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Chairman Message



Shri Atul Jain
Chairman, CWC

The July 2025 edition of Jalansh, which encapsulates the Commission's sustained efforts in advancing the nation's water resources agenda through strategic planning, project appraisals, technical collaborations, and capacity building.

During this period, the Central Water Commission convened and participated in several important meetings on projects of national significance.

A review of the Preliminary Feasibility Report for the Second Ravi–Beas Link National Project was held, wherein critical design and alignment issues were deliberated with representatives from the Government of Punjab, Defence authorities, and other stakeholders. The consensus on a dual-purpose canal serving both irrigation and defence needs marks a significant step forward in balancing national priorities.

Our commitment to technological advancements was reflected in the in-house training on Flood Forecasting using AI/ML Techniques, equipping our officers with cutting-edge tools to enhance forecasting accuracy. Simultaneously, site visits and expert reviews at projects such as Subansiri Lower HEP, Tehri Dam, Kuttiyadi Dam, and proposed storage dams in Himachal Pradesh provided valuable technical insights into safety evaluations, structural stability, and long-term sustainability.

The second Executive Committee Meeting of ICED was convened, emphasizing research, training, and international collaboration, including preparations for the International Conference on Dam Safety later this year.

Flood preparedness remained a key priority. Over 850 forecasts were issued with more than 94% accuracy in May–June 2025. The unified portal for inundation forecasting, developed with C-DAC, was reviewed for refinement to ensure accessibility and last-mile delivery. High-level discussions were also held on integrated reservoir operation, GLOF risk assessment, and inter-state flood management challenges.

On the inter-state front, the Commission facilitated the first meeting to address water distribution under the Bansagar Agreement between Bihar and Jharkhand, marking progress towards resolution of long-standing issues. Additionally, meetings of the Betwa River Board and Bansagar Control Board underlined our role in strengthening institutional frameworks for joint management of shared water resources.

Collaborative initiatives continued with the signing of an MoU between CWC and KBLPA for design review consultancy on the Ken–Betwa Link Project. The Commission also explored innovative desiltation technologies through technical presentations, broadening the scope of sustainable dam and reservoir management.

With our collective commitment to innovation, collaboration, and resilience, I am confident that the Commission will continue to serve as a cornerstone of water governance and national development.

Meetings Regarding Projects

Second Ravi-Beas Link National Project



A meeting on the progress of the Preliminary Feasibility Report (PFR) of the Second Ravi-Beas Link National Project was held at CWC HQ, New Delhi on 09.06.2025 under the Chairmanship of the Chairman, CWC. Senior officers from Central Water Commission; DoWR, RD & GR; Department of Water Resources, Government of Punjab; Directorate General of Military Operations (DGMO) and National Security Council Secretariat (NSCS) attended the meeting. The project aims to tap waters of rivers Ujh and Ravi—currently flowing to Pakistan—for irrigation, drinking water supply, and groundwater recharge. Two options were discussed, Option -A (For Irrigation purposes) and Option B (dual-purpose canal for irrigation and defence). Option B (dual-purpose canal for irrigation and defence) was preferred, as it meets both agricultural and strategic requirements of the Army. The Chairman, CWC emphasized the need to resolve design issues regarding the proposed barrage near Makora Pattan and directed the WRD, Punjab and CWC's design units to explore alternate sites in coordination with Defence authorities.

Training/Workshop/Conference

In-house Training Program of CWC on Water Level (Flood) Forecasting using AI/ML Techniques

A two-day (04-Jun-2025 to 05-Jun-2025) in-house training session on "Water Level (Flood) Forecasting using AI/ML Techniques" was organized by the Smart Water Resources Modelling Organization (SWRMO), CWC at Khosla Hall, New Library Building. The training was inaugurated by Member (RM), CWC, Shri Anupam Prasad.

The training aimed to introduce advanced Artificial Intelligence and Machine Learning (AI/ML) methods, such as Long Short-Term Memory (LSTM) networks, to develop models and enhance the accuracy of flood forecasting. Presently, CWC employs gauge-to-gauge correlation methods for issuing water level (flood) forecasts. This training initiative marks a step forward in leveraging state-of-the-art AI/ML tools and techniques to improve the precision and reliability of flood forecasts at specific Flood Forecasting Stations developed in-house by SWRMO, CWC.







Training Organised by NWA, Pune

Sl No.	Name of Training	Durations (Week)	Date	No. of participants	Objective
1	Design Flood Analysis	0.8 Weeks	03-06 June 2025	27	The objective of this program was to equip dam safety professionals with specialized knowledge and practical skills in Design Flood Analysis. The program thus strengthened institutional capacity for safer dam operations and improved flood risk management in line with national regulations and international best practices.
2	Dam Break Analysis	0.8 Weeks	09-12 June 2025	37	The objective of the training program was to build the technical capacity of participants in Dam Break Analysis (DBA) using modern computational tools and simulation techniques.
3	Evapotranspiration based Irrigation Performance Assessment Tool	0.8	10-13 June 2025	16	The program was designed to enhance the technical capacity of officers from State Water Resource Departments and Central Agencies by providing hands-on exposure to the use of geospatial evapotranspiration (ET) datasets and the ET-based tools EQIPA and EDIPA.
4	Faculty Development Program (Capacity Building and Professional Development of Trainers)	1 Week	16-20 June 2025	21	The program primarily benefited Training Managers, Training Administrators, Faculty Members engaged in capacity building, Trainers seeking to enhance their interactive skills, and Managers aspiring to take on a trainer's role from Central/State Training Institutes, WALMIs, IMTIs, and Engineering Research Institutes.
5	Introduction to Google Earth Engine and its Application in Water Resources Management	1 Week	23-27 June 2025	70	The program aimed to build the capacity of water resources professionals in using Google Earth Engine by equipping them with the skills to process and analyze geospatial data, and apply the platform for practical applications such as waterbody mapping, reservoir sedimentation monitoring, land cover classification, crop mapping, river morphology studies, snow and glacier mapping, soil loss analysis, and flood and drought assessment.
6	Artificial Intelligence and Machine Learning for CWPRS Officers	1 Week	30 June – 04 Jul 25	28	The program addressed the emerging applications of Artificial Intelligence (AI) and Machine Learning (ML) in the water resources sector, with a focus on enhancing efficiency, reliability, and sustainability of management practices.

Visit of sites/projects

Field Visit and 3rd meeting for "Assessment and Execution of small storage Dams/Reservoirs





Field Visit and 3rd meeting for "Assessment and Execution of small storage Dams/Reservoirs on Sirsa and Swan Rivers and construction of Chaki Khad Dam in Himachal Pradesh" Was held under the chairmanship Member (D&R), CWC on 27-28 June 2025 at Una, Himachal Pradesh. Shri Vivek Tripathi, Chief Engineer, Design (N&W) and Shri Somesh Kumar, Director, Emb(N&W) attended this meeting.

Visit of Expert Group on Subansiri Lower HEP



Sh. Narendra Singh Shekhawat, Director, CWC as a Member of the Expert Group constituted by the Ministry of Power (MoP), visited the Subansiri Lower Hydroelectric Project between 2nd and 5th June 2025 to assess the ground situation of Subansiri Lower HEP in light of Expert Group Report submitted in Nov 2024. The visit was conducted under the chairmanship of the Member (Hydro), Central Electricity Authority (CEA) and included members from the Geological Survey of India (GSI) and the National Institute of Rock Mechanics (NIRM) besides CWC. After visit, views of CWC on the 3rd visit of Expert Group have been conveyed to CEA on 16.06.2025.

Visit of IPoE to Tehri Dam in respect of Comprehensive Dam Safety Evaluation (CDSE)



Sh. Somesh Kumar, Director and Sh. Amir Suhail, Dy. Director, Embankment (N&W) visited Tehri Dam from 17-18th June 2025 as an expert to advise Independent Panel of Experts (IPoE) constituted by THDCIL for carrying out Comprehensive Dam Safety Evaluation as per mandate of National Dam Safety Act, 2021. The team inspected intake platform of water conductor system of both HEP & PSP, ungated and gated shaft spillways at right and left bank respectively, aerator chambers provided in the chute spillway, intermediate level outlet, galleries in abutments & inside the core of dam and TRT gate. Further, a concluding meeting was held in the evening of 18th June 2025 under the Chairmanship of Sh. A.B. Pandya (Ex-Chairman, CWC and Chairman of IPoE for Tehri Dam) to discuss the issues observed during the inspection and to decide further course of action.

Visit of sites/projects

Site visit to Kuttiyadi dam under Kerala Water Resource Department and Kerala Engineering and Research Institute, Peechi



Sh. Rakesh Kumar Gautam, Director, DSR/CPMU; Sh. Anuj Pant, Assistant Director, DSR; and Ms. Neeta Arora, Deputy Team Leader, EMC, visited the Kuttiyadi Dam and KERI, Peechi, during the period from 26th to 28th June in connection with the 'Stabilisation of Kuttiyadi Dam by Providing Supporting Concrete Structure.' The team also visited the Kerala Engineering Research Institute (KERI), Kerala, for discussions and review of the hydrological and structural modelling aspects of the project.

DRIP/NDSA

2nd Executive Committee Meeting of the ICED

A meeting chaired by Prof. Govindan Rangarajan, Director IISc, and co-chaired by Shri Bhopal Singh, Member (D&R), CWC, was held on 25th June 2025 to review the progress and planning under the ICED-DRIP project. Key discussions included the utilization of funds sanctioned in the first year, delays in procurement, and the work plan for the second year, with a request to release the next tranche of funds. The ongoing M.Tech program in Dam Engineering, including its low intake and suggestions for improvement, was reviewed. The induction of Dr. Keshav Bharadwaj as a new PI was approved following the upcoming superannuation of Dr. Nanjunda Rao. Emphasis was placed on domain-specific training through NPTEL, upcoming workshops, and capacity building. It was also agreed in principle to collaborate with IISc for organizing an International Conference on Dam Safety in November 2025. Faculty members presented their ongoing research and plans, and the meeting concluded with a vote of thanks to the Chair.



THE PROBLEM OF FLOODS in India is an age-old one. In many river valleys unusual floods have occurred from time to time, causing considerable damage to life and property. Advance notice of floods obviates flood damage and suffering to a great extent. The Flood Fore-casting Unit set up in the Central Water and Power Commission (now CWC) in 1958 for forecasting floods in the Yamuna at Delhi is the first of its kind in India. Similar units for other basins are being considered from the experience gained by the Delhi Unit. Picture shows the Yamuna in very high floods in 1956 at the Delhi Railway Bridge.

Other Important Activities

I. Flood related matters

3rd meeting to review strategy and roadmap for implementation of Flood Inundation Mapping and Integrated Reservoir Operation

A meeting to review the strategy and roadmap for the implementation of Flood Inundation Mapping (FIM) and Integrated Reservoir Operation was held under the Chairpersonship of the Secretary, Department of Water Resources, River Development & Ganga Rejuvenation (DoWR, RD & GR) on 06.06.2025. Senior officials from CWC attended the meeting.

The status of making the unified portal for dissemination of inundation forecasting live was reviewed. CWC was directed to prepare a detailed five-year strategic plan, with clear prioritization of river basins. The progress on integrating inundation forecasts of other river basins into the unified portal, as well as the scaling up of Flood Inundation Mapping to additional basins, was also reviewed.

Secretary emphasized the critical importance of timely capacity building, particularly at the district and community levels, to ensure effective last-mile preparedness and response. Accordingly, directions were given to organize focused training programs, in coordination with the NWA for the basin states where the FIM system is being rolled out.

Review of Unified Flood Inundation Model Dissemination Portal developed by C-DAC

A meeting to review the status of the Unified Portal for Dissemination of Inundation Forecasting was held under the Chairmanship of the Chairman, CWC on 30.06.2025. Officials from the FM Wing (DoWR, RD & GR), FMO, FCA-1/2, and the Training Directorate attended the meeting.

Chairman (CWC) reviewed the overall status of the unified portal, including the integration of data from other river basins. Suggestions were provided to enhance user-friendliness and effectiveness for the end users, which were directed to C-DAC for incorporation into the next version of the portal.

Review of Flood Preparedness in the country

Chairman, CWC gave presentation on the flood preparedness in the country. Following directions were issued by Hon'ble Minister: -

All central agencies should work together to give forecasts on expected flood areas in the upcoming monsoon period. This assessment is to be shared with the NDMA and NDRF, who will work with the states to take necessary preventive measures.

CWC will study and classify GLOF sites based on the carrying capacity of the river to ascertain what percentage of glacial lakes are likely to pose a serious hazard.

The Ministry of Jal Shakti will develop a roadmap for dredging/desilting dams.

On reservoir operation, as soon as a certain level of the dam is reached, the matter should also be taken up at the political level, so that flood risk is not created by storing more than the rule curve.

Apart from dam-based solution to the problem of floods in Bihar and Uttar Pradesh due to rivers originating from Nepal, Solutions should be sought through inter-state river linking projects.

Flood Situation in the country - June 2025

Regular Flood Forecasting Activity commenced on 1st May 2025 in Brahmaputra and Barak and Jhelum basins. During the period from 1st May to 30th June 2025, Total 852 (499 level+353 Inflow) flood forecasts were issued, and 802 (478 Level+325 Inflow) forecasts were within permissible limit with a 94.13 % percent accuracy. 14 Red Bulletin (for Extreme flood situation) was issued. 96 no. of Orange Bulletin (for severe flood situation) were issued during the month of June 2025 from Central Flood Control Room.

Other Important Activities

Summary of Flood Situation during 01.05.2025 to 30.06.2025

Extreme Flood Situation:

1 FF station observed in Extreme Flood Situation.

Sl No.	State	District	River	Station	Period	
					From	To
1	Assam	Hailakandi	Katakhal	Matizuri	02/06/25 1000	03/06/25 1800

1 Monitoring station, observed in Extreme flood Situation.

Severe Flood Situation:

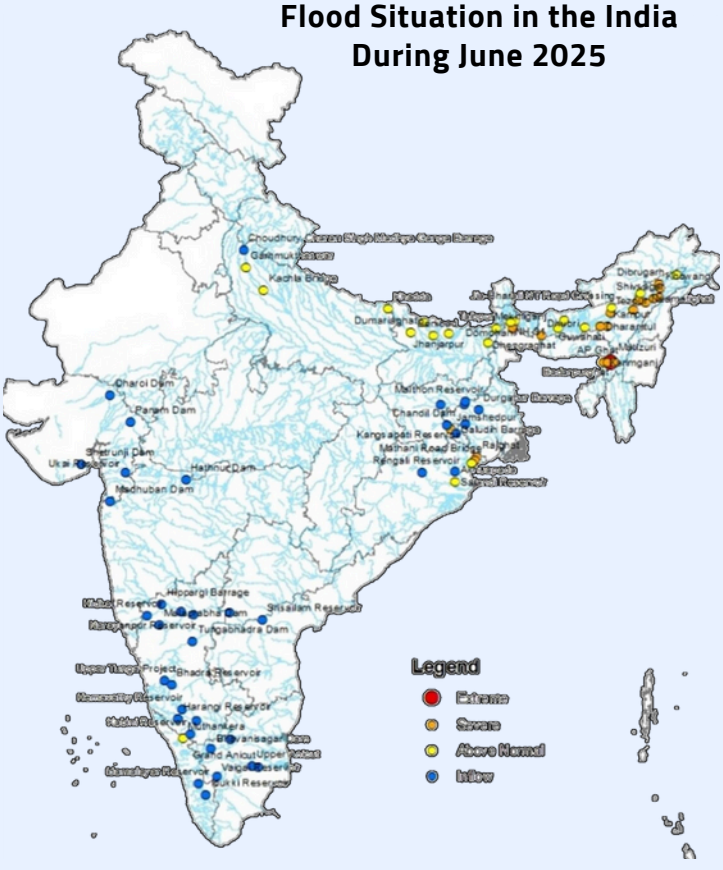
Water level was observed in Severe Flood for 18 FF Station in Assam, Jharkhand, Odisha and West Bengal.

Water level was observed in Severe Flood for 23 monitoring stations in Assam, Bihar, Jharkhand, Karnataka, Kerala, Manipur, Maharashtra, Odisha, Tripura and Uttarakhand.

Above Normal Flood Situation:

Water level was observed in Above Normal Flood for 22 FF Stations in Assam, West Bengal and Kerala.

Flood Situation in the India During June 2025



Reservoirs having Inflow above threshold limit:

37 reservoir received inflows above its threshold limit in Andhra Pradesh, Gujarat, Jharkhand, Karnataka, Kerala, Maharashtra, Odisha, Tamilnadu, Telangana, Uttar Pradesh and West Bengal.

II. Inter-State Disputes

1st meeting of the Committee to resolve issue of distribution of water between Bihar and Jharkhand under the Bansagar Agreement, 1973

1st meeting of the Committee to resolve issue of distribution of 7.75 MAF of water between Bihar and Jharkhand under the Bansagar Agreement, 1973 was held on 11.06.2025 at CWC, under the chairmanship of Sh. Atul Jain, Chairman CWC and Chairman of the Committee.

Member Secretary Sh. B.P. Pandey, CE-IMO, through presentation informed that both States were requested to provide quantum of utilisation of existing/ongoing projects considered for allocation of 7.75MAF of Sone water to the erstwhile State of Bihar in 1973 and to provide agreements between Jharkhand and Bihar regarding utilisation of water of Sone main stream and its tributaries after the year 2000.



After detailed deliberations, it was decided that both States would provide project wise breakup of 7.75 MAF for existing, ongoing and proposed project in erstwhile Bihar on the basis of pre-1973 projects & Govt. of Jharkhand will provide details of existing and ongoing utilisations pre and post year 2000 based on actual diversions.

It was also decided that Secretariat of the Committee would prepare a draft report of the Committee based on aforesaid inputs and circulate to both States for comments and views of both States and for finalization in next meeting of the Committee.

III. Other Activities

Presentation on deep dredging Technology/ Mythology -desilting of dams

A presentation on Deep Dredging Methodology/Technology for Desiltation of Dams was given by the Managing Director of M/s BASMNI Technologies Pvt. Ltd. before the Member (D&R), CWC, and other officials of CWC on 16.06.2025. The presentation focused on deep dredging technologies adopted by the company for the desiltation of dams, outlining the respective advantages and limitations. It also featured case studies demonstrating the successful application of these techniques in various dams across India.

MoU between CWC and KBLPA



MoU between CWC and KBLPA on providing design review consultancy to KBLPA by CWC for review Design Consultancy of Phase I of Ken-Betwa Link Project on 12.06.2025. Competent authority of KBLPA has accepted the terms and conditions and empowered the designated officer to enter into MoU with the CWC.

Betwa River Board



Ninety-fourth (94th) meeting of the Executive Committee of Betwa River Board (BRB) was held in hybrid mode on 10.06.2025 in the Committee Room of CWC at New Delhi under the chairmanship of Shri Atul Jain, Chairman, Central Water Commission & Ex-Officio Secretary to the GoI and Chairman, Executive Committee of Betwa River Board. The meeting was attended by Officials from DoWR, RD & GR, Chief Engineer (BRB), Secretary (BRB) and officials from Govt. of UP & Govt. of MP.

Various agenda points related to Dam Safety Act requirements for Rajghat Dam, Water Charges from MPPGCL, shortage of staff in the Betwa River Board, budge contribution from party states and expenditure, installation of Solar Powerhouse in Rajghat Dam reservoir and Functional Arrangement of Betwa river Board in future were deliberated upon.

Bansagar Control Board

The Seventy Eighth (78th) meeting of the Executive Committee of Bansagar Control Board was held in hybrid mode on 10.06.2025 under the Chairmanship of Shri Atul Jain, Chairman, Central Water Commission and Ex-Officio Secretary to the Govt. of India and Chairman, Executive Committee of Bansagar Control Board. The meeting was attended by Officials from DoWR, RD & GR, Secretary (BCB) and officials from Govt. of UP, Govt. of Bihar & Govt. of MP.

Various agenda points related to catchment area treatment (CAT) plan of Bansagar dam, water releases from reservoir and Functional Arrangement of Bansagar Control Board in future were discussed. Committee decided that a proposal will be prepared from BCB regarding future functional arrangement of BCB wherein GoMP will be responsible for the dam and a regulation committee headed by Chief Engineers from states on a rotation basis will be constituted for regulation of reservoir. O&M cost will be shared among the states as in present setup.



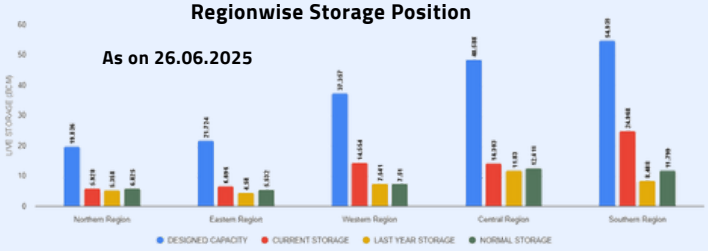
Reservoir Monitoring

Central Water Commission is monitoring live storage status of 161 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 161 reservoirs is 182.444 BCM which is about 70.77% 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 26.06.2025, live storage available in these reservoirs is 66.449 BCM, which is 36.42% of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was 37.797 BCM and average of last 10 years live storage was 43.477 BCM. Thus, the live storage available in 161 reservoirs as per 26.06.2025 Bulletin is 175.81% of the live storage of corresponding period of last year and 152.84% of storage of average of last 10 years.

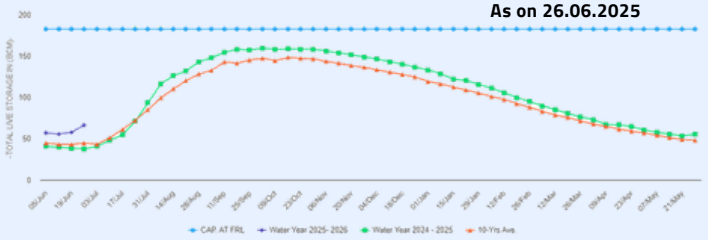
Regionwise Storage Position

As on 26.06.2025



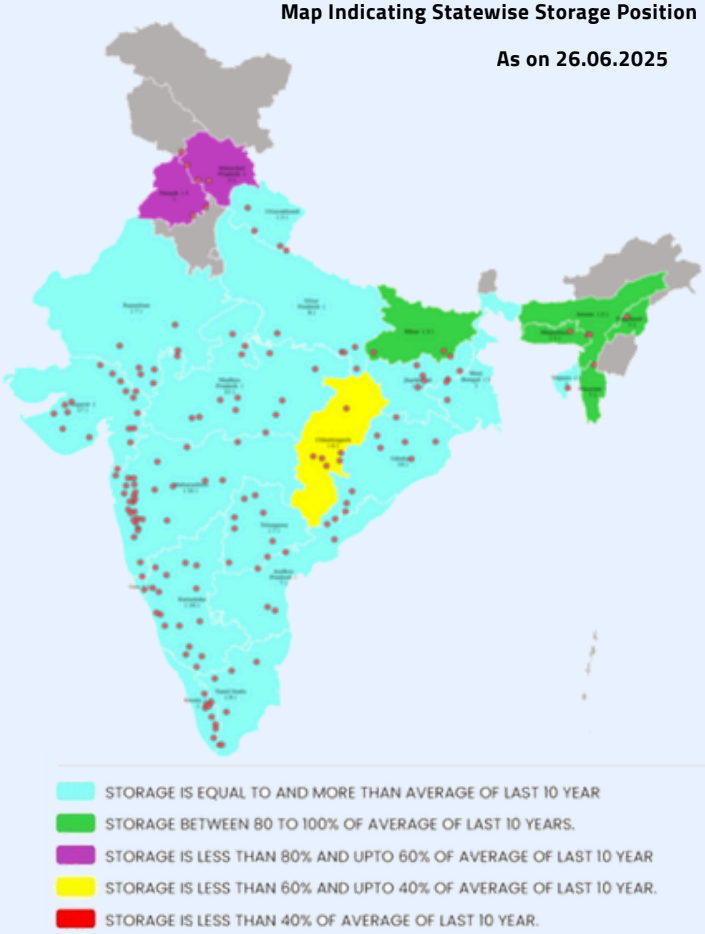
STORAGE POSITION OF 161 IMPORTANT RESERVOIRS IN INDIA
(Water Year 2024 - 2025)

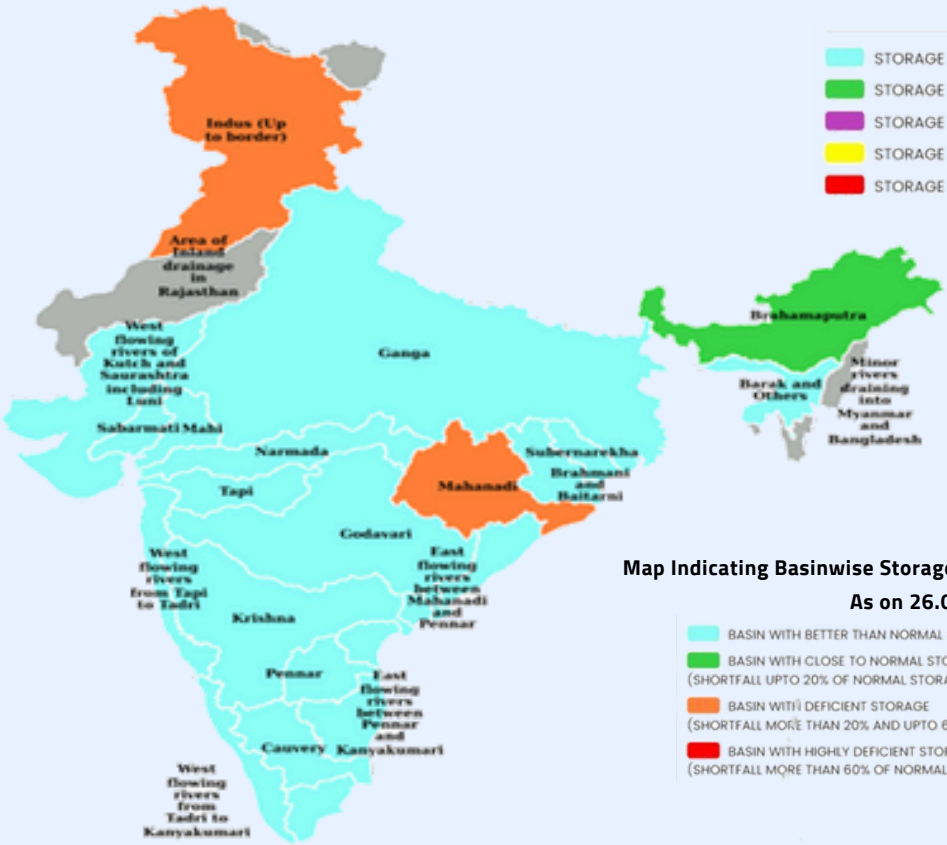
As on 26.06.2025



Map Indicating Statewise Storage Position

As on 26.06.2025





Map Indicating Basinwise Storage Position

As on 26.06.2025

Gallery



2nd Meeting of the Joint Committee for Assessment and Execution of Small Storage Dams/Reservoirs on Sirsa and Swan Rivers and Construction of Chaki Khad Dam in Himachal Pradesh at Conference Room, 2nd Floor, CWC held on 09.06.2025.

International Day of Yoga



CWC, HQ, New Delhi



MONITORING CENTRAL ORGANISATION



MAHI & TAPI BASIN ORGANISTAION



INDUS BASIN ORGANISATION



MAHANADI & EASTERN RIVER ORGANISATION



NARMADA BASIN ORGANISATION



UPPER GANGA BASIN ORGANISATION

Central Water Commission
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