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**R. K. Jain,  
Chairman, CWC  
Message**

The water sector has been witnessing reforms in governance structure/policy with more and more stakeholder participation. CWC has contributed substantially to the country's commendable progress in water resources development and management for more than seven decades. It gives me immense pleasure and a sense of responsibility to head the premier organization of the country in the water sector.

Many important activities happened during October 2019. An MoU between India and Bangladesh was signed on 05.10.2019 for withdrawal of 1.82 cusec of water from Feni River by India for drinking water supply scheme for Sabroom town in Tripura. The present supply of drinking water to Sabroom town is inadequate and the groundwater in this region has high iron content. Implementation of this scheme would benefit over 7000 population of Sabroom town.

The 11th meeting of Investment Clearance Committee was held under the chairmanship of Secretary, DoWR, RD&GR, MoJS

on 11.10.2019 wherein two projects of State of Maharashtra namely Jiagon Irrigation Project with an estimated cost of Rs. 7764.39 Crore and Purna Barrage-2 (Ner Dhamana) with Revised Cost Estimate (2nd RCE) of Rs. 888.43 Crore were recommended for Investment Clearance.

CWC entered into an MoU with Govt. of Odisha to assist in designing the additional spillway for the Hirakud Dam under Dam Rehabilitation and Improvement Project (DRIP). CWC also signed an MoU with Tehri Hydro Development Corporation India Limited (THDCIL) to establish Seismological Observatory and provide the data to THDCIL and establish Hydrological Observation Station at downstream of proposed Sankosh Multipurpose Project in Bhutan.

CWC, in association with NIC, has developed an online Project Appraisal Management System (e-PAMS) for efficient and transparent appraisal of water resources projects. Its Flood Module was launched at GFCC, Patna and a familiarization workshop was organized for officers of State Govt. of Bihar, GFCC & regional offices of CWC during 22nd -23rd October 2019.

During October, 7 additional reservoirs were brought under reservoir monitoring network. Now, CWC is monitoring 120 reservoirs across the country having a live storage capacity of 170.328 BCM which is about 66.06% of the total live storage capacity of 257.812 BCM, estimated to have been

created in the country.

The Yamuna Standing Committee headed by Member (RM), CWC is entrusted to safeguard the interest of Haryana, Uttar Pradesh and Delhi against the adverse effect of flood control works/any new structure and to ensure that adequate waterway is provided in the Yamuna River. In its 90th meeting held on 16.10.2019, model/feasibility studies for various infrastructure projects on the Yamuna were accepted by the Committee.

Officers and Staffs of Central Water Commission were administered 'Swachhata Hi Seva' pledge and pledge against the use of disposable plastic and they participated in the shramdaan activity on the 150th birth anniversary of the Mahatma Gandhi across the country.

CWC fraternity lost two former chairmen of CWC, Sh. R. B. Shah and Sh. S. K. Das who passed away during October 2019. CWC fraternity remembered their contribution to the water sector in India as well as in the neighbouring country and paid tribute to the departed souls.

This is the first issue of Jalansh under my tenure as Chairman, CWC. I would request readers and stakeholders to convey their suggestions and feedback for its continuous improvement. Also, other peer organizations working in the water sector may like to provide required material/information for incorporation in this monthly newsletter.

*R. K. Jain*



Sh. U.P. Singh, Secretary, DoWR, RD&GR, MoJS exchanging MoU for sharing of water of Feni River on 05.10.2019 with his counterpart from Govt. of Bangladesh in the presence of Hon'ble PM of both the countries



Organization of a conference on Vigilance Awareness on theme 'Integrity- A way of Life' on 30.10.2019 at CWC, HQ, New Delhi during Vigilance Awareness Week -2019



## Upper Bhadra Project

A meeting regarding appraisal of DPR of Upper Bhadra Project, Karnataka was held on 10.10.2019 under the chairmanship of Member (WP&P), CWC at New Delhi. One of the key features proposed in the project is to provide drip irrigation to a large area of about 2.25 lakh hectares and the project

proposes to fill up 267 Nos. of Minor Irrigation tanks, needed for Groundwater recharging and drinking water needs. After discussion on various aspects of project including revised water allocation, cost aspects etc., Member (WP&P), CWC asked the project authorities to submit all the compliances at the earliest and assured fast track clearance to the project.

## 23rd Technical Evaluation Committee (TEC) Meeting for North Koel

The 23rd meeting of Technical Evaluation Committee was held on 03.10.2019 as a follow-up action to the review meeting dated 22.08.2019 convened by the Principal Secretary to Hon'ble Prime Minister on the issues impacting project implementation.

During the TEC meeting, status of No Objection Certificate (NOC) from the Forest Department of State Govt. of Jharkhand, status of land acquisition by the State Govts. of Jharkhand and Bihar, Report of the Technical Team on the issue of canal lining and status of progress of various components of the balance works of the project were discussed.



## Rihand Reservoir Committee

The 32nd meeting of the Joint Operation Committee (JOC) for the Rihand Reservoir was held on 18.10.2019 under the chairmanship of Member (WP&P), CWC at New Delhi. The JOC includes representation from CEA, State Govt. of UP and Bihar and its basic purpose is to ensure optimal

releases from the Rihand reservoir after assessing the water availability, irrigation requirements of Bihar and power to be generated. During the meeting, the Committee reviewed the operation plan for 2018-19 (25-Sep-18 to 24-Sep-19) and finalized the operation plan for 2019-20.

## 11th Investment Clearance Committee Meeting

The 11th meeting of Investment Clearance Committee was held under the chairmanship of Secretary, DoWR, RD&GR, MoJS on 11.10.2019 wherein two projects of State of Maharashtra namely Jigon Irrigation Project with an estimated cost of Rs. 7764.39 Crore and Purna Barrage-2 (Ner Dhamana) with Revised Cost Estimate (2nd RCE) of Rs. 888.43 Crore were recommended for Investment Clearance.

Jigon Irrigation Project envisages construction of earthen dam across river Purna, a tributary of river Tapi in Buldana district of Maharashtra. Project envisages providing irrigation in drought prone districts of Buldana and Akola through 12 Lift Irrigation schemes along the periphery of reservoir. Project also includes a provision of 12.95 MCM for drinking water supply and 21.81 MCM for industrial water supply. Purna Barrage-2 is a Medium Irrigation Project on Purna River in Akola District of Maharashtra. It is to irrigate 6954 Ha area in the district.



Purna Barrage

## 71st Meeting of Brahmaputra Board

The 71st Meeting of Brahmaputra Board was held on 18.10.2019 at Guwahati under the chairmanship of Chairman, Brahmaputra Board. Shri R. K. Sinha, Member (RM), CWC attended the meeting as one of its members. Following matters were discussed during the meeting.

- Monitoring of flood management works in NE Region
- Restructuring of Brahmaputra Board
- Engagement of EdCIL for direct recruitment in Brahmaputra Board
- New initiatives for scientific dissemination and improvement of Water Management practices of local tribes and indigenous people of NE Region
- Setting up of North East Water Resources Data Sharing Centre
- New approach for soft measures for control of flood and bank erosion



## TAC of the Brahmaputra Board



The Technical Advisory Committee of the Brahmaputra Board (TAC-BB) headed by Member (RM), Central Water Commission visited the various locations of the scheme for "Protection of Majuli Island from flood and erosion of river Brahmaputra" during 9-11th October 2019 for reviewing ongoing measures.

During the visit, the team inspected the works being executed and made suggestion/recommendations according to the site requirement.





## Workshop on Environmental Flows Assessment and Implementation for India

International workshop on Environmental Flows Assessment and Implementation for India was inaugurated by Shri Gajendra Singh Shekhawat, Union Minister for Jal Shakti at Delhi on 21.10.2019. The exchange of Indian, European and International Experiences was brought together by National Mission of Clean Ganga (NMCG) along with the Indo-German Cooperation with its project "Support to Ganga Rejuvenation" (SGR). Hon'ble Minister also released the draft Guidance Document on Environmental Flow Assessment in India: Blending Indian and EU Approaches. Draft Guidance Document has been jointly prepared by CWC and EU Experts. It is based on the lessons learnt from Indian Pilot River Basins and the European Union. The joint India-EU study on Priority Area-2 (Environmental Flows) aims to standardise the methodology (ies) for assessment of E-flows for different hydro-climatic regions in the country including model/software requirements.



A number of CWC officers participated in the workshop, presented papers and participated in panel discussions. Sh. Bhopal Singh, CE(UGBO), CWC presented a paper on "Implementation of Environmental Flows in Ganga Basin" in which he discussed E-flow policy and provisions in India, Standard Operating Procedures for monitoring and implementation of environmental flows in river Ganga. Various issues encountered while monitoring the implementation of the E-flows in Ganga by CWC were also discussed. CWC has been monitoring implementation of E-flows in Ganga basin w.e.f. 01.01.2019 and has been submitting monitoring status reports to NMCG on quarterly basis. Shri N. N. Rai, Director, Hydrology (South), gave presentation on Experiences of Environmental flow assessments in Indian River Basins- Himalayan and Sub-Himalayan case studies.



## Kosi High Level Committee Meeting

Kosi High Level Standing Committee (KHLC) headed by Chairman, GFCC inspected the flood protection works on the right bank of river Kosi during 17-20th October 2019. During the inspection, officers of concerned Departments of UP and Bihar, representatives from CWPRS, Pune and Government of Nepal were also present. The Committee recommended Anti-Erosion works on the right bank of River Gandak before Floods of 2020. The works recommended were both in Nepal Portion and India Portion of River Kosi.



## Gandak High Level Standing Committee

Gandak High Level Standing Committee (GHLSC) headed by Chairman, GFCC inspected the flood protection works on the right bank of river Gandak during 23rd-25th October 2019. During the inspection, officers of concerned Departments of UP and Bihar, representatives from CWPRS, Pune and Government of Nepal were also present. The Committee recommended Anti-Erosion works on the right bank of River Gandak before Floods of 2020. The works recommended were both in Nepal Portion and India Portion of River Gandak.



## Yamuna Standing Committee meeting

The Yamuna Standing Committee headed by Member (RM), CWC is entrusted to safeguard the interest of Haryana, Uttar Pradesh and Delhi against the adverse effect of flood control works/any new structure and to ensure that adequate waterway is provided in the Yamuna River. The 90th meeting of Yamuna Standing Committee (YSC) was held on 16.10.2019 under the Chairmanship of Member (RM), CWC.

In this meeting, the model/feasibility studies for four projects were accepted:

- Northern Railway's New Yamuna Bridge for 3rd & 4th line between Tilak Bridge and Anand Vihar Station
- MRTS's bridge across river Yamuna on Maujpur-Majlis Park Corridor of Phase-IV on downstream side of Wazirabad Barrage.
- Feasibility Study of Elevated road along Yamuna river parallel to Ring road between Wazirabad Bridge & Salimgarh Bypass and Ring road Bypass (ITO) to Ring road near DND.
- Proposed bridge across river Yamuna for Delhi-Ghaziabad-Meerut Regional Rapid Transit System (RRTS) corridor

## National Workshop on Benchmarking of Minor Irrigation Schemes

The national workshop on Benchmarking for Minor Irrigation Projects was organised at Kohima on 18.10.2019 by the Water Resources Department, Govt of Nagaland to review and address the concerns of the Minor irrigation Projects in the North Eastern part of the country. The workshop was inaugurated by Shri Namri Nchang, Hon'ble Advisor, Water Resources Department, Govt. of Nagaland. The workshop was attended by participants from all over the country. The delegates and speakers include eminent experts from Water and Agriculture fields. Shri Amrendra Kumar Singh, Chief Engineer (POMIO), CWC addressed the gathering and shared the government's focus on providing accessibility of drinking water to its citizens.





## Launch of Flood Module of e-PAMS

CWC, in association with NIC, has developed an online Project Appraisal Management System (e-PAMS) for efficient and transparent appraisal of water resources projects. There are three modules in the e-PAMS, one each for the Irrigation & Multi-purpose Projects, Flood Control/Coastal Protection Projects including Projects dealt with by the Ganga Flood Control Commission (GFCC) and the Externally Assisted & National Projects.

The Irrigation & Multi-purpose Projects Module of e-PAMS was soft-launched on 05.09.2018 and it stands operationalised with effect from 25.02.2019 with its formal launch when a National Workshop on e-PAMS was also organised at New Delhi.

The Flood Module, after its successful test-runs, was launched at GFCC, Patna by Shri C K L Das, Member (C), GFCC on 22.10.2019 in the presence of Shri Atul Jain, CE (PAO), CWC, Shri Atul Nayak, CE (LGBO), CWC, Shri A.K. Singh, Engineer-in-Chief, WRD, Govt of Bihar and Shri Sajjad Akhtar, Sr. Technical Director, NIC. A familiarization workshop on e-PAMS was also held for the officers of State Govt of Bihar, GFCC and regional offices of CWC during 22nd -23rd October 2019. Officers from CWC and NIC acquainted the participants with each and every aspect of submission and appraisal through e-PAMS for both the irrigation and flood category of projects.



Launch of Flood Module of e-PAMS



Trainers for the workshop

## Expert Project Review Committee Visit to Rajasthan Feeder and Sir Hind Feeder



An Expert Project Review Committee has been constituted to guide/oversee the overall implementation of "Relining of Sirhind Feeder from RD 119700 to 447927 and Relining of Rajasthan Feeder from RD 179000 to 496000 of Punjab" till completion and to examine the progress of the work from all angles. It is headed by Member (WP&P), CWC and includes representation from State Govt. of Punjab, Rajasthan, CSMRS, IIT Delhi etc. The Committee visited the Project during 22nd - 24th October 2019 and inspected the work and discussed various matters including the supply of drinking water to Rajasthan during the period of execution of work and gave suggestions for appropriate construction of the work.



## Project Monitoring

CWC through its HQ and field offices monitors the water resources projects under execution. This helps in the identification of bottlenecks, ensures that the funds are being utilized properly and forms the basis for assessing further funding requirements. During the month, two monitoring visits have been carried out by CWC field units for on-going prioritized projects under Pradhan Mantri Krishi Sinchayee Yojana - Accelerated Irrigation Benefit Programme (PMKSY-AIBP). Proposal for release of 1st instalment of Central Assistance of Rs. 485.37 Crore during 2019-20 in respect of Sardar Sarovar Project of Gujarat has been recommended to DoWR, RD&GR, Ministry of Jal Shakti on 30.10.2019.

Apart from PMKSY-AIBP projects, CWC is also involved in the monitoring of CAD&WM Works & Surface Minor Irrigation (SMI) schemes under PMKSY, Flood Management schemes etc. In this context, Director & Dy. Director, Monitoring & Appraisal Directorate, CWC, Guwahati visited 5 (five) Surface Minor Irrigation Schemes under Bodoland Territorial Council region of Assam viz. Khatdong Field Irrigation Scheme (FIS), Thekerajuli FIS, Disam FIS, Lachit FIS and Udamari FIS on 24.10.2019. Among the 5 schemes, 4 schemes are a part of the cluster of 60 numbers of SMI schemes sanctioned in 2013-14 and one of the scheme i.e Udamari FIS forms a part of the cluster of 15 number of SMI schemes. These schemes are to be completed by 31.03.2020.

A SMI Scheme in Assam





During October, one CWC station on River Ghataprabha at Mudhol in Bagalkote district of Karnataka observed **Extreme Flood Situation** from 21st to 25th October 2019.

51 CWC Stations in Assam, West Bengal, Bihar, Maharashtra, Madhya Pradesh, Haryana, Odisha, Kerala, Telangana, Gujarat, Uttarakhand, Uttar Pradesh, Tamilnadu, Andhra Pradesh and Jammu & Kashmir observed **Above Normal Flood Situation** during May to October 2019.

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## Workshop on Management of Floods: Reservoir Management

**One-Day National Flood Forecasting and Early Warning Workshop**

Presentation on Flood Forecasting and Early Warning  
by Sh. Sharad Chandra, Director(FFM), CWC

- [illegible]

## MoU with THDCIL

Under the MoU, CWC will provide the Seismological data to THDCIL and also establish Hydrological Observation Station at downstream of proposed Sankosh Multipurpose Project in Bhutan near to international border between India and Bhutan. The data of Seismological Observations in Highly Seismic Zone and HO data at International border will be useful not only fulfilling the requirement of THDCIL but also in long term perspective for future planning of Water Resources Projects in the vicinity.



## Dam Rehabilitation and Improvement Project (DRIP)



The 24th meeting of the Technical Committee (TC) for Dam Rehabilitation and Improvement Project (DRIP) was held on 24.10.2019, at Kozhikode, Kerala under the chairmanship of Sh A K Sinha, Chairman, CWC and TC to review the financial and physical progress of the DRIP



A meeting to review the progress of the development of version 2 of Dam Health and Rehabilitation Monitoring Application (DHARMA) was held on 17.10.2019 in CWC, HQ. DHARMA is a web based asset management tool developed and operationalized in 17 States.

### Visit to Hirakud Dam

Additional spillway, at a cost of Rs. 370 Crore, is being constructed for Hirakud dam under DRIP to safely discharge the floodwaters to the tune of 9,000 cumec. A third party construction supervision visit was organized to Hirakud dam to review the quality and progress of the construction of additional spillway on the left bank of Gandhi Hillock during 16-17th October 2019.

The team also reviewed other issues affecting the progress with Odisha WRD officials and Hirakud Dam Authorities.



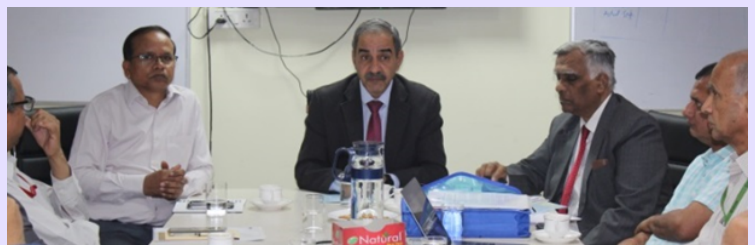
### MoU between CWC and WRD, Govt. of Odisha

A Memorandum of Understanding was signed for availing Consultancy Services of CWC for vetting & approval of designs & drawings related to the construction of additional spillway for Hirakud Dam under Dam Rehabilitation and Improvement Project (DRIP). Shri Sunil Naik, Chief Engineer and Basin Manager, Upper Mahanadi Basin, Odisha Water Resources Department and Shri T.K. Sivarajan, Chief Engineer, Designs (E&NE), Central Water Commission exchanged the MoU on 22.10.2019 in the presence of Chairman, CWC and other senior officials of CWC, and the World Bank officials.



### ICOLD-2020

88th Annual Meeting and Symposium of the International Commission on Large Dams (ICOLD) is scheduled to be held in New Delhi during 4-10th April 2020. DRIP is collaborating with ICOLD and INCOLD in organizing ICOLD 2020. A consultation meeting of the potential sponsors and exhibitors of ICOLD 2020 was organized in CPMU office, New Delhi on 30.10.2019. The meeting was attended by Chairman, BBMB, President INCOLD, CPMU, CBIP and Industrial representatives.



CWC in collaboration with World Bank is developing a framework for Rapid Risk Screening of dams for prioritising resource allocation. A team comprising of experts/officials, few dam owners along with World Bank expert deliberated on various tools available for way forward during 15-25th October 2019.



Shri Nitya Nand Rai, Director, Hydrology (South), Shri Maneesh Jaiswal, Deputy Director, Hydrology (DSR) and Ms. Isly Issac, Assistant Director, Hydrology (South) delivered lectures during training on Design Flood Analysis under DRIP-Phase-II at Raipur, Chhattisgarh during 14-17th October 2019

### Gallery- Swachhata Hi Seva





## Design Consultancy- Visit to North East

CWC officers visited the proposed Haora Dam Project and Champai Cherra Dam Project sites in Tripura and Katakhal Irrigation Project site in Assam during 14-17th October 2019. Team identified the additional data needed for design of the projects.



## Joint Site Visit to Seijosa, Arunachal Pradesh

A team of design experts from CWC, HQ visited the project area of the proposed flood protection works at Seijosa in East Kameng district of Arunachal Pradesh on 31.10.2019 along with Officers from Govt. of Arunachal Pradesh, Govt. of Assam, Brahmaputra Board and CWC, Shillong. The visit began with a meeting with Village Gaon Buras/Headmen and NGOs. The Village representatives expressed their misery and suffering due to severe erosion by the river Pakke at left bank upstream of Bordekorai Irrigation Scheme near Assam-Arunachal Pradesh border. Thereafter, the team visited the proposed flood protection works site and gave its recommendations/observation.



## Visit to Decorai Irrigation Project

The Joint team visited the Decorai Irrigation project at the Arunachal Pradesh and Assam border wherein detailed discussions were held on gate operation of the barrage in order to safeguard the erosion affected area just upstream of the barrage. The officials of Govt. of Assam informed that the gates are closed to raise water level only if there is demand from the command otherwise all the gates of the barrage are always remain raised. Due to this reason, the flow is more concentrated towards under sluice bays that is left bank of the river. Hence, the left bank of the river has become more prone to erosion which has the potential of even outflanking the barrage.

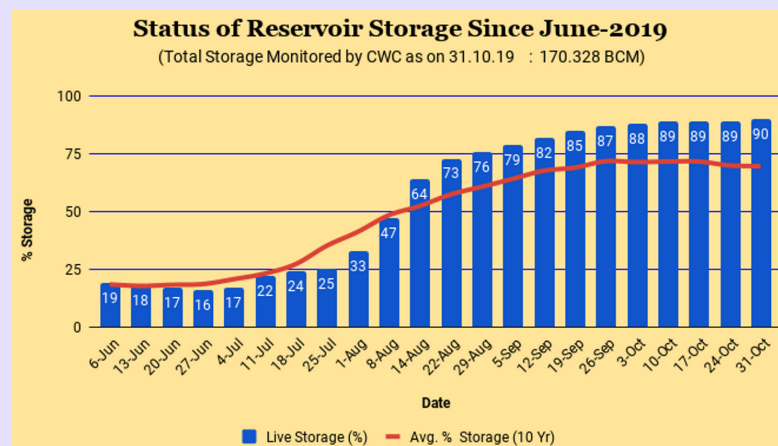


Team suggested that it would be appropriate to consider the whole issue in a holistic way and a multi-pronged strategy needs to be adopted for tackling the problem. Protection measures such as revetment, spurs, operation of the barrage and requirement of Model study of the complete reach to finalize the gate operational strategy of the barrage was discussed and suggested.

## Water Conservation in Reservoirs

CWC is monitoring live storage status of 113 reservoirs of the country on a weekly basis and is issuing a weekly bulletin on every Thursday. During October, 7 additional reservoirs have been included in this monitoring.

The total live storage capacity of these 120 reservoirs is 170.328 BCM which is about 66.06% of the live storage capacity of 257.812 BCM which is estimated to have been created in the country. As per reservoir storage bulletin dated 31.10.2019, live storage available in these reservoirs is 153.299 BCM, which is 90% of the total live storage capacity of these reservoirs. The live storage available in 120 reservoirs is 133% of the live storage of corresponding period of last year and 129% of storage of average of the last ten years.



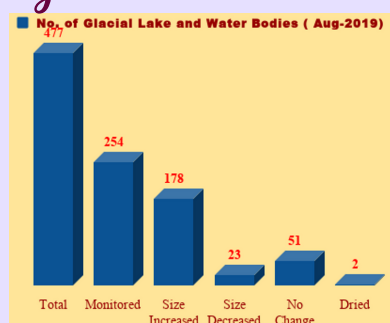
## Irrigation Atlas of India



The second meeting of the Inter-Departmental Committee for Preparation of Irrigation Atlas of India (IAI) was held on 18.10.2019 under the chairmanship of Shri S. K. Halder, Member(WP&P), CWC

## Glacial Lake Monitoring

Every year during June to October, CWC monitors the size of Glacial Lakes (GL) & Water Bodies (WB) that are larger than 50 ha in the Himalayan region using satellite data. These were digitised in the year 2009 and their current sizes are analyzed with respect to size in the year 2009. Summary of their size variation in month of August 2019 has been given in the adjacent chart.





## News around the States

During the month of October, the Union Home Minister has approved advance release of Rs.400 crore to the State of Bihar and Rs.1200 crore to the State of Karnataka from National Disaster Response Fund (NDRF). He has further approved the advance release of 2nd instalment of centre's share of SDRF amounting to Rs.213.75 crore to the State of Bihar for the year 2019-20.

## Water Sector- News

- Jal Jeevan Mission aims to give tap-water to all households by 2024 (Business Line, Delhi, 02.10.2019)
- Death toll in Bihar floods soars to 73 (The Hindu, 04.10.2019)
- Govt. committed to Teesta accord : Modi (The Statesman, 06.10.2019)
- Monsoon begins its most delayed retreat in 59 years (The Times of India, 10.10.2019)
- Jamrani dam in U'khand gets environmental clearance (Millennium Post, 17.10.2019)
- Power firm takes Water Ministry to court over Ganga notification (The Hindu, 23.10.2019)
- Krishna goes into spate for fourth time this season (The Hindu, 25.10.2019)
- AP likely to drop interlinking of Godavari through Telangana (The Hans India, 30.10.2019)

## Vigilance Awareness Week

CWC observed Vigilance Awareness Week during 28th October to 2nd November 2019 and officers & staff took a pledge on 28.10.2019 at CWC, HQ.

On 30.10.2019, CWC organized a conference on theme 'Integrity- A way of Life' at New Delhi during Vigilance Awareness Week-2019. It was inaugurated by Sh. U.P. Singh, Secretary, DoWR, RD & GR, MoJS in presence of Sh. A. K Sinha, Chairman, CWC and other officers of Ministry, CWC, NWIC, NWDA, CGWB etc. During the workshop, Sh. Arun Gaur, Former Joint Secretary, UPSC, Sh. Ravindra Kumar, Former Director, erstwhile MoWR, Sh. Surendra Garg, Director (Vigilance), DoWR, RD&GR, MoJS etc. spoke on various aspects of vigilance.

All the regional offices of CWC also observed Vigilance Awareness Week. In this week, various activities such as integrity pledge, debate competition, workshop, human chain formation, display of placards, distribution of pamphlets, quiz competition were conducted.



## Retirement/Promotion

- Sh. A. K. Sinha, Chairman, CWC retired on 31.10.2019 after 36 years of illustrious service.
- Sh. J. Chandrasekhar Iyer, a Senior Administrative Grade (SAG) officer, has been promoted to Higher Administrative Grade (HAG) and posted as Chairperson, Godavari River Management Board.

## Obituary

CWC organized a memorial meeting for Shri R. B. Shah & Shri S.K. Das, former Chairmen of Central Water Commission who left for heavenly abode on 11.10.2019 and 16.10.2019 respectively.

Late Shri R. B. Shah was a field-oriented man and during his tenure as Chief Engineer, CWC, he did pioneering work in the field of survey and investigation for several prestigious projects in India, Nepal and Bhutan. Many of them have been completed and working successfully today. It is all due to his dedication and untiring efforts. He served as Chairman, CWC from 01.07.1989 to 28.02.1990. He was undoubtedly a man of determination and strong will. His administrative capability and will power were commendable. Even after superannuation he was very much active and contributed a lot in the water sector. He was also conferred civilian honour by Royal Govt. of Bhutan for his contribution in Hydropower development in the country. His role in the preparation of landmark Rashtriya Badh Ayog Report was also remembered on the occasion.

Late Shri S. K. Das, born in 1947 in current day Bangladesh, joined CWC in 1972. He was known for his wit, erudition and teaching skills. He was the person who established the Dam Safety Organisation in CWC and pursued & encouraged state governments to take initiative in dam safety. During his tenure as Commissioner (Eastern River) of erstwhile Ministry of Water Resources, Gol, the treaty on sharing of Ganga water between India and Bangladesh was signed in December 1996. As Member (D&R) and Chairman, CWC he brought some significant changes in CWC. He served as Chairman, CWC from 01.12.2006 to 31.07.2007. Even after superannuation, he was active in teaching in many institutions of repute like IIMs, Jadavpur



**Shri R. B. Shah**  
(09.02.1932 to 11.10.2019)



**Shri S. K. Das**  
(07.07.1947 to 16.10.2019)

University etc. He was a regular visiting faculty to NWA, Pune.

Both officers were an epitome of inspiration and encouragement to the entire CWC fraternity. Retired senior officers as well as current officers/staff attended the memorial meeting and paid their tribute to the above officers.



## 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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Central Water Commission

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

