

JALANSH

Volume 6 Issue No. 5 DECEMBER 2023

MESSAGE



Shri Kushvinder Vohra
Chairman, CWC

We commenced the month with the observance of Vigilance Awareness Week, dedicated to promoting transparency, integrity, and accountability in public life in India. The theme for this year was "Say no to corruption; commit to the Nation, भ्रष्टाचार

का विरोध करें; राष्ट्र के प्रति समर्पित रहें". The pledge to uphold vigilance principles was administered to officers of CWC. Additionally, all regional offices of CWC organized various activities to raise awareness throughout the week.

A significant event during the month was the 25th International Congress and 74th International Executive Council (IEC) of the International Commission on Irrigation & Drainage (ICID) held from 01.11.2023 to 08.11.2023. INCID housed in the CWC organized this event jointly with ICID and Govt of AP. The ICID Congress was inaugurated by the Hon'ble Minister of Jal Shakti, Government of India, and the Hon'ble Chief Minister of Andhra Pradesh in Vishakhapatnam. The prestigious event brought together approximately 1300 experts, researchers and professionals from across the globe including 350 foreign delegates from 40 countries. The credit goes to the CWC officers involved in organizing the event.

We were honored to host a delegation from Ghana on 15.11.2023, led by Hon. Ama Pomaa Boateng, Deputy Minister of Communication & Digitalization, Government of Ghana. They visited CWC to understand our Hydrological observation network, Flood Forecasting mechanism and Dam Safety activities. Detailed presentations were made on these aspects, and

we assured them of our support in meeting their capacity building requirements in all the water sector-related issues.

Another milestone was achieved by the CWC during November 2023 when the consensus between UP and Uttarakhand was arrived on sharing of Yamuna water (up to Okhla) in the meeting taken by me on 29.11.2023.

I also held first meeting of the committee constituted for the Joint Flood Management Study in the wake of the extensive floods in Himachal Pradesh, Punjab, and Uttarakhand in 2023. Key decisions were made, including the preparation of a master datasheet for Hydrological networks, rainfall analysis, Digital Elevation Model (DEM) creation, and a review of dam safety protocols.

Furthermore, the second meeting of the Committee for Joint Flood Management Study of River Yamuna for its reach between Hathnikund and Okhla barrage was held. The need for a comprehensive study to address all problems holistically was emphasized. Further, after deliberations interim report of the committee were firmed up.

CWC also made significant contribution to standardization activities of BIS. As Chairman of WRDC, BIS, I approved three codes in various areas of water sector.

Wish you all a very happy New Year 2024. May CWC keep on achieving new milestones during 2024 also.

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5TH NATIONAL WATER AWARDS - 2023



MINISTRY OF JAL SHAKTI
DEPARTMENT OF WATER RESOURCES,
RIVER DEVELOPMENT & GANGA
REJUVENATION

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FOREIGN DELEGATION

Delegation from Ghana

A delegation from Ghana led by Hon. Ama Pomaa Boateng, Deputy Minister of Communication & Digitalization, Government of Ghana and other team members from Ministry of the Interior, National Disaster Management organization, National Communication Authority, National Centre for Coordination of Early Warning and Response Mechanism, Ghana Meteorological Agency etc. along with officials from World Food Programme, a UN agency visited Central Water Commission on 15.11.2023 and met Sh. Kushvinder Vohra, Chairman, Central Water Commission & Ex-Officio Secretary to the Government of India.

The objective of visit of Ghana delegation was to understand Hydrological observation network of CWC, Flood Forecasting mechanism as well Dam Safety activity in country.

Chairman, CWC welcomed the delegation and briefed about role of CWC in water resources sector in the country, various activity carried out by CWC, training infrastructure available with CWC, vision of CWC for future etc.

Presentations were made by officers of CWC on Overview of CWC, Hydro- metrological observation network, Flood Forecasting and Dam safety.



Chairman, CWC also elaborated the institutional mechanism established in the country for carrying out these activities. Detailed interactions were held with Ghana delegation. Deputy Minister of Communication & Digitalization, Government of Ghana appreciated the institutional mechanism and technical matters related to water sector handled by CWC in a consolidated manner. She also mentioned the information provided is very useful for their functional requirements.

Chairman, CWC extended assurance of providing support to Ghana in meeting their capacity building requirements as well as consultancy in other water sector-related issues and requested them to raise the request through Ministry of External Affairs, Government of India.

25th International Congress and 74th International Executive Council (IEC) of International Commission on Irrigation & Drainage (ICID)

The International Commission on Irrigation and Drainage (ICID) is a prominent scientific, technical, and professional non-profit international organization dedicated to working in the fields of irrigation, drainage, and flood management to promote and achieve sustainable agriculture water management. As a knowledge-sharing platform, ICID focuses on enhancing the status of agricultural water management practices, covering various methods such as rain-fed agriculture, supplemental irrigation,

deficit irrigation, and full irrigation. Its core activities extend to the drainage of agricultural lands and the management of extreme climate events like floods and droughts. The International Executive Council (IEC) is responsible for managing ICID's affairs. It considers matters of policy initiated or sponsored by member National Committees, Office Bearers, or the Management Board. The IEC, comprising Office Bearers and representatives from each National Committee, meets annually to make conclusive decisions on executive, administrative functions, and financial liabilities.

ICID operates primarily through representative National Committees (NCs), with the Indian National Committee on Irrigation and Drainage (INCID) being India's representative. INCID was established to address India's needs for improvements in irrigation and drainage through close interactions with ICID. ICID plays a crucial role globally in managing agricultural water, utilizing water diplomacy, providing technical guidance, and representing the voices of nations. INCID significantly contributes to guiding India's agricultural development, irrigational



infrastructure, sustainability, technology upgrading, and knowledge exchange through its diverse array of experts. INCID, led by the Chairman of Central Water Commission (CWC) and CE (EMO), CWC as its Member-Secretary, and the Remote Sensing Directorate, CWC, serves as the INCID Secretariat.

INCID, serving as the national interface with ICID, organized the 25th International Congress & 74th International Executive Council (IEC) Meeting of ICID in Vishakhapatnam (Vizag), Andhra Pradesh, from November 1-8, 2023. The event was entirely an in-house effort with contributions from Central Water Commission (CWC) officers, conducted in partnership with the State Government of Andhra Pradesh and ICID. The event attracted over 1300 delegates globally, with approximately 350 foreign delegates from 40 countries.

The 25th ICID Congress, themed 'Tackling Water Scarcity in Agriculture,' was inaugurated by the Hon'ble Minister of Jal Shakti, Government of India, and the Hon'ble Chief Minister of Andhra Pradesh. The grand opening ceremony was attended by distinguished dignitaries, including Ministers of

Water Resources Department, Health, Family Welfare & Medical Education, and Industries, Infrastructure, Investment & Commerce, Information Technology, Andhra Pradesh, as well as the President of ICID and the Principal Secretary, Water Resources Department, Government of Andhra Pradesh. Mr. Kushvinder Vohra, Chairman, CWC & INCID, emphasized the importance of sustainable water management for food and ecosystem security. The Hon'ble Minister highlighted the crucial role of international collaboration in addressing water sector challenges in the face of climate change. The Hon'ble Chief Minister shared his vision for various interventions required for water resources development and management in the State of Andhra Pradesh. The President, ICID, conveyed the leading role of ICID in promoting sustainable water management in the fields of irrigation, drainage, and flood management.

The prestigious ICID Congress brought together a global congregation of around 1300 experts, researchers, and professionals, including 350 foreign delegates from 40 countries, dedicated to addressing the challenges of water resource management, irrigation, and drainage.

The theme for the 25th ICID Congress was 'Tackling Water Scarcity in Agriculture,' with various sessions organized to address two questions:

Question 64: What alternative water resources could be tapped for irrigated agriculture?

Sub-Question 64.1: Developing and Reinforcing Conventional Sources of Irrigation Water (6 sessions)

Sub-Question 64.2: Tapping Non-Conventional Sources of Water (1 session)

Sub-Question 64.3: Empowerment of Farmers in Addressing Water Scarcity in Agriculture (1 session)

Question 65: Which on-farm techniques can increase water productivity?

Sub-Question 65.1: Improving Management of Existing Facilities (2 sessions)

Sub-Question 65.2: Improved Agronomic Practices and Research/Innovation (1 session)

Sub-Question 65.3: Efficient Application of Irrigation Water (7 sessions)

During the Congress, 15 Side Events were also organized by various departments, agencies, and international organizations from November 2-4, 2023, including events by IWMI-WRC, INCID & India NPIM Session, FAO-WASAG, FAO, MSSRF-NORWAY, INCID – WOMEN & WATER, IWMI-INDIA, IGS, AFEID, IEWP GIZ SESSION, ICARDA, FAO-JIICA, CNCID (World Irrigation Forum 4 Papers), INCID & IWRS, and IWMI – SOLAR IRRIGATION. Additionally, an INCID Congress Special Session was organized, chaired by Chairman, CWC, focusing on "Sustainable Solutions to Water Sector Challenges in India" in two sessions. One session featured presentations from Central government entities such as CWC, CGWB, NWA, Pune, and R&D activities of DoWR, RD&GR. The other session included presentations from State Governments, namely Andhra Pradesh, Bihar, Karnataka, and Madhya Pradesh.

A technical tour for 300 local and international delegates was organized to the Araku Valley and Borra caves on November 5, 2023. Several local study tours and excursion visits were also organized to Kambalakonda Eco Park, Indira Gandhi Zoological Park, Simhachalam temple, Rishikonda beach, etc., showcasing and promoting the touristic destinations, cultural, and architectural heritage.

The Congress and IEC were held together as an 8-day event, with the Congress from November 2-4, 2023, followed by the IEC Meetings from November 5-8, covering various Working Groups and Committees of ICID.

Shri Kushvinder Vohra, Chairman, CWC, chaired the C-Congress Session during the 74th International Executive Council (IEC) meeting of ICID. Sh. Vohra presented a brief overview of the participation during the 25th ICID congress, which concluded on November 4, 2023, and also briefed about the financial and technical aspects of the Congress.

A Young Professional Training Program organized by IEWP, GIZ, was also held on November 5, 2023. Additionally, around 20 Working Group meetings were held from November 5-8, covering various relevant topics. Other IEC meetings included PCTA, PSCO, IEC.

The last day, November 8th, witnessed the IEC meeting and concluded with a closing ceremony.

NDSA AND DRIP

2nd Meeting of Review Committee Reg. Engineering and Management Consultancy for DRIP Phase II and III

Shri Sanjay Kumar Sibal, Member (D&R) chaired the meeting regarding Engineering and Management Consultancy for Dam Rehabilitation and Improvement Project Phase II and III on 17.11.2023

at Member(D&R)'s chamber. The meeting was done to examine the CVs submitted by consultant in respect of mobilization of Consultant's personnel and to recommend suitable candidate for approval.

MEETINGS REGARDING PROJECTS

Punatsangchhu-I HEP (6 X 200 MW), Bhutan

Shri Sanjay Kumar Sibal, Member (D&R) attended the 32nd Technical Coordination Committee Meeting of Punatsangchhu-I HEP (6 X 200 MW),

Bhutan regarding Progress Review at Committee Room, CWC on 03.11.2023. Shri S.D. Sharma, Chief Engineer, Designs (E&NE), Shri S.K. Sharma, Director, BCD (E&NE) also attended the meeting.

Renukaji Dam Project, Himachal Pradesh

Shri Sanjay Kumar Sibal, Member (D&R) chaired the meeting to review the progress of works related to Renukaji Dam Project, Himachal Pradesh on 06.11.2023 in Member (D&R)'s chamber with the Panel of Geological Experts for Renukaji Dam

Project, officers from CWC, CSMRS, GSI and HPPCL. The meeting was taken to review the status of investigation work going on at Renukaji dam site for further taking up the tender stage.

Kishenganga and Ratle HEPs

Shri Sanjay Kumar Sibal, Member (D&R) attended the 12th Meeting of 'Technical Sub-Committee' for IWT issues related to Kishenganga and Ratle HEPs under the chairmanship of Shri Kushvinder Vohra, Chairman, CWC at Committee Room, CWC on

20.11.2023. Shri Manoj Tiwari, CE, HSO, Shri Vivek Tripathi, CE Designs (N&W) along with other officers from CWC and NHPC also attended the meeting. The agenda of the meeting was to discuss data request by Neutral expert.

Lakhwar MPP, Uttarakhand

Shri Sanjay Kumar Sibal, Member (D&R) chaired the hybrid meeting which was conveyed between officials of CWC, UJVNL, GSI, Group of Geological Experts (GGE) and L&T to discuss the issues related to Lakhwar Multi-purpose Project on 22.11.2023 at Member(D&R)'s chamber.



North Koel Reservoir Project, Jharkhand

A meeting chaired by the Secretary, WR, RD & GR on 29.11.2023 reviewed the progress of the North Koel Reservoir Project's remaining works. Officials from FM Wing, DoWR, CWC HQ, and WAPCOS attended, resulting in key decisions. These included a joint inspection of 10 fabricated gates by CWC and WAPCOS in the 3rd week of December, urging

the Government of Jharkhand to address R&R issues and finalize payment modalities within 15 days, resolving the electric pole shifting matter in RMC, Jharkhand in alignment with the 8th RCE provisions, and requesting the Chief Secretary, Jharkhand, through a DO letter, to resolve pending issues related to the State Government.

Sapta Kosi Multipurpose Projects

Meeting between CWC, GSI and CSMRS officials was convened under the Chairmanship of CE, Designs (N&W) for discussing the drilling and drifting norms to be taken up for Sapta Kosi

Multipurpose Projects (SKMP) & Sun Kosi Kamla Diversion Multipurpose Projects (SKDMP) in CWC on 08.11.2023.

Second Ravi Beas Link, Punjab

Shri Kushvinder Vohra, Chairman, Central Water Commission & Ex-Officio Secretary to the Government of India held a meeting on 28.11.2023 to discuss progress of Pre-Feasibility Report (PFR) of Second Ravi Beas Link Project, submitted by WRD, GoP. The meeting was attended by officers of WRD, Govt. of Punjab (GoP), Officers from Central Water Commission and other concerned organizations.

During the meeting, Chairman, CWC directed that a team from Design Wing of CWC may visit the site to finalize the parameters of barrage within a



week. Thereafter a meeting may be held with Officials of WRD, GoP by the concerned specialized directorates of CWC to finalize the design & cost aspect of the PFR, Success Rate and Benefit-Cost Ratio on priority.

WEBINAR/WORKSHOP/TRAINING

Webinar organized by World Bank

The first webinar organized by World Bank in collaboration with the Australian Water Partnership was held on 28.11.2023, focusing on Operating and Managing Dams. This is the part of the series of knowledge exchange Webinars on various topics related to Dam Safety and Management, organized by World Bank. These

webinars aim to share knowledge between Indian and Australian practitioners/professionals and learn from each other's experiences. As this provides an excellent learning platform for DRIP implementing agencies and an excellent opportunity to share their experience gained for the past ten years with a broader audience.

VISIT/INSPECTION

Hirakud Dam, Odisha

Joint Secretary (PP & RD), DoWR, RD&GR, Ministry of Jal Shakti, Gol, Chief Engineer, DSO, CWC & Project Director, DRIP and SJC, PR Wing, MoJS visited Hirakud dam on 23rd November, 2023. During the visit, officer discussed with the project authorities regarding comprehensive rehabilitation of Hirakud dam (additional spillway work) under the ongoing Dam Rehabilitation and Improvement Project, Phase-II & III.



Study visit of the Public Accounts Committee (2023-24) to Dooars (Siliguri) and Kolkata

Shri Sanjay Kumar Sibal, Member (D&R) attended the Study visit of the Public Accounts Committee (2023-24) to Dooars (Siliguri) and Kolkata from 25th to 26th November 2023. On 25.11.2023 at Siliguri, an informal discussion was done with representatives of Ministry of Jal Shakti,

Government of West Bengal, Central Water Commission, National Dam Safety Authority, Brahmaputra Board and National Disaster Management Authority on the subject "Performance Audit on schemes for flood control and flood forecasting based on C&AG Report No.10 to 2017.

OTHER IMPORTANT ACTIVITIES

1. FLOOD AND RELATED ISSUES

First Meeting of the Committee for Joint Flood Management Study in Wake of the Extensive Floods in the State of Himachal Pradesh, Punjab and Uttarakhand in 2023

Shri Kushvinder Vohra, Chairman, Central Water Commission & Ex-Officio Secretary to Government of India held first meeting of the Committee constituted for joint flood management study in wake of the extensive floods in the state of Himachal Pradesh, Punjab and Uttarakhand in 2023 on 21.11.2023

The meeting was attended by officials from Govt of Punjab, Govt of Himachal Pradesh, Govt of Uttarakhand, BBMB, CWPRS, IMD, NRSC, NWIC and senior officers from CWC.

The Chairman of the committee in his opening remarks highlighted the various factors which might have caused flooding in these regions and gave a brief of tasks to be carried out by the committee. Presentations on various aspects were made by IMD, BBMB, HP, Punjab & UK.

Several key decisions were taken in the meeting such as preparation of master datasheet for Hydrological network of various concerned



agencies, rainfall analysis of major flood events, preparation of Digital Elevation Model (DEM) including cross section survey, a review of rule curve of Bhakra and Pong dam, sharing of embankment details/cross drainage details, review of existing Decision support system of BBMB etc. Further, Chairman, CWC also sought the information from concerned States/ agencies on existing gate operation mechanism, provisions of existing flood plain zoning prepared by various state Governments and existing flood management practice.

Erosion posed by Ganga-Padma River System in West Bengal

Shri Kushvinder Vohra, Chairman, Central Water Commission & Ex-Officio Secretary to the Government of India held third meeting of the Committee constituted for conducting a joint detailed technical study to formulate an integrated plan to combat the threat of erosion posed by Ganga-Padma River System in West Bengal on 24.11.2023.

The meeting was attended by officials from Ministry of Jal Shakti, CWC, GFCC, CWPRS, Farakka Barrage Project, State of West Bengal, Bihar and Jharkhand, NRSC, IWAI and experts from consultant M/s Tractebal.

During the meeting, progress of study was



reviewed including data collection from various sources. The initial model setup was discussed. The consultant was directed to share the study done so far with CWPRS and CWC for suggestions, if any so that study could be expedited. Further suggestions were given to study present vulnerable reaches and also future erosion patterns. Target completion period of the study was also finalised.

The Study Report on "Study on the issue of Flood and Siltation in River Ganga and its Tributaries due to Farakka Barrage in the State of Bihar"

Shri Sanjay Kumar Sibal, Member (D&R) attended the meeting taken by Secretary, (WR, RD&GR) where CWC on the Final Study Report of M/s. RMSI Pvt. Ltd. on "Study on the issue of Flood and

Siltation in River Ganga and its Tributaries due to Farakka Barrage in the State of Bihar" at Secretary's chamber on 23.11.2023. A presentation was made by CWC on the final outcome of this

study report which was presented in the meeting. Shri Manoj Tiwari, Chief Engineer (HSO) also

attended the presentation.

Flood Situation in the country - November 2023

Regular Flood Forecasting Activity commenced on 01.05.2023 in Brahmaputra and Barak and Jhelum basins. During the period from 1st May to 30th November 2023, total 6306 (4566 level+1740 Inflow) flood forecasts were issued, and 5934 (4336 Level+1598 Inflow) forecasts were within permissible limit with a 94.10 % accuracy. One no Red Bulletin (for Extreme flood situation) and 03 no of Orange Bulletin (for severe flood situation) were issued in the month of November from Central Flood Control Room.

Summary of Flood Situation during 01.05.2023 to 30.11.2023

Extreme Flood Situation

5 FF station observed in Extreme Flood Situation.

S. No.	State	District	River	Station	Period	
					From	To
1	NCT Delhi	North Delhi	Yamuna	Delhi Railway Bridge	12/07/2023	15/07/2023
2	Uttar Pradesh	Budaun	Ganga	Kachlabridge	14/07/2023	15/07/2023
					16/07/2023	22/07/2023
					29/07/2023	01/08/2023
					18/08/2023	20/08/2023
3	Assam	Sivasagar	Dikhow	Sivasagar	17/07/2023	17/07/2023
					11/08/2023	12/08/2023
4	Telangana	Kumuram Bheem	Wardha	Sirpur Town	24/07/2023	24/07/2023
					29/07/2023	29/07/2023
5	Sikkim	South Sikkim	Teesta	Melli	04/10/2023	04/10/2023

57 flood monitoring station observed Extreme flood situation.

Severe Flood Situation for FF Stations

76 FF Stations observed Severe Flood Situation in Assam, Bihar, Uttar Pradesh, Andhra Pradesh, Telangana , West Bengal, Jharkhand, Odisha, Madhya Pradesh, Uttarakhand, Maharashtra, Rajasthan and Gujarat.

65 monitoring station observed Severe Flood Situation in Assam, Bihar, Uttar Pradesh, Kerala, Karnataka, Tripura, Uttarakhand, Jammu & Kashmir, Maharashtra,

2nd meeting of the Committee constituted for Joint Flood Management Study of River Yamuna for its reach between Hathnikund and Okhla barrage

Shri Kushvinder Vohra, Chairman, Central Water Commission & Ex-Officio Secretary to the Government of India held 2nd meeting of the Committee constituted for Joint Flood Management Study of River Yamuna for its reach between Hathnikund and Okhla barrage on 13.11.2023. Official from Govt of NCT Delhi, Govt of Haryana, Govt of Uttar Pradesh, CWPRS, IMD, DDA, NRSC, Survey of India and CWC official attended the meeting.

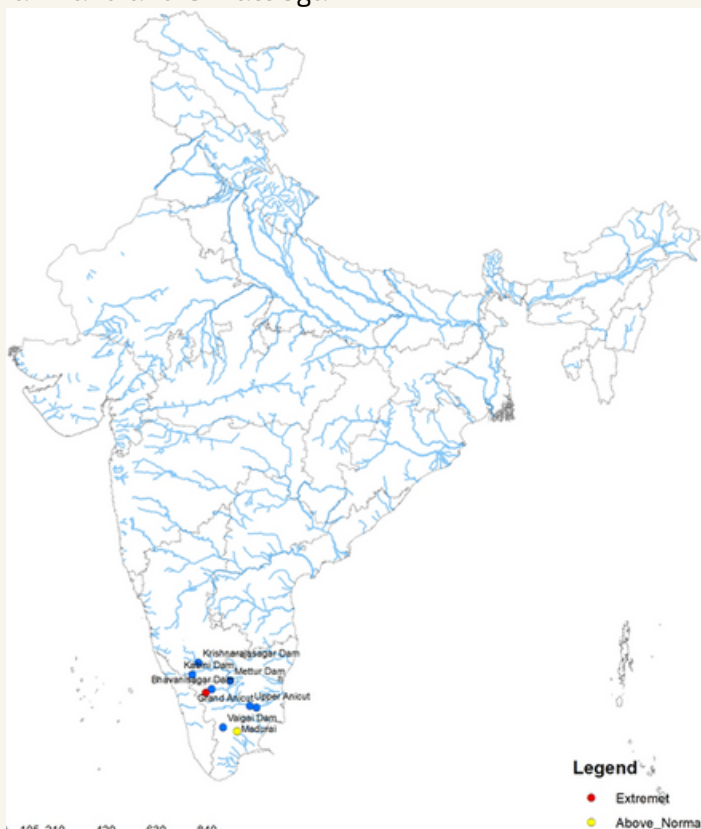
Madhya Pradesh, Telangana, Dadra & Nagar Haveli, Odisha, Jharkhand, Gujarat, West Bengal and Tamilnadu.

Above Normal Flood Situation

45 FF Stations in Arunachal Pradesh, Assam, Bihar, Jammu and Kashmir, Rajasthan, Uttar Pradesh, West Bengal, Himachal Pradesh, Haryana, Andhra Pradesh, Telangana, Kerala, Maharashtra, Tripura, Odisha, Madhya Pradesh, Gujarat and Tamilnadu observed Above Normal Flood Situation.

Reservoirs having Inflow above threshold limit

The 77 reservoir received inflows above their threshold limit in Andhra Pradesh, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamilnadu, Telangana, Uttar Pradesh, Uttarakhand, West Bengal, Jharkhand and Chhattisgarh.



Status of pending information such as salient features of Structures including drawings of Bridges, DTM, Operational schedule of barrages, etc. was discussed. Issues like drain capacities, return period followed for storm drain design etc

was discussed. Chairman also observed that Comprehensive study for whole reaches must be carried out to understand all the problems holistically. He requested all to provide requisite balance data at the earliest so that modelling studies could be carried out.

2. INTERSTATE MATTER

Third meeting of the Committee on the issue of reallocation of the share of erstwhile Uttar Pradesh in Yamuna water up to Okhla

Shri Kushvinder Vohra, Chairman, Central Water Commission & Ex-Officio Secretary to the Government of India held Third meeting of the Committee on the issue of reallocation of the share of erstwhile Uttar Pradesh in Yamuna water up to Okhla as per MoU of 1994 between Uttar Pradesh and Uttarakhand on 29.11.2023.



Officials from DoWR,RD&GR, Govt of Uttar Pradesh, Govt of Uttarakhand, Central Water Commission and Upper Yamuna River Board attended the meeting. The issues were discussed threadbare as per allocations indicated in said MoU and other relevant factors. Chairman, CWC

deliberated the matter with both the states and finally an amicable agreement in the matter among two states was achieved.

35th Meeting of JOC on Rihand Reservoir

Shri Navin Kumar, Member (WP&P) chaired the 35th Joint Operation Committee meeting on Rihand Reservoir which was held on 30.11.2023 at Sewa Bhawan. The meeting was attended by CE, BPMO and other officers from Central Water Commission, Government of Bihar, Uttar Pradesh Jal Viduyt Nigam Limited(UPJVNL) & Uttar Pradesh State Load Dispatch Centre(UPSLDC). The Committee deliberated upon water demand schedule of the Bihar and power generation plan along with releases from Rihand Hydropower Station proposed by the UPJVNL for 2023-24. Water Release schedule from December 2023 to June



2024 was finalized by the members of the committee.

3. OTHER ACTIVITIES

Review Meeting to Assess the Progress of BSRs of WARIMS Portal

The 5th review meeting to assess the progress of BSRs of WARIMS portal was taken by Shri Kushvinder Vohra, Chairman, CWC on 30.11.2023 in CWC (HQ), New Delhi. The meeting was attended

by SME/SMNs, directors from coordination directorates and concerned Chief Engineers. The status of BSRs and progress/issues in WARIMS were discussed in the meeting.

Finalization/Adoption of BIS codes and formation of new Sectional Committee

Shri Kushvinder Vohra, Chairman, Central Water Commission and Ex-Officio Secretary to the Govt of India held a meeting on Finalization/Adoption of BIS codes and formation of new Sectional Committee on 30.11.2023.

The meeting was attended by Member D&R along with CWC Members in Sectional Committees of BIS. During the meeting, 04 IS Codes were deliberated and out of this, 03 IS Codes were approved by Chairman, CWC and Chairman, WRDC, BIS and adopted for printing. Chairman, CWC directed to review the BIS code for minimizing evaporation losses from reservoirs guidelines, specially in



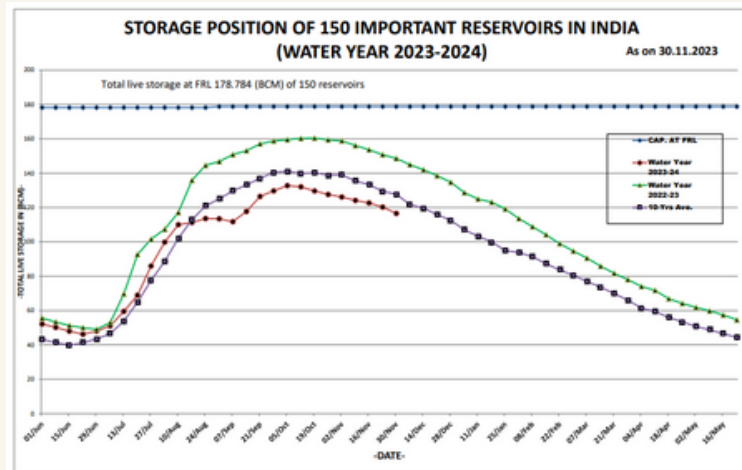
respect of guidance on area of reservoir that can be covered. Further, Chairman approved the formation of 04 New Sectional Committees with Scope and Composition and nominated the Members from CWC.

4. RESERVOIR MONITORING

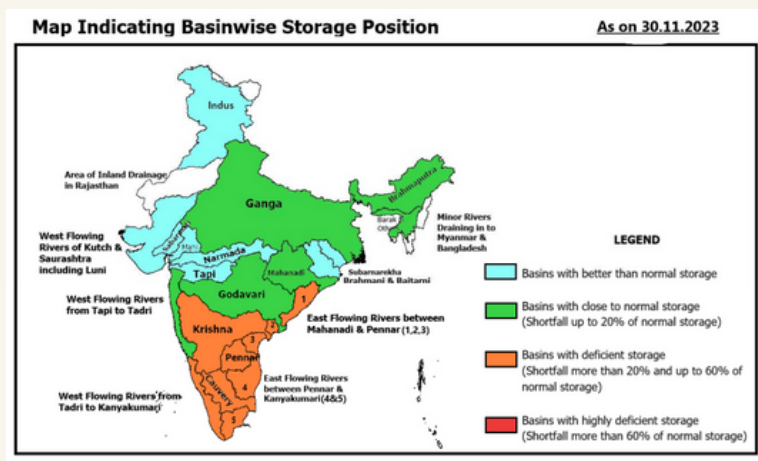
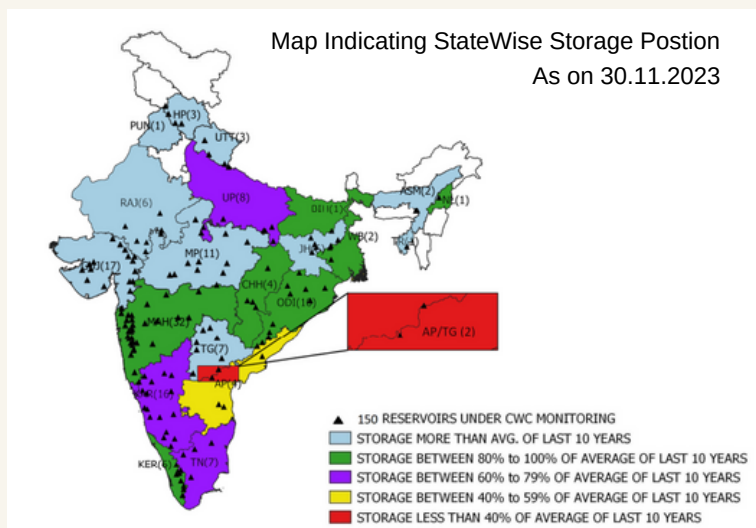
Reservoir Monitoring

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 31.11.2023, live storage available in these reservoirs is 116.571 BCM, which is 65% of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was 148.612 BCM and the



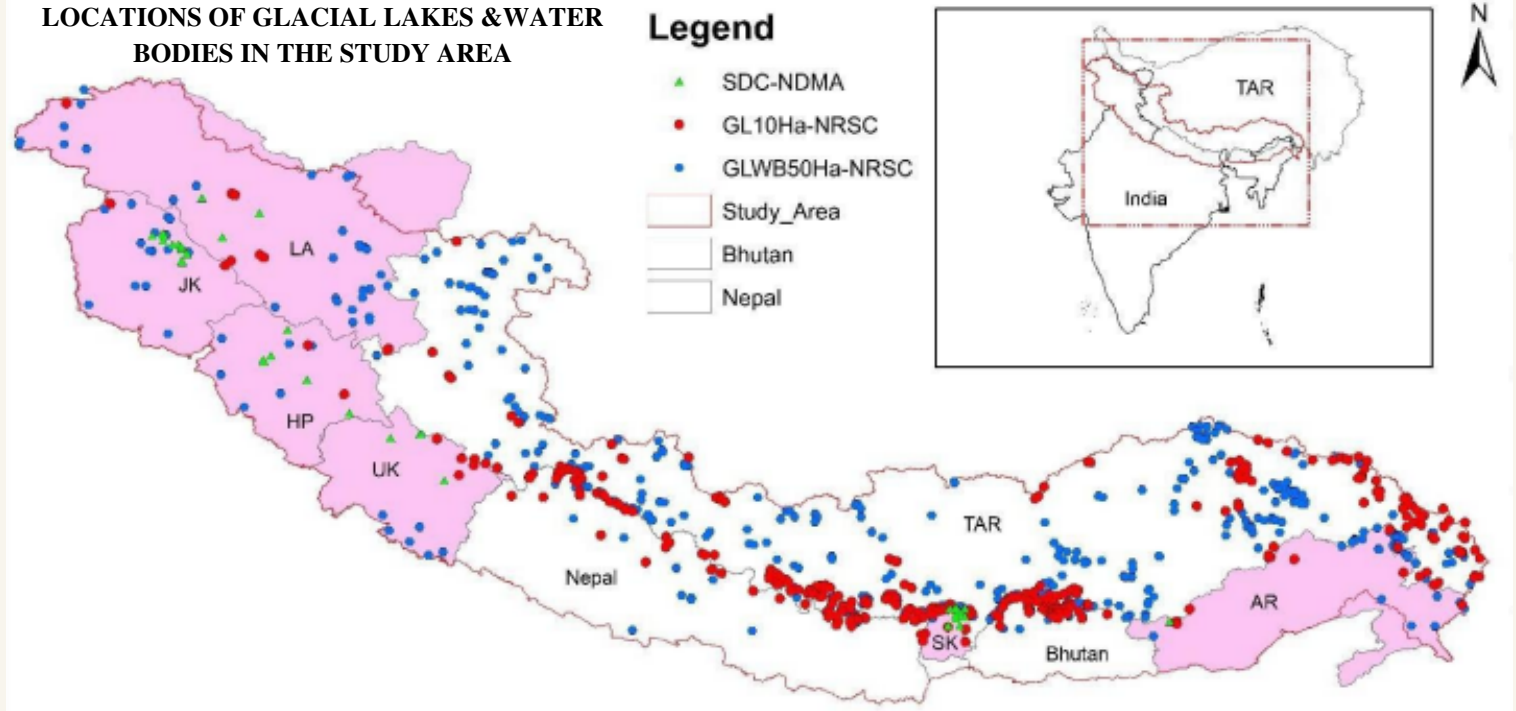
average of last 10 years live storage was 127.747 BCM. Thus, the live storage available in 150 reservoirs as per 31.11.2023 Bulletin is 78% of the live storage of corresponding period of last year and 91% of storage of average of last ten years.



5. GLACIAL LAKES/WATER BODIES IN HIMALAYAN REGION

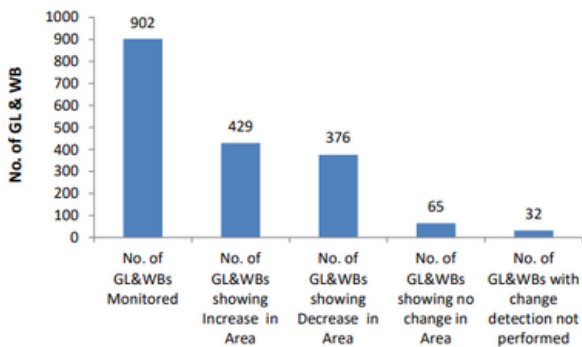
Glacial lakes are common in the high elevation of glacierised basin. They are formed when glacial ice or moraines or natural depressions impound water. There are varieties of such lakes, ranging from melt water ponds on the surface of glacier to large lakes in side valleys dammed by a glacier in the main valley. These lakes normally drain their water through seepage in front of the retreating glacier. The moraine creates topographic depression in which the melt water is generally accumulated leading to formation of glacial lake. When this lake is watertight, melt waters will accumulate in the basin until seepage or overflow limits the lake level.

LOCATIONS OF GLACIAL LAKES & WATER BODIES IN THE STUDY AREA

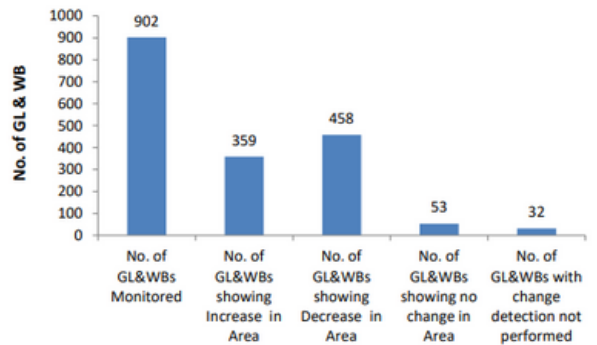


OVERALL CHANGES IN WATER SPREAD AREA OF GL&WBs

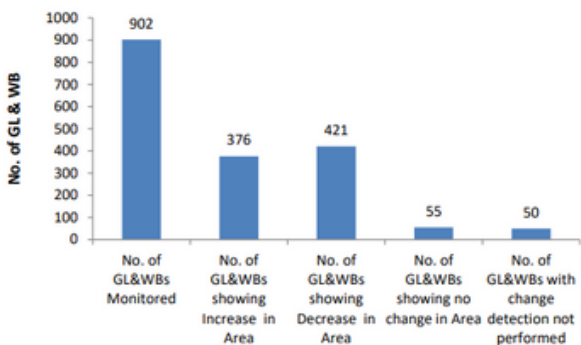
Monitoring of Glacial Lakes & Water Bodies October, 2023



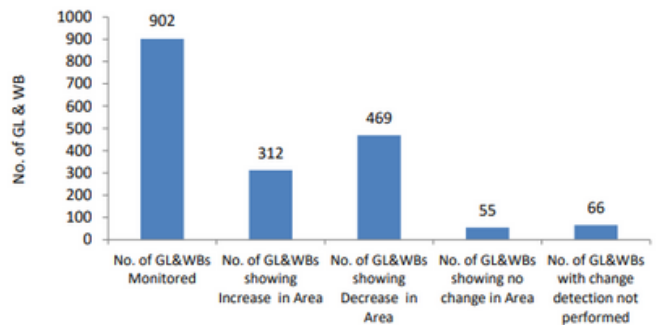
Monitoring of Glacial Lakes & Water Bodies September, 2023



Monitoring of Glacial Lakes & Water Bodies August, 2023



Monitoring of Glacial Lakes & Water Bodies July, 2023



Gallery



Shri Subodh Yadav, IAS, Joint Secretary (Admin, IC & GW), Ministry of Jal Shakti, Department of Water Resources, RD & GR today visited Bhomraguri (Tezpur), a GDSQ Site of CWC situated along the majestic River Brahmaputra.



17th Meeting of Technical Advisory & Review Committee Meeting (TARC) was held on 09.11.2023 to review the progress of work of Consultancy Services of Physical based Mathematical Modelling for Estimation of Sediment Rate and Sediment Transport in Seven (7) River Basins under the chairmanship of Sh. Manoj Tiwari, Chief Engineer (HSO), CWC.



The Mandatory Cadre training programme for CWES (Group - A) JTS Officers commenced yesterday at the National Water Academy, Central Water Commission, Pune.



The Mandatory Cadre training programme for CWES (Group - A) JAG Officers began today at National Water Academy, Central Water Commission, Pune with an Inaugural Function presided over by Dr. M. Gopalakrishnan, former Member, CWC & former Secretary General, ICID.

**“IF THERE IS MAGIC ON THIS PLANET,
IT IS CONTAINED IN WATER.”**

— LOREN EISELEY



Central Water Commission

An attached office of Dept. of Water Resources,
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Ministry of Jal Shakti, Govt. of India

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