

# JALANSH

THE MONTHLY NEWSLETTER OF CENTRAL WATER COMMISSION

## NO.2



SEPTEMBER 2024  
VOLUME-07

### ‘FloodWatch India’ App

#### ANDROID DOWNLOAD LINK-

<https://play.google.com/store/apps/details?id=in.gov.affcwc>

#### IOS DOWNLOAD LINK-

<https://play.google.com/store/apps/details?id=in.gov.affcwc>

### PUBLICATION

#### REPORT ON FLOOD DAMAGE STATISTICS

<https://cwc.gov.in/sites/default/files/report-flood-damage-statistics.pdf>

### RESERVOIR MONITORING

#### FIVE MORE RESERVOIRS ADDED IN THE MONTH

<https://cwc.gov.in/en/reservoir-level-storage-bulletin>





Bank revetment using geo bags at Rohmaria, Assam

# CONTENTS

## PAGE 1

### MEETING REGARDING PROJECTS:

Polavaram Irrigation Project, Andhra Pradesh  
Lakhwar Multipurpose project, Uttarakhand  
North Koel Project, Bihar & Jharkhand

---

## PAGE 2

### TRAINING/WORKSHOP/CONFERENCE:

Training programme organised by  
NWA, Pune

---

## PAGE 3

### VISIT OF SITES/PROJECTS:

138 SMI schemes of Kalaburagi & Yadgir  
Districts of Karnataka  
Upper Tunga Project, Andhra Pradesh

---

## PAGE 4

### OTHER IMPORTANT ACTIVITIES:

Flood Situation in the Country-  
August 2024  
Joint Flood Management Study

## PAGE 5

### OTHER IMPORTANT ACTIVITIES:

Negotiation committee on Pennaiyar River  
Water Dispute  
Launch of "FloodWatch India 2.0" app

---

## PAGE 6

### OTHER IMPORTANT ACTIVITIES:

Stalemate in the Satluj-Yamuna Link Canal  
and Alternative Solutions  
Utilization of RISAT-1A, RISAT-1B  
RESOURCESAT-3A and RESOURCESAT-3SA  
Data in WaterResources  
Interactive Session with Directors  
of CWC

---

## PAGE 7

### OTHER IMPORTANT ACTIVITIES:

Technical Advisory Committee (TAC) of the  
National Institute of Hydrology  
State level Interaction Meeting

---

## PAGE 8

### OTHER IMPORTANT ACTIVITIES:

Publication of Report on Flood Damage Statistics

## Chairman Message



**Shri Kushvinder Vohra**  
**Chairman, CWC**

On this Independence Day, I extend my heartfelt wishes to all fellow countrymen. As we celebrate the spirit of freedom, let us renew our dedication to the sustainable management of our water resources, which remains crucial for the prosperity and future of our nation. I wish everyone a joyous and meaningful Independence Day!

This month, we marked a significant milestone with the launch of “FloodWatch India” Version 2.0 by the Honorable Union Minister for Jal Shakti, Shri C.R. Patil. The updated mobile application, developed in-house by the Central Water Commission (CWC), builds upon the success of the first version, launched on 17th August 2023.

The app now covers an additional 392 flood monitoring stations, bringing the total to 592, thus providing users with a comprehensive and real-time overview of flood conditions across the country. Additionally, it now includes crucial data on the storage status of 150 major reservoirs, helping citizens better understand potential flood risks in downstream areas.

The Department of Water Resources, RD&GR (Ministry of Jal Shakti), has signed an agreement with the Department of Space to utilize satellite data from RISAT-1A, RISAT-1B, RESOURCESAT-3A, and RESOURCESAT-3SA for water resource management. Following this, the CWC has formed three dedicated working groups to leverage satellite data in various domains. Under my chairmanship, a review meeting was held to assess the progress in utilizing this valuable data for better water management.

The Sixth and Seventh meetings of the Negotiation Committee on the Pennaiyar River Water Dispute were held, involving representatives from Karnataka, Tamil Nadu, Andhra Pradesh, the Union Territory of Puducherry, CGWB, NIH Roorkee, and other officials from CWC. These deliberations are essential steps toward resolving long-standing water disputes and ensuring equitable water distribution.

I held an interactive session with Principle Secretary of I&WRD, Government of Uttar Pradesh and other officers, where we discussed several key projects being implemented under the PMKSY-AIBP. Emphasis was placed on the timely preparation of Emergency Action Plans for dams, in line with the stipulated guidelines.

I am also pleased to announce the release of the “Report on Flood Damage Statistics”, which compiles over 70 years of data on flood damage from 36 States/UTs, covering the period from 1953 to 2022. This report offers a comprehensive analysis of flood trends and the economic impacts of flood-related damages, enabling informed decision-making for future flood management schemes. More insightful publications, such as the Sub-Basin Assessment Report, Flood Damage Report, are set to be released in the coming months.

As this is my final message as Chairman of the CWC, I want to extend my gratitude to the incredible team and stakeholders who have contributed to our collective achievements. I leave this position with confidence in CWC’s bright future and a deep appreciation for the work we have accomplished together. I wish my successor all the best and convey my heartfelt wishes for a prosperous and thriving future for every citizen.



## Meetings Regarding Projects

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



The fourth meeting in a series of meetings held to discuss the technical issues in respect of Polavaram Irrigation Project, Andhra Pradesh with the concerned states i.e. Andhra Pradesh, Chhattisgarh, Odisha and Telangana in pursuance of Hon'ble Supreme Court's directions dated 06.09.2022 was held under the chairmanship of Shri Kushvinder Vohra, Chairman, CWC & Ex-Officio Secretary to Government of India on 28th August, 2024 at New Delhi.

The meeting was attended by senior officials of Central Water Commission, Polavaram Project Authority, senior technical officers of the concerned states. Detailed deliberations took place on a range of technical issues including design flood and submergence issues due to backwater effect of Polavaram Project. The meeting attempted to address the key concerns of the party States and to converge on a way forward.

The meeting was attended by Chief Engineer, Designs (NW&S) along with Deputy Directors, Emb. (NW&S), CWC.

### **Lakhwar Multipurpose project, Uttarakhand**

A review meeting among the officials of CWC, UJVNL and L&T was held under the Chairmanship of Member, D&R on 30.08.2024 at CWC Headquarter, New Delhi regarding Lakhwar Multi-Purpose Project which is being constructed

on the Yamuna River in Dehradun district of Uttarakhand in which 204m high dam is to be built. Construction of this project is being done by UJVNL. MoU was signed with Central Water Commission to provide design consultancy. During the meeting, shear zone treatment methodology submitted by UJVNL, excavation/stripping of dam foundation/abutments drawings, TOR of 3-D dynamic analysis, upstream cofferdam, diversion tunnel, inlet portal and outlet portal, newly issued alternatives drawings of the power intake location and water conductor system, aspects related to powerhouse complex and tail race system issues were discussed.

### **38th meeting of TEC for completing the balance works of North Koel Project, Bihar & Jharkhand**

The 38th meeting of the Technical Evaluation Committee (TEC) for completing the balance works of North Koel Reservoir Project (NKP) was held on 13.08.2024 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 were discussion on important agenda items such as status of land acquisition by WRD Bihar/Jharkhand, 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 109.09 Km), Status of Tender for the work of "Earthwork, Repair, & Construction of Distribution Network (12 Nos. Minors) of Right Main Canal, Jharkhand, Status of Tender for the work of the construction of distribution system off taking from RMC in Bihar, Status of Shifting of electric poles from RMC etc.



# Training/Workshop/Conference

## Training Programs organized by NWA, Pune

SI No.	Name of Training	Durations	No. of participants	Objective
1	Overview of Water Resources Sector in India	One Week	26	For Non-Technical Officers of DoWR, RD&GR and CWC
2	Assessment of Structural Safety of Existing Dams	Two Weeks	25	For the officers from State Govts/ PSUs and officials who are involved in comprehensive dam safety evaluation and related activities.
3	Overview of Water Resources Sector in India	One Week	22	For NGOs, Media Professionals and Civil Society representatives.
4	Introduction to Google Earth Engine & Applications in Water Resources Management	Two Week	55	Under National Hydrology Project





## Visit of sites/projects

### 138 SMI schemes of Kalaburagi & Yadgir Districts of Karnataka

15 SMI schemes under PMKSY-HKKP of 4 taluks viz Kalagi, Kamalapur, Afzalpur & Sedam taluk of Kalaburagi district and 2 taluks viz Gurmitkal & Wadegera taluks of Yadgir district were visited for monitoring on 27.08.2024 and 28.08.2024 by Sh Ashok Kumar V, Director, Sh Arun Kumar, DD & Sh Sundara P, AD, Appraisal Dte, MSO, CWC, Bengaluru accompanied by EE, AEE and concerned officials of MI department, Govt of Karnataka.



### Upper Tunga Project

The Upper Tunga Project (AIBP) has been visited from 30/07/2024 to 01/08/2024 by Dr. J Harsha, Director (Monitoring) and Sh. A Mani Maran, Deputy Director (Monitoring), MSO, CWC, Bengaluru.





## Other Important Activities

### I. Flood related matters

#### Flood Situation in the country - August 2024

Regular Flood Forecasting Activity commenced on 01.05.2023 in Brahmaputra and Barak and Jhelum basins. During the period from 1st May to 31st August 2024, Total 6752 (4971 level+1781 Inflow) flood forecasts were issued, and 6390 (4735 Level+1655 Inflow) forecasts were within permissible limit with a 94.63 % percent accuracy. 134 nos. of Red Bulletin (for Extreme flood situation) and 124 no. of Orange Bulletin (for severe flood situation) were issued during the month of August 2024 from Central Flood Control Room.

#### Summary of Flood Situation during 01.05.2024 to 31.08.2024

##### Extreme Flood Situation

Four 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

35 flood monitoring station observed Extreme flood situation.

##### Severe Flood Situation

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

102 monitoring station observed Severe Flood Situation in Assam, Bihar, Manipur , Kerala,

Karnataka, Tripura, Uttar Pradesh Uttarakhand, Maharashtra, Madhya Pradesh , Odisha, Gujarat, Goa, Tamilnadu, Jharkhand and Telangana.

##### Above Normal Flood Situation

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

##### Reservoirs having Inflow above threshold limit

68 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.



#### Joint Flood Management Study



Shri Kushvinder Vohra, Chairman, Central Water Commission & Ex-Officio Secretary to the Government of India held fourth meeting of the committee for joint flood management study in wake of the extensive floods in the States of Himachal Pradesh, Punjab and Uttarakhand in 2023 on 22nd August, 2024.

The meeting was attended by officials from CWC, DoWR, RD & GR, State of Himachal Pradesh,

## Other Important Activities

NWIC, SJVNL, HPPCL, SDMA of HP & Uttarakhand, Jal Shakti Vibhag of HP, etc.

At the outset of the meeting, Chairman, Central Water Commission, extended a warm welcome to the committee members. He informed that the draft report of the committee had been circulated well in advance of the meeting. Expressing his satisfaction with the committee's progress, the Chairman commended the team for

fulfilling the tasks outlined in the Terms of Reference (ToRs) of the committee.

During the deliberations of the meeting, the committee members reviewed the draft report in detail and discussed its contents thoroughly. Some suggestions were proposed to enhance the clarity of the report. After making some adjustments, the final version of the report was accepted unanimously by the committee members.

## II. Inter-State Disputes

### Negotiation Committee on Pennaiyar River Water Dispute



The sixth and seventh meetings of the Negotiation Committee on the Pennaiyar River Water Dispute were held on 8th and 29th August 2024, respectively, under the chairmanship of Shri Kushvinder Vohra, Chairman, CWC. Both meetings were attended by representatives from Karnataka, Tamil Nadu, Puducherry, Andhra Pradesh, NIH Roorkee, and key officials from the Central Water Commission. Key issues discussed included the applicability of the 1892 and 1933 agreements on the Pennaiyar River, projects raised by Tamil Nadu, groundwater conditions, and water quality. The need for additional data from Karnataka for the assessment of Virgin annual runoff was emphasized. During the seventh meeting, the Draft Report (Part-1) and Hydrological Studies were reviewed, and necessary modifications were agreed upon by all members. Karnataka and Tamil Nadu were given 10 days to submit their hydrological data to finalize the studies.

## III. Other Activities

### Launch of "FloodWatch India" 2.0 app

Shri C. R. Patil, Hon'ble Minister of Jal Shakti, Government of India launched 2nd version of "FloodWatch India" Mobile Application on 13.08.2024 in presence of Ms. Debashree Mukherjee Secretary, Department of Water Resources, River Development & Ganga Rejuvenation, Shri Kushvinder Vohra, Chairman, Central Water Commission (CWC) and other senior officials of the Ministry of Jal Shakti and CWC.

The earlier version provided information on flood forecasts at 200 level forecast stations. Version 2.0 of the app provides current information at additional 392 flood monitoring stations, taking up the total number of stations to 592.

The latest version also provides additional information regarding the storage positions of 150 major reservoirs in the country.



The user-friendly app presents all the information in English and Hindi and is available in readable and audio broadcast format. The app also provides flood forecast at nearest location where users can check the flood situation at the station nearest to them on the home page itself. The 'FloodWatch India' app is available for



## Other Important Activities

download on both Android and iOS devices, providing widespread accessibility to users globally.

### Android download link-

<https://play.google.com/store/apps/details?id=in.gov.affcwc>

### iOS download link-

<https://apps.apple.com/in/app/floodwatch-india/id6478849444>

## Meeting on the Stalemate in the Satluj-Yamuna Link Canal and Alternative Solutions from the Indus Water Treaty Perspective

A meeting was called by the Deputy National Security Advisor, Government of India, on 20th August 2024 at the National Security Council Secretariat, New Delhi, to discuss issues related to the stalemate in the Satluj-Yamuna Link Canal and explore alternative solutions from the perspective of the Indus Water Treaty.

In preparation for the above meeting, a review meeting was held on 16th August 2024 under the chairmanship of the Secretary, Department of Water Resources (DoWR), RD & GR, to assess the Ministry's preparedness and position on the matter. The meeting was attended by Member (D&R), CWC, the Chief Engineer (Design, N&W), and other officials from the CWC and DoWR, RD & GR.

During the meeting, a Power Point presentation was delivered by the Director, ISM, CWC, outlining the issues and various alternative solutions for optimizing the utilization of water from the Western Rivers of the Indus Basin.

## Utilization of RISAT-1A, RISAT-1B RESOURCESAT-3A and RESOURCESAT-3SA data in Water Resources

The meeting to review the status of follow-up actions taken for progress on utilization of RISAT-1A, RISAT-1B RESOURCESAT-3A and RESOURCESAT-3SA data was held on 09.08.2024 in hybrid mode under the chairmanship of Chairman, CWC at Sewa Bhavan, New Delhi.

An agreement has been signed between the

Department of Water Resources, RD&GR (Min of Jal Shakti) and the Department of Space for the utilization of satellite data from RISAT-1A, 1B, RESOURCESAT-3A, and RESOURCESAT-3SA in water resources. With the approval of DoWR, RD&GR, CWC has formed three working groups for the use of satellite data in different areas, as per the office order dated January 19, 2023, as follows:

1. Working Group, A for Flood & Disaster Management
  2. Working Group B on Water Resources Planning
  3. Working Group C on Mapping-related activities
- The follow-up review meeting under the chairmanship of Chairman, CWC conducted on August 9, 2024, evaluated the utilization of data from satellites RISAT-1A, RISAT-1B, RESOURCESAT-3A, and RESOURCESAT-3SA as per the Department of Water Resources, RD&GR (Min of Jal Shakti) mandate. The meeting highlighted the progress made by the Working Groups A, B, and C, which were established to oversee and enhance the application of satellite data in various sectors in DoWR (Min of Jal Shakti). The discussions were pivotal in identifying areas of improvement and setting the course for future actions.

Chairman, CWC highlighted the need for basic training of officers on areas such as Morphology, Glacial Lakes, Crop Area estimation, Water Body Level estimation, flood inundated areas and altimetry etc.

## Interactive Session with Directors of CWC



Shri Kushvinder Vohra, Chairman, CWC held an Interactive Session with all the Directors/ Superintending Engineers (SEs) of CWC posted at Headquarter/Field offices on 12th August, 2024. During the Interaction, Chairman, CWC invited the officers to share their insights & suggestions, drawing from their work experiences, for enhancing and advancing the functioning of CWC. Officers talked on a broad range of topics such as

## Other Important Activities

organizational needs like infrastructure and manpower, improvement in drafting/ preparation of notings, budget allocations, new areas to venture, challenges related to outsourced services & tendering process, maintaining synergy between HQ & Field Units, the delegation of financial power, Administrative issues, requirements for capacity building & training needs, etc.

Chairman, CWC briefed the participants about the latest developments regarding above matters. He also informed the action taken in career progression of the officers, promotions, cadre review, capacity building, delegation of power, up gradation of software, release of latest & upcoming publications and future vision of CWC. He also mentioned that suggestions given by officers are very useful and shall help in further improvement in functioning of CWC.

### **78th meeting of the Technical Advisory Committee (TAC) of the National Institute of Hydrology**



The 78th meeting of the Technical Advisory Committee (TAC) of the National Institute of Hydrology (NIH) was convened under the chairmanship of Sri Kushvinder Vohra, Chairman Central Water Commission and ex-officio Secretary to the Government of India on 8th August, 2024.

Member (D&R), CWC, Chief Engineer (HSO), CWC, Director, NIH; members from IIT-Dharwad, IIT-Roorkee, IRRI, MNIT, Jaipur, IIT-Guwahati and Divisional & Regional Center's Heads, Other committee members and Scientists of NIH also participated in the meeting.

The committee reviewed the progress of technical works of the Institute. The completed work program for the year 2023-24 and proposed work program for the year 2024-25 were reviewed. Members of the committee gave useful suggestions in this regard.

The Chairman also gave various suggestions on the technical works of the Institute and desired that more collaborative projects with other institutions should be carried out.

### **Glacial Lake Risk Indexing**



Shri Kushvinder Vohra, Chairman, Central Water Commission & Ex-Officio Secretary to the Government of India held a second meeting to discuss and finalize Glacial Lake Risk Indexing on 22 Aug 2024.

Officials from NDMA, NDSA, NRSC, IMD, C-DAC, GSI, DGRE, NIH, CEA, CWPRS, CSMRS and Senior officers from CWC attended the meeting.

During the meeting, the 13 parameters proposed for consideration were agreed upon. The proposed framework for risk indexing was appreciated by all, and observed that this would be of great help in prioritizing large number of Glacial Lakes in remote areas for detailed study in phased manner to mitigate the impacts of GLOF. The proposed document would help in standardizing the risk indexing by various agencies.

### **State level Interaction Meeting**

Sh Kushvinder Vohra, Chairman, CWC along with the team of officers from CWC, CGWB and GFCC held a State-Level Interaction with officers of I&WRD, Government of Uttar Pradesh on 16th August 2024 at Lucknow.

Chairman, CWC briefed about the various activities of CWC in the State of UP. He also demonstrated a recently launched advanced version of "FloodWatch", a mobile app developed in-house by CWC to disseminate information about the flood situation in the country as well as storage position of the important reservoirs in the country. He also emphasised the need for regular submission of data regarding E-flow monitoring in the UP. Information was provided



## Other Important Activities



to the State officials about the recent technical publications released by CWC which would be useful in water resources planning in the State. Detailed discussions were held about various projects being implemented by the State under PMKSY-AIBP and submitted by the State for appraisal & design consultancy. Early preparation of the Emergency Action Plan for all the specified dams within the stipulated timeline was also emphasised. Chairman, CWC asked I&WRD officials to nominate more officers in the M-Tech Courses in the field of dam safety at IIT-Roorkee and IISc, Bangaluru and to take advantage of training being conducted by NWA. I&WRD, UP also gave a presentation on various issues and sought guidance of CWC. Deliberations were held and useful suggestions emerged to tackle these issues. Principal Secretary, I&WRD, UP appreciated the initiatives taken by CWC for state-level interactions.

### Publication of Report on Flood Damage Statistics

Shri Kushvinder Vohra, Chairman, Central Water Commission (CWC) & Ex-Officio Secretary to Govt. of India, today released a publication brought out by Central Water Commission "Report on Flood

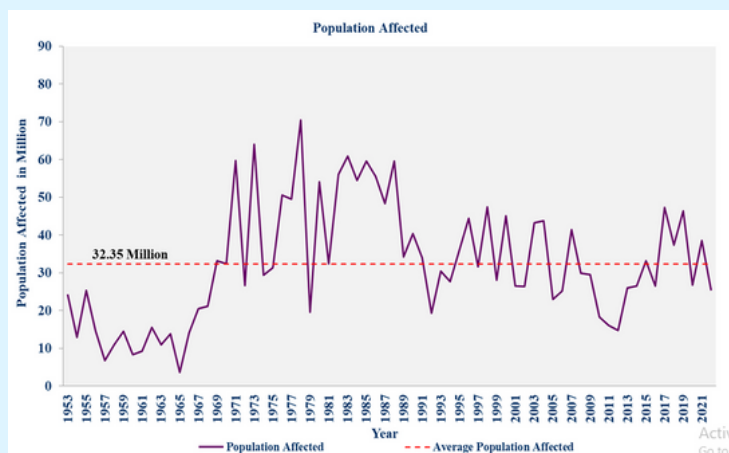


Damage Statistics". The event was conducted in a hybrid mode in presence of Member RM, CWC, Member, WP&P, CWC and other Senior Officers of CWC (HQ and Field Formations).

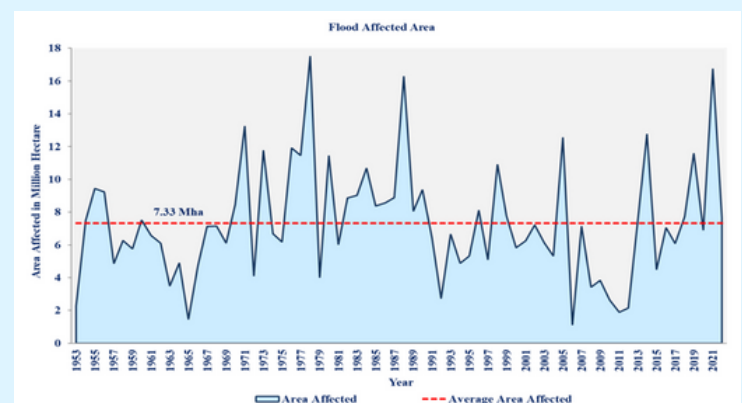
On the occasion, Shri Vohra stated that the main objective of collating the long-term statistics is to make rational decisions in implementation of Flood Management Schemes. CWC has compiled flood damage integrated databank of 36 States/UTs of India since 1953 till 2022. The present report consists of elaborate analysis of statistics to observe the trend of flood damages and percentage in monetary loss. The report covers the extent of damage due to flood during 1953-2022 with respect to population affected, area affected, crop area affected, number of houses damaged, quantum of loss of human & cattle lives and total cost of damages. PDF version of the report is available at CWC's website.

#### Link-

<https://cwc.gov.in/sites/default/files/report-flood-damage-statistics.pdf>



Population Affected due to Floods (1953- 2022)



Area Affected due to Floods (1953-2022)

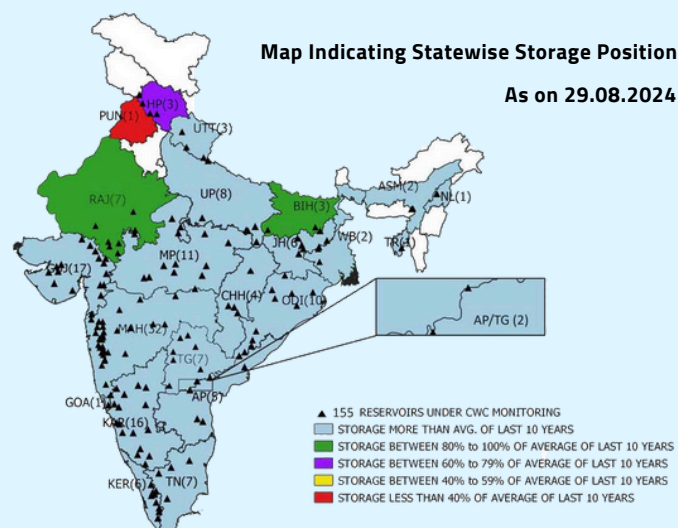
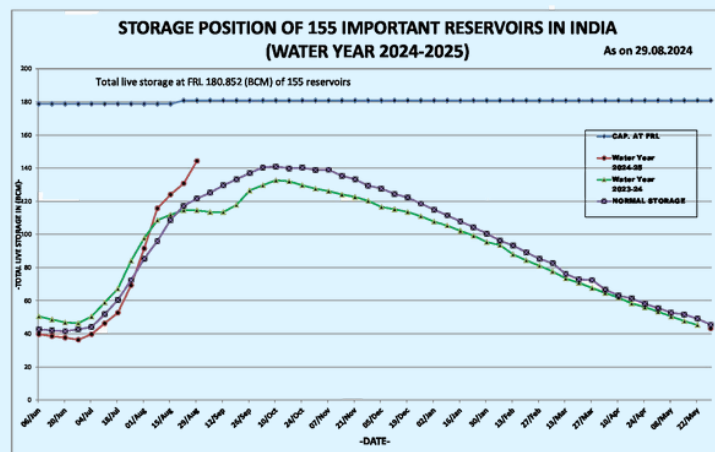
# Reservoir Monitoring

Five more reservoirs, named below have been added in the month of August 2024 in CWC's Reservoir Storage Monitoring System (RSMS).

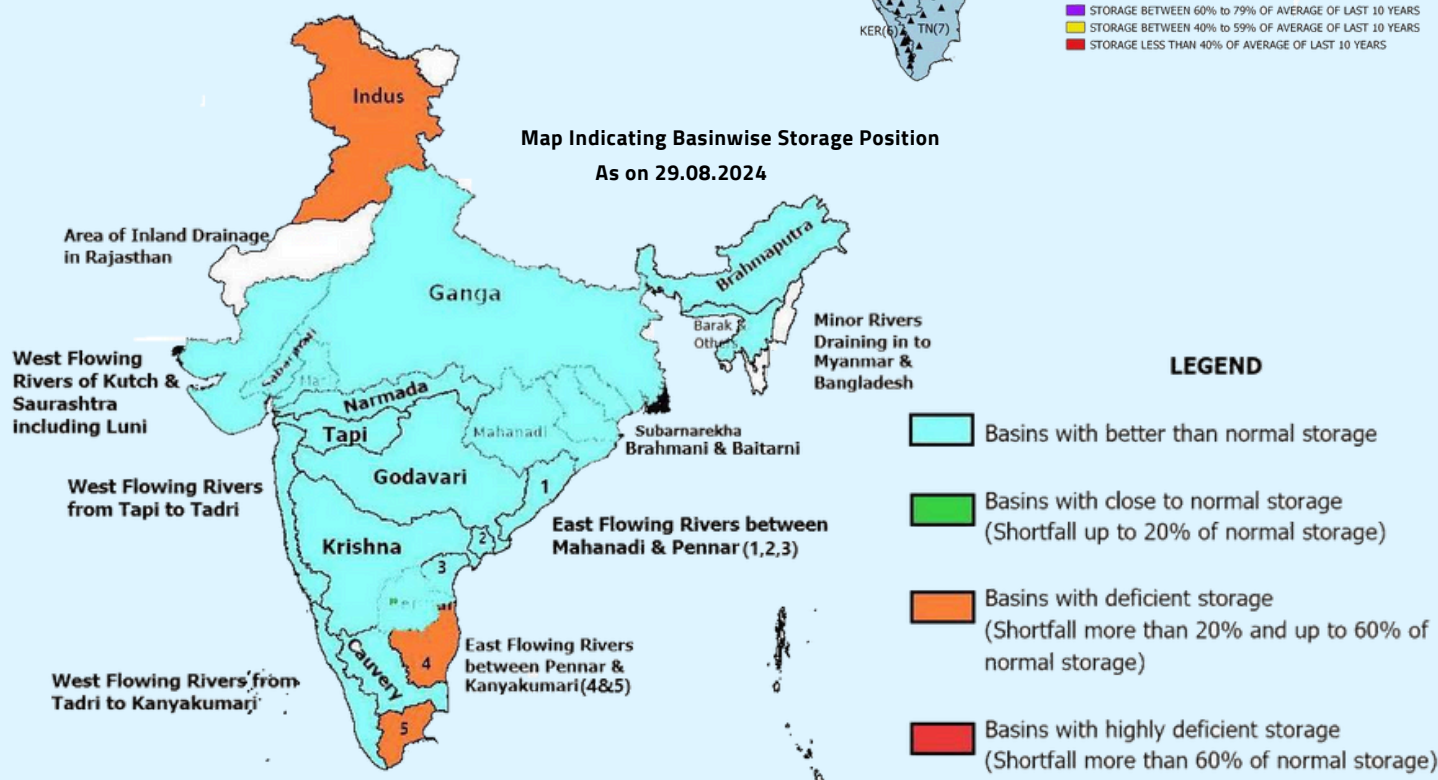
Name of Reservoir	State	Live storage Capacity
Som Kamla Amba	Rajasthan	0.173
Badua Dam	Bihar	0.11
Durgavati	Bihar	0.26
Salaulim	Goa	0.227
Pulichintala	Andhra Pradesh	1.300
	Total=	2.070

Now, CWC is monitoring live storage status of 155 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 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 29.08.2024, live storage available in these reservoirs is 144.333 BCM, which is 80% of total live storage capacity of these reservoirs. However, last year the live storage available in

these reservoirs for the corresponding period was 114.543 BCM and average of last 10 years live storage was 121.619 BCM. Thus, the live storage available in 155 reservoirs as per 29.08.2024 Bulletin is 126% of the live storage of corresponding period of last year and 119% of storage of average of last ten years.

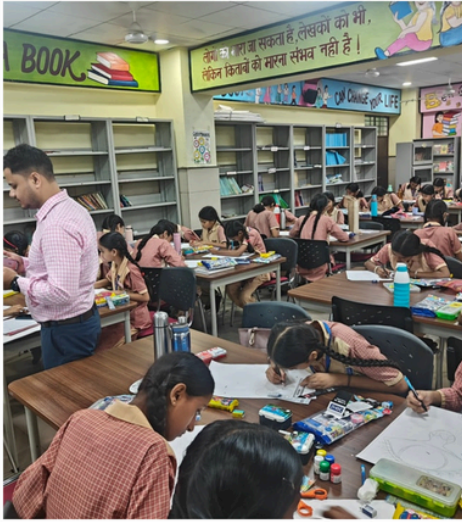


**Map Indicating Basinwise Storage Position**  
As on 29.08.2024





## Gallery



यमुना बेसिन संगठन, केंद्रीय जल आयोग, फरीदाबाद के नेतृत्व में संग्रहालय एवं प्रदर्शनी उपमंडल, नई दिल्ली की तरफ से राष्ट्रीय खेल दिवस 29.08.2024 के अवसर पर जन जागरूकता कार्यक्रम के अंतर्गत सर्वोदय कन्या विद्यालय पुष्प विहार, नई दिल्ली में विद्यार्थियों के लिए पेंटिंग कंपटीशन आयोजित कराया गया एवं उन्हें जल बचत व इसकी महत्ता के बारे सूचित एवं प्रेरित किया गया।

## Independence Day 2024





# National Space Day 2024



## 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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