



JALANSH

Volume 6 Issue No. 8 MARCH 2024

MESSAGE



Shri Kushvinder Vohra
Chairman, CWC

February, 2024 witnessed significant strides in bolstering India's water security through strategic agreements, technological advancements, and collaborative efforts aimed at resolving interstate water disputes and enhancing water resource management capabilities.

Heavy rainfall from Western Disturbances and the southwest monsoon between July 9th and 13th, 2023, caused severe flooding in Himachal Pradesh, Uttarakhand, Punjab, Delhi, and Haryana, especially in the Yamuna River catchment area. A committee was formed by the DoWR, RD&GR under my chairmanship for joint flood management study of river Yamuna for its reach between Hathnikund and Okhla Barrage. Several meetings were conducted with officials from various organisations, including the Governments of Haryana, NCT of Delhi, and UP, gathering firsthand experiences and insights. An interim report, based on data analysis, suggesting measures related to operation of the ITO barrage, warning and danger levels in Delhi, dismantling of temporary structures in the flood plains etc. has been finalized and forwarded to DoWR, RD&GR.

Another Committee was constituted in December 2022 under my Chairmanship regarding allocation of Yamuna water up to Okhla to the States of Uttarakhand and Uttar Pradesh in the share of erstwhile State of U.P. In the third meeting of Committee, I presented a proposal for allocation of water among the two States. After extensive deliberations the representatives of both the States agreed on the proposal. The report of agreement was forwarded to DoWR, RD&GR on 14.02.2024.

In the pursuit of enhancing water security in India, a significant agreement was reached between the governments of Haryana and

Rajasthan, facilitated by the Union Minister of Jal Shakti and CWC. This agreement, formalized through a Memorandum of Understanding (MoU), sets the stage for preparation of a Detailed Project Report (DPR) for transferring Yamuna water to water stressed regions of Rajasthan, such as Churu, Sikar, Jhunjhunu, and nearby districts for their drinking water needs. The Central Water Commission played a key role in bringing consensus between the two states for the joint preparation of the DPR.

I also took meetings to discuss and finalise the report on status of Harike barrage capacity and carrying capacity of initial unlined/lined reaches of Indira Gandhi Feeder.

Further, CWC continued to play a crucial role in resolving interstate water disputes. The First meeting of the Negotiation Committee on the Pennaiyar River Water Dispute, chaired by me, brought together stakeholders from four co-basin states (Karnataka, Tamil Nadu, Andhra Pradesh, and the Union Territory of Puducherry) to discuss mutual understanding and chart the way forward in addressing pertinent issues.

In the area of dam safety, CWC made a significant contribution during the month. Total 19 regulations were required to be prepared by National Dam Safety Authority (NDSA) under section 54(2). Thereafter, these are to be approved by National Committee of Dam Safety (NCDS) headed by Chairman, CWC. Out of 19, 14 regulations have been finalized and approved by NCDS upto Feb, 2024.

Continuing the spirit of cooperation, the CWC initiated a series of engagements with the Water Resources, Irrigation, and Jal Shakti Departments across all states and union territories. A state-level interaction meeting was held with the officers of WRD, Government of Odisha, where discussions included presentations on various activities conducted

by WRD, Odisha, and briefings on new initiatives by CWC in areas such as Urban flooding, Extended hydrological prediction modeling, Integrated reservoir operation, and flood forecasting.

Furthermore, a significant achievement was made in the partnership with the Danish Ministry of Environment, Government of Denmark. A MoU signed by Central Water Commission (CWC) with them paved the way for establishing a Center of Excellence (CoE) for Smart Water Resources Modeling in CWC itself. This CoE, envisioned as a comprehensive collaboration framework, aims to leverage expertise in water resources modeling activities of CWC.

In the domain of technological advancement, discussions with the Space Application Centre (SAC), ISRO, explored the potential use of satellite-based remote sensing observations for natural resource management. Recognizing the synergy between the works of the SAC and CWC, it was decided that two organisations may enter into a MOU for some of the critical activities of common interest.

I have initiated the process to review all ongoing PMKSY-AIBP and CADWM projects. In this regard series of meetings have been held including those in Feb, 2024. During the month, meetings focused on reviewing ongoing projects in Maharashtra. Detailed discussions were held on project status, progress, bottlenecks, likely

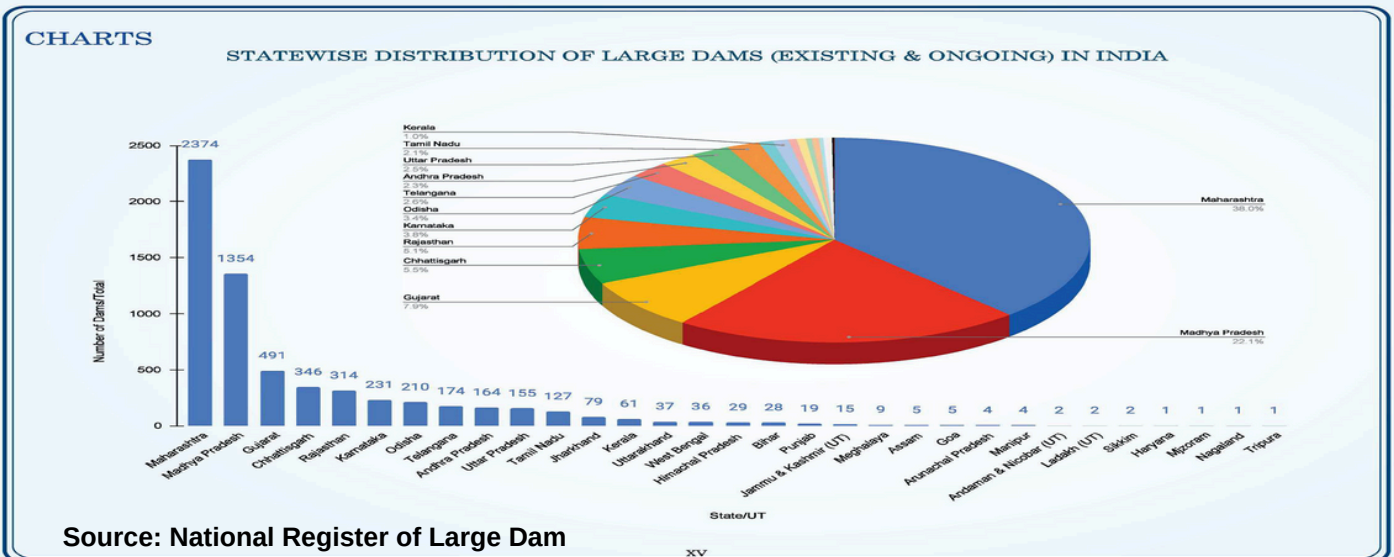
financial implications and the way forward to ensure completion by March 2026.

India Water Week, a biennial international event organized by the Ministry of Jal Shakti, Government of India, is a platform for discussing water development and management. The upcoming 8th edition, scheduled for 17–21 September 2024 at Pragati Maidan, New Delhi, focuses on the theme "Partnerships and Cooperation for Inclusive Water Development and Management." As the Chair, I led various meetings related to Technical Committee for the 8th India Water Week (IWW) to finalize sub-themes/topics to be covered and deadlines for the submission of technical papers by national and international experts.

We have initiated an exercise for updation of "Guidelines for Planning and Design of Piped Irrigation Network". I held discussions with all stakeholders including the World Bank on various aspects of Piped Irrigation Network. Draft guidelines are expected to be finalized soon.

In summary, these continued concerted efforts highlight the commitment of CWC to ensure sustainable water management and address critical water-related challenges facing the nation.

D. Mall



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ii. PMKSY-AIBP AND CAD&WM

- Meeting of the Committee for reviewing ongoing PMKSY-AIBP and CADWM projects of Maharashtra State
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iii. Other Activities

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FOREIGN DELEGATION

Establishing Centre of Excellence (CoE) for Smart Water Resources Modelling

A Memorandum of Understanding (MoU) between Central water Commission (CWC) and Danish Ministry of Environment, Government of Denmark was signed on 21.02.2024 for establishing Centre of Excellence (CoE) for Smart Water Resources Modelling. This MoU is an outcome of the Joint Statement on establishment of Green Strategic Partnership between the two countries, launched by Hon'ble Prime Minister of India and Hon'ble Prime Minister of Denmark in September, 2020. As a follow up of the Joint statement on Green Strategic Partnership, the declaration was made for establishment of Centre of Excellence (CoE) for Smart Water Resources Modelling.

Shri Kushvinder Vohra, Chairman, CWC & Ex-officio Secretary, Govt. of India and H.E. Freddy Svane, Ambassador, Royal Danish Embassy signed the MoU.

The CoE is to be established as an umbrella agreement aiming collaboration on all aspects of water modelling within the mandate of CWC. However, the following are the initial areas of priority:

- Modelling of river basin planning and management including groundwater and integrated operation of reservoirs.



- Flood forecasting with accurate inundation modelling.
 - Extended hydrological predictions modelling which may include effect of climate change.
 - GLOF model studies.
 - Design aspects of Water Resources Projects.
 - Integration of various aspects with river basin plans.
 - Software development with the aim of developing a suite of modelling tools at CWC being specifically tailored towards priority areas in India.
- The CoE shall transform latest knowledge and technology into innovative solutions and do an actual testing and confirmation along with support and advice on applied solutions ensuring long term sustainable and resilient solutions for the water resources sector in India.

MEETINGS REGARDING PROJECTS

Meeting regarding Pre- Feasibility Report on Ravi-Beas link



Chairman, CWC and Ex-Officio Secretary to Govt of India held a meeting to discuss progress of Pre-Feasibility Report (PFR) of Second Ravi Beas Link Project on 01.02.2024 as a follow up of the earlier meetings in this regard.

The meeting was attended by officers of WRD, Govt. of Punjab (GoP), Central Water Commission and other concerned organizations.

During the meeting, detailed discussions were held on the flood studies, design of barrage, B.C. Ratio & cost details of the project. Chairman, CWC directed officials from WRD, GoP to finalize the PFR in consultation with specialized directorates of CWC in respect of flood studies, design, cost and benefits of the project.

North Koel Project

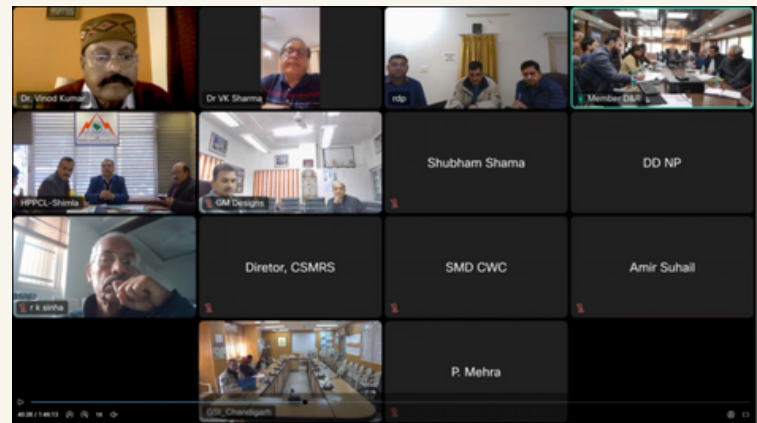
34th meeting of the Technical Evaluation Committee (TEC) for completing the balance works of North Koel Reservoir Project (NKP) was held on 05.03.2024 at CWC, New Delhi under the Chairmanship of Member (WP&P), CWC and Chairman (TEC), NKP. The officers from DoWR, CWC HQ & field units, State Governments 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, consideration of Tendering document for the work of "Earthwork, Repair, & Construction of Distribution Network (12 Nos. Minors) of Right Main Canal, Jharkhand, and its structures under North Koel Reservoir Project, Jharkhand & Bihar", Invoices submitted by WAPCOS and status of Shifting of electric poles from RMC etc.

Lakhwar multipurpose Project

Shri Sanjay Kumar Sibal, Member (D&R) chaired the meeting to discuss the issues related to Lakhwar multipurpose Project - Diversion Tunnel (DT3) Inlet Portal on 28.02.2024. Shri Vivek Tripathi, CE Designs(N&W), Shri S.K. Kamboj, Director, Gates (N&W) Dte, Shri N.S. Shekhawat, Director, HCD (N&W) Dte. and other officers from CWC, UJVNL, L&T attended the meeting. Discussions regarding placement of inlet portal, stability of slope provided between cofferdam and dam pit, instrumentation in underground structures, diversion tunnel plugs, factor of safety for calculating the safe bearing capacity etc. were made.

Renukaji Dam



Shri Sanjay Kumar Sibal, Member(D&R), CWC chaired the meeting to review the status of investigation work going on at Renukaji Dam site for further taking up the tender stage design and drawing works. The meeting was held on 14.02.2024 with the Panel of Geological Experts for Renukaji Dam Project, officers from CWC, CSMRS, GSI and HPPCL.

Polavaram Irrigation Project, Andhra Pradesh

Shri Sanjay Kumar Sibal, Member (D&R) attended the Review Meeting of Polavaram Irrigation Project on 06.02.2024 under the chairpersonship of Secretary, DoWR, RD&GR. In the meeting, status and way ahead of restoration of Diaphragm wall for GAP-II of ERCF dam, status and way ahead for repair of coffer dams, status of hiring of expert design agency, status of hiring of individual experts as an interim measure till the time the process for

hiring of the design agency is completed etc. were discussed.

Further, Shri Sanjay Kumar Sibal, Member (D&R) chaired the meeting to discuss CSMRS report on upstream coffer dam and various possible remedial measures to minimize seepage through upstream coffer dam with officials of CSMRS, PPA, WRD, GOAP, M/s MEIL and M/s AFRY India Pvt. Ltd. at CWC on 15.02.2024. The meeting was taken up as a follow-up on the decision taken during the internal meeting chaired by Secretary, DoWR, RD&GR, MoJS on 06.02.2024.

Moreover, the first meeting of the Committee constituted for evaluating and recommending International technical experts to be hired for Polavaram Irrigation Project (PIP) under chairmanship of Member(D&R) on 26.02.2024. Shri Shiv Nandan Kumar, Chief Executive Officer, PPA co-chaired the meeting. The meeting was attended by Dr. R. Chitra, Director, CSMRS, Shri Vijai Saran, Chief Engineer, Designs (NW&S), CWC, Shri Ramesh Chakravarthy Mukalla, Water Management Expert, World Bank, M. Raghuram, Member Secretary and other officers from CWC and PPA.

The meeting was done to shortlist individual international technical experts for PIP. These experts will provide consulting services as a stop-gap arrangement until PPA hires a regular design agency. The prime emphasis of the experts shall be to address the issues related to seepage from coffer dams, rockfill dam design, ground improvement of dam foundation, diaphragm wall, etc. In the meeting, Curriculum Vitae of the nine experts received from the World Bank was put forth before the committee for discussion and

shortlisting of experts for the project. The committee deliberated on each expert's bio data and evaluated their fields of expertise vis-à-vis the project's functional requirements. Based on the deliberations some suggestions regarding tenure, number of experts required, area of expertise etc. were also made by the committee.

Approval/vetting of design and drawings of KBLP

Shri Sanjay Kumar Sibal, Member (D&R) attended the meeting taken by Secretary, DoWR, RD&GR to discuss the opening of a design unit of CWC for the work of approval/vetting of design and drawings of KBLP on 19.02.2024. A MoU has already been signed between CWC and NWDA for providing DPR and construction stage design consultancy for various links proposed by NWDA during 2022-24 on 9th June, 2022. Ken-Betwa Link Project is also in the scope of MoU for construction stage design works.

KBLPA in its 5th meeting held on 19.10.2023 at Jhansi, has opined that a Design unit of CWC may be opened exclusively for the work of approval/vetting of design and drawings of KBLP pertaining to the execution of various components of KBLP viz. Daudhan Dam, Upper Level Tunnel, Lower Level Tunnel, Link Canal of 221 km with number of canal structures and other ancillary works by the KBLPA. In this regard, the meeting was done to discuss about the proposal for opening a design unit for the work of Ken-Betwa Link Project (KBLP) at Bhopal in CWC and to vet/finalise the key components of the projects at CWC HQ, New Delhi.

NDSA AND DRIP

Meeting to finalize the regulations prepared under section 54 (2) (a) and 54 (2) (k) of Dam Safety Act

Shri Kushvinder Vohra, Chairman CWC held a meeting to finalize the regulations prepared under section 54 (2) (a) and 54 (2) (k) of Dam Safety Act, 2021 on 14.02.2024 at his chamber. The two regulations 54 (2) (a) and 54 (2) (k) were deliberated in detail by Chairman, CWC along with Member(D&R), CWC, Chairman, NDSA and other officials of CWC and NDSA. During the discussions,

these two regulations were finalized with modifications suggested by Chairman, CWC. Chairman, CWC instructed Chairman, NDSA that these regulations may be put up in the next meeting of National Committee of Dam Safety (NCDS) for approval of the committee, so that same could be forwarded to Ministry for needful action at their end.

WEBINAR/WORKSHOP/TRAINING

Webinar on Dam Safety Aspect



Shri Kushvinder Vohra, Chairman (CWC) and Ex-Officio Secretary to the Government of India, inaugurated a two-day webinar series on "Dam Safety Aspects" organized by the National Water Academy, CWC.

During his inaugural address, Shri Kushvinder Vohra, Chairman (CWC) eloquently emphasized the pivotal role of water resource projects, particularly dams, in the developmental landscape of India. Drawing attention to the substantial investment in dam infrastructure and the ongoing Dam Rehabilitation and Improvement Project (DRIP), he

underscored the importance of Dam Safety. He elaborated procedure of the Dam Safety Act, 2021, which brings in uniform procedures and protocols on Dam safety throughout the country. He also stressed the need for continued efforts in sensitization of all stakeholders for dam safety aspects. He highlighted the importance of effective monitoring through instrumentation and use of geophysical methods for dam health monitoring. He gave examples of recent initiative in using non-intrusive methods to assess health of even earthen dam.

This webinar series consisting of 4 webinars covers essential topics such as the overview and implementation of the Dam Safety Act, aligning DRIP II and DRIP III with dam safety, emerging trends in instrumentation and monitoring of old dams. A vital aspect of the program is the emphasis on employing geophysical methods beyond visual inspections for dam health monitoring.

VISIT/INSPECTION

Joint Site Visit of Officers from CWC, GSI, CSMRS, Panel of Geological Experts and HPPCL to Renukaji Dam Site



A team comprising officers from CWC, GSI, CSMRS, HPPCL, Panel of Geological Experts and Member of Standing Expert (HPPCL) visited Renukaji Dam Project site from 21.02.2024 to 22.02.2024 for assessing the results of explorations and studies done recently. During the visit, team visited inlet and outlet portal of diversion tunnel, upstream coffer dam axis, main dam axis, drifts excavated in left and right abutments, downstream coffer dam, took a bird eye view of spillway, intake and power house region proposed on left abutment and inspected borehole logs of recently drilled bore holes. Further, a meeting was held on 22.02.2024 after visiting the project components to discuss the geological exploration already done and suggestions/recommendation on further investigation requirements.

Visit of the NDSA Committee to examine the effect of GLOF in Teesta River on the various HEP's Projects

Shri S.K. Sharma Director, BCD (E&NE) along with committee members visited various HEP projects situated in Teesta Basin namely Teesta III, Teesta IV, TLDP III, TLDP IV etc. from 28.02.2024 to 03.03.2024 to examine the effect of GLOF in Teesta River on the various HEP's Projects.

Joint Visit of CWC and Anandapur Barrage Project officials to IRI Roorkee



A joint visit of CWC officials and ABP officials was made to examine the model vis-à-vis present site conditions of prototype and to determine future course of action to ensure safety of Anandapur Barrage on 07.02.2024 at IRI Roorkee.

Monitoring Visit to Upper Tunga Project, Karnataka



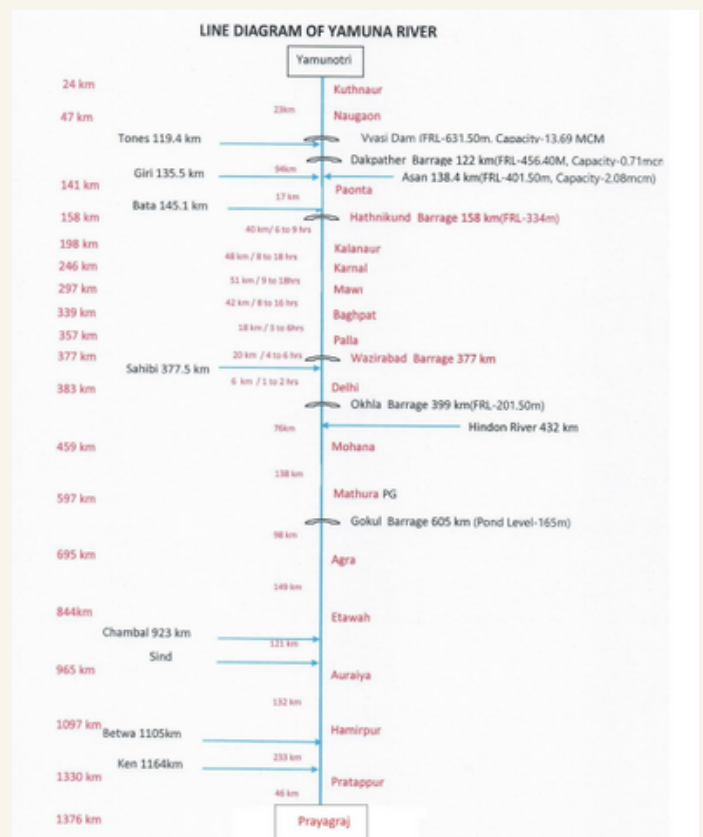
A team of officers from MSO, CWC, Bengaluru headed by Dr. J Harsha, Director (Mon) and accompanied by Shri Pratap Shelke, Dy. Director (Mon) conducted monitoring visit to Upper Tunga Project, Karnataka under PMKSY-AIBP & CADWM from 13th – 16th Feb 2024.

OTHER IMPORTANT ACTIVITIES

1. FLOOD AND RELATED ISSUES

Interim Report of the Committee On "Joint Flood Management Study of River Yamuna for its reach between Hathnikund and Okhla Barrage"

Heavy rainfall caused by Western Disturbances and the southwest monsoon between July 9th and 13th, 2023, led to extensive flooding in Himachal Pradesh, Uttarakhand, Punjab, Delhi, and Haryana, particularly in the catchment area of the Yamuna River. The resulting high runoff and discharge caused rapid rises in the Yamuna's water levels, triggering landslides and floods in both hilly and plain areas. This event prompted a reevaluation of flood management along the Yamuna, leading to the formation of a committee by the Department of Water Resources, RD&GR. The committee, headed by the Chairman of the Central Water Commission, was tasked with studying flood management from Hathnikund Barrage to Okhla Barrage. The committee held meetings with the officials from Government of Haryana, Government of NCT



of Delhi, Govt. of UP and other organizations who provided their inputs and shared their first-hand on ground experience in this regard. After analysis of collected data an interim report was prepared by the Committee in this regard. Recommendations from the interim report include operating the ITO barrage with all gates open during floods, reviewing warning and danger levels in Delhi, and dismantling temporary structures along the river promptly. Further analysis and recommendations will be detailed in the final report, addressing aspects like floodwater storage sites and embankment strengthening.

2nd 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, CWC chaired the 2nd 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 on 29.02.2024 in hybrid mode. Shri Sanjay Kumar Sibbal, Member(D&R), Shri Goverdhan Prasad, Director, Hyd(N) dtc, Shri N.S Shekhawat, Director, HCD (N&W) dtc and other officers from CWC, WRD, Punjab UKSDMA, Uttarakhand, IRI, Uttarakhand, BBMB, HPPCL, SJVN, NHPC, NWIC, JSV Himachal Pradesh, CWPRS, IMD, NRSC, JSW Energy, NIH attended the meeting. The proceedings of the meeting started with status of Action Taken Report on various tasks which were assigned to various State Governments Departments/organisations during the first meeting of committee held on 21.11.2023. The discussions and deliberations under the each task assigned during the first meeting along with its action taken/status were discussed. After deliberations on Action Taken Report by different organizations on tasks assigned to various organization, Chairman, CWC and chairman of the committee assigned other tasks to various organization in order to accomplish first three ToRs of the Committee.

2. PMKSY-AIBP AND CAD&WM

Meeting of the Committee for reviewing ongoing PMKSY-AIBP and CADWM projects of Maharashtra State



A Committee was constituted for reviewing of 99 prioritized ongoing PMKSY-AIBP and CADWM Projects included in 2016-2017 by DoWR, RD & GR under the Chairmanship of Chairman, CWC & Ex-Officio Secretary to the Govt. of India. In this connection, the 5th meeting of the committee was held on 10.02.2024 to review the ongoing PMKSY-AIBP and CADWM projects of Maharashtra at Sewa Bhawan, New Delhi under the Chairmanship of the Chairman, CWC & Ex-officio Secretary to the Govt.

of India.

In the meeting, detailed discussions were held on the status/progress/bottlenecks/way forward etc; which are delaying the completion of the projects by March-2026. The Chairman, CWC emphasized that these projects should be completed within the approved cost and all efforts should be made to resolve all the issues including bottlenecks, so that, these projects could be completed within stipulated time frame. The meeting was held both in physical mode and virtual mode. Dr. Sanjay Belsare, Secretary (Project Co-ordination), WRD, Maharashtra & Senior Officers along with officials from WRD, Government of Maharashtra attended the meeting. CWC Officers from the field organizations of MCO, Nagpur, Commissioner (CAD) & SJC (SPR) DoWR, RD & GR and officers/officials from CWC HQ also attended the meeting. In this meeting Eight (08) ongoing PMKSY-AIBP projects along with their CADWM were reviewed and realistic date of completion the projects were ascertained and further Six (06) projects deferred for discussion in the next meeting due to shortage of time/inadequate information.

2nd follow up meeting of Working Group for reorientation of PMKSY-AIBP and CADWM Scheme

The 2nd follow up meeting of Working Group for reorientation of PMKSY-AIBP and CADWM Scheme was held under the chairmanship of the Member (WP&P), CWC on 06.02.2024 in Sewa Bhawan, New Delhi.

In the meeting, the inputs received from the CADWM wing has been included in the Report of the Working Group for Re-orientation of Pradhan Mantri Krishi Sinchayee Yojana - Accelerated Irrigation Benefit Programme (PMKSY-AIBP) and Command Area Development & Water Management (CAD&WM) and same was circulated to the Members of the committee for their observations.

3. OTHER ACTIVITIES

Meeting with IWRD, Haryana

Shri Kushvinder Vohra, Chairman, Central Water Commission and Ex-Officio Secretary to the Govt of India held a meeting with officers of Irrigation and Water Resources Department, Government of Haryana on 02.02.2024 regarding modalities for carrying Rajasthan share of Water from Yamuna (upto Okhla). The Meeting was also attended by officials from UYRB and senior officers from CWC.

Detailed discussions were held regarding modalities. Data analysis presented by CWC was broadly agreed by officials from Haryana. It was decided that further modalities in this regard would be discussed in another meeting.

The 2nd Meeting of the Technical Committee of 8th India Water Week



Shri Kushvinder Vohra, Chairman, Central Water Commission and Ex-Officio Secretary to the Govt of India chaired 2nd Meeting of the Technical Committee of 8th India Water Week (IWW) on 05.02.2024. IWW is a 5-day International event organized biennially by DoWR, RD & GR, Ministry of Jal Shakti, Govt. of India. The 8th IWW is scheduled to be held during 17– 21 September 2024 at Pragati Maidan, New Delhi on the theme "Partnerships and Cooperation for Inclusive Water Development and Management"

The Meeting was attended by officials from NWDA, NMCG, NITI Ayog, NHPC, CSMRS, CGWA, NIH, ICID, NWM, CPCB, WTC-IARI, MOEF&CC, Council on Energy, Environment and Water, India Water Foundation, World

Bank, Indian Chamber of Commerce and senior officers from CWC.

Chairman, CWC gave number of suggestions on topics to be covered under Sub themes. After deliberations Technical Committee finalised sub themes/ Topics to be covered. Time line for submission of Technical Papers by National/ International Expert were also finalised.

Meeting regarding "Guidelines for Planning and Design of Piped Irrigation Network"



Shri Kushvinder Vohra, Chairman, Central Water Commission & Ex-Officio Secretary to the Government of India held a meeting on 09.02.2024 regarding "Guidelines for Planning and Design of Piped Irrigation Network". The meeting was attended by Member (WP&P) and other senior Officers of CWC. A presentation was made by Mr. Clark from World Bank on various aspects of Piped Irrigation Network covered under these guidelines.

After detailed deliberations, Chairman CWC issued directions regarding constitution of a committee headed by Chief Engineer (POMIO) which would steer the work related to updating the Guidelines for Planning and Design of Piped Irrigation Network. Other concerned organizations of CWC would provide detailed inputs related to Piped Irrigation Network. Draft guidelines to be finalized by 25th March, 2024 for consideration at higher level.

Assessment of Indirect/Intangible benefit due to Irrigation Projects in its Command/Vicinity area



Shri Kushvinder Vohra, Chairman, Central Water Commission and Ex-Officio Secretary to the Govt of India held a meeting with officials of National Council of Applied Economic Research (NCAER), New Delhi on 07.02.2024 regarding Assessment of Indirect/Intangible benefit due to Irrigation Projects in its Command/Vicinity area.

The meeting was attended by senior officers of various organisations from CWC (HQ) and officials of NCAER. A presentation in this regard was made by NCAER officials.

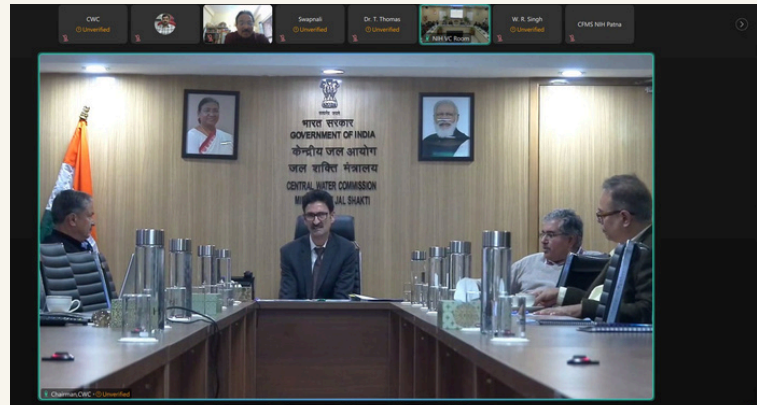
Chairman, CWC mentioned that at present, only direct benefits are being taken into account in the benefit-cost ratio of Irrigation Projects for establishing techno-economic viability of projects. There are huge intangible/in-direct benefits that come up in the vicinity of projects which are not being assessed so far. The present study is required to develop an assessment framework for measuring the overall benefits (Tangible and Intangible both) of the project.

After detailed discussions, various suggestions were made and NCAER was requested to submit a concept note for detailed study proposal at the earliest.

The 77th meeting of the Technical Advisory Committee of the National Institute of Hydrology (NIH)

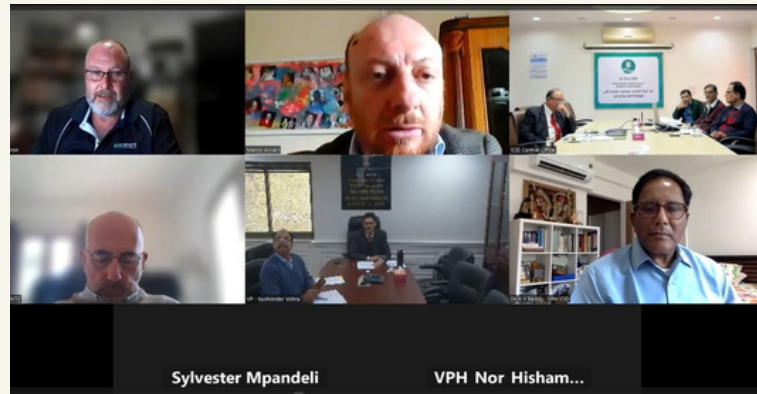
The 77th meeting of the Technical Advisory Committee of the National Institute of Hydrology (NIH) was convened under the chairmanship of Shri Kushvinder Vohra, Chairman, Central Water Commission and ex-officio Secretary to the Government of India.

The meeting was held in a hybrid mode, with participants joining both in-person at the Society



room of NIH-Roorkee and remotely. Director, NIH provided a brief overview of NIH-Roorkee and introduced the institute's work program for the fiscal year 2023-24. The Chairman suggested that the institute should adopt a collaborative approach with CWC and the Central Ground Water Board (CGWB) for the future studies. Additionally, it was recommended to explore the development of a summary of Hydrological studies to prevent duplication of similar research efforts.

Meeting of Task Force to Guide ICID Inputs to 10th World Water Forum



A meeting of the Task Force to guide ICID Inputs to the 10th World Water Forum was held on 8th February 2024 in the virtual mode. Shri Kushvinder Vohra, Chairman (CWC) & Chairman (Indian National Committee on Irrigation & Drainage) is one of the Vice-Presidents of ICID. Shri Rishi Srivastava, Chief Engineer (EMO), CWC and Member Secretary (INCID) attended the meeting of the Task Force as an 'Observer'. During the meeting, ICID informed that ICID has asked for running 3 sessions on A) Smart Water Management, B) Water, Food, and Energy Nexus, and C) Promotion of Women's Role in Water Management under Sub-themes 1) Water Security and Prosperity, 2) Disaster Risk Reduction and Management and 3) Governance Cooperation and

Hydro-diplomacy but so far no positive response has been received from WWF10 headquarters in spite of several follow-ups. The importance of the 10th World Water Forum as an international event, from which ICID could take benefit to present its strong position in the water sector to the world, was also highlighted during the meeting. The plan to present ICID within the exhibition by demonstrating its activities and achievements was also discussed. The members of the Task Force shared about the possible contributions during the various sessions of the World Water Forum.

Further, Shri Kushvinder Vohra, Chairman CWC & ex-officio Secretary to Govt of India and Vice President, ICID participated in an online meeting of Task Force to discuss Long Term Financial & Technical Sustainability of ICID on 12.02.2024. President ICID, various Vice Presidents of ICID, and Secretary General, ICID also attended the meeting. Various aspects of Financial and Technical Sustainability of ICID were deliberated upon.

Other than the financial viability, it was also felt that ICID should also deal with more recent challenges such as: Climate Change, dams, canal networks, hydrological, structural and hydraulic analysis and modeling for yield prediction and service delivery, asset management and upkeep technologies for the hardware components etc.

The First meeting of the Negotiation Committee on Pennaiyar River Water Disputes



The First meeting of the Negotiation Committee on Pennaiyar River Water Dispute was convened on 21.02.2024 under the Chairmanship of Shri Kushvinder Vohra, Chairman Central Water Commission and Ex-officio Secretary to the Government of India. The meeting was attended by the representatives from the four co-basin States of Karnataka, Tamil Nadu, Andhra Pradesh and Union Territory of Puducherry, Ministry of

Environment & Climate Change, Ministry of Agriculture & Farmers' Welfare and NIH Roorkee. Besides, Member (WP&P), CWC; Chief Engineer, HSO; Chief Engineer, IMO as Member Secretary; Director, Hydrology-South Directorate and Director, ISM-1 Directorate from Central Water Commission were also present in the meeting.

Representatives from the co-basin States and other members of the Committee have presented their views before the Committee on the issue of Pennaiyar River Water Dispute. After hearing views of the Committee members and detailed discussion on the issue, Chairman of the Committee has suggested that for better understanding of the issues involved in the matter and to address the Terms of Reference of the Committee, a memorial / report containing a set of requisite information and data would be essentially required from all the four co-basin States. Basin States agreed to furnish requisite information within 15 days.

State-Level Interaction with Officers of WRD, Government of Odisha



Shri Kushvinder Vohra, Chairman, CWC along with the team of officers from CWC headquarter and CWC regional office, Bhubaneswar held a State-Level Interaction with officers of WRD, Government of Odisha on 23.02.2024 at Bhubaneswar. Regional Director, CGWB, Bhubaneswar also participated in the meeting. The Odisha State delegation was led by Mrs. Anu Garg, Development Commissioner cum Additional Chief Secretary, WRD, Govt of Odisha.

WRD, Odisha gave a detailed presentation of various activities being carried out by them. They highlighted the progress of major and medium irrigation projects, surface minor irrigation schemes and RRR of water bodies. They also

highlighted the new initiative taken for effective rehabilitation and resettlement of project displaced people. Various activities undertaken for flood management and progress of various activities required under Dam Safety Act-2021 were also presented.

Chairman, CWC also briefed about the new initiatives taken by CWC in the field of Urban flooding, Extended hydrological prediction modelling, Integrated reservoir operation and new activities in the field of flood forecasting. He highlighted that CWC has started 7 days advisory and soon will start inundation forecasting. He also demonstrated "Floodwatch", a mobile app developed in-house by CWC and can be used to disseminate information about the flood situation in the country. He also mentioned about CWC's vision of undertaking new activities in the area of coastal management in consultation with the States

Detailed discussions were held about various projects submitted by the State in CWC for appraisal. Discussions were also held about the design consultancy requirement of the State. The State of Odisha was also sensitized about preparation of Emergency Action Plan for all the specified dams within the stipulated timeline. Chairman, CWC asked WRD officials to nominate more officers in the M-Tech Courses in the field of dam safety at IIT-Roorkee and IISc Bangaluru. Further, he also pointed out that NWA, Pune has developed expertise in imparting training in various fields related to Water sector and more number of officials from WRD, Odisha should take advantage of it.

The outcome of the interaction was appreciated by ACS, WRD Odisha.

Preparation of DPR of the Project for Transferring Yamuna Water to Rajasthan

The supply of Yamuna water to the areas in Churu, Sikar, Jhunjhunu and other districts of Rajasthan for ensuring drinking water supply and other needs was conceptualized by Rajasthan.

Upper Yamuna Review Committee advised the State of Rajasthan in its 7th meeting held on 15.02.2018 for preparing of DPR for the project for transferring Yamuna water and its utilization in the said districts through underground pipelines.



Central Water Commission and Upper Yamuna River Board played a significant role under the guidance of DoWR, RD&GR and Hon'ble Minister of Jal Shakti in bringing consensus between the party States for preparation of DPR of the project jointly by the Govt. of Haryana and Rajasthan.

Shri Gajendra Singh Shekhawat, Hon'ble Union Minister of Jal Shakti held detailed discussions with the Hon'ble Chief Ministers of Haryana and Rajasthan on 17.02.2024 and thereafter, a Memorandum of Understanding (MoU) in this regard were signed among the States.

Meeting with Space Application Centre (SAC), ISRO



Shri Kushvinder Vohra, Chairman, CWC and Ex-officio Secretary to Govt. of India held a meeting in CWC with officials of Space Application Centre (SAC), ISRO, Ahmedabad on 16.02.2024. In the meeting, Dr. Praveen Kumar Gupta, Head, Land Hydrology Division, SAC, ISRO made a brief presentation on the possible usage of space-borne remote sensing observations for natural resources management in India. Dr. Gupta presented the recent developments in the field of hydrology and water resources at SAC. Some major developments include:

1. Country's wetlands / water bodies geospatial database on 1:12500 scale.
2. Operational Spatial flood forecasting for Brahmaputra river basin.

3. Monitoring of River / Reservoirs water levels including trans-boundary rivers using satellite altimetry, etc.

It was also discussed that satellite technology and model based estimation could be very useful for complementing in-situ observations and also monitoring remote and trans-boundary locations. SAC mentioned that they would be needing various data observed by CWC (such as river discharge, water levels, etc.) for training the model(s) and some test sites may be identified where SAC (ISRO) and CWC can jointly work, in this regard. SAC also mentioned that at present satellite revisit period is

about 21 days, which can be reduced through providing constellation of satellites, for which the request has to come from the user department, i.e. CWC in this case.

CWC mentioned that in addition to Flood Forecasting and Water bodies levels / volumes, they would also be interested in glacial lake crest levels and volumes. CWC emphasized on the need of capacity building in processing various space-borne products / techniques.

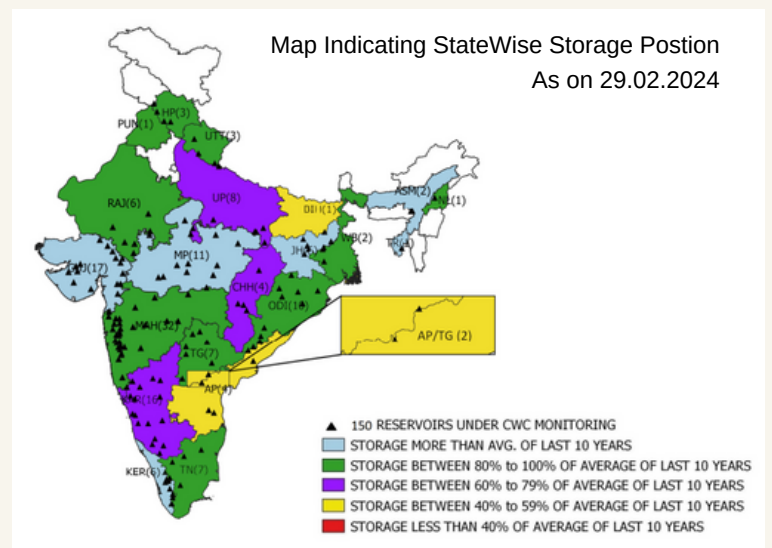
Chairman, CWC proposed that a no-cost MoU between SAC and CWC can be formalised in the identified areas. SAC readily agreed with the proposal.

4. RESERVOIR MONITORING

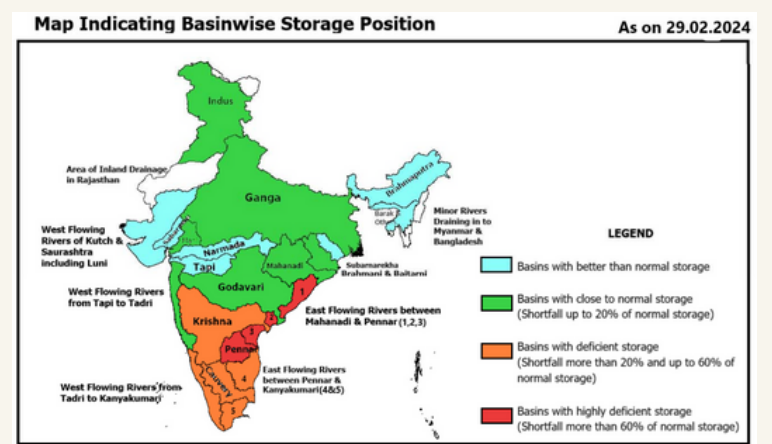
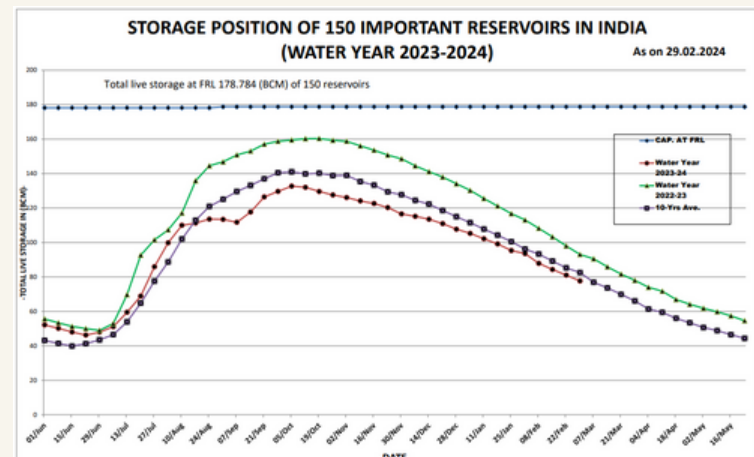
Reservoir Monitoring

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 29.02.2024, live storage available in these reservoirs is 77.399 BCM, which is 43% of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was 92.779 BCM and the average of last 10 years live storage was 82.239



BCM. Thus, the live storage available in 150 reservoirs as per 29.02.2024 Bulletin is 83% of the live storage of corresponding period of last year and 94% of storage of average of last ten years.



Gallery



Sh. N.N.Rai, Director, Hydrology(N.E) Dte visited Sikkim from 27.02.2024 to 03.03.2024 as part of Committee constituted under former Chairman, CWC Shri R.K. Jain to study the reasons for GLOF event in Teesta river



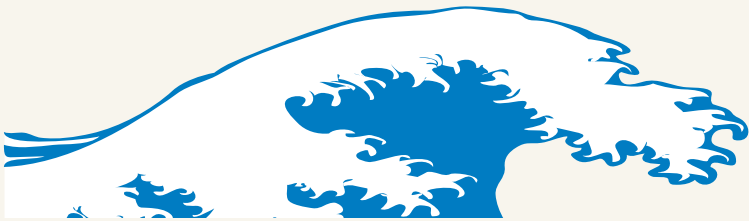
दिनांक 28.02.2024 को नगर राजभाषा कार्यान्वयन समिति, गांधीनगर के सहयोग से माही व तापी बेसिन संगठन, केन्द्रीय जल आयोग, गांधीनगर द्वारा “जल संसाधन प्रबंधन में केन्द्रीय जल आयोग की भूमिका” पर व्याख्यान कार्यक्रम का आयोजन मुख्य अभियंता, माही तापी बेसिन संगठन, केन्द्रीय जल आयोग, गांधीनगर की अध्यक्षता में संपन्न हुआ।



Shri P.M. Scott Member(RM), CWC made an inspection visit to GDSQ site Ayodhya on 25.02.2024. He was accompanied by Sh. B.K. Karjee, CE (FMO), Shri Amrish Pal Singh, Dir(M&A) Lucknow, Shri Sudhir Kumar, SE(HOC) Dehradun, Shri Ashish Awasthi, EE(MGD-1) Shri Sarabjit Singh EE MGD-II and other officers of UGBO during the visit.



The first meeting of Mahadaayi Prawah was held at Goa on 13th Feb 2024 under the Chairmanship of Shri. P M Scott, Chairperson, M- Prawah, whereby the party States- Goa, Karnataka & Maharashtra were in presence.



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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Designed & Published by

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