

Shri Kushvinder Vohra  
Chairman, CWC

June was a significant month for CWC, with major advancements in flood management, irrigation planning, and international collaborations on water resource initiatives, alongside enthusiastic celebrations of World

CWC and IIT Roorkee signed two Memoranda of Understanding (MoUs) to collaborate in the areas of urban flooding and water resources management. The MoUs broadly cover research work related to irrigation efficiency assessment, water accounting studies, cropped area mapping, water auditing, urban flood forecasting and risk management, and urban flood inundation and hazard mapping.

Environment Day and International Day of Yoga.

Under the third phase of the India-EU Water Initiative (IEWI), a meeting was held between senior officers of the Ministry of Jal Shakti (MoJS) and the EU delegation at the National Water Academy, CWC, Pune. During the meeting, discussions focused on identifying key areas in the water sector such as River Basin Management Plan preparation, Urban Flooding, River Basin Modelling, Hydrological Modelling, Remote Sensing and GIS, and Irrigation Management. The aim was to outline initiatives for rigorous training, capacity development, and training of trainers in these areas.

A review meeting on the implementation status of the Support for Modernisation of Irrigation Projects (SIMP) with ADB officials took place during the month. The Project Preparation Reports (PPR) for four projects have been completed. It was suggested to the ADB officials that the Central Irrigation Modernisation Office (CIMO), established under SIMP within the CWC, could be utilized for advancing these projects. Additionally, it was recommended to establish a steering mechanism for all ADB-assisted irrigation modernization projects in various states, with members from CIMO, the concerned state, and ADB.

The International Day of Yoga and World Environment Day were enthusiastically celebrated at CWC. On World Environment Day, employees took an oath to save the environment and participated in tree planting at the headquarters and regional offices. On the International Day of Yoga, employees were educated on the benefits of yoga and participated in yoga sessions. Additionally, significant progress was made in flood management, interstate water dispute matters, and irrigation planning during the month.

It was a proud occasion when the Secretary of the Department of Water Resources, River Development & Ganga Rejuvenation, Ministry of Jal Shakti, awarded CWC the second prize for outstanding execution of Swachhata Pakhwara.

*Dr. M. S. Swaminathan*



On the occasion of assuming charge, Sh. Kushvinder Vohra, Chairman, CWC extended warm welcome to Hon'ble Union Minister of Jal Shakti, Shri C.R. Patil on behalf of CWC

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## MEETINGS WITH FOREIGN DELEGATION

### India EU Water Initiative (IEWI)



The third phase of India EU Water Initiative (IEWI), has commenced since March 2024 and will continue for three years i.e. until February 2027. A meeting was held between Senior officers of Ministry of Jal Shakti, Department of Water Resources, RD & GR and EU delegation on "Development and Implementation Support to the India-EU Water Partnership (IEWP Action)" along with "Support to Ganga Rejuvenation (SGR), to review the achievements of the previous phases and strategize for the effective execution of the ongoing projects. During the meeting Secretary, DoWR, RD&GR, Ministry of Jal Shakti, Government of India desired that enhancing the institutional capabilities of

the three training institutes of DoWR, RD & GR, MoJS, Gol, needs be one of the major goals in Phase III.

In line with the vision of Shri Kushvinder Vohra, the Chairman, CWC, and Ex-Officio Secretary to the Government of India, very elaborate preliminary consultations were held under the Chairmanship of Chief Engineer, National Water Academy, CWC with a team of IEWI officials Shri Vikrant Tyagi, Ms Chhavi Sharda, and Shri Mohit Kumar at National Water Academy, Pune to chalk out the focus areas in Water sector e.g. River Basin Management Plan preparation; Urban Flooding; River Basin Modelling; Hydrological Modelling; Remote Sensing and GIS, Irrigation Management; etc, in which rigorous training, Capacity development, Training of trainers, and other necessary initiatives can be undertaken. The topics on which trainings can be undertaken this financial year were also deliberated.

It was agreed to upscale the training and capacity building initiatives in more intensive manner so that tangible outcomes can be achieved on a continued and sustainable basis.



## VISIT OF SITES/PROJECTS

### **Polavaram Irrigation Project, Andhra Pradesh**



Panel of Experts from the United States of America and Canada hired by PPA along with officers of CWC, PPA and WRD of PIP visited Polavaram irrigation project site from 30 June to 3 July 2024. The Panel of Experts inspected the upstream and downstream cofferdams and reviewed various aspects such as executed jet grouting, seepage analysis, and the AFRY proposal on geotechnical investigation. They suggested some techno-economically viable solutions and remedial measures. Experts engaged in discussions with representatives from Water Resource Department (WRD), Polavaram Project Authority (PPA), CWC, CSMRS, WAPCOS and M/s MEIL for better coordination and in depth project understanding.

### **Visit to Bengaluru – Negotiation Committee on Pennaiyar River Water Dispute**



A field visit was undertaken by the Negotiation Committee on Pennaiyar River Water Disputes under the Chairmanship of Shri K. Vohra, Chairman, CWC & Negotiation Committee during the period from 08.06.2024 to 10.06.2024. The Committee visited various sites in the State of Karnataka and Tamil Nadu in Pennaiyar Basin during the visit. Other officers from CWC, CGWB, NIH and Co-basin States of Karnataka, Tamil Nadu and UT of Puducherry were also present during the visit

**Yargol Dam, Karnataka**



**Pump House at Yargol Dam, Karnataka**



**Bylahalli LIS, Karnataka**



**Kelavarapally Reservoir, Tamil Nadu**





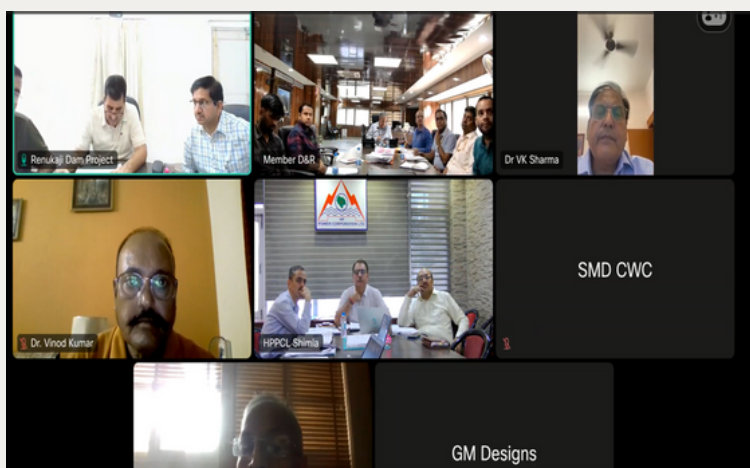
## TRAINING/WORKSHOP/CONFERENCE

### Training Programmes organized by NWA, Pune

Sl No.	Name of Training	Durations	No. of participants	Objective
1	Water Conservation and Management (Training-cum-Workshop)	One day	More than 250	Mass awareness programs on 'Water Conservation and Management' for zilla parishad, block level, Panchayati raj functionaries, and other stakeholders
2	Pumped Storage Hydroelectric Projects	Two week	44	To provide comprehensive insights into the planning and development of Pumped Storage Hydroelectric Projects (PSHPs)
3	Artificial Intelligence (AI), Machine Learning (ML), Deep Learning (DL) & Data Driven Decision Making for Government	Three Days	--	To equip participants with the necessary skills in AI, ML, and DL,
4	Level-1 Mandatory Cadre Training Program for Junior Engineers (Civil & Mechanical)	Four weeks	5	Cadre Training
5	Overview of Water Resources Sector in India	Five Days	--	Part of the induction training program for the newly recruited/promoted officers/staff of NERIWALM, Tezpur

## MEETINGS REGARDING PROJECTS

### Renukaji Dam Project, Himachal Pradesh      Koldam Dam, Himachal Pradesh



Shri Sanjay Kumar Sibal, Member (D&R), CWC chaired a meeting with the Panel of Geological Experts for Renukaji Dam Project, officers from CWC and HPPCL on 07-06-2024 to review the status of investigation work going on at Renukaji dam site for further taking up the tender stage design and drawing works.



Shri Sanjay Kumar Sibal, Member (D&R), CWC chaired a meeting with NHPC to discuss Koldam Dam, Himachal Pradesh issues and determine the scope of work for CWC as a Design Consultant for review of Spillway Chute and EDA issues of Koldam Dam, Himachal Pradesh on 0.06.2024 at CWC, Sewa Bhawan, New Delhi.



# Polavaram Irrigation Project, Andhra Pradesh



Shri Sanjay Kumar Sibal, Member (D&R), CWC chaired a meeting with the committee of four Individual experts engaged as members of the 'Panel of Experts' (POE) for the Polavaram Irrigation Project along with the officers of CWC, PPA, CSMRS, WRD, (GoAP) in physical mode on 29.06.2024 at CWC, Sewa Bhawan, R.K Puram, New Delhi. The meeting facilitated One-to-One interactions between the official concerned with the project and the Panel of Experts (PoE). This interaction aided in better

visualization of technical issues and improved coordination among the experts, ultimately enabling them to provide their expert advice to find a way forward for the progress of the project. The meeting was attended by Chief Engineer, Designs (NW&S) along with Deputy Directors, Embankment (NW&S) directorate, CWC.

# Lakhwar Multipurpose Project, Uttarakhand

A hybrid meeting between officials of CWC, NIRM and UJVN Ltd. to discuss the NIRM's 3D Numerical Modelling Studies of Power House Complex of Lakhwar MPP, Uttarkhand was held under Chairmanship of Chief Engineer, Designs (N&W) on 18.06.2024 at CWC, Sewa Bhawan, New Delhi. During the meeting, aspects regarding model type, cases/scenarios to be modelled, instrumentation and its use in modelling and other modelling nuances were discussed in detail.

## OTHER IMPORTANT ACTIVITIES

### 1. Flood Related Matters

### Flood Situation in the country - June 2024

Regular Flood Forecasting Activity commenced on 01.05.2023 in Brahmaputra and Barak and Jhelum basins. During the period from 1st May to 30th June 2024, Total 772 (754 level+18 Inflow) flood forecasts were issued, and 714 (697 Level+17 Inflow) forecasts were within permissible limit with a 92.49 % percent accuracy. 27 nos. of Red Bulletin (for Extreme flood situation) and 114 no. of Orange Bulletin (for severe flood situation) were issued during the month of June 2024 from Central Flood Control Room.

### Summary of Flood Situation during 01.05.2023 to 30.06.2024

#### Extreme Flood Situation

One FF station observed Extreme Flood Situation.

Sl No.	State	District	River	Station	Period	
					From	To
1	Assam	Jorhat	Brahmaputra	Neamatighat	30/06/2024	02/07/2024

Four flood monitoring station observed Extreme flood situation.

#### Severe Flood Situation

23 FF Stations observed Severe Flood Situation in Assam, Bihar, Sikkim and West Bengal.

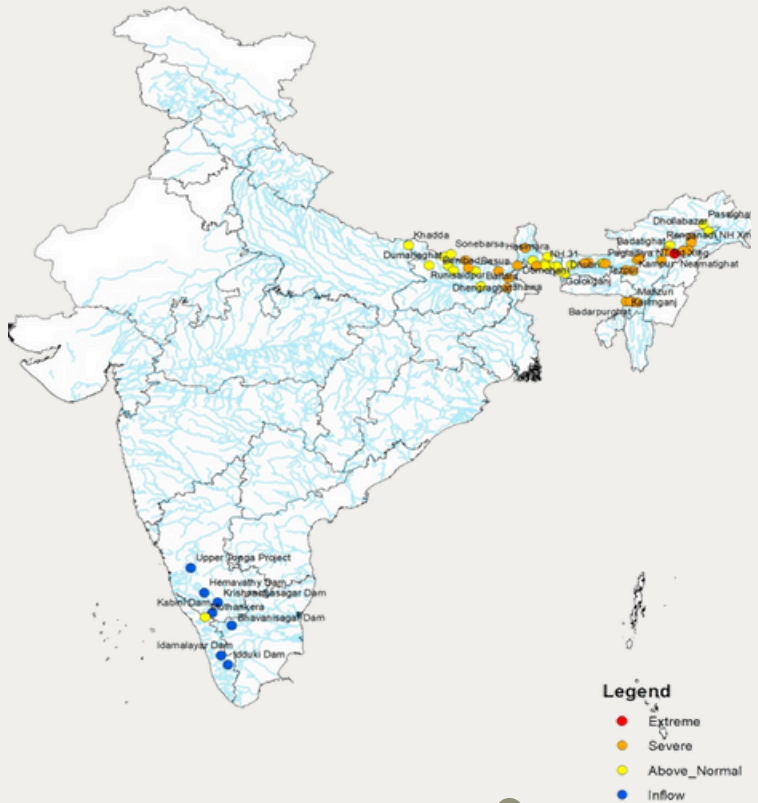
16 monitoring station observed Severe Flood Situation in Assam, Bihar, Manipur, Kerala, Karnataka and Tripura.

### Above Normal Flood Situation

22 FF Stations in Arunachal Pradesh, Assam, West Bengal, Bihar, Uttar Pradesh and Kerala observed Above Normal Flood Situation.

### Reservoirs having Inflow above threshold limit

7 reservoir received inflows above their threshold limit in Tamilnadu, Karnataka and Kerala.



## 2. Other Activities

### Review meeting of Major & Medium Irrigation Projects Publications

A meeting was held under the Chairmanship of Chairman, CWC on 29th June, 2024 with Member (WP&P), CWC, Chief Engineer(PAO) & Director (P&P) to review the progress of publication of National register of MMI projects. During the meeting final draft of National Register of MMI projects in India was submitted. In compliance to decisions in meeting, the draft shall be updated and the National Register of MMI Projects in India will be published at the earliest.

### Discussion on Implementation status of the Support for Modernization of Irrigation Projects (SIMP), supported by the ADB



Shri Kushvinder Vohra, Chairman, CWC and Ex-officio Secretary to Gol, took meeting on 13/06/2024 to review the status of implementation of Support for Modernisation of Irrigation Projects (SIMP). The meeting was attended by Ms. Yasmin Siddiqi, Director, Ms. Alexia Michels from ADB Hq Manila and Mr. Vikas Goyal from ADB Delhi and officers of CWC. Way forward regarding PPR prepared for four projects was discussed.

ADB officials mentioned that Karnataka state may like to take up many projects for modernisation. Chairman CWC suggested that Central Irrigation Modernisation Office (CIMO) setup under SIMP in CWC may be utilised in carrying forward such projects. It shall help in further development of expertise in CIMO which in turn can help states in better implementation of modernisation projects.

Chairman CWC also suggested to have a steering mechanism for all ADB assisted Irrigation modernisation projects in different States having members from CIMO, State concerned and ADB which shall help in standardisation of the works in this regard. The experiences of RAP-MASSCOTE (Mapping System and Services for Canal Operation Techniques), Irrigation Modernisation Plan (IMP) & best practices under SIMP may be utilised for future proposals.

### Swachhata Pakhwara Award



On June 11, 2024, Sh. Kushvinder Vohra, Chairman, CWC and Ex-officio Secretary to Gol, received the 2nd prize award from the Secretary, DoWR, RD&GR, Ministry of Jal Shakti, for the outstanding execution of Swachhata Pakhwara organized by the CWC.

Chairman, CWC has dedicated this prize to all the officers and staffs of CWC(HQ) and Field Organisations involved in the celebration of Swachhata Pakhwara.

Under the direction of Chairman, CWC celebrated Swachhata Pakhwara nationwide from March 16th to March 31st, 2024. This included activities at the headquarters in New Delhi and field offices across India, planned and implemented in consultation with regional offices. Key activities included the Swachhata Pledge, cleaning office premises, water bodies, ponds, lakes, ghats, riverbanks, and areas near CWC site offices in collaboration with local residents and administrations.

To promote cleanliness among students, drawing and painting competitions were organized for school children, emphasizing the importance of cleanliness in daily life. Additionally, tree plantation activities and Nukkad Nataks (street plays) by CWC staff were held to spread awareness about cleanliness and water conservation.

### Memorandum of Understanding (MoU) with IIT Roorkee

With an aim to strengthen collaboration with the stakeholders working in the area of water resources, Shri Kushvinder Vohra, Chairman, CWC & Ex-Officio Secretary to Government of India held detailed discussions with IIT, Roorkee and it was decided that CWC and IIT Roorkee may collaborate in areas of urban flooding and water resources management.





In this regard, two Memorandum of Understanding (MoU) were signed by Sh. Kushvinder Vohra, Chairman, CWC and Prof. K.K. Pant, Director, IIT Roorkee in the above areas.

Broadly MoUs covers the research work related to Irrigation Efficiency Assessment, Water Accounting studies, Cropped Area Mapping, Water Auditing, Urban Flood Forecasting & Risk Management, Urban Flood Inundation & Hazard Mapping, etc. These works will be carried out through mutual consultations and collaboration, leveraging the expertise and resources of both institutions.

## Review Status of Hydrological Observations of Various Sites

Shri Kushvinder Vohra, Chairman, Central Water Commission & Ex-Officio Secretary to the Government of India held a meeting on 5th June, 2024 to review the status of hydrological observations of various sites established by CWC. Status of tenders/contracts and various activities linked with it were also reviewed.

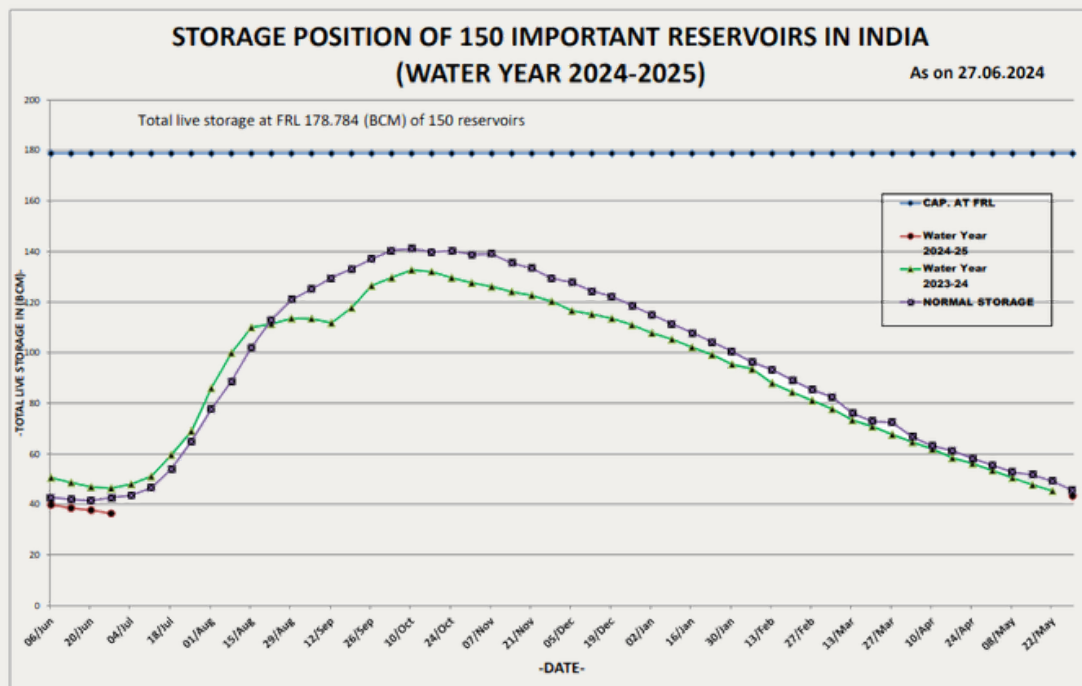
The meeting was attended by all field Chief Engineers, Superintending Engineers./Directors, Executive Engineers of field organisations of CWC and senior officers from CWC (Hq).

Chairman, CWC emphasized that the monsoon has already arrived in the North Eastern and Southern region of the country and the important Flood Forecasting activities of CWC should not get affected due to any delay in tendering process related to support and supervisory services. Critical review of activities related to support & supervisory services, hiring of boats, working of telemetry stations, etc. for each field organization of CWC was discussed in detail and several decisions were taken so that all works are carried out smoothly.

## 3. Reservoir Monitoring

CWC is monitoring live storage status of 150 reservoirs of the country on weekly basis and is issuing weekly bulletin on every Thursday. Out of these reservoirs, 20 reservoirs are of hydro-electric projects having total live storage capacity of 35.299 BCM. The total live storage capacity of these 150 reservoirs is 178.784 BCM which is about 69.35% of the live storage capacity of 257.812 BCM which is estimated to have been created in the country.

As per reservoir storage bulletin dated 27.06.2024, live storage available in these reservoirs is 36.368 BCM, which is 20% of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was 46.369 BCM and average of last 10 years live storage was 42.645 BCM. Thus, the live storage available in 150 reservoirs as per 27.06.2024 Bulletin is 78% of the live storage of corresponding period of last year and 85% of storage of average of last ten years.





## International Day of Yoga





# World Environment Day





# Map indicating the PMKSY-AIBP & CADWM projects to be completed (including already completed) and recommended for foreclosure.



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