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# JALANSH

THE MONTHLY NEWSLETTER OF CENTRAL WATER COMMISSION

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VOLUME-07

## ACTIVITIES

NEGOTIATION COMMITTEE ON PENNIYAR  
RIVER WATER DISPUTE

EARLY WARNING SYSTEM IN MAHANADI BASIN

MOU SIGNED BETWEEN CWC AND NHPC

FIRST MEETING OF NTFWRDM

## PROJECTS

POLAVARAM IRRIGATION PROJECT

NORTH KOEL PROJECT, BIHAR & JHARKHAND

RAJASTHAN FEEDER AND SIRHIND FEEDERS

## RESERVOIR MONITORING

# CONTENTS

---

## PAGE 1

### MEETING REGARDING PROJECTS:

polavaram Irrigation Project

North Koel Project

Rajasthan Feeder and Sirhind Feeders Projects

---

## PAGE 2

### TRAINING/WORKSHOP/CONFERENCE:

Training Programs organized by NWA, Pune

---

## PAGE 3

### VISIT OF SITES/PROJECTS:

Polavaram Project and its Command Area at Rajamundry, Andhra Pradesh

Renukaji Dam Project and Lakhwar Dam Project

---

## PAGE 4

### OTHER IMPORTANT ACTIVITIES:

Flood Situation in the country - December 2024

---

## PAGE 5

### OTHER IMPORTANT ACTIVITIES:

Meeting with NRSC regarding Spatial Flood Early Warning System Godavari and Tapi River Basin

Review Meeting on Irrigation, Flood Control, and Drainage Project in Saran District, Bihar

Meeting with CDAC regarding Flood Prediction and Early Warning system in Mahanadi Basin

Negotiation Committee on Penniyar River Water Dispute

Issues on Interstate Projects

## PAGE 6

### OTHER IMPORTANT ACTIVITIES:

MoU signed between CWC and NHPC reg. Teesta -V Hydroelectric Project, Sikkim

Development of SHAISYS 1.0

Forthcoming censuses under Irrigation Census Scheme

---

## PAGE 7

### OTHER IMPORTANT ACTIVITIES:

First Meeting of National Task Force for Integrated Water Resources Development & Management (NTFIWRDM)

Meeting regarding important Issues/matters of D&R Wing

---

## PAGE 8

### OTHER IMPORTANT ACTIVITIES:

Meeting regarding important Issues/matters of WP&P Wing

---

## PAGE 9

### Reservoir Monitoring

---

## PAGE 10

### Gallery

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## PAGE 11

### Republic Day 2025



## Chairman Message



Dr. Mukesh Kumar Sinha  
Chairman, CWC

Water is fundamental to national development, and its sustainable management remains a top priority. The Central Water Commission (CWC) plays a crucial role in shaping policies, enhancing infrastructure, and driving innovation to address climate change challenges and rising water demands.

CWC actively collaborates with foreign delegations to exchange knowledge on flood forecasting, reservoir management, and irrigation techniques. These interactions strengthen India's technical capabilities and foster global partnerships.

At the national level, we are expediting critical projects, such as the North Koel Reservoir Project and the Polavaram Irrigation Project, by resolving land acquisition issues and finalizing technical elements. Similarly, the relining of Rajasthan and Sirhind Feeders is progressing despite multiple challenges.

Site visits to key projects, including Polavaram, Renukaji, and Lakhwar Dams, have provided valuable insights for overcoming technical hurdles. The dedication of our engineers ensures these projects remain on track to deliver long-term benefits.

Flood management remains a priority, with CWC collaborating with NRSC and C-DAC to enhance early warning systems for the Godavari, Tapi, and Mahanadi basins. Our flood forecasting system issued over 10,400 alerts last monsoon with 95.53% accuracy, highlighting the role of technology in disaster mitigation.

Addressing inter-state water disputes is another critical area. CWC is facilitating negotiations on the Pennaiyar River Dispute and resolving inter-state project challenges through expert assessments. Under PMKSY, we continue supporting AIBP and CAD&WM programs to improve irrigation efficiency and agricultural productivity.

Technological advancements are central to our mission. The signing of an MoU with NHPC for the Teesta-V Hydroelectric Project reinforces our commitment to dam safety. Additionally, the development of SHAISYS 1.0 with IIT Roorkee will enhance seismic hazard assessment.

Capacity building is integral to our strategy. The National Water Academy (NWA), Pune, continues to train professionals in water resource engineering, irrigation, and flood management. The first meeting of the National Task Force for Integrated Water Resources Development & Management marks a key step toward sustainable water governance.

Reservoir monitoring ensures efficient storage management. With a live storage capacity of 180.85 BCM, regular assessments optimize water allocation and mitigate drought risks.

Moving forward, CWC remains committed to improving water governance, enhancing infrastructure resilience, and adopting innovative technologies to ensure a secure water future. I extend my sincere gratitude to all officers, engineers, and stakeholders for their relentless efforts in advancing CWC's mission. Together, we will forge a sustainable water future for India.

A handwritten signature in blue ink, likely of Dr. Mukesh Kumar Sinha, the Chairman of CWC.

## Meetings Regarding Projects

### **Polavaram Irrigation Project**

Meeting held on 09.01.2025 through VC with Panel of Experts (PoE) and all stakeholders of PIP to discuss on the Results of Plastic Concrete mix design and other relevant issues of proposed D-Wall in Gap-II of the main dam. In this meeting, a detailed discussion was held regarding Plastic Concrete Mix based on their 14 Days strength parameters results and PoE and CSMRS were requested to provide their views on the choice of mix. Accordingly, the views of CSMRS and PoE were received and the same were communicated to CWC for finalization of the design mix. Based on the inputs, concrete mix was finalized.

### **42nd meeting of TEC for completing the balance works of North Koel Project, Bihar & Jharkhand**

The 42nd meeting of the Technical Evaluation Committee (TEC) for completing the balance works of North Koel Reservoir Project (NKP) was held on 03.01.2025 at CWC, New Delhi under the Chairmanship of Member (WP&P), CWC and Chairman (TEC), NKP. The officers from DoWR, CWC HQ & field units, State Governments of Bihar, Jharkhand and WAPCOS participated in the meeting.

There was discussion on important agenda items such as status of land acquisition by WRD Bihar, progress of various components of the balance works of the project by the WAPCOS, Status of Tender for the work of "Lining, Repair, &

Construction of RMC and it's structures in Bihar portion (RD 68.37 Km to 75.39 Km), Tender for the work "Earthwork, Repair, & Construction of Distribution Network (09 Nos. Minors) of Right Main Canal, Jharkhand, and its structures", Status of Tender for the work of the construction of distribution system off taking from RMC in Bihar etc.

### **Relining of Rajasthan Feeder and Sirhind Feeders Projects**

Ministry of Jal Shakti, Dept. of Water Resources, RD & GR in a letter dated January 27, 2025, informed that a meeting on the subject was scheduled for Jan 28, 2025. In that meeting, Principal Secretary, WRD, Govt. of Punjab provided additional talking points on the above subject matter. Accordingly, a meeting was held on January 28, 2025, chaired by the Secretary of the Department of Water Resources (DOWR), River Development & Ganga Rejuvenation (RD & GR).

During this meeting, the following points were discussed as per agenda i.e., Design issues of balance portion of relining of Rajasthan and Sirhind Feeders, affected by farmers protest and also review of progress and action plan for completion of balance works of the of relining of Rajasthan Feeder and Sirhind Feeder project. The Chairman, Central Water Commission, Member (D&R), and various concerned officers of CWC attended the meeting and discussed accordingly.

**Girija Barrage, District Beharaich**





# Training/Workshop/Conference

## Training Programs organized by NWA, Pune

Sl No.	Name of Training	Durations	No. of participants	Objective
1	Mandatory Induction Training Program for Newly Recruited Multi-Tasking Staff of CWC	02 weeks	39	Cadre Training
2	Community Horticulture Production & Marketing Associations/ WUAs and Participatory Irrigation Management	01 Week	14	For officers from the Department of Horticulture and the Jal Shakti Vibhag, Government of Himachal Pradesh
3	Mandatory Cadre Training Program (MCTP) for Senior Time Scale (STS) Officers of Central Water Engineering Service (Group-A)	03 Week	28	Cadre Training
4	Overview of Water Resources and its Management	05 Days	58	For newly recruited Officers of the Central Ground Water Board (CGWB)





## Visit of sites/projects

### **Polavaram Project and its Command Area at Rajahmundry, Andhra Pradesh**

A study visit of the Standing Committee on Water Resources took place in Puducherry, Mahabalipuram, and Rajahmundry from January 8 to 11, 2025. Discussions with CWC officials were held at Puducherry/ Mahabalipuram on January

8-10, 2025, and at Rajahmundry on January 11, 2025. In this regard, Member D&R visited Rajahmundry and Deputy Director, Embankment (NW&S) Dte., accompanied Member (D&R).

### **Renukaji Dam Project and Lakhwar Dam Project**



The Lakhwar Multi-Purpose Project, Uttarakhand and Renukaji Dam Project, Himachal Pradesh are at construction stage project.

A site visit of CWC officers led by Member (D&R),

CWC along with officers from CSMRS is made to discuss the issues related to Lakhwar Multi-Purpose Project and Renukaji Dam Project from 23-25th January 2025.



## I. Flood related matters

### Flood Situation in the country - December 2025

Regular Flood Forecasting Activity commenced on 1st May 2024 in Brahmaputra and Barak and Jhelum basins. During the period from 1st May to 31st December 2024, Total 10442 (7086 level+3356 Inflow) flood forecasts were issued, and 9967 (6790 Level+3177 Inflow) forecasts were within permissible limit with a 95.45 % percent accuracy. 6 nos. of Red Bulletin (for Extreme flood situation) and 15 nos. of Orange Bulletin (for severe flood situation) were issued during the month of December 2024 from Central Flood Control Room.

#### Summary of Flood Situation during 01.05.2024 to 31.12.2024

##### Extreme Flood Situation

Six 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
2		Sonitpur	Jiabharali	Jia-Bharali NT Road Crossing	01/07/2024	01/07/2024
3		Sivasagar	Dikhow	Sivasagar	02/07/2024	02/07/2024
4		Dibrugarh	Buridehing	Khowang	02/07/2024	03/07/2024
5	Bihar	Sitamarhi	Bagmati	Dheng Bridge	28/09/2024	29/09/2024
6		Muzzafarpur	Bagmati	Runisaidpur	29/09/2024	30/09/2024

73 flood monitoring station observed Extreme flood situation.

##### Severe Flood Situation

91 FF Stations observed Severe Flood Situation in Assam, Bihar, Sikkim , West Bengal, Uttar Pradesh, Andhra Pradesh, Kerala, Telangana, Maharashtra, Tamilnadu, Tripura, Jharkhand, Odisha, Madhya Pradesh, Rajasthan, Gujarat and Chhattisgarh.

134 monitoring station observed Severe Flood Situation in Andhra Pradesh, Assam, Bihar, Manipur, Kerala, Karnataka, Tripura, Uttar

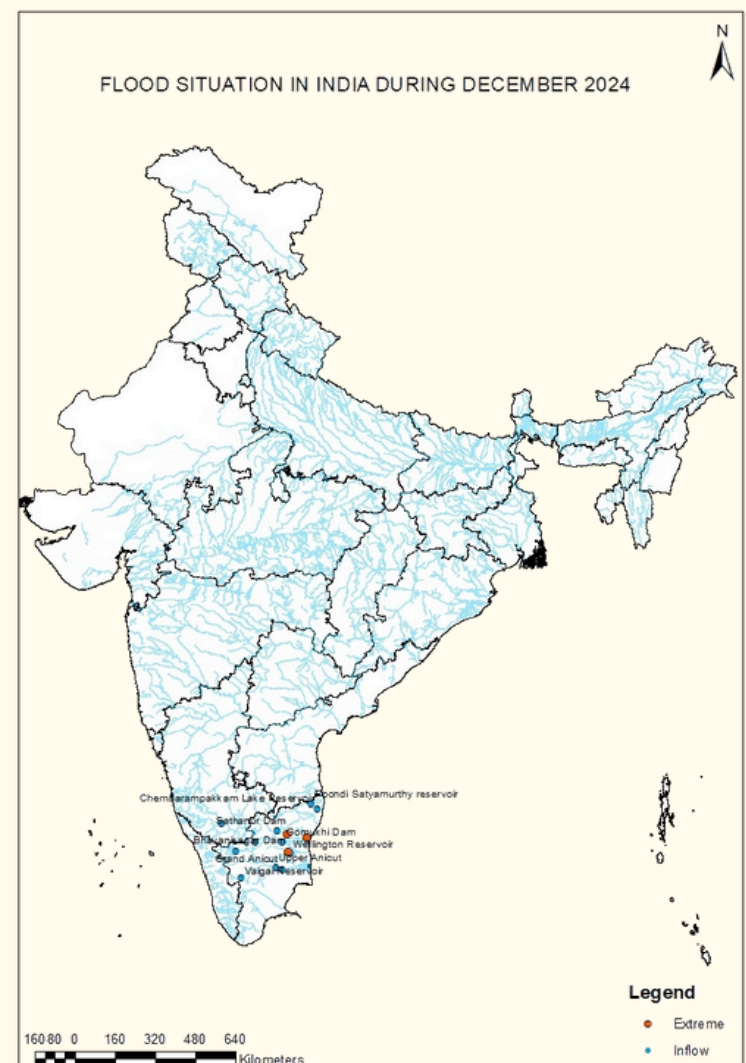
Pradesh Uttarakhand, Maharashtra, Madhya Pradesh, Odisha, Gujarat, Goa, Tamilnadu, Telangana, Jharkhand, Chhattisgarh, Rajasthan and West Bengal.

##### Above Normal Flood Situation

50 FF Stations in Arunachal Pradesh, Assam, West Bengal, Bihar, Uttar Pradesh, Uttarakhand, Andhra Pradesh, Maharashtra, Jharkhand, Odisha, Telangana, Tripura, Karnataka and Gujarat observed Above Normal Flood Situation.

##### Reservoirs having Inflow above threshold limit

82 reservoir received inflows above their threshold limit in Tamilnadu, Telangana, Karnataka, Kerala, Andhra Pradesh, Chhattisgarh, Gujarat, Jharkhand, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Uttar Pradesh, Uttarakhand and West Bengal.



## Other Important Activities

### **Meeting with NRSC regarding Spatial Flood Early Warning System Godavari and Tapi River Basin**

A meeting to review the progress of works in respect of "Spatial Flood Early Warning System in Godavari and Tapi Basin" by National Remote Sensing Centre (NRSC), Hyderabad under NHP, was held on 09.12.2024 in the committee room, Sewa Bhawan, New Delhi. The meeting was chaired by Shri Rakesh Kumar Verma, Chairman, CWC.

### **Review Meeting on Irrigation, Flood Control, and Drainage Project in Saran District, Bihar**

A meeting to discuss the Detailed Project Report (DPR) of the "Irrigation, Flood Control, and Drainage in Saran District of Bihar – Phase 1" was held on January 10, 2025, under the chairmanship of Member (WP&P), CWC. Officials from WRD, Bihar, presented the project details.

The project aims to enhance irrigation potential and improve water management by restoring the Western Gandak Canal System. Key components include de-siltation, repair, and construction of canal infrastructure, interlinking of canals, and SCADA implementation. The committee deliberated on reconciling irrigation potential figures, avoiding duplication with previously approved projects, and finalizing key technical details.

To expedite approvals, WRD, Bihar officials will visit CWC (HQ), New Delhi, to resolve pending issues within two weeks. The updated DPR and necessary documents will then be prepared for further consideration. The project is expected to significantly contribute to agricultural productivity and flood management in the region.

### **Meeting with CDAC regarding Flood Prediction and Early Warning system in Mahanadi Basin**

A meeting on "C-DAC's Solution for Flood Prediction and Early Warning" was held in hybrid mode on 09.12.2024 in the Committee Room, Sewa Bhawan, R.K. Puram, New Delhi, under the chairmanship of Shri Rakesh Kumar Verma,

Chairman, CWC. The senior members from the C-DAC and senior officials of CWC (HQ) and regional offices (MERO) joined the meeting.

C-DAC was requested to submit the detailed concept note on improvement and launch of dashboard developed for Mahanadi basin with proper emphasis on training modules for dissemination of information to local community, in the manner that can be easily understandable to the farmers and local population.

C-DAC was also asked to submit plan for scaling its model for inundation modelling and its output dissemination in other basins, in association with CWC. Plan of action for suitably introducing/ enhancing user-friendly visualization, scalability, multilingual facility, SMS and Whatsapp alerts, etc. in the concept note was emphasised by the Chairman.

C-DAC was also requested to explore the option of integrating the inundation results in other dashboards, particularly those owned by the State/Central Government agencies, through API.

## **II. Inter-State Disputes**

### **Negotiation Committee on Penniyar River Water Dispute**

Chief Engineer, IMO made a Power Point Presentation covering issues involved in the Pennaiyar River Water Disputes mainly between the States of Tamil Nadu and Karnataka, brief of 1st Negotiation Committee, constitution of 2nd Negotiation Committee, recommendations made by the 2nd Negotiation Committee in its Report (Part-1) dated 19.09.2024 and conclusions of the Committee in its Report (Part-2) dated 30.09.2024 regarding water availability and utilization by the basin States in Pennaiyar River basin. The topics covered in the presentation were discussed in detail by the Chairman. The meeting was attended by Member (WP&P), CE (IMO) and officers from ISM-1 Dte.

### **Issues on Interstate Projects**

In the meeting, Chief Engineer, IMO made a Power Point Presentation on inter-State issues involved in Inter-State projects which were received for appraisal in CWC in the recent past and inter-State aspects involved in the projects



## Other Important Activities

located in inter-State river basins. During the presentation, Chairman held detailed discussion on each project and given suggestions to resolve inter-State issues pertaining to some projects. The meeting was attended by Member (WP&P), CE (IMO), officers from IMO and PAO.

### **IV. Other Activities**

#### **MoU signed between CWC and NHPC reg. Teesta -V Hydroelectric Project, Sikkim**



Teesta-V Power Project is a run-of-river scheme located in East Sikkim district of Sikkim and was commissioned in March 2008. The project was earlier designed and constructed for PMF of 9,500 cumec to be passed through five spillway bays as approved by CWC. However, subsequent to the comprehensive study of Teesta Basin by CWC in 2011, the design flood was revised to 14,596 cumec.

The design flood capacity of the project is proposed to be augmented by way of following changes/ modifications in design parameters of the project:

- Raising 1.5 m high parapet wall on top of dam
- Modifying existing diversion tunnels into tunnel spillway for passing the remaining discharge

Accordingly, the Memorandum of Changes (MoC) has been prepared by NHPC and requested CWC for providing services of review consultant.

The MoU with NHPC was signed by the Director, CMDD (E&NE) in presence of the Member, D&R and Chief Engineer, Designs (E&NE) along with other officials from Designs (E&NE), CWC on 20/12/2024.

#### **Development of SHAISYS 1.0**



A meeting was convened under the chairmanship of Sh. Bhopal Singh, Member (D&R), CWC at his chamber in Sewa Bhawan, New Delhi to discuss the way forward for logical conclusion of development of SHAISYS 1.0 on 31st December, 2024. The meeting was attended by a team of professors from IIT Roorkee including Dr. M.L. Sharma, Dr. N. K. Goel and Dr. B. R. K. Pillai. Chief Engineer, DSO and Director FE&SA directorate also attended the meeting along with officials of FE&SA directorate.

Several issues in Seismic Hazard Assessment Information System 1.0 (SHAISYS) webtool were discussed deliberately along with their timelines for completion so as to arrive at a decision towards logical conclusion of development of SHAISYS tool.

#### **Forthcoming censuses under Irrigation Census Scheme**

A review meeting to assess the progress of the forthcoming censuses under the "Irrigation Census" scheme was held on December 9, 2024, under the chairmanship of the Secretary, Department of Water Resources, RD & GR, with participation from officers of MI (Stat.) Wing, NIC, NIH, and CWC.

The meeting focused on key action points, including addressing discrepancies in LGD Villages, integrating LGD-coded Village/Urban Ward Maps into the Web module, and establishing an API linkage with the Ministry of Panchayati Raj. Designated master trainers at various levels will receive structured training sessions to ensure seamless implementation. The digital platform for the census will be named 'Water Resources Census,' with provisions for a Hindi version and additional language translations.

## Other Important Activities

To facilitate smooth operations, a state-wise help desk will be established, with central nodal officers assigned for coordination. Extensive outreach efforts, including social media campaigns, will be undertaken, and the fieldwork is expected to be launched by the Hon'ble Minister of Jal Shakti. A ranking framework will be introduced to assess State/UT preparedness. Additionally, Basin/Sub-basin data will be integrated post-census, and the terminology 'Pisiculture' will be updated to 'Pisiculture/Fisheries.' Feedback from the User Acceptance Test (UAT) will be critically evaluated for potential enhancements, and a demonstration of the mobile app for Springs will be scheduled accordingly.

The meeting marked a significant milestone in advancing the execution of the Irrigation Census, ensuring comprehensive planning and implementation.

### **First Meeting of National Task Force for Integrated Water Resources Development & Management (NTFIWRDM)**



The first meeting of the National Task Force for Integrated Water Resources Development & Management (NTFIWRDM) was held on 21st January 2025 at Sewa Bhawan, Central Water Commission, New Delhi under the esteemed chairmanship of Prof. Ramesh Chand, Member, NITI Aayog. With formal inauguration of the Task Force, the meeting witnessed enriched deliberations on the Terms of Reference, Organizational Setup and various proposed

activities of the National Task Force. The meeting was also graced with the eminent presence of Chairman (CWC), Additional Secretary DoWR, RD & GR, Chairman (CGWB), Director General (NWDA), and other senior officers and experts from allied Ministries & Organizations. Basin Planning and Management Organization, CWC, is the Secretariat of the Task Force.

### **Meeting regarding important Issues/matters of D&R Wing**



A meeting was held on January 28, 2025, under the chairmanship of the Chairman of CWC, with the Member (D&R) and other senior officers from the D&R wing to discuss important activities, matters, and issues related to the D&R wing, as well as to review the status of ongoing projects. Member (D&R) highlighted the activities of each organization in the D&R wing, outlining their involvement in designing various projects that are currently in the design stage, projects under active construction, and the examination of Detailed Project Reports (DPRs). A presentation was delivered by the Director (D&R) (C) Dte., where he provided an overview of key projects, including Punatsangchhu-I & II, Lakhwar MPP, Renukaji MPP, and Polavaram Projects. He explained that the design and consultancy process involves layout finalization and interaction with the CEA, Project Developers, and Stakeholders, particularly during the pre-DPR stages. He also flagged various challenges, including the complexity of hydrology in off-stream projects and difficulties in underground construction.

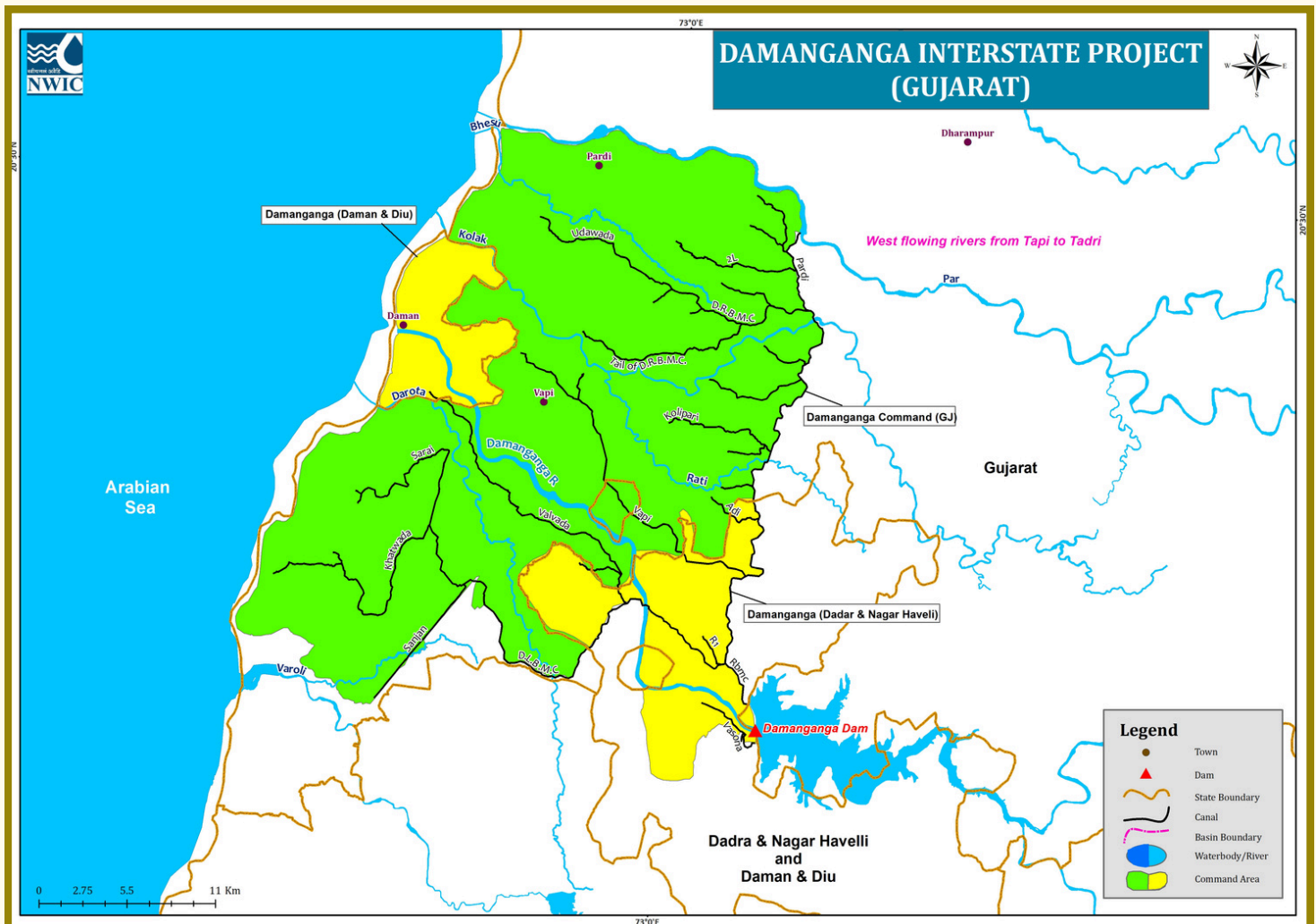


## Other Important Activities

### Meeting regarding important Issues/matters of WP&P Wing

A meeting was held on 24.01.2025 at the Conference Room, 2nd Floor, Sewa Bhawan, New Delhi, to discuss "Important issues/matters being handled in WP&P Wing" under the chairmanship of the Chairman, CWC, with all the Chief Engineers of the WP&P Wing. The important works being handled by different organizations under the WP&P Wing were discussed in detail.

During the meeting, emphasis was laid on streamlining ongoing projects and addressing key challenges. Actionable points were identified, and responsibilities were assigned to ensure continuous progress and effective monitoring of the works under the WP&P Wing.

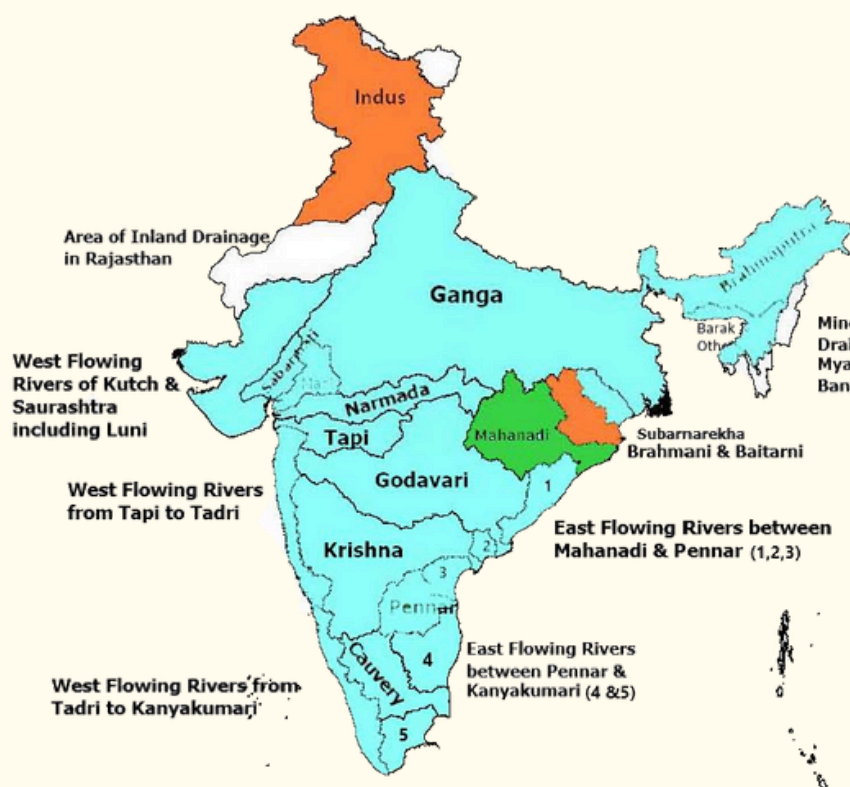
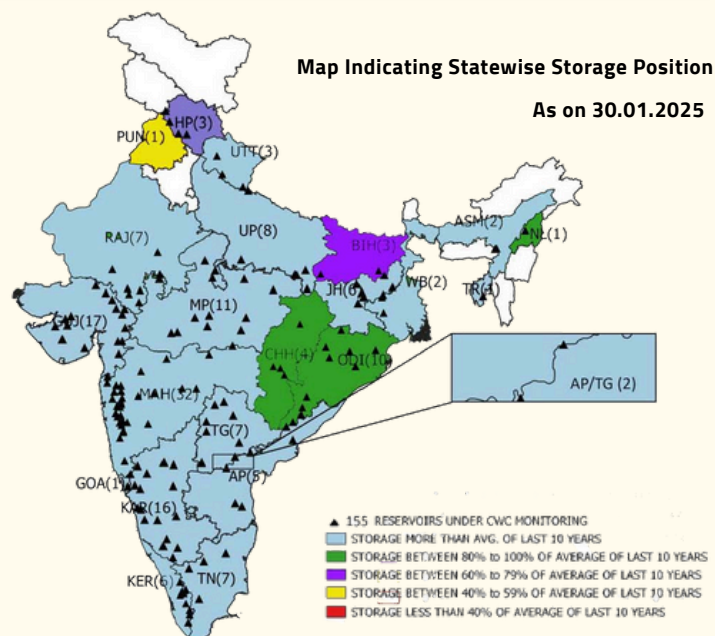
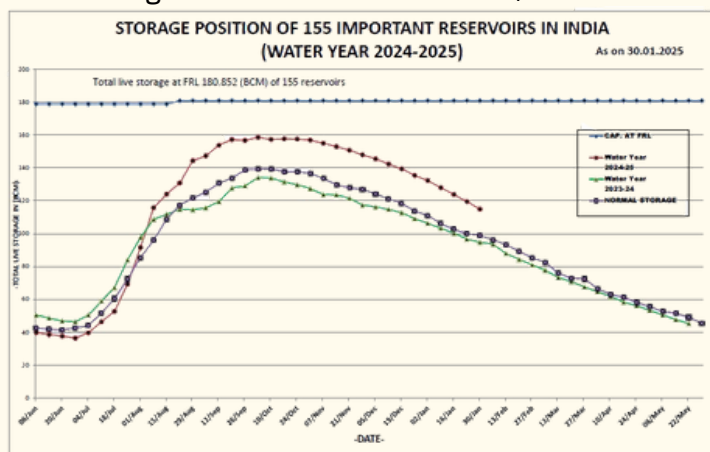
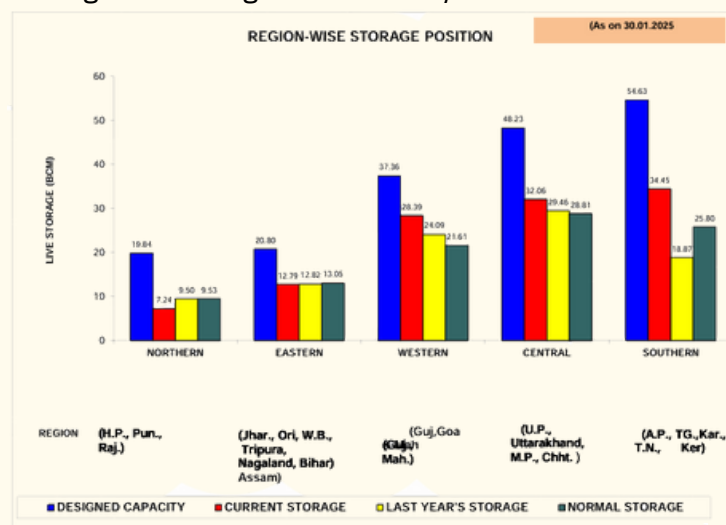


# Reservoir Monitoring

Central Water Commission is monitoring live storage status of 155 reservoirs of the country 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 155 reservoirs is 180.852 BCM which is about 70.15% 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 30.01.2025, live storage available in these reservoirs is 114.914 BCM, which is 64% of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was 94.739 BCM and average of last 10 years live storage was 98.786 BCM. Thus, the live

storage available in 155 reservoirs as per 30.01.2025 Bulletin is 121% of the live storage of corresponding period of last year and 116% of storage of average of last ten years.





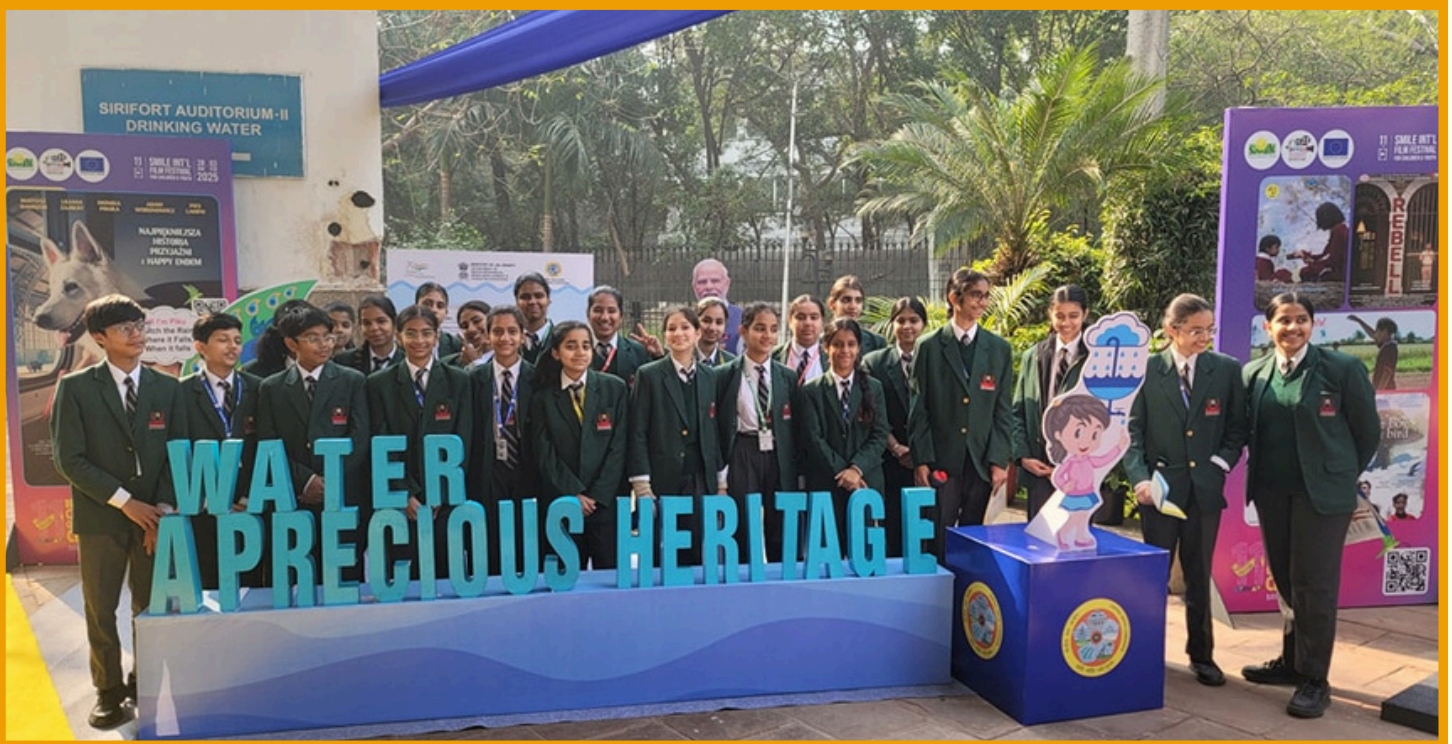
## Gallery



A meeting related to the NE proceedings for IWT issues was held under the chairmanship of Member(D&R), CWC on 28th January 2025 in his chamber. Construction schedule and discussion on drawings shared with the Neutral Expert has been finalized.



Member(D&R), CWC reviewed the status of work in Hydrological Studies Organization on 22 January 2025. Chief Engineer, HSO and directors of concerned directorates explained the status of consultancy projects and the issues in pending projects.



Smile International Film Festival for children and youth (SIFFCY) was participated by the Central Water Commission on behalf of DoWR, MoJS from 28-30 January 2025. Many short films and documentaries of MoJS were shown in the Cinema festival. "Yamuna Ki kahani" short animated movie of MoJS won Jury awards in the Documentary category.



# Republic Day 2025

## CWC Head Quarter, New Delhi



## National Water Academy (NWA), CWC, Pune



### Central Water Commission

An attached office of Dept. of Water Resources,  
River Development and Ganga Rejuvenation,  
Ministry of Jal Shakti, Govt. of India

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