



JALANSH



The Monthly Newsletter of Central Water Commission

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**S. Masood Husain,
Chairman, CWC
Message**

Important cabinet decisions were taken during the month as far as the water sector is concerned. Firstly, the large hydropower projects (installed capacity more than 25 MW) were declared as one of renewable energy sources. This step is going to provide necessary boost to the sector and hopefully contribute towards better utilization of hydropower potential available in the country. In addition to above, the Flood Management and Border Areas Programme (FMBAP) scheme was approved for the period 2017-18 to 2019-20 with a total outlay of Rs.3342.00 crore. CWC is involved in overseeing and monitoring of various components of this important scheme of Govt. of India.

Important meetings were held with representatives of Royal Government of Bhutan (RGoB)

and Govt. of Nepal with respect to cooperation in water sector. I had the opportunity to lead the Indian Side during the 3rd meeting of Team of Experts (ToE) for Pancheshwar Multipurpose Project held in Kathmandu, Nepal during 27.2.19-28.2.19. During the meeting, several outstanding issues were resolved. Efforts are now being undertaken to take up the balance outstanding issues. The 35th JET (Joint Expert Team) meeting between RGoB and Govt. of India was held in Bhutan to oversee and review the comprehensive scheme for establishment of H&FF network on common rivers.

Centre for Policy Research (CPR), an independent and premier public policy research think tank in association with CWC, hosted the "Roundtable of States" on March 6, 2019 at CWC Headquarters. Various issues and challenges of interstate river water governance in the country were discussed during the event which was participated by more than sixty participants from various State and Central Govt. organizations.

Considering the success and achievement of Dam Rehabilitation and Improvement Project (DRIP), the Government of India has initiated the next phases of the

Project with the World Bank support. In this regard, the first Consultation Meeting on DRIP Phase-2 and Phase-3 was organized on 18th March, 2019 at New Delhi.

CWC is setting up coastal data collection sites in various maritime States in collaboration with respective State Govts. and expert institutions engaged in this area. In this regard, two tripartite MoUs were signed during March, 2019 for State of Goa and Maharashtra (southern coast) respectively. In these tripartite MoUs, CWC will be Project Implementer, National Institute of Oceanography (NIO), Goa will be Project Executor and respective State Govts. will be Project Facilitator.

CWC Headquarter and its field offices participated actively in Swachhta Pakhwada during 16-31st March, 2019. The activities included cleaning of nearby areas and water bodies, plantation drive, organizing competition for school children. These activities also brought out imaginative thinking and perspectives of our younger generation with respect to cleanliness and water conservation. CWC also observed the World Water Day on 22nd March 2019. Some moments from above activities have been captured in subsequent sections of the newsletter.

(Signature)

अंधम बलम जलम च आहुह प्रणेत्यम विकासनव

"Blind is the force of water and fire which has to be guided with discrimination.."

-Mahabharata



Sh. Alok Rawat, former Member of National Commission for Women and former Secretary, MoWR delivered a talk on "Women Empowerment in male dominated society" on 7.3.19 at CWC, HQ, New Delhi



Sh. R.K. Sinha, Member(RM), CWC and other officers of CWC-HQ, New Delhi interacting with Officers of TBO, CWC, Kolkata through Video Conferencing 13.1.19

A Roundtable of States: Interstate River Water Governance



Sh. S. Masood Husain, Chairman, CWC, Sh. U. P. Singh, Secretary, MoWR, RD&GR, Sh. A. B. Pandya, Secretary General, ICID and Dr. Srinivas Chokkakula, MoWR Research Chair, CPR during the Roundtable of States



Participants during Roundtable of States

Centre for Policy Research (CPR), New Delhi in association with MoWR, RD&GR and CWC, Gol, organized a "Roundtable of States" on 6.3.19 at the CWC Headquarters, New Delhi to discuss the challenges of interstate river water governance in the country.

The roundtable contemplated over the major issues linked to interstate rivers water governance. The full day roundtable deliberations comprised of two consultation sessions-

First session was chaired and moderated by Sh. U.P. Singh, Secretary, MoWR, RD&GR and session brainstormed a research agenda which was presented by Dr. Srinivas Chokkakula, the MoWR Research Chair. Second session was chaired and moderated by Sh. S. Masood Husain, Chairman, CWC.

The roundtable has been organized as part of an inception process of the recently established "MoWR Research Chair- Water Conflicts and Governance" at CPR. The Ministry and the CWC wanted the States to set the agenda and contribute to it by bringing in States' perspectives to the table. 60 plus participants included Principal Secretaries of Water Resources Departments of States/UTs, Chief Engineers of state Water Resources departments, and representatives from Central agencies such as the National Water Development Agency (NWDA), National Mission for Clean Ganga (NMCG), Inland Waterways Authority of India (IWAI),

National Institute of Hydrology (NIH). Representatives from river boards in the country such as the Bhakra-Beas Management Board, Upper Yamuna River Board, Godavari River Management Board.

During first session, Sh. U.P. Singh, Secretary, MoWR, RD&GR, mentioned that there is immediate need for bringing the change in discourse and policy thinking. He emphasized on enabling cooperation arrangements among the States at the time of conflict. He also suggested that the Research Chair established by MoWR to look into all such cooperation instances.

During second session, focus was given on identifying the precise challenges of interstate coordination, so that the policy making can consider them. Chairman, CWC echoed the necessary shift stressed by the Secretary towards enabling an ecosystem for interstate cooperation and informed that CWC, with the benefit of the MoWR Research Chair in place, will continue to engage with States on this matter.

The participants felt that it was an important initiative by the MoWR, RD&GR to engage with States/UTs on these crucial issues of federal governance. Secretary, MoWR, RD&GR and Chairman, CWC expressed their deep satisfaction with the enthusiastic participation of States/UTs and hoped to continue with similar interactions.

35th JET (Joint Expert Team) meeting between RGoB and Govt of India

The 35th JET (Joint Expert Team) meeting between RGoB and Govt of India was held during 6.3.19-7.3.19 at Paro, Bhutan. The JET was constituted to oversee and review the progress under the comprehensive scheme for establishment of Hydro- meteorological Observation & Flood Forecasting network on rivers originating from Bhutan and flowing through India.

Gol delegation was led by Sh. P M Scott, CE, B&BBO, CWC, Shillong & Team Leader, Indian Side, JET. Other members of the delegation included Sh. Vaseem Ashraf, SJC, B&B, MoWR, RD&GR, Sh. S.L Meena, Director (Fin), MoWR, RD&GR, Sh. Ravi Ranjan, SE, HOC, CWC, Guwahati and Sh. Sudipta Sarkar, EE, BID, CWC, Bhutan. RGoB delegation was led by Sh. Karma Dupchu, Director, National Centre for Hydrology and Meteorology (NCHM).

During the 35th JET meeting, the progress of Flood Warning Program of Gol implemented through NCHM, RGoB was reviewed and several decisions taken.

A comprehensive scheme for establishment of Hydro-Meteorological and Flood Forecasting Network on rivers common



to India and Bhutan is also in operation for transmission of real time data to control rooms in India since the year 1955. The cost of operation and maintenance of these sites in Bhutan is borne by India. Officers from both the sides meet twice a year alternatively in India and Bhutan to oversee its implementation

Important Cabinet Decisions

Flood Management and Border Areas Programme

Cabinet has approved the "Flood Management and Border Areas Programme (FMBAP)" for Flood Management Works in entire country and River Management Activities and works related to Border Areas for the period 2017-18 to 2019-20 with a total outlay of Rs.3342.00 crore. "FMBAP" has been framed by merging the components of two continuing XII Plan schemes titled "Flood Management Programme (FMP)" and "River Management Activities and Works related to Border Areas (RMBA)".

The Flood Management component of the scheme has beneficiaries across the country who are affected by floods. The RMBA component is specific to activities in border areas with neighbouring countries such as Bangladesh, Nepal, China, Pakistan and Bhutan.

The proposal will benefit towns, villages, industrial establishments, communication links, agricultural fields, infrastructure etc. from floods and erosion in the country. The catchment area treatment works will help in reduction of sediment load into rivers. The works under the scheme will protect valuable land from erosion and flooding and help in maintaining peace along the border.

Measures to promote Hydro Power Sector

India is endowed with large hydropower potential of 1,45,320 MW of which only about 45,400 MW has been utilized so far. Only about 10,000 MW of hydropower has been added in the last 10 years. The hydropower sector is currently going through a challenging phase and the share of hydropower in the total capacity has declined from 50.36% in the 1960s to around 13% in 2018-19.

Now, Government has decided that Large Hydropower Projects to be declared as Renewable Energy source (previously only hydropower projects less than 25MW are categorized as Renewable Energy.

Teesta Stage-VI HE Project, Sikkim

NHPC Ltd got investment sanction for acquisition of M/s Lanco Teesta Hydro Power Ltd (LTHPL) and execution of balance work of the Teesta Stage-VI HE Project in Sikkim. It consists of construction of a 26.5 m high Barrage across river Teesta; Two nos Horse Shoe shape Head

Aims of FMBAP are :-

- To assist the State Governments to provide reasonable degree of protection against floods in critical areas by adopting optimum combination of structural and non-structural measures and enhancing capabilities of State/ Central Government officials in related fields.
- It will protect valuable land from erosion and flooding and help in maintaining peace along border.
- The Scheme will caters to Hydro-meteorological observations and Flood Forecasting on common rivers entering India from the neighbouring countries.
- It will conduct survey and investigations, preparation of DPR etc. of water resources projects on the common border rivers.

Monitoring of the Flood Management Programme would be conducted by Central Water Commission (CWC), Ganga Flood Control Commission (GFCC) and Brahmaputra Board (BB) in their respective jurisdiction. RMBA component will be monitored by Central Water Commission & Ganga Flood Control Commission.

As on 2018, Projects having capacity of 10973 MW were under construction and capacity of 93732 MW are yet to be taken up to realize the full potential.

Government has also accepted to consider budgetary support for funding flood moderation component of hydropower projects on case to case basis.As most of the hydro power potential is located in the higher reaches of Himalayas and North- East Region, it will result in overall socio-economic development of the region by providing direct employment in the power sector.

Race Tunnels of 9.8 m dia with 13.76 km length; an underground Power House having 4 no Units of 125 MW each. The project would generate 2400 MUs in a 90% dependable year with Installed Capacity of 500 MW (4x125MW)

Visit to Hydroelectric projects, Uttarakhand

Sh. T.K. Sivarajan, CE, Designs(E&NE), CWC and Sh. P.K. Shukla, CE (HPM), CEA, being a part of Committee constituted by MoWR, RD&GR conducted spot assessment and assessed the physical progress of three Hydroelectric projects in Uttarakhand, namely, Kotlibhel 1A (195 MW), Kotlibhel 1B (320MW) and Lata Tapovan (171MW). The Committee carried out the site visits and on the spot assessment during 24.3.19-26.3.19.

Project Name	River	Project Proponent	Proposed Annual Generation
KOTLIBHEL 1A	Bhagirathi	NHPC	1025.50 MU
KOTLIBHEL 1B	Alaknanda	NHPC	1278.30 MU
LATA TAPOVAN	Dhauliganga	NTPC	868 MU



Committee visiting Lata Tapovan HEP, Uttarakhand



Committee visiting Kotlibhel 1A& 1B HEPs, Uttarakhand

Coastal Management Information System-CMIS



Department of Ocean Engineering at IITM, Chennai organized the Second National Workshop on Coastal Management Information System (NWCNIS – 2019) with support of CWC on 11.3.19.



Fourth meeting of the Project Monitoring Committee (PMC) for the implementation of Coastal Management Information System (CMIS) held at IITM, Chennai on 12.3.19. The meeting was chaired by Sh. N.M.Krishnanunni., Chief Engineer, CSRO, CWC, Coimbatore

Tripartite MoU for CMIS among CWC, NIO and Govt. of Goa and Maharashtra

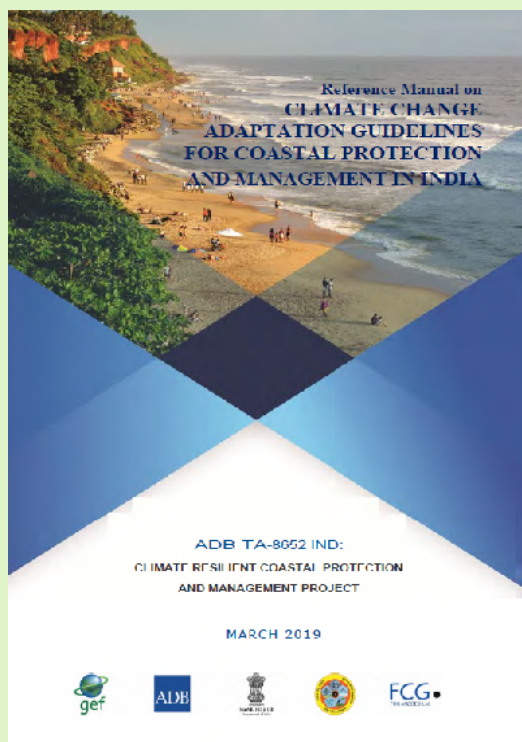
A Tripartite MoU for implementation of CMIS in Maharashtra (Southern Coast) was signed among CWC as Project Implementer, National Institute of Oceanography (NIO), Goa as Project Executer and Govt. of Maharashtra as Project Facilitator at Goa on 26.3.2019. Another Tripartite MoU for implementation of CMIS in Goa was signed among CWC as Project Implementer, NIO, Goa as Project Executer and Govt. of Goa as Project Facilitator at Goa on 27.3.2019. Similar MoUs have already been entered with other agencies and States/UTs. These are summarized as below.

No.	Project Implementer	Project Executer	Project Facilitator	No. of Sites
1	CWC	IIT, Madras	Tamil Nadu	1
2			Kerala	1
3			Puducherry	1
4	CWC	CWPRS, Pune	Gujarat	1
5			Maharashtra (Northern)	1
6	CWC	NIO, Goa	Maharashtra (Southern)	1
7			Goa	2



Signing of Tripartite MoU among CWC, NIO, Goa and Govt. of Goa on 27.3.2019 at NIO, Goa

Reference Manual for Coastal Protection and Management



Climate change is a major factor that affects economic sectors existing in the coastal zones. To address such issues, a scientifically well-founded reference manual for climate resilient coastal protection and management in India has been prepared under ADB-GEF (Global Environment Facility).

The same was released by Sh. U. P. Singh, Secretary (MoWR, RD&GR) in the presence of officers of ADB, CWC, Ministry during an event in New Delhi on 26.3.19.



Sh. Rajesh Yadav, Sr. Project Officer, ADB, Sh. J.C. Iyer, Commissioner (FM), MoWR, RD&GR, Sh. B.K. Karjee, CE (FM), CWC, Sh. N.K. Mathur, Member, D&R, CWC, Sh. U.P. Singh, Secretary, MoWR, RD&GR, Sh. Arnaud Cauchois, Principal Water Resources Specialist, ADB and Dr. M. Baba, Project Consultant & Former Director, CESS, Kerala

The reference manual includes guidance for design and planning of schemes, overview of physical coastal processes, evaluation of various protection measures, involvement of community role, and role of agencies working for coastal management. These guidelines will provide holistic approach for overall protection of Indian coastline.

DRIP -Phase II and Phase III

Dam Rehabilitation and Improvement Project (DRIP) is one of the flagship projects of the MoWR, RD&GR, GoI and the World Bank. The Objective of the Project is to improve the dam safety and operational performance of selected dams of the Country, with emphasis on institutional strengthening with system wide management improvement along with sustainable operation and maintenance. Considering the success and achievement of DRIP, the Government of India has initiated the next Phases of the Project with the World Bank Support

18 States and two Central Organisations are proposed to be included to be a part of DRIP Phase-II and Phase-III. The Project is to be financed by World Bank; participating States and Central Govt. The overall implementation as well as supervision of the Project would be coordinated and supervised by the Central Water Commission through a Central Project Management Unit (CPMU). Day-to-day project coordination and management at the State level is to be done by State Project Management Units. The first consultation meeting for the same has been held on 18.3.19 for kickstarting the preparation of phase of the project likely to start in June 2020 wherein lessons learnt in DRIP and road map to Phase II and Phase III were discussed.

The Project is to be implemented over a period of 10 years, in two phases, with each phase of 6 years duration and an overlap of 2 years over each other.

Project Cost		Implementing States	
World Bank	Rs. 7000 Crore	• Andhra Pradesh	• Manipur
States	Rs. 2800 Crore	• Bihar	• Meghalaya
Central Agencies	Rs. 400 Crore	• Chhattisgarh	• Odisha
Components of Project Rehabilitation and Improvement of Dams and Associated Appurtenances Dam Safety Institutional Strengthening Incidental Revenue Generation for sustainable operation and maintenance of dams Project Management		• Goa	• Punjab
		• Gujarat	• Rajasthan
		• Karnataka	• Tamil Nadu
		• Kerala	• Telangana
		• Madhya Pradesh	• Uttar Pradesh
		• Maharashtra	• West Bengal
		Central Implementing Agencies	
		Central Water Commission (CWC)	
		Bhakra Beas Management Board (BBMB)	

Smart India Hackathon(SIH)- 2019

Smart India Hackathon is an initiative that provides students a platform to resolve the day to day issues with innovative and problem solving mindset. SIH-2019 was organized by MHRD, AICTE in association with other organisations. For the event MoWR, RD&GR sent 5 problems in which 2 were from CWC. The problem statement sent by CWC are-

1-Collection of real time data of inundated areas during floods

CWC in collaboration with Google is in the process of development of inundation maps to provide improved flood forecast. There is need to develop a mobile application for crowd sourcing of real time data from the public residing in flood affected areas. The crowd source data with images, geo-locations and time-stamps can be used for ground truthing of inundation maps.

2-Collection and reporting of data in respect of waste water from the canals and other water retaining structures. There are thousands of kilometers canal structures and breaches/malfunctioning/misuse is observed at many places. Mobile application for reporting of such instances, should be able to take about 5 to 10 images and /or video and upload it to the web with geo-location and time stamp. The information in the form of notification/alert may go to the concerned district level administrative officer who in turn can forward the same to the concerned engineering department and keep a track of it.

Team of students from different part of India assembled to solve the problems of MoWR, RD&GR at Sri Sivasubramaniya Nadar College of Engineering, Chennai during grand finale of SIH-2019 on 2-3 March, 2019. Sh. B. B. Saikiya, Director, CWC and Sh. Mohd. Faiz Syed, DD, CWC were nominated as judge/evaluator from CWC for the event.



Smt. T Rajeshwari, Addl. Secretary (MoWR, RD&GR), Sh. Juanil Kamal Ahmed, Country Director, World Bank, India Office, Sh. U.P. Singh, Secretary (MoWR, RD&GR) and Sh. S. Masood Husain, Chairman, CWC during First Consultation Meeting on DRIP Phase II and Phase III on 18.3.19 in New Delhi



CWC Officer with the SIH-2019 Participants



Two CWC Officers (R-L) during Grand Finale Event

World Water Day- 2019



World Water Day celebration at CWC HQ, New Delhi



School students participated in different competitions on World Water Day 2019 celebration at CWC, Coimbatore offices



Painting made by school student on the occasion of World Water Day



World Water Day celebration at UGBO, Lucknow

World Water Day is observed annually on 22 March as a means of focusing attention on the importance of freshwater and advocating for the sustainable management of freshwater resources. An international day to celebrate freshwater was recommended at United Nations Conference on Environment and Development (UNCED) in 1992 and 22 March was designated a World Water Day in 1993. World Water Day-2019 was celebrated with the theme

'Leaving no one behind', which is the central promise of the 2030 Agenda for Sustainable Development: as sustainable development progresses, everyone must benefit.

World Water Day celebration was observed at CWC HQ and other regional offices of CWC. During celebration, technical sessions, different competitions were organized for schools like quiz, painting etc.

Joint Team of Experts/Officials for Pancheshwar Multipurpose Project

After submission of draft final DPR by WAPCOS during November – December 2016, a total of 575 issues were identified by Govt. of India, Govt. of Nepal and PDA. In order to resolve these issues to enable finalization of the DPR, a Team of Experts was formed by both the Governments in May 2017.

The 3rd meeting of Team of Experts/Officials (ToE/O) for Pancheshwar Multipurpose Project was held at Kathmandu, Nepal during 27.2.19–28.2.19. The meeting was held in a cordial atmosphere. The Indian delegation was led by Sh. S. Masood Husain, Chairman, CWC while the Nepalese team was led by Sh. Devendra Karki, Secretary, Water and Energy Commission, Nepal. The pending issues were taken up by different sub-groups formed during the meeting and 32 were resolved. Efforts are now being undertaken to next ToE meeting to take up the balance 128 outstanding issues.

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.

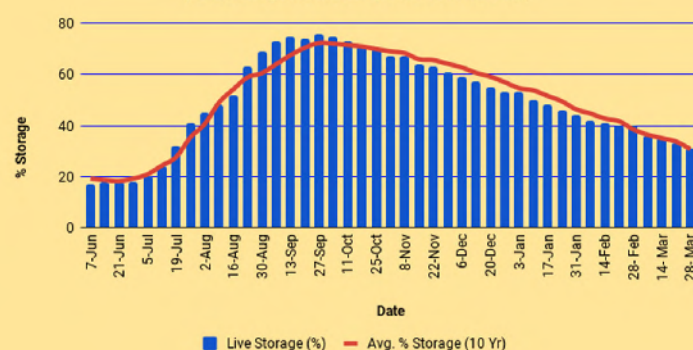
As per the reservoir storage bulletin dated 28.3.19, the live storage available in these reservoirs is 50.307 BCM, which is 31% of the total live storage capacity of these reservoirs. This is 110% of the live storage of the corresponding period during last year, and 101% of the average storage over the last ten years.



Team leaders Signing the Minutes of the third meeting of Joint Team of Experts on 1.3.19 at Kathmandu

Status of Reservoir Storage during Mar-2019

(Total Storage Monitored by CWC-161.993 BCM)



Gallery-Swachhata Pakhwada-2019



Rallies for mass awareness

Swachhata Pakhwada began in April 2016 with the objective of bringing a fortnight of intense focus on the issues and practices of Swachhata by engaging GoI Ministries/Departments under the Swachh Bharat Mission. This year, Swachhata Pakhwada was observed in all the offices of CWC all over India during 16.3.19-31.3.19.

During the event, various activities were organized by CWC HQ and field offices like cleaning of nearby places, different water bodies, river ghats. Cleaning activities were performed at Ram Ghat, New Delhi, Punpun Ghat, Patna, Narasipura water tank, Bangalore and at many more places across India.



Colours Portraying "Clean India" by School Children

Rallies were organized for creating awareness about cleanliness in various cities including Bhubaneswar, Pune, Hyderabad, Bangalore etc. CWC officials undertook plantation activity during this period in the office premises such as New Library Building, New Delhi, Regional offices etc.

For generating awareness among the school students, CWC offices all over the country organized mass awareness activities like quiz competitions, painting competitions and pledge taking ceremonies.



Cleaning activities of nearby places and Water Bodies



Painting and Quiz competitions in schools

Plantation activities at different CWC Offices

Water Sector in News

- TERI signs MoU with WAPCOS on power, water and infra (The Economic Times, 6.3.19)
- Maharashtra dams have only 33% water stock left (Financial Express, Delhi, 7.3.19)
- Govt. okays NHPC plan to buy Lanco's Teesta hydro project for Rs. 907 crore (Financial Express, 8.3.19)
- Flows of funds for river Ganga (Mail Today, Delhi, 10.3.19)
- India puts off Pak visit for Indus basin inspection (The Times of India, New Delhi, 11.3.19)
- Rivers are critical for groundwater recharge (Hindustan Times, 12.3.19)
- 3 panels to look after dam safety (The New Indian Express, 13.3.19)
- Telangana's new bid to stall Polavaram (The Hindu, New Delhi, 19.3.19)
- Uttarakhand shelves hydropower plans on eco-sensitive Bhagirathi (DNA, 22.3.19)

Appreciation



CWC got "BEST STALL" Award at Women Empowerment Exhibition, Shimla 2019 held during 12.3.19- 14.3.19 at Shimla

Initiatives by States-Jalyukt Shivar

Maharashtra government launched the project "Jalyukt Shivar Abhiyaan" in a bid to make Maharashtra a drought-free state by 2019. Every year 5000 villages have been targetted under the programme. The project involves deepening and widening of streams, construction of cement and earthen stop dams, work on nullahs and digging of farm ponds. Under the programme, works of compartment bunding, desiltation, mud nalla bunding, cement check dams, repairs of bunding, KT weirs, farm ponds and village talao, refilling of wells, recharge shaft, drip irrigation and sprinkle irrigation have been brought together. The mobile app, developed by MRSAC, is being used to map these locations.

Important Links

Beneath the Surface: The State of the World's Water 2019

<https://washmatters.wateraid.org/sites/g/files/jkxoo256/files/beneath-the-surface-the-state-of-the-worlds-water-2019-.pdf>

e-Bhagirath Magazine

<http://202.159.215.252:85/>

UN World Water Development Report 2019: Leaving No One Behind

<https://en.unesco.org/water-security/wwap/wwdr/2019#download>

History- Bhakra Dam



2nd Highest Dam in India

River- Satluj

Height- 226m

Length-518m

Purpose- Irrigation and Hydro-electric

Construction Completed- 1963 (Rs. 248.28 crore)

No. of Spillway Gates-4

Spillway capacity- 8212 cumec

Bhakra Right Bank Power House is 785 MW

Bhakra Left Bank Power House is 594 MW

Area Irrigated -36 Lakh ha

No. of Towns electrified -128

"Bhakra Nangal Project is something tremendous, something stupendous, and something which shakes you up when you see it. Bhakra, the new temple of resurgent India, is the symbol of India's progress."

Jawaharlal Nehru



Central Water Commission

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

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