 24 Feb 2024.

## VENUE

National Water Academy, CWC, Pune-Sinhagad Road, Khadakwasla, Pune – 411024

## TARGET GROUP

The training course is intended to benefit the officers in the rank of JE/ AE/AEE/EE or equivalent and working in State and Central Govt. agencies involved in hydro-meteorological data observation.

## PARTICIPATION

The nomination of the officers fitting the target profile may be sent to the Program Coordinator latest by 9<sup>th</sup> February 2024 by email ([nwa.mah@nic.in](mailto:nwa.mah@nic.in); [shailendrapandenwa@gmail.com](mailto:shailendrapandenwa@gmail.com)). Alternatively, the approved nomination/s can also be registered on-line in NHP website <https://nhp.mowr.gov.in/HomeNew/Training.aspx> positively by 9th February 2024. 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 on 12<sup>th</sup> February 2024 evening.

## ACCOMODATION

The trainee officers would be accommodated in NWA hostel on applicable payment basis. Working Lunch during the training program will be provided by NWA, CWC. Participants will have to bear breakfast, evening snacks and dinner charges, as applicable. Airport/ Railway station pickup/drop will also have to be arranged by the trainee officers themselves.

## WEATHER

In February, Pune experiences cool and pleasant weather. The average maximum temperature during the day ranges from 29 to 32 degree Celsius, while the average minimum temperature at night ranges from 13 to 15 degrees Celsius. It is advisable to carry a light jacket or sweater for cooler periods.

## CONTACT

For sending nominations or for any information about this program, please contact :

S N Pande, Director, NWA & Course Director

National Water Academy, CWC, Khadakwasla R S ,Pune – 411 024

Mobile : 98731 63630 /Tel :020-24381212

Email : [nwa.mah@nic.in](mailto:nwa.mah@nic.in) , [shailendrapandenwa@gmail.com](mailto:shailendrapandenwa@gmail.com), [nwa.pune@gmail.com](mailto:nwa.pune@gmail.com)