



NATIONAL HYDROLOGY PROJECT

Ministry of Jal Shakti, Department of Water Resources, RD & GR

e - Bulletin

MAY 2022



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OVERVIEW

During the month, the key highlights are the NPMU visit to Maharashtra GWD, Capacity building of IAs hosted by NWIC, CWPRS, DOWR, NIH, SOI, and World Bank. In addition, Andhra Pradesh SW, Mizoram, Jharkhand, and Chhattisgarh conducted training for their staff. In addition, a virtual workshop was organized by NHP, MoWR RD & GR in collaboration with the Australia India Water Centre and the Australia India Institute on Young Water Professionals.

REVIEW MEETING

During the month, Shri. Vivek Chaudhary, Deputy Secretary (DS), NPMU/NHP visited the Maharashtra GW and conducted an in-depth progress review with the WRD team on NHP activities. Following the review, the department team had also scheduled necessary field visits. The DS provided appropriate guidance and suggestions to the WRD team for further improvement and expediting NHP programs.



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IMPLEMENTING AGENCIES

CHHATTISGARH

On 7 May 2022, a one-day NHP awareness-raising workshop was held at the "Sarangpal AWS Station" in Chhattisgarh.



Figure 1 Villagers, teachers at awareness on AWS station

Villagers, students, and teachers from nearby villages, as well as department officials, attended the workshop. The purpose of the programme was to increase participants' understanding and awareness; additional activities included a demonstration of AWS equipment, tree planting, and a short cultural programme by students



Figure 2 Villagers, teachers at awareness program on AWS station

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JHARKHAND

Jharkhand WRD team conducted a hydrographic survey on 9th May 2022 at Massanjor Reservoir, Darbarpur, Jharkhand, India.

Hydrographic survey is the science of measurement and description of features, which affect maritime navigation, marine construction, dredging, offshore oil exploration/offshore oil drilling and related activities. Strong emphasis is placed on soundings, shorelines, tides, currents, seabed and submerged obstructions that relate to the previously mentioned activities



Figure 3 Jharkhand WRD is conducting Hydrograph Survey at Massanjor Reservoir, Darbarpur, Jharkhand, India.

KARNATAKA

During a meeting that took place on May 12, 2022 in Bengaluru between the TAMC team and the Karnataka WRD team, the Nodal officer and his team from the Karnataka WRD reviewed and discussed about the progress of RTDAS SW, GW, and SCADA. The TAMC team was in charge of organising the event. The progress of the implementation process was the primary topic of conversation, along with identification of any existing technical roadblocks and strategies for overcoming them.



Figure 4 NPMU/TAMC team discuss on project progress with WRD Team

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MEGHALAYA

On 17th May 2022, Meghalaya WRD has signed a contract with DAK Info Soft Pvt. Ltd., for supply and installation of DWLRs in Meghalaya.

Meghalaya has started installation of DWLRs across the State. This contract would further enhance expediting the implementation process of DWLR



Figure 5 Meghalaya WRD signs contract with vendor for supply and installation of DWLRs

KERALA

On 17 May 2022, Kerala GW today held a one-day training on "usage of logger unit software" for hydrogeologists and geophysicists under the NHP project. The training was inaugurated by Sri. John. V. Samuel IAS, Director of Kerala Groundwater Department. The session was attended by 21 officials



Figure 6 Kerala GW conducting a one-day training on "usage of logger unit software"

CWPRS

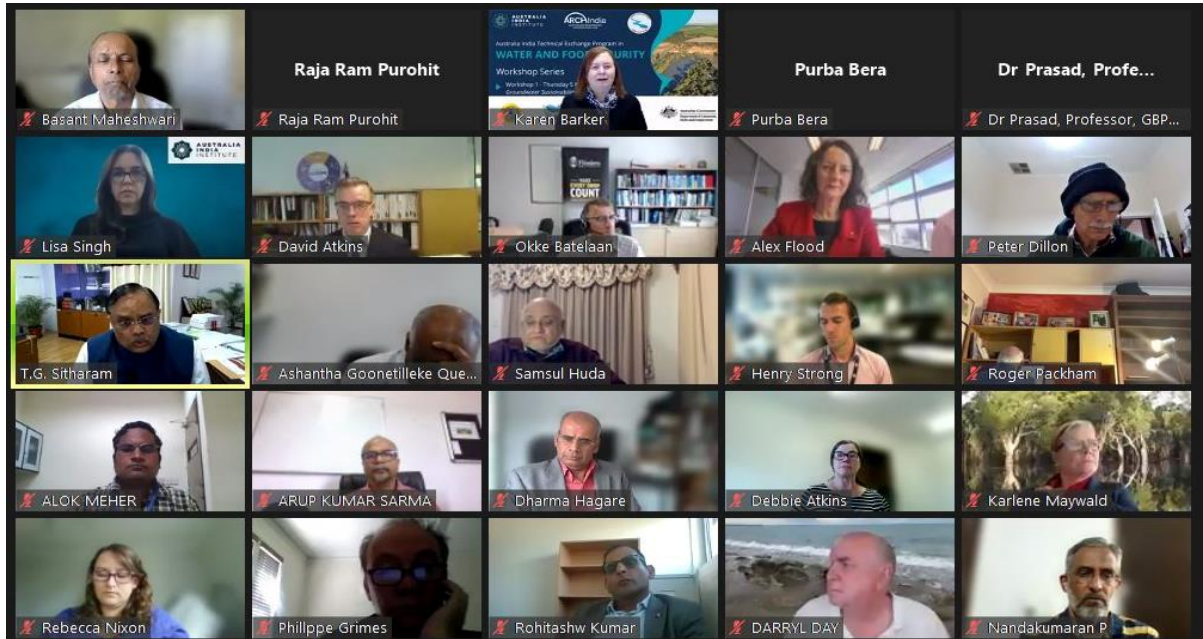
On 4 May 2022, a physical training was organised on "Basics of Meteorology and Conventional Meteorological Instruments" by CWPRS in Pune. The programme had technical and practical sessions through the involvement of 30 participants. Weather instruments are devices used by atmospheric scientists to sample the state of the atmosphere, or what it is doing, at a given time. Unlike chemists, biologists, and physicists, meteorologists do not use these instruments in a lab. They are used in the field, placed outdoors as a suite of sensors, which, together, provide a complete picture of weather conditions

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AUSTRALIA INDIA TECHNICAL EXCHANGE PROGRAM IN WATER AND FOOD SECURITY

On 5th May 2022, A Workshop series under the Australia India Technical Exchange Program in Water and Food Security (Groundwater Sustainability) was held on virtual platform. The key facilitators of this program were Mr.T.G.Sitharam from Gowhati IIT, Dr.Nandakumar, Chairman, CWC, Prof.Basant Maheshwari, from Western Sydney University, Australia.



The workshop's primary focus was on a topic referred to as "Groundwater Sustainability." The keynote speakers at the event concentrated mostly on the present problems that are confronting India and the solutions to these problems as they relate to Water Resource Management in India. They stressed the importance of the Australia India technical exchange programme as a component of the solution to the problem. This programme facilitates the sharing of knowledge and technical experience between the two countries.

1. The Australia India Water Centre and the Australia India Institute have collaborated to deliver the workshops, which aim to exchange knowledge and experiences in water resources management between the two countries, and to provide opportunities for networking and collaboration between water



researchers and professionals in the longer-term.

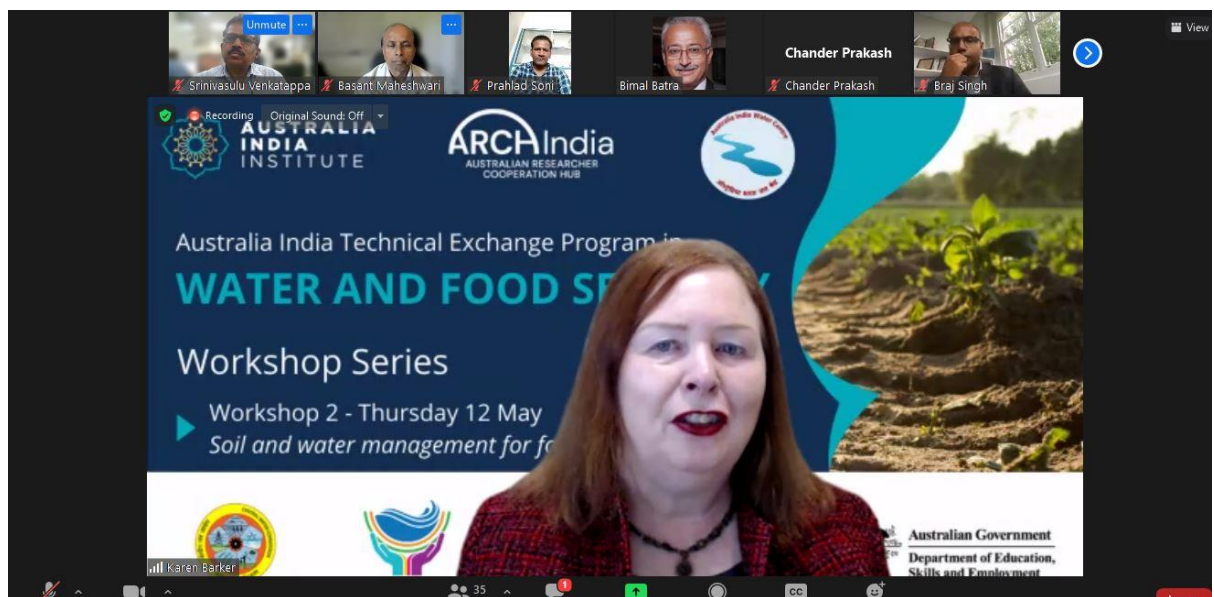
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Speakers include representatives from the Indian Ministry of Jal Shakti and the Australian Department of Agriculture, Water and Environment. There were 100 participants attended the event.

2. On 12 May 2022, 2nd Workshop was virtually organised under series of four workshops for the Australia India Technical Exchange Program in Water and Food Security. The Australia India Water Centre and Australia India Institute have partnered to deliver the workshops, which aim to exchange knowledge and experiences in water resources management between the two countries and to provide opportunities for networking and collaboration between water researchers and professions in the longer-term

The workshop themes are 1: Groundwater sustainability 2: Soil and water management for food security 3: Wastewater reuse management and sustainability 4: Water policy for sustainable water futures.

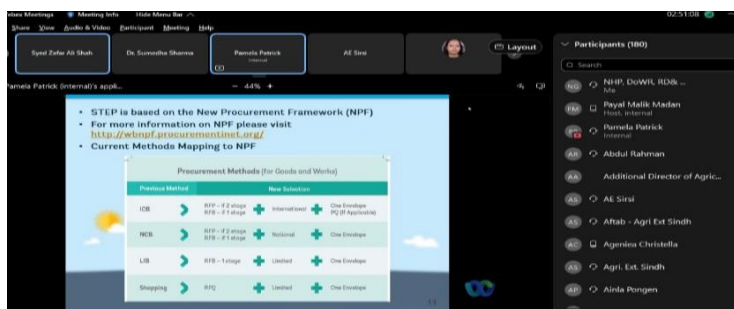


SURVEY OF INDIA (SOI)

On 5th May 2022, SOI organised a virtual training on “Use of GPS, Total Station and Digital Level” National Institute for Geo-Informatics Science & Technology (NIGST), Hyderabad, Survey of India. The training faculties were from NIGST, Hyderabad; they were Sh. Pankaj Singh Kalam, Sh. K.V. Ramana Murthy and Sh. N Balaram Swamy. The key topics covered were Introduction to use of GPS, Total Station & Levelling, brief details about GPS/GNSS Technology in Survey and brief details about Total Station & levelling activity in Survey – Dem. There were 10 participants attended this event.

WORLD BANK

The World Bank hosted a webinar on STEP-SYSTEMATIC TRACKING OF EXCHANGES IN PROCUREMENT on May



13, 2022. Ms. Pamela Patrick provided an informative presentation to the 280 attendees at this event. The presentation and Q&A session took up 3.30 hours. The World Bank team answered several questions raised by the participants about STEP's practical challenges.

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NRSC organise Training Program

National Remote Sensing Centre (NRSC) organised a two-day (10th to 11th May 2022) training program under the NHP on “Open Path Eddy Covariance (OPEC) Flux Tower Data Processing’ in Hyderabad. M/s.Campbell Scientific (India) Ltd., whose sensors and data logger were used in the OPEC flux towers, has provided training. Twenty-five scientists from NRSC, ten participants from other partner organisations participated in these off-line training 21 officers participated online. This training program is useful in OPEC system configuration. OPEC programming, Easy flux/data processing/corrections and usage of EC Flux software.



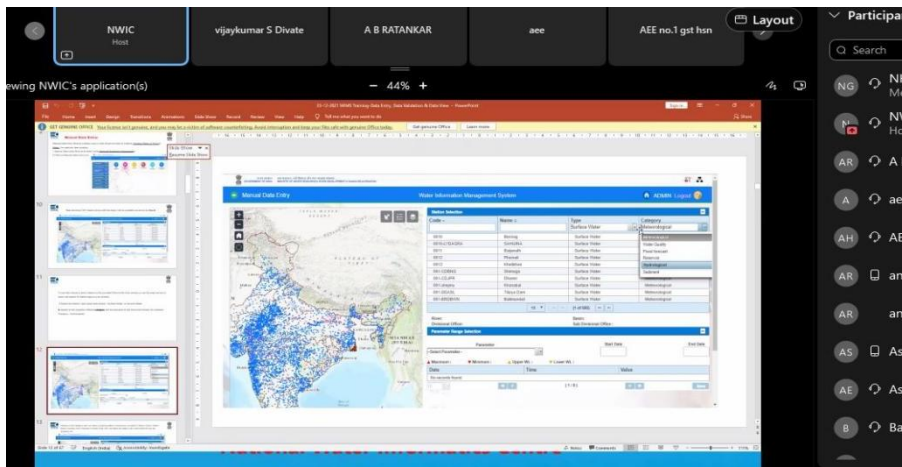
This training program will further help to further help to improve the quality of data, gap filling and follow standard protocol in processing the data and archiving. The OPEC data will be used in validating the satellite-based Actual Evapotranspiration (AET) products, assessing the water productivity and carbon sequestration of different agro-ecosystem. The training program began in presence of Director National Remote Sensing Centre, Shri. Prakash Chauhan, Shri Kushagra Sharma, Senior Joint Commissioner, and Shri Dheeraj Kumar Fagaria Deputy Commissioner, NHP

NWIC WEBINARS

On 24 May 2022, NWIC organised a webinar on “Station Management, WIMS MIS Dashboard, Email & SMS and Manage Contacts”. There were 20 participants had attended this event. The sessions had hands-on practice induce practical experience in the participants. Key contents consisted of Station Management i. Overview of Station Management. ii. How to select station based upon common search and advanced search. iii. How to create a station. iv. Mandatory fields while creating station. v. How to set Maximum, Minimum, Lower Warning Level, and Upper warning level for Primary Validation vi. How to enable Telemetry, or Flood Forecast, or Reservoir stations vii. How to attach various measuring parameters (Manual or Telemetry parameters) with stations 2. WIMS MIS Dashboard developed by NWIC 3. Email & SMS i. How to add the contacts and email? ii. How to send SMS iii. How to send email

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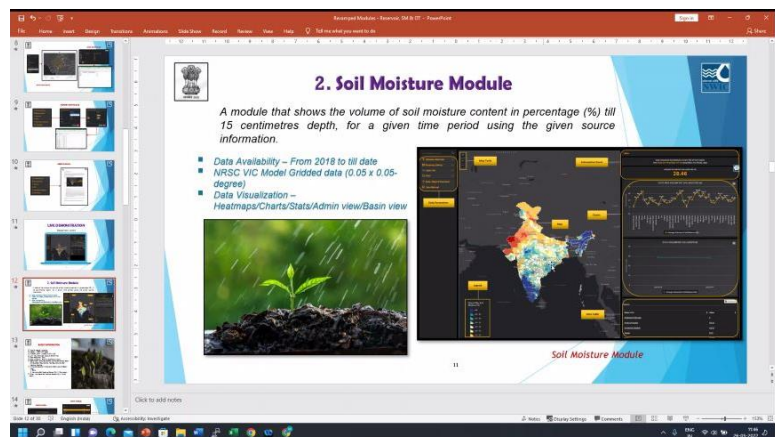
1. On 25 May 2022, the NWIC hosted a webinar titled "Data Entry, Import Tool, Data Validation, Data View, and Data View Management" for IAs. Twenty people were present at the event.

The key contents used were 1. Entry i. Overview of Data Entry module ii. How to select station, parameter, type and

Category. iii. How to enter manually data iv. Save manually entered records v. How to import the bulk data 2. Data Validation i. Overview of Data Validation module ii. How to select station, parameter, and date range for a data set. iii. Validation steps 3. Data View i. Overview of Data View ii. How to search stations, visualize stations in list, and tree view iii. How to get the parameter availability of a selected station iv. How to view time series data of a date range v. How to view chart of a parameter of a station vi. How to get Data availability of stations or agencies.

2. On 26 May 2022, Thursday, NWIC organised a virtual training program on "India-WRIS Revamped Modules (Soil Moisture, Evapo-transpiration, Reservoirs)".

Mr. Jatin Bhardwaj, NWIC, facilitated it. 25 attendees had participated in the training. The training had a combination of presentations, interactive and hands-on sessions. There were also Q & A sessions with some of the clarifications from participants. NHP thanks NWIC and the team for the vibrant facilitation and participants for their active participation and interactions.



NATIONAL INSTITUTE OF HYDROLOGY (NIH)

NIH conducted a training from 23rd to 28 May 2022 on Groundwater contaminant Transport Monitoring and Modelling. The training gave an overview of data preparation for groundwater contaminant transport and thus a pre-requisite course for Advance groundwater contaminant transport modelling. There were 41 participants attended the event.

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TELANGANA

On 14th May 2022, Telangana WRD conducted Hydrographic survey at Jurala project in Hyderabad. The supply, installation, upgrade, testing, commissioning, training, and maintenance of 53 AWLRs with Real Time Data Acquisition System (RTDAS) for selected Barrages, Reservoirs, and Rivers/Streams in the Telangana Surface Water Sector, as well as integration with the Data Center in Hyderabad.



TRIPURA



Data Centre building work is under construction in Tripura under NHP. This infrastructure provides value additional to the NHP ongoing activities



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