

Message

As we commemorate the 78th year of the Central Water Commission's (CWC) impactful service, it is with great pride that I reflect upon our journey from our inception as the Central Waterways, Irrigation and Navigation Commission (CWINC) on 05.04.1945, under the guidance of Shri B.R. Ambedkar. Evolving into the Central Water Commission, we have played a pivotal role in India's water resource management landscape, exemplifying a legacy of remarkable achievements.

Our responsibility, steadfastly upheld over these years, involves the initiation, coordination, and advancement of water resource schemes in collaboration with State

Shri Kushvinder Vohra
Chairman, CWC

Governments. This encompasses critical areas such as flood control, irrigation, navigation, drinking water supply, and waterpower development. With our role ranging from investigations to the execution of essential projects, our contribution is nothing short of crucial.

An embodiment of our commitment is evident in the Polavaram Irrigation Project, declared a National Project, currently underway on the Godavari River. This venture has seen three pivotal meetings held this month, with one chaired by the Secretary, DoWR, RD&GR, and two under my guidance. These meetings aimed to provide technical expertise while addressing multifaceted matters including land acquisition, resettlement and rehabilitation work, submergence issues in neighboring states, and allocation of funds etc. The project's expenditure of Rs 20,766.59 Cr until November 2022, coupled with a reimbursement of Rs 14,418.39 Cr by the Government of India to the Government of Andhra Pradesh, underscores the significant progress achieved.

Enacted by Parliament, the Dam Safety Act, 2021, effective since December 30, 2021, focuses on surveillance, inspection, and safe operation of specified dams to prevent failures and related disasters. The act led to the formation of the National Committee on Dam Safety (NCDS), chaired by the CWC Chairman, and the National Dam Safety Authority (NDSA), with the current Chairman of NDSA being the Member(D&R). A meeting of NCDS was held on 06.04.2023 where the proposed composition of two sub-committees namely, Structural Engineering and Earthquake Safety of Dams and Capacity Development were finalized.

The first Meeting of the Committee led by me for conducting Joint Detailed Technical Study to formulate an integrated plan to combat threat of erosion posed by Ganga- Padma River System in West Bengal took place on 06.04.2023 at Sewa Bhawan, New Delhi. The committee received comprehensive insights from key authorities, including perpetual river erosion, shifting Ganga River edge, overview on study on Flood and Siltation, and past studies. The wealth of information shared underscores the multidimensional challenges faced by the Ganga-Padma River System, providing a foundation for collaborative efforts towards effective solutions.

A "Treaty concerning the Integrated Development of the Mahakali River, including Sarada Barrage, Tanakpur Barrage and Pancheshwar Project" was signed between India and Nepal in February 1996. In accordance with Pancheshwar Multipurpose Project (PMP) is to be developed on Mahakali River bordering Nepal and India. A meeting under my chairmanship was held on 11.04.2023. The meeting involved a review of progress on the PMP implementation, and directions were given for further action on updated hydrology studies by the D&R wing based on submissions from WAPCOS.

Much more works are in progress in CWC which I shall be sharing with you in subsequent editions.

Shri Kushvinder Vohra

CONTENTS

- Discussion on Issues in Polavaram Irrigation Project
- Discussion on the Issues Related to DRIP-II Scheme and NDSA
- 3rd meeting of the Organizing Committee for 25th Congress & 74th IEC of ICID to be held at Visakhapatnam, Andhra Pradesh
- Discussion and Finalisation of the Proposed Composition of Two Sub-Committees of National Committee on Dam Safety (NCDS)
- First Meeting of the Committee for conducting Joint Detailed Technical Study to formulate an integrated plan to combat threat of erosion posed by Ganga- Padma River System in West Bengal
- Reference from Shri Bhagwant Mann, Chief Minister, Punjab to include Punjab as the beneficiary of Sharda Yamuna Link Project
- Follow-up meeting with SDSOs of the States by NDSA
- India-Nepal Pancheshwar Multipurpose Project (PMP)
- Discussion on Issues Related to Expert Level Mechanism between India and China
- Discussion regarding various issues of DRIP Phase II and implementation as well as Dam Safety Act 2021
- Meeting on Dam Safety Act
- Sixth Meeting of Steering Committee on Indus Water Treaty (IWT)
- Conduct of Census for Major Medium Irrigation Projects
- Discussion in the Problems related to the implementation of DRIP in Uttar Pradesh
- 2nd meeting of Working Group for Reorientation of PMKSY-AIBP and CADWM Scheme
- Meeting with IIT Roorkee
- Enable, Plan, Invest, and Control (EPIC) Response Framework on Flood and Drought Management
- Meeting on Levy of Water Cess by the State of Himachal Pradesh on Hydro Power Projects
- South Asia Drought Monitoring System (SADMS) developed by IWMI
- Meeting with IISc Bangalore for establishment of CoE
- Meeting Regarding Project
- Situational report of dam incidents/failure



Some glimpses of Nadi Utsav 2023 organized in Odisha by Mahanadi and Eastern Rivers Organization, cwc, Bhubaneswar under the Azadi ka Amrit Mahotsav

Meetings

Discussion on Issues in Polavaram Irrigation Project

Polavaram Irrigation Project (National Project) is being executed on River Godavari near Ramayyapeta village of Polavaram Mandal, West Godavari District, Andhra Pradesh. This multipurpose major project envisages construction of an earth cum rockfill (ECRF) dam along with saddle earth dams, a spillway, irrigation tunnels, navigation tunnel and channel and two main canals on both flanks to create ultimate irrigation potential of 4.36 Lakh Ha. The project also envisages generation of 960 MW of hydropower, drinking water supply to 540 villages and diversion of 84.7 thousand million cubic feet (TMC) of water (including losses) to Krishna basin. Cost of project as per RCC is Rs. 29027.95 Cr at 2013-14 PL [for quantities as per 1st RCE (2010-11)] and Rs. 47725.74 Cr at 2017-18 PL [for revised quantities as per 2nd RCE (2017-18 PL)]. Total Progress of the Project (including Works, LA and R&R) is 48.11 % as on December 2022. Total expenditure incurred on the Project since inception is Rs 20766.59 Cr (16,035.88 Crores under NP) upto 30.11.2022. Total amount reimbursed by Government of India to GoAP after the project is declared as National Project is Rs. 14418.39 Cr. upto March 2023.



To a greater extent, Shri Pankaj Kumar, Secretary, DoWR, RD&GR took a meeting to review the status of Polavaram Irrigation Project on 10.04.2023. The meeting was attended by Shri Kushvinder Vohra, Chairman, CWC with other officials of CWC, senior officials of DoWR, RD&GR, WRD, Govt of Andhra Pradesh and PPA. During the meeting, a range of issues including land acquisition, R&R work, technical issues, submergence in neighbouring states, funds etc were discussed. The progress of the project was also reviewed and it strove to find ways to expedite the schedules.

The third 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 03.04.2023 at New Delhi. The meeting was attended by Senior Officials of Central Water Commission, Polavaram Project Authority, Secretary and Engineer-in-Chiefs of the concerned states. Deliberations took place on a range of technical issues including design flood and backwater effect of Polavaram Project. The meeting attempted to address the key concerns of the party states and to converge on a way forward.

Another meeting on 26.04.2023 under the chairmanship of Shri Kushvinder Vohra, Chairman, CWC & Ex-Officio Secretary to Government of India was held at New Delhi to discuss various design & construction issues in respect of Polavaram Irrigation Project. The meeting was attended by Shri S.K. Sibal, Member(D&R), other senior officials of Central Water Commission, Polavaram Project Authority and Engineer-in-Chief of Andhra Pradesh, Polavaram Project Authority, WRD, Government of Andhra Pradesh, WAPCOS and other concerned agencies involved in design and construction of the Project. Discussion held on a range of technical issues including upstream coffer dam, design & construction schedule of ECRF dams of Polavaram Irrigation Project.

Discussion on the Issues Related to DRIP-II Scheme and NDSA

Meetings under the chairmanship of Secretary, DoWR, RD & GR were held on 03rd and 04th April 2023 at New Delhi. The meeting was attended by Shri Kushvinder Vohra, Chairman, CWC, Shri S.K. Sibal, Member(D&R) and officers of CWC and NDSA. In the meeting,

discussion took place on various agenda points related to Dam Rehabilitation and Improvement Project (DRIP), Phase-II and issues related with National Dam Safety Authority(NDSA). The officials from Ministry, CWC and World Bank participated in the meeting.

3rd meeting of the Organizing Committee for 25th Congress & 74th IEC of ICID to be held at Visakhapatnam, Andhra Pradesh

The third meeting of the Organizing Committee for the 25th Congress and 74th IEC of ICID was held under the chairmanship of Shri Kushvinder Vohra, Chairman CWC/INCID on 05.04.2023 in the hybrid mode. The meeting was attended by Officials from CWC, INCID, ICID, NWDA, WAPCOS, and the Govt of Andhra Pradesh. The Committee discussed various crucial issues pertaining to Venue finalization, Schedule, Committees for the event, Exhibition, Sponsorship arrangement etc. During the meeting, the Organizing Committee discussed the day-wise and venue-wise schedule for the Congress and IEC, covering upto 6 International Workshops and 8 Side Events along with the INCID Special Session and ICID Symposium. The Committee finalized the charges for the Exhibition stall as well as the priority stalls and the early bird deadline. The committee also discussed and finalized the details of the Sponsorship arrangement for the event, under 3 classes: Platinum, Gold & Silver. After detailed



deliberations, the Organizing Committee also seconded the composition and scope of the 12 committees for the management of the 25th Congress and 74th IEC. These committees will work under the overall guidance of the Organizing Committee. The Committee also discussed the issues pertaining to the receiving of foreign currency from the Registrations and the payment of the GST.

Discussion and Finalisation of the Proposed Composition of Two Sub-Committees of National Committee on Dam Safety (NCDS)

A meeting was held under the Chairmanship of Shri Kushvinder Vohra, Chairman, CWC & Chairman, National Committee on Dam Safety (NCDS) in hybrid mode on 06.04.2023 to discuss and finalise the proposed composition of two sub-committees of NCDS namely, Structural Engineering and Earthquake Safety of Dams, and Capacity Development for their constitution. The meeting was attended by Shri S.K. Sibal, Member(D&R), CWC & Chairman, NDSA & two specialist Members of the NCDS and Chief Engineer, DSO, CWC & Member Secretary, NCDS.



First Meeting of the Committee for conducting Joint Detailed Technical Study to formulate an integrated plan to combat threat of erosion posed by Ganga- Padma River System in West Bengal

The first Meeting of the Committee for conducting Joint Detailed Technical Study to formulate an integrated plan to combat threat of erosion posed by Ganga-Padma River System in West Bengal was held under the Chairmanship of Shri Kushvinder Vohra, Chairman, CWC on 06.04.2023 at Sewa Bhawan, New Delhi. The meeting was attended by Shri S.K. Sibal, Member (D&R) along with Shri N.N. Rai, Director, Hydrology (South) Directorate and Shri Goverdhan Prasad, Director, Hydrology(N). Shri B. Mukherjee, Joint Secretary (Works), I&W Directorate, Govt of West Bengal made a presentation informing the Committee on the issues relating to perpetual river erosion along banks of river Ganga/Padma in upstream and downstream of Farakka



barrage. Additionally, Shri Anil Kumar, Chief Engineer, Flood Control and Drainage, Katihar, WRD, Government of Bihar made a presentation about the gradual shifting of river edge of Ganga river with time. Dr Pratap Singh,

Vice President, RMSI Pvt Ltd gave an overview on the Study carried out in 2021 under National Hydrology Project (NHP) on the issue of Flood and Siltation in River Ganga and its Tributaries due to Farakka Barrage in the State of Bihar. Dr R.S. Kankara, Director, CWPRS

made a presentation on the overview of past studies carried out on Ganga-Padma River System using physical modelling along with analysis of satellite imageries. The findings of the study were also presented.

Reference from Shri Bhagwant Mann, Chief Minister, Punjab to include Punjab as the beneficiary of Sharda Yamuna Link Project

A meeting under chairmanship of Member(WP&P), CWC was called on 11.04.2023 at Sewa Bhawan, New Delhi to discuss issues raised by Chief Minister of Punjab in his reference dated 24.02.2023 addressed to Hon'ble Minister of Jal Shakti. In the meeting, DG (NWDA), Commissioner (Indus) along with senior officers from CWC participated.

During discussion, it was observed that Yamuna is a

deficit basin in its upper reach upto Okhla Barrage & Sharda sub-basin is not a surplus and the proposed transfer of water through Sharda-Yamuna Link is possible only after existing demand of command of Sharda Sahayak Pariyojna is met through proposed Gandak-Ganga Link and demand of part command of Sharda Canal system by proposed Ghaghara-Yamuna Link.

Follow-up meeting with SDSOs of the States by NDSA

A meeting of the National Dam Safety Authority (NDSA) was held under the chairmanship of Shri S.K. Sibal, Chairman, NDSA & Member(D&R), CWC with State Dam Safety Organisations (SDSOs) of eleven states (Maharashtra, Madhya Pradesh, Odisha, Rajasthan, Gujarat, Chhattisgarh and Karnataka, Andhra Pradesh, Tamil Nadu, Telangana, Uttar Pradesh) in hybrid mode

on 11.04.2023. The meeting was attended by the representative of these eleven SDSOs having more than 100 specified dams in their respective states and Members & Regional Directors of NDSA. The meeting was held to review the status/progress on various issues under Dam Safety Act, 2021 as discussed during last meeting held on 15.03.2023 and follow up on various other issues as per agenda item.

India-Nepal Pancheshwar Multipurpose Project (PMP)

Pancheshwar Multipurpose Project (PMP) is a bi-national hydropower project to be developed on Mahakali River bordering Nepal and India. A "Treaty concerning the Integrated Development of the Mahakali River, including Sarada Barrage, Tanakpur Barrage and Pancheshwar Project" was signed between India and Nepal in February 1996. Under this Treaty, both countries have agreed to implement the Pancheshwar Multi-purpose Project (PMP) as an integrated project. The project is discussed regularly in the bilateral mechanisms existing between the two countries. Last year, the matter related to early finalization of the DPR for the Project was discussed in the 9th Meeting of India-Nepal Joint Committee on Water Resources (JCWR) held on 23.09.2022 in Kathmandu, Nepal. Further to above, to take forward the matter, a meeting was held on 11.04.2023 under the chairmanship of Chairman, CWC wherein the officers from CWC participated. A presentation highlighting the various features of the projects and aspects of Mahakali Treaty and unresolved issues of Pancheshwar Multipurpose Project (PMP) was given by Chief Engineer, YBO.

In the meeting, Chairman, CWC took a review of the



work done so far with regard to implementation of Pancheshwar Multipurpose dam Project and emphasized that the all effort in the direction of finalization of DPR by resolving the pending issues may be carried out. The revision of estimated cost and power potential studies for the Project was also discussed. The directions were also given for further action to be taken by D&R wing on updated hydrology studies of Pancheshwar Project as submitted by WAPCOS.

Shri P.M. Scott, Member(RM), CWC, Shri S. K. Sibal, Member(D&R), Shri Vivek Tripathi, Designs (N&W), CWC, Shri G.K. Agarwal, Chief Engineer, Yamuna Basin Organization, CWC were present in the meeting.

Discussion on Issues Related to Expert Level Mechanism between India and China

Member (RM) attended meeting by MoJS on issues related to expert level mechanism between India and China wherein renewal of Memorandum of Understanding between the DoWR, RD and GR, Ministry of Jal Shakti of the Republic of India and the

Ministry of Water Resources of the People's Republic of China Upon Provision of Hydrological Information of the Langqen Zangbo/Sutlej River in Flood Season by China to India along with issues related with data sharing were discussed.

Discussion regarding various issues of DRIP Phase II and implementation as well as Dam Safety Act 2021

With Maharashtra WRD

A meeting to discuss various issues related to Dam Rehabilitation and Improvement Project (DRIP) Phase-II and implementation of the Dam Safety Act-2021 was held on 12.04.2023 at Mantralaya, Mumbai. The meeting was attended by the Officials of DoWR, RD&GR, CPMU (DRIP), CWC, World Bank and the officials of the State Government.

A brief wrap-up meeting was held with the Additional Chief Secretary (WRD), Government of Maharashtra. He assured that the State will take the lead in effective implementation of the various provisions of the DSA

With Goa WRD

A meeting to discuss various issues related to Dam Rehabilitation and Improvement Project (DRIP) Phase-II and implementation of the Dam Safety Act-2021 was held on 13.04.2023 at Goa. The meeting was attended by the Officials of DoWR, RD&GR, CPMU(DRIP), CWC



2021 as well as expeditious resolution of pending matters of DRIP Phase II. He also provided the full cooperation to the Central Government in this regard.

and the officials of the State Government. A brief wrap-up meeting was also held with the Secretary (WRD), Government of Goa followed by inspection of Anjunem dam under DRIP.

Meeting on Dam Safety Act

A meeting was taken by Principal Secretary to Hon'ble Prime Minister regarding Dam Safety Act on 17.04.2023. The meeting was attended by Secretary (DoWR) MoJS, Shri Kushvinder Vohra, Chairman CWC and Shri S.K. Sibal, Chairman NDSA and JS(RD&PP) MoJS. In the meeting, status of activities on various provisions of Dam Safety Act was presented. The status regarding Institutional setup at Central and State level, regional review meeting, action planned in coming future viz. training program, review meetings by NDSA with States

along with Pre & Post monsoon inspection status and action planned for Category-I and category-II dams by respective states were discussed.

Another meeting under the Chairmanship of Shri S.K. Sibal, Member (D&R), CWC & Chairman, NDSA was held at Sewa Bhawan, New Delhi on 24th April 2023. The meeting was attended by the members of NDSA, and officers of DoWR, RD & GR and CWC. In the meeting, various agenda points related to NDSA were discussed and decisions were taken for their execution.

Sixth Meeting of Steering Committee on Indus Water Treaty (IWT)

The Sixth Meeting of the Steering Committee on Indus Water Treaty was held on 17.04.2023 under the chairmanship of Secretary DoWR, RD&GR. Shri Kushvinder Vohra, Chairman, Shri S.K. Sibal, Member (D&R), Shri Vivek Tripathi, CE Designs(N&W), Shri Narendra Shekhawat, Director HCD (N&W) from CWC

attended the meeting. Foreign Secretary, MEA participated in the meeting as special invitee. Discussions were done regarding the decisions taken during the earlier meetings of the committee, review of the draft memorial and progress of the committee that was formed to review Indus Water Treaty.

Conduct of Census for Major Medium Irrigation Projects

In March, 2021, two meetings were held under the chairmanship of Advisor to Hon'ble Minister, Jal Shakti on 02.03.2021 & 16.03.2021 for integrating the process of Major, Medium and Minor Irrigation Census and Water Bodies Census. In the meetings, the idea of carrying out Major & Medium Irrigation Census also

through state institutions as in case of Minor Schemes was discussed. Accordingly, a proposal for conducting of MMI Census along with the parameters to be captured through the Census was sent by CWC to Advisor, MI Stat Wing, MoJS on 25.03.2021.

In this regard, the meetings were taken by the

Secretary, DoWR, RD&GR on 15.02.2023 and 27.03.2023 to discuss the feasibility of expansion of Centrally Sponsored scheme "Irrigation Census" which covers minor irrigation and water bodies, to include major and medium irrigation projects. During the meeting, on 27.03.2023, it was felt that scope of 'Irrigation census' scheme should be expanded by including census of major and medium irrigation projects also for better assessment and efficient provision of irrigation facilities in the country. The proposed MMI Census would be conducted by the MI

Stat Wing, MoJS as they are already doing the MI Census & Water Bodies Census. Further, Member, WP&P took a meeting on 18.04.2023 in his chamber with DDG(MI) and Chief Engineer, PMO to discuss the issue. Subsequently, DDG(MI) Stat Wing took a VC meeting on 25.04.2023 with Census Commissioners/ Nodal Officers of all States/UTs to discuss the list of parameters for conduct of proposed census of Major and Medium Irrigation (MMI) projects under the Centrally Sponsored Scheme- "Irrigation Census".

Discussion in the Problems related to the implementation of DRIP in Uttar Pradesh

A meeting was held under the chairmanship of Shri Vijai Saran, Project Director, DRIP Phase-II & III on 19.04.2023 at Sewa Bhavan, New Delhi. Shri Sameer Kumar Shukla, Director and officers of SPMU-DRIP UP

I&WRD attended the meeting to discuss in detail the problems related to the implementation of DRIP in Uttar Pradesh.

2nd meeting of Working Group for Reorientation of PMKSY-AIBP and CADWM Scheme

The 2nd meeting of the Working group for re-orientation of PMKSY-AIBP and CAD&WM was held on 25.04.2023 under the chairmanship of Member (WP&P). He recapitulated the broad outlines for each of the ToRs assigned to the working group, in the 1st meeting held on 28.03.2023. The first presentation in this regard pertained to the topic of promotion of underground pipelines (UGPL) in PMKSY projects was made for more close integration of UGPL for PMKSY projects. Thereafter, another presentation primarily on integration of drinking water with the irrigation projects was made. Based on the presentation and the associated discussions in the working group, the following was decided to be incorporated in the recommendations of the group:

- Every major, medium and multipurpose project

proposals may be examined for feasibility of implementation of UGPL at appraisal stage.

- ERM projects may also be examined for integration of UGPL along with micro irrigation, SCADA and IoT during appraisal. A chapter on irrigation modernisation plan, including benefit cost analysis with monetisation of freed area vis-à-vis simply renovation/restoration of canals, may also be included in the DPR, and comparatively techno-economically better option may normally be recommended by the TAC.

- It was recommended that advanced stage criteria, requiring atleast 50% physical progress of an irrigation project for inclusion under PMKSY-AIBP for designated projects, may be relaxed to atleast 25% physical progress, for projects proposing more than 50% command area under UGPL.

Meeting with IIT Roorkee

A meeting to discuss the action plan of IIT Roorkee for FY 2023-24 towards establishment of Centre of Excellence (CoE) under DRIP was held on 25.04.2023 between IIT Roorkee and CPMU, DRIP. Shri Vijai Saran,

CE (DSO) along with other officials of CPMU was present from CPMU side in the meeting. Prof. N. K. Goel, Coordinator led the delegation of IIT Roorkee.

Enable, Plan, Invest, and Control (EPIC) Response Framework on Flood and Drought Management

Shri Kushvinder Vohra, Chairman, CWC & Ex-officio Secretary to Govt. of India held a meeting with the team of World Bank officials on 26.04.2023 regarding Enable, Plan, Invest, and Control (EPIC) Response Framework on Flood and Drought Management. The World Bank officials briefed Chairman CWC about their report titled "Innovative Governance for Flood and Drought Management Risk Management – An EPIC Response". World Bank officials informed that the report offers a



path forward for governments to manage Flood and

Drought risks more comprehensively and systematically.

World Bank officials mentioned that they have been recently associated with Govt of Assam (WRD) and Assam State Disaster Management Authority for Flood forecasting activities and dissemination of Geo-referenced Early Warning. They expressed that World Bank would like to associate with CWC for various activities and would be happy to design and orient programmes/studies with CWC.

Chairman, CWC informed the World Bank officials about the myriad of activities the Central Water Commission is already engaged in, in addition to Floods and Droughts. He mentioned about various Medium and Long Term goals in different areas such as: Integrated Operation of Reservoirs, Extended Hydrological Prediction, River Basin Management Plans, Modelling

activities, Use of AI&ML in Early Warning Systems, Water Quality, Developing Rainfall and Flood Trends, 5-day Advance Warning for Flood Forecast, Interstate Disputes, Establishment of Centre of Excellence, Inundation Mapping, Smart Lab at Varanasi, Providing Resilience against Climate Change Impacts, IEC activities, and Capacity Building etc, to name a few. He mentioned about the excellent infrastructure available at National Water Academy, NWA that undertakes the Capacity Building programmes for States, Other agencies, and even international participants also.

Chairman, CWC also informed that CWC recently held a State Level Consultation with Govt of Assam where various areas to have collaborative mechanism between Centre and Assam were deliberated. Such consultations will also be held with other States on a regular basis.

Meeting on Levy of Water Cess by the State of Himachal Pradesh on Hydro Power Projects

A meeting under chairmanship of Secretary(WR, RD & GR) was held on 26.04.2023 in his office to discuss Levy of water cess by the State of Himachal Pradesh on

Hydro Power Projects. Further information is not available in this office.

South Asia Drought Monitoring System (SADMS) developed by IWMI

Shri Kushvinder Vohra, Chairman, CWC & Ex-officio Secretary to Govt. of India held a meeting with the team of IWMI officials led by Dr Alok Sikka on 27.04.2023 regarding South Asia Drought Monitoring System (SADMS) developed by IWMI in collaboration with ICAR. Dr Giriraj Amarnath, IWMI presented the concept, methodology, and some results of SADMS in Bihar and Jharkhand States using MODIS dataset. He mentioned that SADMS can be used for observe, predict, and de-risk the societies from the occurrence of Drought through Early Warning Systems. He mentioned that the SADMS is capable of preparing the digital drought plans with the minimal human interface and is equipped with Cloud-enabled technology.

Chairman, CWC apprised the IWMI team that CWC is also developing Extended Hydrological Predictions (EHP) with 28 days lead time that would be useful in early preparedness. He mentioned that CWC is also keen to develop the Hydrological Drought Indices by taking into account the peculiarities associated with monsoon-based climate that makes the Kharif season forecasts tricky as hydrological forecast accuracy depends upon the meteorological forecasts. Rabi season forecasts are relatively simpler because by the time of withdrawal of monsoon, the stock of water in



reservoirs and groundwater is mostly known and flows thereafter do not have large variability or uncertainties. Chairman CWC told that CWC would like to work upon the boundary conditions, parameters to be taken for developing hydrological drought indices, their relative weightage (that may differ from basin to basin), inputs, outputs, modelling activities, and overall methodology etc. He expressed that predicting of drought and formulation of hydrological drought indices is one of the prime concerns of CWC and for that a technical team shall be soon constituted in CWC to interact with IWMI team to firm up the boundary conditions, parameters, methodology, including ground-truthing for carrying out studies for, preferably a basin having snow and glacial-melt component. Other basin like Narmada can also be taken up.

Meeting with IISc Bangalore for establishment of CoE

A meeting between Ministry officials and IISc Bangalore team was held on 28.04.2023 in the Civil Engineering Department to discuss the revised draft proposal on

establishment of International Centre of Dams under DRIP scheme. IISc team was led by Shri Ananth Ramaswamy, Dept. of Civil Engg. The meeting was

attended by Shri Anand Mohan, JS (RD&PP) and Shri Manoj Kumar, SJC (PR-II) from the Ministry and officials from CWC were Shri Vijai Saran, CE (DSO) & Project Director, DRIP, Shri S.S. Bakshi, Director, DSR and Shri Yogesh Bhise, DD, DSR Dte.

The detailed discussions were held in the meeting on

Meeting Regarding Project

Lakhwar Multi-Purpose Project, Uttarakhand

A meeting was held under the Chairmanship of Shri S.K. Sibal, Member(D&R), CWC with CEA, CSMRS, NIRM, UJVN Ltd. and L&T Ltd. officials on 05.04.2023 at CWC regarding Lakhwar MPP. Geological issues at dam site, issues related to diversion arrangements, operation of Vyasi HEP with lakhwar MPP, Tail Water Rating curves, revision of power potential studies, instrumentation of already excavated powerhouse complex, numerical model studies of powerhouse complex by NIRM, Powerhouse complex/Tunnels/Adits, excavation drawings of Lakhwar MPP were discussed.

the compliance of IISc to earlier CWC comments vide letter dated 24.02.2023 and the revised draft proposal of IISc. Based on the discussions held, the IISc, Bangalore was requested to modify the proposal and submit at the earliest the revised draft proposal along with draft MoA to CWC.



Ratle HE Project

First Meeting of Consultancy Monitoring Committee was held between CWC, NHPC and DHI officials under the Chairmanship of Shri Vivek Tripathi, CE, Designs(N&W) on 19.04.2023 at CWC to monitor the

progress of "2D and 3D Numerical Hydraulic Model Studies for Reservoir Sedimentation of Ratle HE Project (J&K)" being carried out by M/s DHI-AS.

Somb Sarasvati Barrage Project

Somb Sarasvati Barrage Project Meeting of CWC and HSHDB officials was held under the chairmanship of Shri Vivek Tripathi, CE, Designs(N&W) to review the

status of design of Sarasvati Barrage, Reservoir & Pipeline on 20.04.2023 at CWC.

Uhl III Hydroelectric Project

A meeting on Uhl III Hydroelectric Project between CWC and HPSEBL official was held under the chairmanship of Shri S.K. Sibal, Member (D&R) to discuss the matter

related to Restoration and rectification works for penstock/pressure shaft of Uhl III Hydroelectric Project, Uttarakhand on 20.04.2023 at CWC.

Upper Siang Multipurpose Project

Meeting on Upper Siang Multipurpose Project (USMSP) was chaired by Secretary, DoWR, RD&GR on 03.04.2023. Shri Kushvinder Vohra, Chairman, CWC, Shri S.K. Sibal, Member (D&R) and Shri Vivek Tripathi,

Chief Engineer(Design E&NE) attended the meeting. In the meeting NHPC had given a presentation on the overall progress of Upper Siang Multipurpose Project (USMSP).

Situational report of dam incidents/failure

The Bi-weekly situational report on dam incident/failure provided by the field offices of CWC is being compiled and submitted to the office of Hon'ble

Ministry of Jal Shakti. In the month of April no incident related to damages to any dam in the country was reported by the regional offices of CWC.

Almatti Dam, Karnataka



TRAININGS/WORKSHOPS/PRESENTATIONS

Workshop regarding implementation of DRIP in the state of Uttar Pradesh

Officials of SPMU-DRIP and UP, I&WRD discussed various issues during participation in workshop regarding implementation of DRIP in the state of Uttar Pradesh on 19th & 20th April 2023 at World Bank Office. Shri Prabhat Kumar, Deputy Director, FE&SA Directorate and Shri Yogesh Kumar Gupta, Assistant Director FE&SA Directorate also attended the workshop.



Visit/Inspection of Projects/Sites by CWC Officials

Flat Bay Lake project, Andaman

CWC officials Shri Adepu Raghavendra, DD and Shri Madhukant Goyal, AD visited Flat Bay Lake Project, Andaman along with Andaman Public Works Department and WAPCOS officials during 24-25th April 2023. Flat Bay Lake Project is coastal reservoir type fresh water storage project proposed in Andaman to meet the increasing water demand.



OTHER ACTIVITIES

Seniors Talk

In an organization, sharing knowledge not only increases productivity, but it also empowers employees to do their jobs effectively and efficiently. In this direction, first "Senior's Talk" was organised by Central Water Commission in Hybrid Mode at New Library Building, New Delhi on 25.04.2023.

Sh. Kushvinder Vohra, Chairman, CWC and ex-Officio Secretary to GOI was Chief Guest. Sh. M.K. Srinivas, Chairman, GFCC, Patna and Sh. Sushil Kumar, Chief Engineer, NWA, Pune (both about to retire soon) were the Guests of Honour and speakers for the first Senior's Talk.

The speakers shared their experience of working in CWC. They highlighted various roles and responsibilities undertaken by them in their whole career as CWES Group-A Officer. They also briefly mentioned about some challenges faced by them as well as approach



adopted to tackle them. They also suggested some changes/issues at Organisational level which may be addressed to bring more value in the organisation's work. The Chairman, CWC concluded the session briefly highlighting the take ways from the experience of Sh. M.K. Srinivas and Sh. Sushil Kumar.

When the well is dry, we know the worth of water

-Benjamin Franklin

Financial Progress of Schemes as on 30.04.2023

(Amount rounded-off in ₹ Crore & Specific to CWC's component)

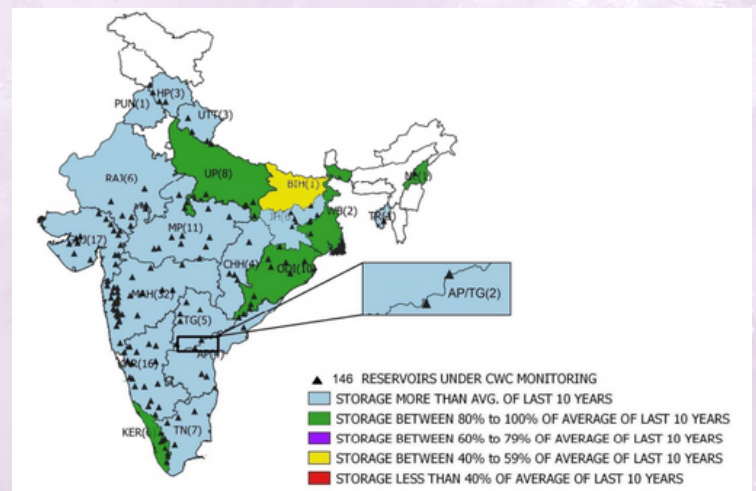
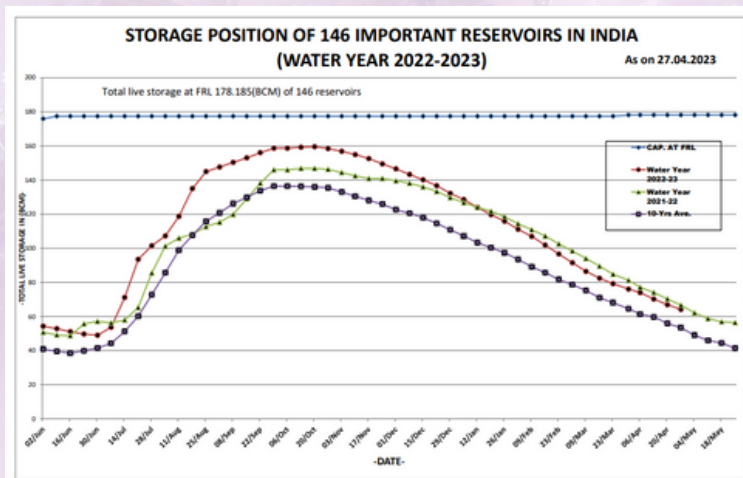
Sl. No.	Scheme/Component Name	BE(2023-24)	Expenditure	Expenditure (in %)
1	Development of Water Resources information System (DWRIS)	162.130	6.768	0.42%
2	Investigation of Water Resources Development Schemes (IWRD)	20.000	0.0109	0.05%
3	Flood Management & Border Areas Programme (FMBAP)	20.310	1.063	5.24%
4	Direction & Administration (D&A)-Major Works and OE (SAP)	11.000	0.00	0.00%
5	National Hydrology Project (NHP)	31.58	0.00	0.00%

Reservoir Monitoring

CWC is monitoring live storage status of 146 reservoirs of the country on weekly basis and is issuing weekly bulletin on every Thursday. Out of these reservoirs, 18 reservoirs are of hydro-electric projects having total live storage capacity of 34.960 BCM. The total live storage capacity of these 146 reservoirs is 178.185 BCM which is about 69.11% 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 27.04.2023, the

total live storage available in these reservoirs is 64.13 BCM which is 36% of total live storage capacity of these reservoirs. However, last year the total live storage available in these reservoirs for the corresponding period was 66.631 BCM and the average of last 10 years live storage was 53.388 BCM. Thus, the live storage available in 146 reservoirs as per the bulletin dated 27.04.2023 is 96% of the live storage of corresponding period of last year and 120% of storage of average of last ten years.



Water Sector-News

- Mission Amrit Sarovar : 40,000 water bodies developed, achieving around 80% of target (Millennium Post, 01.04.2023)
- Goa Notice to Maha Govt. over Viridi Dam Work (Hindustan Times, 04.04.2023)
- Jal Jeevan Mission achieved 60% of its target; 23.4 mn houses added (Hindustan Times, 05.04.2023)
- North India major groundwater depletion hotspot with 95% of country's loss : Study (Millennium Post, 07.04.2023)
- Indus treaty with Pak world's holiest, we are honouring it despite 3 wars (The Indian Express, 09.04.2023)
- Centre appoints nodal officers for 150 water stressed districts (Millennium Post, 14.04.2023)
- Indus Waters Treaty: India holds meet to study modifications (The Pioneer, 18.04.2023)
- In first-ever waterbody census, Bengal tops list of states with most ponds and reservoirs (The Indian Express, 21.04.2023)
- 13k lost in 1 yr ? Centre's 1st survey puts K'taka lake tally at mere 27k (The Times of India, 26.04.2023)
- States cannot tax water used for hydropower generation (Business Line, 28.04.2023)

Gallery



Field visit done by CE UGBO as the member of committee nominated by Hon'ble NGT, vide OA No 433/2022 of NGT on 20.04.2023. Director M&A Lucknow along with the officers of UP, I&WRD accompanied the Visit to Suav river in Balrampur dist. Of UP.



Sonapur (GDSQ) site visited by Shri P. M. Scott, Member (RM), CWC, Shri R. Shimray, Chief Engineer, BOBO, CWC, Shillong and Sh S. K. Suman, Superintending Engineer, HO&IC, CWC, Guwahati.



Demarcation of Land for Installation of Snowgauge Telemetry Station at an Altitude of 18000 Feet near Gurudongmar Lake , North Sikkim by the Joint Visit of CWC Officials, Forest Department, Sikkim and Indian Army.



Signing of MoU between CWC & GSI for S&I of S-M Link project.



Joint visit of CWC and GSI to proposed Subarnrekha Barrage site.



Joint visit of CWC and GSI to 2nd Lift point site of proposed S-M Link project.



Sh Ranjeetsingh Naik Nimbalkar Hon'ble M.P. (Lok Sabha) met Sh Kushvinder Vohra, Chairman, Central Water Commission on 5th April 2023 regarding Neera Deoghar Canal project of Maharashtra.

Inter-State Water Laws of Nation

Inter-State water laws in India constitute a vital legal framework designed to address conflicts and regulate the sharing and management of water resources among different states. These laws play a crucial role in maintaining harmony and equitable access to water within a federal system. Here's a succinct overview:

Constitutional Provisions:

The Indian Constitution contains several provisions related to inter-state water laws, with Article 262 being pivotal. It grants Parliament the authority to adjudicate disputes concerning inter-state rivers and river valleys.

Inter-State River Water Disputes Act, 1956:

This legislation was enacted to provide a structured mechanism for resolving disputes over inter-state rivers. It empowers the central government to set up tribunals to adjudicate disputes referred by states when negotiations fail.

Dispute Resolution Process:

Under the Act, a state government can approach the central government with a dispute, which, if not resolved through negotiations, can be referred to a tribunal. The tribunal's decision is binding, and the central government can enforce it.

Challenges and Criticisms:

The Act has been criticized for delays in dispute resolution, leading to prolonged conflicts. Some argue that the central government's discretion to refer disputes to a tribunal raises concerns about impartiality.

Water Tribunal Mechanism:

India has established water tribunals for specific disputes, such as the Cauvery Water Disputes Tribunal and the Ravi and Beas Waters Tribunal, to address conflicts between states.

Role of Judiciary:

In the absence of speedy resolution, the judiciary has often been approached to address water disputes. The Supreme Court's role has been crucial in setting interim orders and guidelines.

National Water Policy:

The National Water Policy outlines principles for inter-state water sharing, emphasizing efficient utilization, conservation, and an integrated approach to water management.

Cooperative Federalism:

Water sharing among states is a prime example of cooperative federalism, where states and the central government collaborate to address common challenges.

Sustainable Management:

As water scarcity grows, sustainable management practices and a holistic approach to water resource utilization are gaining importance.

Future Directions:

India's water laws are evolving to address emerging challenges, such as climate change impacts and increasing demand. Greater emphasis on consensus-based solutions and integrated water resource management is likely.

In summary, inter-state water laws in India, anchored by the Inter-State River Water Disputes Act, aim to facilitate conflict resolution and equitable water sharing among states. However, challenges persist, highlighting the need for efficient mechanisms and a more holistic approach to water management in the face of increasing water stress.

Role of CWC in Inter-State Water Laws

The Central Water Commission (CWC) plays a significant role in the implementation and management of inter-state water laws in India. Established in 1945, the CWC is a premier technical organization under the Ministry of Jal Shakti (formerly Ministry of Water Resources, River Development, and Ganga Rejuvenation) responsible for water resources planning, assessment, and management. Its role within the context of inter-state water laws is as follows:

Technical Expertise: The CWC provides technical expertise to both the central and state governments regarding water resources, river basin development, and related infrastructure. This expertise aids decision-making and policy formulation.

Dispute Resolution Support: The CWC assists in the resolution of inter-state water disputes by conducting technical studies, preparing reports, and offering recommendations based on hydrological data, river flows, and other relevant factors.

Data Collection and Analysis: The commission is responsible for collecting and maintaining data on water availability, river flows, groundwater levels, and other hydrological parameters. This data is crucial for assessing water availability and determining equitable sharing.

River Basin Development Planning: The CWC assists in formulating comprehensive river basin development plans, which include water allocation, storage, and distribution strategies. These plans help optimize water utilization while considering the needs of different states.

Support to Tribunals: When inter-state water disputes are referred to tribunals, the CWC often provides technical inputs, data, and analysis to support the tribunal's decision-making process.

Inter-State Coordination: The commission acts as a platform for coordination and cooperation among

different states sharing river basins. It facilitates dialogue and data-sharing to promote harmonious water sharing.

Hydrological Forecasting: The CWC conducts hydrological forecasting and flood management activities, contributing to disaster preparedness and minimizing the impact of floods on inter-state rivers.

Infrastructure Development: The commission advises on the design and implementation of water-related infrastructure projects such as dams, reservoirs, and irrigation systems. These projects can have implications for inter-state water sharing and must be managed carefully.

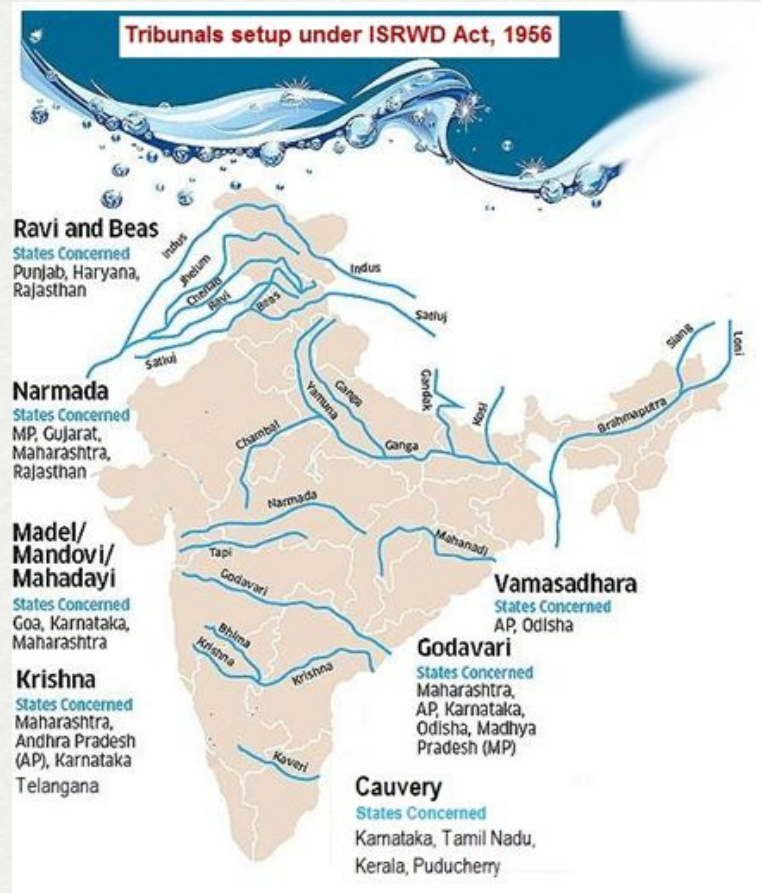
National Water Policy Implementation: The CWC contributes to the implementation of the National Water Policy by providing technical inputs and monitoring

progress in areas like water conservation, groundwater management, and inter-basin transfers.

Capacity Building: The commission engages in capacity building activities, including training programs and workshops, to enhance the technical skills and knowledge of stakeholders involved in water resources management.

In essence, the Central Water Commission plays a crucial role in facilitating technical cooperation, data-driven decision-making, and conflict resolution related to inter-state water laws in India. Its expertise and services contribute to the sustainable and equitable management of water resources among different states.

Tribunals setup under Inter State River Water Disputes, 1956			
Name of the Tribunal	States Concerned	Date of Constitution	Present Status
Godavari Water Disputes Tribunal	Maharashtra, Andhra Pradesh, Karnataka, Madhya Pradesh & Orissa	April 1969	Decision given in July 1980
Krishna Water Disputes Tribunal- I	Maharashtra, Andhra Pradesh, Karnataka	April 1969	Decision given in May 1976
Narmada Water Disputes Tribunal	Rajasthan, Madhya Pradesh, Gujarat and Maharashtra	October 1969	Decision given in Dec 1979
Ravi & Beas Water Tribunal	Punjab, Haryana and Rajasthan	April, 1986	Decision given in April 1987. Matter is pending in Court
Cauvery Water Disputes Tribunal	Kerala, Karnataka, Tamil Nadu and Puduchery	June, 1990	Decision given on 5.2.2007. Matter is pending in Court
Krishna Water Disputes Tribunal-II	Karnataka, Andhra Pradesh and Maharashtra	April, 2004	Decision given on 30.12.2010. Matter is pending in Court. Term of the Tribunal has been extended after bifurcation of Andhra Pradesh State
Vansadhara Water Disputes Tribunal	Andhra Pradesh & Orissa	February, 2010	Decision is pending
Mahadayi Water Disputes Tribunal	Goa, Karnataka and Maharashtra	November, 2010	Decision is pending



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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