



Government of India
Ministry of Jal Shakti
Department of Water Resources, RD & GR
National Hydrology Project (NHP)

File No X-56014/2/2017-NHP Section/03-11

Dated: 26th August, 2019

Sub: Training Calendar under the National Hydrology Project for the 2nd, 3rd & 4th Qtr of FY 2019-20 and the 1st Qtr of the FY 2020-21- reg.

National Hydrology Project's objective includes Institutional Strengthening and Capacity Building of the Water Resource Professional working in the Central and State Implementing Agencies under NHP. To achieve this objective, and to get the maximum benefit of the resources, the National Training Calendar for the 2nd, 3rd & 4th Qtr of FY 2019-20 and the 1st Qtr of the FY 2020-21 is enclosed (Annexure-I) for advance planning and timely registration in the MIS portal of the NHP.

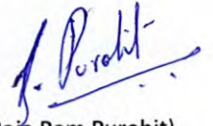
The Boarding & Lodging for participants of all such training shall be provided/borne by the concerned organising agencies and can be booked under the NHP Head. The remuneration and Airfare charges of the Guest faculty, wherever required (for non NHP members) will be borne by the host Implementing Agency and can charge to NHP Head. The responsibility of designing the course content and arrangement of faculty rests with the Organising Agency. However, NPMU, DoWR, RD & GR, Ministry of Jal Shakti may be consulted if considered necessary.

Apart from the courses mentioned in the Training Calendar, additional Training courses, In-House Training Programme by the IAs, Workshops, The World Bank's Missions, Mid Term Reviews, International Training Programme may be organised by DoWR, RD & GR, the World Bank, Other Multilateral agencies, Ministries/Departments of Government of India, which will be informed time to time. It is also to mention that the dates, venue and the organising agencies for some of the events are likely be Changed/Shifted. Kindly Check MIS Portal (or call) before arranging your Travel Plans.

Apart from the above, 6 international Training are also proposed for the current Financial year (Annexure-I), of which 2 are already Approved/Completed. The Circular for the remaining 4 International Training Programme will be sent separately and Nomination will be sought.

This issues with the approval of Competent Authority.

Encl: as above


(Raja Ram Purohit)
Dy. Director (NHP)
rr.purohit@nic.in

To,

1. **Principal Secretaries, Project Coordinator & Nodal Officer** of the State Implementing Agencies.
2. **Head of the Organisation** of the Central Implementing Agencies.

Copy for information to:

1. **PS to Joint Secretary (IC & GW), DoWR, RD & GR, Ministry of Jal Shakti, Rafi Marg, New Delhi**
2. **Training Coordinator (NHP), National Institute of Hydrology, Roorkee. U.K.**
3. **Chief Engineer, National Water Academy, CWC, Pune.**
4. **Director, National Ground Water Training and Research Institute, CGWB, Raipur.**
5. **Director, NERIWALM, Tejpur, Assam**
6. **Dr. Anju Gaur, Task Team Leader (NHP), the World Bank, H.T. Building, New Delhi.**
7. **Team Leader, TAMC (NHP), MTNL Building, 9, CGO Complex, New Delhi**

Training Calendar, 2nd, 3rd & 4th Qtr, 2019-20 and 1st Qtr 2020-21, National Hydrology Project (NHP)

S. No.	Title of Training Course	Area	Month	Organiser	Venue	status
Trainings: 1st Qtr (Apr to June, 2019)						
1	Applied Hydrology and introduction to the hydrological modelling	SW Hydrology	25th April - 10 May, 2019	Kerala SW	Trivandrum	Completed
2	River Discharge Estimation Using Non-Contact Hydrometric Techniques	Hydromet Instrumentation	3rd June - 7th June 2019	NPMU	IIT Roorkee	Completed
3	Training on River Basin Management and Planning using "MIKE Hydro Basin"	SW Modelling	6th - 8th June 2019	Gujrat SW	Gandhinagar	Completed
4	Water Quality Assessment and Management	Water Quality	17 - 21 June, 2019	NIH Roorkee	NIH Roorkee	Completed
5	Distance learning- basic hydrology and sciences for Asian region	SW Hydrology	17th June - 2nd July 2019	NWA	Pune	Completed
6	Remote Sensing & GIS Technologies	RS & GIS	24th - 28th June, 2019	NRSC	Hydrabad	Completed
Trainings: 2nd Qtr (July to September, 2019)						
1	Creation of Digital elevation model (DEM)	Survey	9th - 12th July 2019	SOI	Deheradun	Completed
2	Design, Organization and Management of Water Quality Monitoring	Water Quality	10th - 12th July, 2019	CPCB	Bangalore	Completed
3	WB Procurement Procedures and Contract management and arbitration under NHP	Procurement	15th - 19th July, 2019	NPMU	Pune	completed
4	Training course on Ground water issues of Punjab with special emphasis on Groundwater salinity	Water Quality	16th - 18th July, 2019	NIH Roorkee	WRD department Punjab Mohali	completed
5	Water Accounting including Phythan and Java Script	Water Accounting	9th Sept, 2019 onwards	NWA	Pune	Proposed by NWA Pune
6	2 weeks GIS & RS application to water resources	RS & GIS	19th-30th August, 2019	NRSC	Hyderabad	ongoing
7	Creation of DEM Proposed	Survey	September, 2019	SOI	Hydrabad	Proposed
8	Basic Ground Water for NE Region	GW Hydrology	25th -27th September, 2020	NPMU	Aizwal, Mizoram	Proposed
9	Hydro-met Instrumentation including communications (Field Oriented)	Hydromet Instrumentation	23- 27 September, 2019	NPMU	Mithan , DVC West Bengal	Proposed By NPMU
10	E-SWIS + Discharge Measurement Techniques& Instruments(WIMS)	Database Software	September, 2019	CWC/ Uttarakhand	Roorkee/Deheradun	Dates to be confirmed
11	Use of Remote Sensing and GIS for Water Quality Data Management	Water Quality	24 - 26 Sept, 2019	CPCB	IIPA, Delhi	Proposed
Trainings: 3rd Qtr (October to December, 2019)						
1	Intregated Reservoir operation using HEC Res-Sim or equivalent software	SW Modelling	October,2019	NWA	Pune	To be arranged with NIH
2	HEC HMS & HEC RAS Modelling	SW Modelling	14th - 18th October, 2019	NIH Roorkee	NERIWALM	To be arranged with NIH
3	Basic RS and GIS	RS & GIS	14th - 18th October, 2019	NRSC	Hydrabad	To be arranged with NRSC
4	Hydrologic Modelling	SW modelling	18th -29th Nov 2019	NIH Roorkee	Roorkee	Proposed By NIH
5	Water Information and Analytics Generation using Free Online Tools	SW Hydrology	18th -22 nd Nov 2019	NWA	Pune	From NWA Training schedule
6	Analytical Procedures for Water Quality Parameters - Uniform Protocol	Water Quality	26-28 Nov, 2019	CPCB	IIPA, Delhi	Proposed
7	E-SWIS + Discharge Measurement Techniques& Instruments(WIMS)	Database Software	November, 2019	CWC	Tamilnadu	Dates to be confirmed
8	Well Hydraulics and Pumping Test Data Analysis	GW Hydrology	9th - 20th Dec 2019	CGWB/NPMU	Raipur	NGWTRI Calender
9	Irrigation Bench-marking	Irrigation benchmarking	December, 2019	NWA	Pune	Proposed (Dates to b confirmed by NWA)
10	River Discharge Estimation Using Non-Contact Hydrometric Techniques	Hydromet Instrumentation	December, 2019	NPMU	IIT Roorkee	Proposed
11	Water Quality Management and Best Laboratory Practices	Water Quality	17-19 Dec, 2019	CPCB	IIPA, Delhi	Proposed
12	Mathematical modelling on GW system	GW modelling	Dcember, 2019	NIH	Lucknow /UP GW	to be decided with NIH
13	Sourface Water Modelling and Reservoir Simulation	SW Modelling	Dcember, 2020	NPMU	IIT Delhi	Dates and topics to be finalised
14	WB Procurement Procedures and Contract management and arbitration under NHP	Procurement	December, 2019	NPMU	NERIWALM	Proposed

S. No.	Title of Training Course	Area	Month	Organiser	Venue	status
Trainings: 4th Qtr (January to March, 2019)						
1	Hydro-met Instrumentation including communications (Field Oriented)	Hydromet Instrumentation	13th - 17 nd January , 2019	NPMU/CWPRS	Assam	Proposed By NPMU
2	IWRM	Water Resources Planning and Management	20th - 24th Jan 2020	CGWB/NPMU	Raipur	From NGWTRI calender
3	HEC HMS & HEC RAS Modelling	SW Modelling	20 - 24th January, 2020	NIH Roorkee/Bihar SW	Patna	for east zone .to be requested to NIH for eastern states
4	Integrated Water Resources Management	Water Resources Planning and Management	3rd -7th February, 2020	NWA	Pune	NWA calender
5	Sediment Yield & Reservoir Sedimentation	SW Hydrology	February, 2020	NPMU	IIT Delhi	to be requested as there are too many sedimentation study
6	Water Resources using Geo informatics	RS & GIS	February, 2020	NRSC	Hydrabad	To be requested to NRSC
7	Spring rejuvenation	GW Hydrology	February, 2020	NPMU/NIH	Dharamsala /Sikkim	Proposed
8	E-SWIS + Discharge Measurement Techniques& Instruments(WIMS)By CWC and Irrigation Management (MERIWALM)	Database Software	March, 2020	CWC/NERIWALM	NERIWALM	Proposed
9	Design, Organization and Management of Water Quality Monitoring	Water Quality	March, 2020	CPCB	RD, Bangaluru/ or Delhi / NE zone	To be arranged with CPCB
Trainings: 1st Qtr (April 2020 to June 2020)						
1	HEC HMS & HEC RAS Modelling	SW Modelling	April, 2020	NIH	Bangalore	Proposed
2	Hydromet Instruments ,measurement and monitoring	Hydromet Instrumentation	May, 2020	NPMU	Bhopal /chattishgarh	Proposed
3	Water Quality Assesment and Management	Water Quality	May, 2020	CPCB	Delhi	Proposed
4	Remote Sensing & GIS Technologies	RS & GIS	June, 2020	NRSC	Hydrabad	Proposed
5	Ground Water Hydrology	SW Hydrology	June, 2020	NIH Roorkee	Raipur	Proposed
6	Creation of Digital elevation model (DEM)	Survey	June, 2020	SOI	Deheradun	Proposed
7	WB Procurement Procedures and Contract management and arbitration under NHP	Procurement	May, 2020	NPMU	Pune / WB Delhi	Proposed
Workshops / Seminar / Conference 2019-2020						
1	National Conference on Flood Early Warning for Disaster Risk Reduction	Workshop /seminar	30th - 31st May 2019	NPMU	Hyderabad	Completed
2	Execution of Action Plan for Polluted River Stretches	Workshop /seminar	17th July, 2019	CPCB	Bengaluru	Completed
3	Modellers Meet	Workshop /seminar	23rd - 24th August 2019	NIH Roorkee	Roorkee	Postpone to a later date
4	2nd International Conference	Conference	6th - 8th November 2019	NPMU	Pune	
5	International Ground Water Conference (IGWC-2019)	Conference	21-24th October, 2019	NPMU	IIT Roorkee	NHP is Sponsering
6	Automation & Emerging Skill requirement for efficient Water Resource Management	Workshop /seminar	29th August, 2019	Skill India	Vigyan Bhawan	NHP is Sponsering
7	Execution of Action Plan for Polluted River Stretches-North East States	Workshop /seminar	14th Nov, 2019	CPCB	Shillong	
8	Laboratory Accreditation-Procedure, Preparedness and Introduction to OSHAS	Workshop /seminar	27th Dec, 2019	CPCB	Bhopal	
International Training 2019-2020						
1	International Training in Capacity Development in Groundwater Management (MAR), ICE WaRM (AWP), Australia	GW Hydrology	12th to 26th Oct, 2019	NPMU	Australia	Already Approved with Final Selection
2	Mathematical modelling on GW system at IHE Delft	GW Modelling	8th July to 2nd August, 2019	CGWB/NPMU	Delft, Netherland	Completed
3	Water Budgeting tool for river basins using Google Earth Engine Application	Water Accounting	19th-23th August, 2019	NIH/WB/ IWMI	Roorkee	ongoing
4	International Training on RiverWare - Advanced River System Modeling at Colorado, USA	SW Modelling	4th to 15th November, 2019	NPMU	Colorado, USA	Proposal obtained from institutes
5	Hydrology Data Analytics tools	Data Analytics	November, 2019	NPMU	Carlton, Canada	Discussion with Institution
6	Advanced Modelling on HEC applications, including HEC-HMS, HEC-RAS, HEC-ResSIM via RTI	SW Modelling	December, 2019	NPMU	Carolina, USA	Discussion with Institution
6	Integrated Water Resource Management (IWRM) / Irrigation Bench Marking at Srilanka / Singapore	Water Resources Planning and Management	January, 2020	NPMU	Srilanka	Discussion with Institution
Notes: Apart from the above, from time to time addition of events as per request of IAs & WB along with, In-House Training Programme by the States, WB Missions, MTR etc. All notifications will be available on the NHP website. Missions Dates & Venue may change/be shifted. Kindly check MIS (or call) before arranging travel plans.						