

JALANSH



The Monthly Newsletter of Central Water Commission

Contents

- 1st International Conference on Sustainable Water Management
- Visit of President, ICID to CWC
- National Projects
- Consultancy Service
- Rukni Irrigation Project
- · ADB Loan Agreement
- Workshop on "Improving water use efficiency in Irrigation Sector in Uttar Pradesh"
- 2nd CWMA Meeting
- Drought Assessment
- Reservoir Monitoring
- Glacial Lake Monitoring
- Water Sector in News
- Gallery
- Pension Monitoring System
- 30th ITP
- Retirement
- Obituary
- History- ICID, India & CWC



Message

S Masood Husain, Chairman, CWC

As we welcome New Year, we look back at the last year as an eventful year as far as water resources sector is concerned. During the year 2018, total 24 irrigation/flood control projects costing Rs. 1,12,248.88 crore were accepted by the Advisory Committee of the Ministry. Out of these. 14 irrigation/multipurpose projects will provide irrigation benefits in 1.71 Mha area. 10 accepted flood control projects will protect about 1.12 Mha area benefiting a population of about 67 lakh.

The Dam Safety Bill, 2018 was introduced in the Lok Sabha in this Winter Session of the Parliament. The Bill provides for the surveillance, inspection, operation, and maintenance of specified dams across the country and the institutional mechanism to achieve the same. During December 2018, the Union Cabinet approved the implementation of Shahpurkandi Dam project on river Ravi in Punjab. It is one of the National

Projects for which Central Govt. will provide financial assistance amounting to Rs. 485.38 crore from F.Y. 2018-19 to 2022-23. In addition to existing monitoring by CWC, the project would also be monitored by a Committee headed by Member, CWC and consisting of concerned Chief Engineers of Punjab, J&K and other officers.

On 13th Dec, 2018 a delegation from ICID headed by Er. Felix Reinders, President, ICID visited CWC. CWC has been closely associated with ICID since its inception. More recently, during 2017, ICID and CWC collaborated to organize an international workshop which contributed significantly in development of "Guidelines for Planning and Design of Piped Irrigation Network". Several CWC officers have served in ICID in various capacities such as President, Vice-President and Secretary-General.

CWC contributed in successful organization of First International Conference on Sustainable Water Management held under National Hydrology Project during 10-11th December, 2018 in Chandigarh. CWC's regional office in North East has completed the DPR for Rukni Irrigation Project in Assam. Cost of the project is estimated to be Rs. 891 crore. The Irrigation benefits will be extended to the command area of 17566 ha (CCA) with 139% irrigation intensity.

Many water quality labs of CWC have been accredited by NABL and a need was felt to devise affordable pricing mechanism for the various tests/analysis of the water samples at these labs. CWC has come out with charges for various tests to be conducted at these labs. At this stage, it has been decided to accept the water samples from Government/Public Sector organizations.

Year 2019 is likely to be full of opportunities, learning experiences and challenges.Two International Conferences are lined up in the first two months of the year. Firstly, the 9th International Micro Irrigation Conference (IMIC) is being organized by Indian National Committee on Surface Water (INCSW)-CWC, MoWR, RD&GR and WAPCOS Limited in association with International Commission on Irrigation and Drainage (ICID) during 16-18th Jan, 2019 at Aurangabad. Next would be International Dam Safety Conference at Bhubaneswar during 13-14th Feb, 2019. The Inter-State River Water

are likely to be considered actively in the New Year. On this note, I extend my warm

Disputes (Amendment) Bill, for

setting up a permanent Tribunal

and River Basin Management Bill

wishes to one and all for a happy and prosperous New Year 2019.



Upcoming Event- 16th-18th Jan'19



🔞 🛈 💟

www.micro-irrigation2019.com



FLOOD CONTROL

 $oxed{10}$ No. of Projects

States/UTs

1.12 Area to be protected in Mha

2653 cr

Lakh Population to be benefitted

IDDIGATION

IRRIGATION

Projects accepted by the Advisory Committee of Ministry in 2018

≈ 14 No. of Projects

8 States

1.71 Irrigation Benefit

₹ 1.09 Lakh crore

1st International Conference on Sustainable Water Management

The 1st International Conference on Sustainable Water Management under the aegis of National Hydrology Project, MoWR, RD&GR, Govt. of India was held during 10-11 December, 2018. The event was organized by Bhakra Beas Management Board in technical collaboration with CWC and Central Board of Irrigation and Power (CBIP).

The Conference dealt with promoting integrated and sustainable development and management of Water Resources. The event was inaugurated by Sh. Acharya Devvrat, Hon'ble Governor of Himachal Pradesh. A number of Experts & Delegates from reputed organisations from both within India and from other countries participated in the event. Several CWC officers chaired and co-chaired important technical sessions/panel discussions at the conference.



Sh. S. Masood Husain, Chairman, CWC gave presentation on "Water Resources Management Initiatives in India" in the Plenary Session chaired by Sh. U. P. Singh, Secretary, MoWR, RD&GR. He highlighted the challenges in the Water Sector viz. increasing demand, inadequate storage capacity, over-exploitation of groundwater, flood, degrading water quality & concerns due to climate change. He detailed about the institutional setup for the water resources sector in the country, past initiatives & status of irrigation development and recent noteworthy initiatives of various State Govts. He stressed on the need of improved governance through proposed legislative reforms, formation of river basin organizations for promotion of Integrated Water Resource Management and adopting multi-pronged approach for water management through supply as well as demand side management.



Some of the presentations made by CWC officers are detailed below.

Sh. B. P. Pandey, Director (ISM-1), CWC presented a paper on topic "Water Governance and Conflict Management-Role of Existing Mechanism". In the paper, he highlighted the constitutional provisions for water, various legislations, provisions under different State Reorganization Acts and institutional mechanism such as Zonal Councils with respect to inter-state water issues. Recent initiatives for amendment of ISRWD Act 1956 for making permanent Water Disputes Tribunal at the Centre and River Basin Management Bill 2018 were also detailed by him.



Sh. B. P. Pandey, Director(ISM-1), CWC



Sh. Sharad Chandra, Director (FFM), CWC

Sh. Sharad Chandra, Director (FFM), CWC presented a paper on the topic, "Flood Forecasting for Sustainable Flood Management - A reference to Kerala Floods". He highlighted the major challenges related to the flood with specific reference to Kerala Floods. Further, the initiatives to be taken by CWC for impact based inundation forecasting, long range forecasting, integrated reservoir operations (IRO), etc. in reference to Kerala Floods were also discussed.

Sh. B. Saikia, Director (EM&EIA), CWC presented a paper on "Environmental Effects of Water Resources Projects". In the paper, importance and applicability of water in different sectors was mentioned. According to the paper, for overall improvement in the quality of life, it is important that efforts towards environment protection and development should go hand in hand.



Director (EM), CWC

Visit of President, ICID to CWC

On 13th December, 2018 a delegation from ICID headed by Er. Felix Reinders, President, ICID and Sh. A.B. Pandya, Secretary-General, ICID visited CWC, HQ. Mr. Felix Britz Reinders, hailing from South Africa, is a professional engineer having 36 years of experience in the field of Agriculture and Civil Engineering.

On this occasion, CWC organized a technical session which witnessed participation from ICID, CWC, WAPCOS etc. During the session, President, ICID presented "ICID Vision 2030- Towards A Water Secure World Free of Poverty and Hunger through Sustainable Rural Development". Afterwards, CWC officers interacted with ICID delegates and discussed several matters such as activities of ICID in India, help provided to State agencies, water use efficiency etc.



Mr. Felix Britz Reinders, ICID President at CWC, HQ on 13.12.18

National Projects

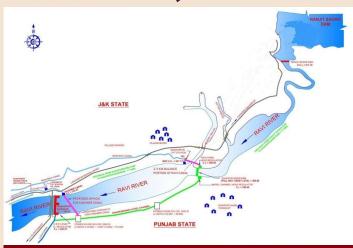
Cabinet Approval for Shahpurkandi Dam Project on Ravi River, Punjab

Proposal for the implementation of Shahpurkandi Dam on the river Ravi (a National Project) was approved by Cabinet on 6th December 2018. The approved Central Assistance (CA) of Rs. 485.38 crore will be provided for the balance portion of the irrigation component.

The project will be implemented by the Govt. of Punjab in 3.5 years starting from December 2018. Funding for CA to Shahpurkandi Dam project shall be made through NABARD under existing system for funding of 99 PMKSY-AIBP projects under Long Term Irrigation Fund (LTIF). A committee headed by Member, Central Water Commission and consisting of concerned Chief Engineers of Punjab and J&K and other concerned officers would be constituted to oversee/monitor the implementation of the project. Benefits of the project are as under:

- The wastage of water of the Ravi River through the Madhopur Headworks downstream to Pakistan can be minimised.
- An Irrigation Potential of 5000 ha in Punjab State and 32173 ha in J&K State would be created on the completion of project
- Water being released to provide irrigation in 1.18 lakh ha area under UBDC system in Punjab would be managed efficiently. On completion, Punjab would also be able to generate 206 MW of hydropower

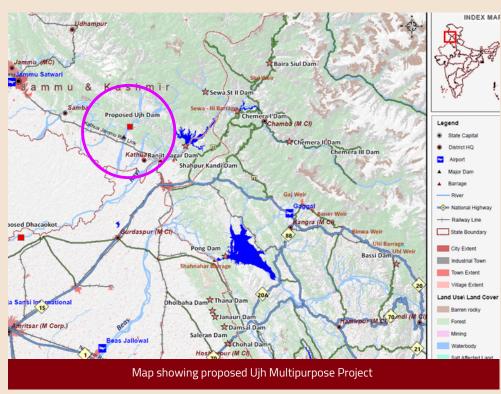
Background: -In January 1979, a bilateral agreement was signed between Punjab and Jammu & Kashmir regarding the construction of Ranjit Sagar Dam and Shahpurkandi Dam that were to be taken up by Punjab Govt. The Shahpurkandi Dam project is proposed on River Ravi, 11 km d/s of Ranjit Sagar Dam and 8 km u/s of Madhopur Headworks. Initially, the project was approved by the Planning Commission in November 2001 with an estimated cost of Rs. 1324.18 crore and was



Plan showing Ranjit Sagar Dam, Shahpurkandi Dam, and Madhopur Barrage

included under the Accelerated Irrigation Benefits Scheme (AIBP) for the purpose of funding for the irrigation component. Revised cost of the Shahpurkandi Dam National project was approved on 24th August, 2009 for Rs. 2285.81 crore. However, the work could not progress much due to non-availability of funds on the part of Govt. of Punjab for power component and interstate issues with J&K. Finally, on 8th September 2018, Punjab and Jammu & Kashmir reached an agreement under the aegis of MoWR, RD&GR at New Delhi. Second revised cost estimate amounting to Rs. 2715.70 crore was approved on 31st October 2018 and out of this 28.61% cost i.e. Rs. 776.96 crore is for irrigation component and 71.39% cost i.e. Rs. 1938.74 crore is for power component.

Ujh Multipurpose Project, Jammu & Kashmir



The Ujh Multipurpose Project is proposed in Kathua district of Jammu and Kashmir on River Ujh which is one of the main tributaries of River Ravi. The River Ujh is joined by other four tributaries Sutarkhad, Dunarikhad, Bhini and Talyan at a place called Panchtirthi, the name derived from the confluence of these five streams. The Detailed Project Report (DPR) of Ujh Multipurpose Project, J&K as prepared by CWC was considered in 131st meeting of the Advisory Committee of Ministry and was agreed 'In-Principle'. However, due to the issue of large submergence of land measuring about 41 sq. km, the Committee decided that a team comprising of concerned officers from CWC and other experts shall visit the project site/area and explore the alternative options with reduced submergence/ displacement along with minimum loss of power and irrigation benefits, so that the potential of Eastern rivers may be fully utilized as envisaged in Indus Water Treaty. After visiting project sites, CWC team submitted its report in May, 2017 with

suggestion for the reduction in Full Reservoir Level of Dam by 6m. In view of the above, DPR of Ujh Multipurpose Project was modified which envisages the creation of irrigation potential of 0.32 Lakh ha of land by constructing a 116 m high concrete dam. After examination and based on the R&R Plan of Kishenganga Project, the latest estimated cost of the project has been arrived as Rs. 5850.00 crore at July, 2017 price level. As per CWC, the costs for power and irrigation components are 15.90% and 84.10% respectively. As far as statutory clearances are concerned, the State Government of J&K is required to obtain Environmental and Forest Clearances from Ministry of Environment, Forest & Climate Change and R&R Clearance from Ministry of Tribal Affairs.

Salient Features of the project-

- 116 m high & 420 m long Concrete faced Rock fill Dam
- 81 m long over flow spillway on the left flank
- 380 m long regulating barrage
- 36.628 km long Right main canal
- 32.51 km long left main canal
- Districts benefitted- Kathua& Samba

Consultancy Services -Deo Irrigation Project, Odisha

Deo Irrigation Project (DIP) is situated on the river Deo, a tributary of river Baitarani near village Hathibari of Mayurbhanj district of Odisha. On excavation of foundation at left abutment, a shear zone was encountered. Further, the shear zone was found coinciding with the kink in dam axis. The Project Authorities approached CWC for suggesting the remedial measures for the problem.

The project site was visited by CWC officers along with the Geologist, Executing agency and the Project Authority. Further, considering the site conditions and studying the various tests reports, it was decided that both the adversities viz. shear zone and kink in dam axis shall not fall in the same zone. In view of the above facts, it was suggested by CWC to first shift the location of the proposed kink in the Dam Axis towards the right bank keeping kink away from shear zone and thereafter dental treatment of the shear zone was suggested.



Shear zone in the foundation of the Non Over Flow portion

S&I Activity - Completion of DPR for Rukni Irrigation Project



CWC officers with DPR for Rukni Irrigation Project which was completed in December 2018

The work of survey & investigation and preparation of DPR of Rukni irrigation project was entrusted to Central Water Commission (CWC) by Ministry of Water Resources, River Development & Ganga Rejuvenation, Govt. of India under the scheme'Investigation of Water Resources Development (IWRD) Project'. This work has been completed by CWC in Dec, 2018. Rukni Irrigation Project in the State of Assam envisages benefits of irrigation, drinking water and other associated benefits of Pisciculture, animal husbandry and communication etc. Project involves construction of a 102 m wide gated barrage across the river Rukni. The Irrigation benefits will be extended to the command area of 17566 Ha (CCA) with an Intensity of Irrigation of 139%. The estimated cost of the project is Rs. 891.20 crore (Net).

Loan agreement with ADB for Flood Management in Assam

On 13th December 2018, a loan agreement was signed between Asian Development Bank (ADB) and the Govt. of India amounting to \$60 Million. The Tranche-II loan is the part of the \$120 million multi-tranche financing facility (MFF) for the Assam Integrated Flood and Riverbank Erosion Risk Management Investment Program that was approved by ADB in October 2010. The agreement was signed to continue the financing of riverbank protection works, renovation of flood embankments, and community based flood management activities in the regions along the Brahmaputra River in Assam.

The program is aimed at increasing the reliability and effectiveness of flood and riverbank erosion risk management systems in flood-prone areas of Assam, strengthening the disaster preparedness of the communities and developing institutional capacity and knowledge base for flood forecasting. It will fund a combination of structural and non-structural measures in the three sub-project

areas of Palasbari-Gumi, Kaziranga, and Dibrugarh along the Brahmaputra River. Various sub-projects under Assam Integrated Flood and Riverbank Erosion Risk Management Project- Tranche-II were appraised in CWC and subsequently accepted by Advisory Committee of Ministry during 2016. Community involvement and community-based flood risk management activities through establishing and training disaster management committees for strengthening local disaster preparedness and emergency response are included in non-structural measures.

The Project will continue to support the institutional capacity development of the autonomous body anchored to the Assam Water Resources Department, named Flood and River Erosion Management Agency of Assam (FREMAA), and Assam State Disaster Management Authority (ASDMA), as the executing and implementing agencies for this Project. The loan will have a 20-year term, including a grace period of 5 years.

Workshop on "Improving water use efficiency in Irrigation Sector in Uttar Pradesh"

One day workshop was organized by Regional office of CWC, Lucknow on 14.12.18 on "Improving Water Use Efficiency in Irrigation Sector in UP". The purpose of this workshop was to present suggestions for the action plan for Uttar Pradesh in order to increase the efficiency of water usage in the irrigation area and for developing the maximum production capacity with minimum water usage. Participants from all the districts of Uttar Pradesh were nominated for this program.

Ministry of Water Resources, RD&GR, CWC, Central Ground Water Board, various departments of UP Govt. such as Irrigation, Agriculture, Horticulture & Food Processing, Additional Field Officers of Command Area Development Department, experts working in the research institutes and in the field of irrigation and water management, NGOs working at national and international level and many institutions of private sector like Jain Engineering, Kolhapur, WOTR, Pune, Vassar Labs, Hyderabad, Tahal India, People's Action for National Institution (PANI), Action for Food Production (AFPRO), New Delhi participated in the workshop.

Participants of Workshop on 'Improving water use efficiency in Irrigation Sector in Uttar Pradesh"

2nd CWMA Meeting The second meeting of Cauvery Wa

The second meeting of Cauvery Water Management Authority (CWMA) was held under the chairmanship of Sh. S. Masood Husain, Chairman, CWC and Chairman, CWMA on 3rd December, 2018. Deliberations on important issues such as status of hydrological and hydro-meteorological conditions in the Cauvery basin, funding and accounting arrangement, organizational structure/support staff, service rules for CWMA and CWRC, office space requirement for CWMA and CWRC, communication network in Cauvery basin, finalization of Rules of Business, course of action on the Mekedatu Balancing Reservoir project proposed by Karnataka were held.



जल संसाधन, नदी विकास एव गगा सरक्षण मत्रालप

Ministry of Water Resources, River Development & Ganga Rejuvenati

Workshop on "Improving Water Use Efficiency in Irrigation
Sector in Uttar Pradesh"

Sh. S. Masood Husain, Chairman, CWC chairing 2nd Meeting of CWMA at CWC, HQ, New Delhi on 3.12.18

Drought Assessment



Sh. Devendra Fednavis, Hon'ble CM of Maharashtra interacting with members of Inter-ministerial Central Team (IMCT) in wake of Drought in Kharif Season on 6.12.18 in Nashik . Sh. R. D. Deshpande, Director, CWC, Nagpur was one of the members of IMCT



Sh. Puneet Kr. Mittal, Director (M&A), CWC, Jaipur participated as a member in Inter Ministerial Central Team (IMCT) for assessment of the situation in the wake of drought during Kharif 2018 in Rajasthan during 16.12.18-19.12.18

Pension Monitoring System

In order to monitor the status of pension cases of all the employees of CWC, an online Pension Monitoring System has been developed in CWC. Chairman, CWC launched the same on 12.12.2018. The status of pension cases can be monitored by CWC (HQ), the field organisations of CWC as well as individual pensioners/retiring employees through this Pension Monitoring System.



Reservoir Monitoring

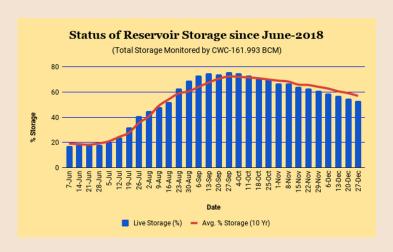
CWC is monitoring live storage status of 91 reservoirs around the country on a weekly basis and is issuing a bulletin every Thursday. The total live storage capacity of these 91 reservoirs is 161.993 BCM, which is about 63% of the live storage capacity of 257.812 BCM which is estimated to have been created in the country.

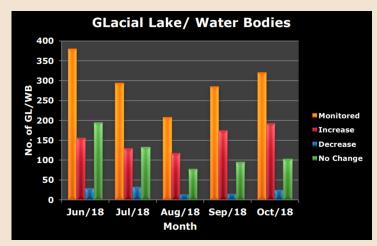
As per the reservoir storage bulletin dated 27.12.2018, the live storage available in these reservoirs is 86.373 BCM, which is 53% of the total live storage capacity of these reservoirs. This is 98% of the live storage of the corresponding period during last year, and 93% of the average storage over the last ten years.

Glacial Lake Monitoring

Every year during June to October, CWC is monitoring the size of Glacial Lakes (GL) & Water bodies(WB) that are larger than 50 ha in Himalayan region using satellite data. These were digitized in year 2009 and their current sizes are analyzed with respect to size in year 2009. The numbers of GL & WB monitored vary due to availability of cloud free data. Summary of their size variation has been highlighted in the adjacent chart. The detailed report for month of October, 2018 covering methodology, finding etc. can be accessed from website at following URL

http://cwc.gov.in/main/downloads/CWC_lakes_monitor_report_0 ctober_2018.pdf





Water Sector in News

- 防 Kerala floods led to most casualties among extreme global events in 2018: climate report (Indian Express, 1.12.18)
- 🌎 Shirdi trust's Rs. 500 cr interest-free loan to M'rashtra for canal water (Statesman, 3.12.18)
- 🌎 Gadkari: 254 projects approved for Ganga rejuvenation (The Economic Times, 6.12.18)
- Cabinet revives dam project on Ravi in Punjab (Hindustan Times, 7.12.18)
- 芮 Kerala to get Rs. 3048 crore as flood relief (The Hindu, New Delhi, 7.12.18)
- Centre clears decks for ShahpurKandi Dam (TNS, Tribune, 7.12.18)
- 芮 Germany's aid to flood-hit Kerala (Statesman, 8.12.18)
- indian elected to world water body (Statesman, 8.12.18)
- 🤭 BBMB meet on Sustainable Water Management from today (Statesman, 10.12.18)
- 1st int'l Conference on sustainable water management inaugurated (Daily Pioneer, 11.12.18)
- 防 Dam Safety Bill in Lok Sabha (Business standard, 13.12.18)
- Coastal Andhra braces for looming cyclonic threat (Hindustan Times, 15.12.18)
- Govt. revises guidelines for groundwater extraction (Tribune, 17.12.18)
- 🥎 Cyclone Phethai to make landfall in Andhra today (Hindustan Times, 17.12.18)
- Polavaram project to be fully functional by December 2019 (Indian Express, 25.12.18)
- 芮 11 projects to stop sewage from flowing untreated into city's stretch of Yamuna (The Time of India, New Delhi, 27.12.18)

Gallery



Sh. S. Masood Husain, Chairman, CWC at AMU, Aligarh during International Conference on "Global Water Crisis: Food Security and Agriculture in the era of Climate Change" on 1.12.18



Sh. A. K. Jain, Director, CWC, delivering a lecture at the National Conference on Advanced Materials organized by CII at India Habitat Centre, New Delhi on 4.12.18



Sh. Y. K. Sharma, Member (RM), CWC with participants of training programme on "Satellite Data Analysis using Google Earth Engine" at CWC,HQ, New Delhi under Google CWC collaboration on 5.12.18



Sh. S. K. Haldar, Member (WP&P), CWC chairing the meeting of National Environment Monitoring Committee for River Valley Projects (NEMCRVP) after visit of Thoubal Project, Manipur on 6.12.18



Sh. S. Masood Husain, Chairman, CWC chairing the session on Data Harmonization at India Water Impact Summit (IWIS), 2018 at Vigyan Bhawan, New Delhi on 7.12.18 . Sh. Ravi Shanker, CE(P&D), CWC gave a presentation at IWIS.



Sh. Navin Kumar, Chief Engineer (IMO), CWC chairing the 5th Meeting of Cauvery Water Regulation Committee (CWRC) at CWC, HQ, New Delhi on 12.12.18



Sh. N. K. Mathur, Member (D&R), CWC participated in the Brain storming session on "Perspectives on Water Management in India and Future Direction" at NIH, Roorkee on 15.12.18



Sh. Y. K. Sharma, Member (RM), CWCand Sh. Bhopal Singh, CE(UGBO), Lucknow overseeing discharge observation through ADCP at Ayodhya site on 18.12.18



Sh. S. Masood Husain, Chairman, CWC inaugurating the International Conference 'HYDRO-2018' organized by NIT, Patna during 19.12.18- 21.12.18. wherein Sh. Rajendra Singh, Chairman, Tarun Bharat Sangh was also present.

30th Induction Training Program (ITP) for newly joined CWES "Group A" Officers

NWA component of 30th Induction Training Program(ITP) having six months duration concluded on 28th December 2018 at National Water Academy, Pune. Activities like cultural presentation and tree plantation were performed by newly appointed officers at this occasion. This would be followed by Bharat Darshan component.





Retirement



Sh. Y.K. Sharma, Member (River Management), CWC superannuated on 31st December, 2018 after a long fulfilling career in water sector for 36 years. He joined CWC in March, 1982 as an Assistant Director. He worked in various capacities in CWC, CEA and MoWR, RD&GR. He also worked in Punatsangchhu-I Hydroelectric Project Authority in Bhutan during 2010-18 as Director (Technical).

History- ICID, India & CWC

ICID- the International Commission on Irrigation and Drainage was established in 1950. ICID is a leading scientific, technical, international not-for-profit, non-governmental organization constituted of a network of professionals and experts across the world in the field of irrigation, drainage and flood management. India is founding member of ICID. The central office of the ICID is located in New Delhi, India and functions under the direct supervision and guidance of Secretary General.

India is represented in ICID through the Indian National Committee on Surface Water (INCSW) constituted by the Government of India to deal with various aspects related to Surface Water including Irrigation & Drainage. Chairman, CWC is also the Chairman of INCSW with its secretariat in CWC. There are various activities performed by ICID in coordination with India like coordinated research related to Surface Water which is currently ongoing in various Indian

Obituary

Sh. A.S.P Sinha, Chairman, KRMB passed away on 3rd December, 2018. He joined CWC in May, 1985 as an Assistant Director and served for



33 years. He was promoted as Chairman, KRMB in 2018. His demise is a great loss for the water sector. Tribute was paid by the officials of CWC at CWC, HQ, New Delhi as well as Hon'ble Minister of Andhra Pradesh and others at Hyderabad.

Institutions. It organizes seminars/conferences/workshops etc. and one of its upcoming events is 9th International Micro-Irrigation Conference during 16-18th January 2019.

Not only this, Indians including officers of CWC were associated with ICID since its formation and worked as President, Vice President, and Secretary General. Dr. A. N. Khosla the first Chairman of CWC was also the founder President of ICID during 1950-54.

Several Chairmen of CWC such as Sh. Kanwar Sain (1954-1957), Dr. M.R. Chopra (1966-1969), Mr. S.K. Jain,(1970-1973), Mr. C.C. Patel, (1976-1979), Dr. M.S. Reddy, (1991-1994), Mr. Ramesh Chandra, (1994-1997), Mr. R. Jeyaseelan, (2003-2006), Mr. A.K. Bajaj, (2009-2012), Er. A.B. Pandya, India(2013-2016) also served as Vice-President of ICID. Past CWC Chairmen such as Dr. M.A. Chitale & Dr. C.D. Thatte and CWC officer Sh. Avinash Tyagi have served as Secretary-General of ICID. The current Secretary-General Sh. A.B. Pandya served as the Chairman of CWC during 2013-15.

Published By: Water Systems Engineering Directorate Central Water Commission

2nd Floor(South), Sewa Bhawan, R K Puram, New Delhi-110 066 E-mail: media-cwc@gov.in



Central Water Commission

An attached office of Ministry of Water Resources, River Development and Ganga Rejuvenation, Govt. of India



CWC.GOV.IN



CWCOfficial.Gol



CWCOfficial_Gol



CWCOfficialGol