



केंद्रीय जल आयोग

Central Water Commission

जल संसाधन एक दृष्टि में

Water Resources at a Glance
2021



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Central Water Commission, Sewa Bhawan, R.K. Puram, New Delhi



केंद्रीय जल आयोग Central Water Commission

मिशन वक्तव्य

अत्याधुनिक प्रौद्योगिकी और सक्षमता का उपयोग करके और सभी पणधारियों का समन्वय करके भारत के जल संसाधनों के एकीकृत और दीर्घकालिक विकास और प्रबंधन को बढ़ावा देना।

Mission Statement

To promote integrated and sustainable development and management of India's water resources by using state-of-the-art technology and competency and by coordinating all stakeholders.

Brief Profile of Central Water Commission



Dr. B. R. Ambedkar,
Founding father of CWC



Dr. A.N. Khosla,
Founding Chairman of CWC

Central Water Commission (erstwhile Central Waterways, Irrigation and Navigation Commission) was established in 1945 by the Government on the advice of Dr. B.R. Ambedkar, Member (Labour) in Viceroy's Executive Council. Since then CWC has evolved as a premier technical organization in the country in the field of Water Resources and is functioning as an attached office of the Department of Water Resources, River Development & Ganga Rejuvenation, Ministry of Jal Shakti. The Commission is entrusted with the responsibilities of initiating, coordinating and furthering, in consultation with the State Governments concerned, schemes for control, conservation and utilization of water resources throughout the country, for the purpose of Flood Control, Irrigation, Navigation, Drinking Water Supply and Hydro Power Development. It also undertakes the investigations, construction and execution of any such schemes, if required.

ORGANIZATION SET UP

CWC, with its headquarters at New Delhi, is headed by a Chairman, an Ex-officio Secretary to the Government of India. It has three technical wings, namely:

- Designs and Research Wing
- Water Planning and Projects Wing
- River Management Wing

Each wing is headed by a Central Water Engineering Services- Group 'A' officer designated as Member, an Ex-officio Additional Secretary to the Government of India. Members are assisted by officers of the rank of Chief Engineer & below. For better coordination with the States and to ensure basin-wise water resources management, 14 Regional Offices headed by Chief Engineer are functioning at various locations in the country. CWC has a dedicated Human Resources Management Unit headed by a Chief Engineer. In addition, National Water Academy at Pune headed by a Chief Engineer conducts training courses for the in-service engineers of Central/State Governments and other stakeholders.

The CWC has contributed substantially to the country's commendable progress achieved in creation of irrigation potential, flood management measures and hydro-power generation. The CWC is also responsible for strengthening international cooperation on matters relating to trans-boundary rivers by way of assistance in water resource development projects, hydrological observation and flood forecasting and operation of bilateral treaties and agreements.



Photo Gallery



Shri R. K. Jain, Chairman, CWC was the Chief Guest of the inaugural event of the RWC-2020. Addressing the gathering, he laid emphasis on formulating new mechanisms to address the impact of global warming on water resources. He also delivered keynote address during the conclave on overview of water resources management in the country.



Shri Gajendra Singh Shekhawat, Hon'ble Minister of Jal Shakti held a meeting on 10.02.2020 with senior officials of DoWR, RD & GR and CWC to review the draft of the Sediment Management Policy and gave various suggestions during the meeting.

Photo Gallery



A workshop on Atal Bhujal Yojana (ATAL JAL) was organised by DoWR, RD &GR, Ministry of Jal Shakti on 12.02.2020 to deliberate the way forward for implementation of the scheme. The workshop was presided over by Shri Rattan Lal Kataria, Union Minister of State for Jal Shakti and Social Justice & Empowerment. Officials of the Ministry, participating States, officials of the World Bank and members of leading NGOs participated in the workshop. It was also attended by Shri R.K. Jain, Chairman, Central Water Commission.



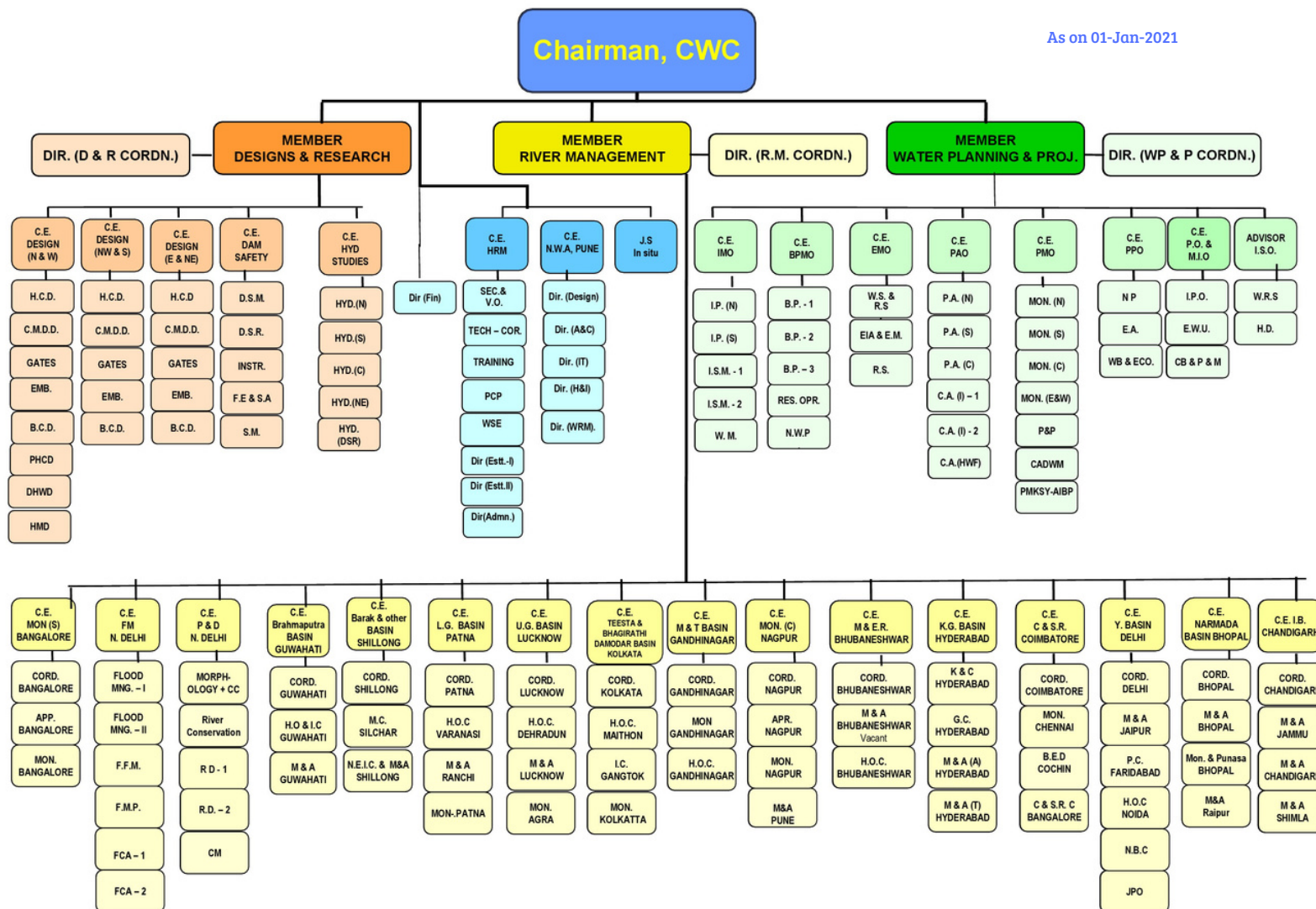
On 03.06.2020 Sh U.P. Singh, Secretary, Department of Water Resources, RD&GR took a meeting through VC on present Reassessment of Water Availability in India Study and further Studies required for assessment of utilizable water in the country. Meeting was attended by Chairman, CWC, Member (WP&P), CWC, Member (RM), CWC, Advisor, Niti Aayog and other senior officers.



Organogram

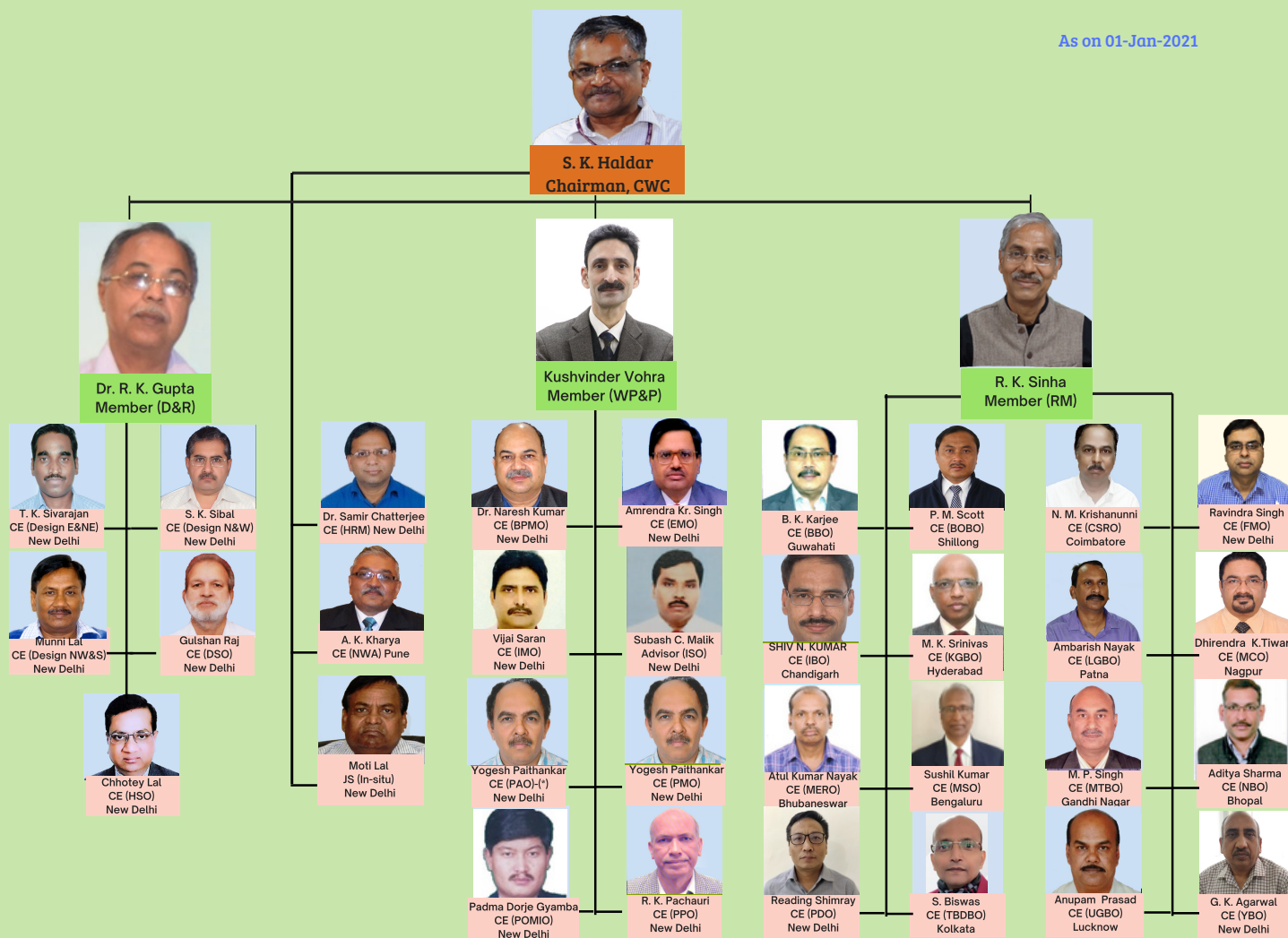
Chairman, CWC

As on 01-Jan-2021



Senior Officers of CWC

As on 01-Jan-2021



Unit conversion table

1 metre = 100 centimetre
 1 feet = 30.48 cm
 1 Acre = 4840 sq. yard
 1 Hectare = 10000 sq. m
 1 cubic metre = 1000 litre

Unit A to B	Unit B to A
1 metre = 3.28084 feet	1 feet = 0.3048 metre
1 Hectare = 2.47105 Acre	1 Acre = 0.40468 Hectare
1 cumec = 35.31466 cusec	1 cusec = 0.0283168 cumec
1 BCM = 35.31467 TMC	1 TMC = 0.028317 BCM
1 MLD = 0.011574 cumec	1 cumec = 86.4 MLD
1 MAF = 1.23348 BCM	1 BCM = 0.81071 MAF

Abbreviations

cusec- cubic foot per second
 cumec- cubic metre per second
 MLD- Millions of liter (mega litre) per day
 BCM- Billion cubic metres
 MCM- Million cubic meters
 TMC- Thousand million cubic feet
 MAF- Million acre feet



Salient Features of National Water Policy (2012)

- Planning, development and management of water resources need to be governed by common integrated perspective considering local, regional, State and national context, having an environmentally sound basis, keeping in view the human, social and economic needs.
- Principle of equity and social justice must inform use and allocation of water.
- Water needs to be managed as a common pool community resource held, by the state under public trust doctrine to achieve food security, support livelihood, and ensure equitable and sustainable development for all
- Water is essential for sustenance of eco-system, and therefore, minimum ecological needs should be given due consideration.
- Safe Water for drinking and sanitation should be considered as pre-emptive needs, followed by high priority allocation for other basic domestic needs (including needs of animals), achieving food security, supporting sustenance agriculture and minimum eco-system needs. Available water, after meeting the above needs, should be allocated in a manner to promote its conservation and efficient use.
- Given the limits on enhancing the availability of utilizable water resources and increased variability in supplies due to climate change, meeting the future needs will depend more on demand management, and hence, this needs to be given priority, especially through (a) evolving an agricultural system which economizes on water use and maximizes value from water, and (b) bringing in maximum efficiency in use of water and avoiding wastages.
- Water quality and quantity are interlinked and need to be managed in an integrated manner, consistent with broader environmental management approaches inter-alia including the use of economic incentives and penalties to reduce pollution and wastage.
- The impact of climate change on water resources availability must be factored into water management related decisions. Water using activities need to be regulated keeping in mind the local geo climatic and hydrological situation.
- There is a need to evolve a National Framework Law as an umbrella statement of general principles governing the exercise of legislative and/or executive (or devolved) powers by the Centre, the States and the local governing bodies. This should lead the way for essential legislation on water governance in every State of the Union and devolution of necessary authority to the lower tiers of government to deal with the local water situation.
- There is a need for comprehensive legislation for optimum development of inter-State rivers and river valleys to facilitate inter-State coordination ensuring scientific planning of land and water resources taking basin/sub-basin as unit with unified perspectives of water in all its forms (including precipitation, soil moisture, ground and surface water) and ensuring holistic and balanced development of both the catchment and the command areas. Such legislation needs, inter alia, to deal with and enable establishment of basin authorities, comprising party States, with appropriate powers to plan, manage and regulate utilization of water resource in the basins.
- The Centre, the States and the local bodies (governance institutions) must ensure access to a minimum quantity of potable water for essential health and hygiene to all its citizens, available within easy reach of the household.



- Ecological needs of the river should be determined, through scientific study, recognizing that the natural river flows are characterized by low or no flows, small floods (freshets), large floods, etc., and should accommodate developmental needs. A portion of river flows should be kept aside to meet ecological needs ensuring that the low and high flow releases are proportional to the natural flow regime, including base flow contribution in the low flow season through regulated ground water use.
- The availability of water resources and its use by various sectors in various basin and States in the country need to be assessed scientifically and reviewed at periodic intervals, say, every five years. The trends in water availability due to various factors including climate change must be assessed and accounted for during water resources planning.
- The anticipated increase in variability in availability of water because of climate change should be dealt with by increasing water storage in its various forms, namely, soil moisture, ponds, ground water, small and large reservoirs and their combination. States should be incentivized to increase water storage capacity, which inter-alia should include revival of traditional water harvesting structures and water bodies.
- There is a need to map the aquifers to know the quantum and quality of ground water resources (replenishable as well as non-replenishable) in the country. This process should be fully participatory involving local communities. This may be periodically updated.
- Declining ground water levels in over-exploited areas need to be arrested by introducing improved technologies of water use, incentivizing efficient water use and encouraging community based management of aquifers. In addition, where necessary, artificial recharging projects should be undertaken so that extraction is less than the recharge. This would allow the aquifers to provide base flows to the surface system, and maintain ecology.
- A system to evolve benchmarks for water uses for different purposes, i.e., water footprints, and water auditing should be developed to promote and incentivize efficient use of water. The 'project' and the 'basin' water use efficiencies need to be improved through continuous water balance and water accounting studies. An institutional arrangement for promotion, regulation and evolving mechanisms for efficient use of water at basin/sub-basin level will be established for this purpose at the national level.
- Recycle and reuse of water, including return flows, should be the general norm.
- Water saving in irrigation use is of paramount importance. Methods like aligning cropping pattern with natural resource endowments, micro irrigation (drip, sprinkler, etc.), automated irrigation operation, evaporation-transpiration reduction, etc., should be encouraged and incentivized. Recycling of canal seepage water through conjunctive ground water use may also be considered.
- Pricing of water should ensure its efficient use and reward conservation. Equitable access to water for all and its fair pricing, for drinking and other uses such as sanitation, agricultural and industrial, should be arrived at through independent statutory Water Regulatory Authority, set up by each State, after wide ranging consultation with all stakeholders.



- In order to meet equity, efficiency and economic principles, the water charges should preferably / as a rule be determined on volumetric basis. Such charges should be reviewed periodically.
- The principle of differential pricing may be retained for the pre-emptive uses of water for drinking and sanitation; and high priority allocation for ensuring food security and supporting livelihood for the poor. Available water, after meeting the above needs, should increasingly be subjected to allocation and pricing on economic principles so that water is not wasted in unnecessary uses and could be utilized more gainfully.
- Encroachments and diversion of water bodies (like rivers, lakes, tanks, ponds, etc.) and drainage channels (irrigated area as well as urban area drainage) must not be allowed, and wherever it has taken place, it should be restored to the extent feasible and maintained properly.
- Sources of water and water bodies should not be allowed to get polluted. System of third party periodic inspection should be evolved and stringent punitive actions be taken against the persons responsible for pollution.
- Considering the heavy economic loss due to delay in implementation of projects, all clearances, including environmental and investment clearances, be made time bound.
- All components of water resources projects should be planned and executed in a pari-passu manner so that intended benefits start accruing immediately and there is no gap between potential created and potential utilized.
- Local governing bodies like Panchayats, Municipalities, Corporations, etc., and Water Users Associations, wherever applicable, should be involved in planning of the projects. The unique needs and aspirations of the Scheduled caste and Scheduled Tribes, women and other weaker sections of the society should be given due consideration.
- All water resources projects, including hydro power projects, should be planned to the extent feasible as multi-purpose projects with provision of storage to derive maximum benefit from available topology and water resources.
- While every effort should be made to avert water related disasters like floods and droughts, through structural and non-structural measures, emphasis should be on preparedness for flood / drought with coping mechanisms as an option. Greater emphasis should be placed on rehabilitation of natural drainage system.
- Urban and rural domestic water supply should preferably be from surface water in conjunction with groundwater and rainwater. Where alternate supplies are available, a source with better reliability and quality needs to be assigned to domestic water supply. Exchange of sources between uses, giving preference to domestic water supply should be possible. Also, reuse of urban water effluents from kitchens and bathrooms, after primary treatment, in flush toilets should be encouraged, ensuring no human contact.
- In urban and industrial areas, rainwater harvesting and de-salinization, wherever techno-economically feasible, should be encouraged to increase availability of utilizable water. Implementation of rainwater harvesting should include scientific monitoring of parameters like hydrogeology, groundwater contamination, pollution and spring discharges.



- Urban water supply and sewage treatment schemes should be integrated and executed simultaneously. Water supply bills should include sewerage charges.
- A permanent Water Disputes Tribunal at the Centre should be established to resolve the disputes expeditiously in an equitable manner. Apart from using the “good offices” of the Union or the State Governments, as the case may be, the paths of arbitration and mediation may also to be tried in dispute resolution.
- Integrated Water Resources Management (IWRM) taking river basin / sub-basin as a unit should be the main principle for planning, development and management of water resources. The departments / organizations at Centre / State Governments levels should be restructured and made multi-disciplinary accordingly.
- All water related data, like rainfall, snowfall, geo-morphological, climatic, geological, surface water, ground water, water quality, ecological, water extraction and use, irrigated area, glaciers, etc., should be integrated with well defined procedures and formats to ensure online updation and transfer of data to facilitate development of database for informed decision making in the management of water.
- Continuing research and advancement in technology shall be promoted to address issues in the water sector in a scientific manner. Innovations in water resources sector should be encouraged, recognized and awarded.
- It needs to be recognized that the field practices in the water sector in advanced countries have been revolutionized by advances in information technology and analytical capabilities. A re-training and quality improvement programme for water planners and managers at all levels in India, both in private and public sectors, needs to be undertaken.
- An autonomous centre for research in water policy should also be established to evaluate impacts of policy decisions and to evolve policy directives for changing scenario of water resources.

Source – NWP Dte .CWC, New Delhi.

World- Land and Water Resources at a Glance

General			
Geographical Area(2017)	13486 MHa		
Population (2018)	7631 Million		
Sources of Water			
A. Sources of Water (Approximate)			
Item	Volume (in Billion km³)	In Percentage	
Water in Oceans	1.365	97.5	
Fresh Water	0.035	2.5	
Total	1.4	100	
B. Sources of Fresh Water (Approximate)			
Item	Volume (in Million km³)	% of Fresh Water	% of Total Water
Polar Ice and Glaciers	24.000	68.9	1.77
Ground Water **	10.780	30.8	0.79
Lakes & Rivers	0.105	0.3	0.01
Source: http://www.unep.org			
** Shallow and deep ground water basins up to 2000 meters, soil moisture, swamp water and permafrost.			
Land Resources*			
Land Area (2017)	13003 Mha		
Arable Lands (2017)	1391 Mha		
Forest (2017)	3999 MHa		

Source: WRS Dte, CWC/ *website of FAO - www.fao.org



India- Land and Water Resources at a Glance

A. General	
Geographical Area	329 Mha
Area as % of World Area	2.44%
Location	Latitude 8° 4' N to 37° 6' N Longitude 68° 7' E to 97° 25' E
Forest Cover (2015)	21.84%
Population (As Per Census Of India 2011)	1210.57 Million
Population (Estimated in 2018 as per FAO STAT)	1352.64 Million
Population as % of World Population (as in 2018)	17.73%
Annual Rainfall (2018)	1020.8 mm
B. Water Resources	
Average Annual Precipitation	3880 BCM
Average Annual Water Resources	1999.2 BCM
Estimated Utilizable Surface Water Resources	690 BCM
Total Annual Ground Water Resources (2017)	432 BCM
Total Annual Utilizable Water Resources	1122 BCM
Per Capita Water Availability (2011 Census)	1651 m ³ /Year
Large Dams	5745 Nos
Completed Dams	5334 Nos
Under Construction	411 Nos
Storage Capacity	257.812 BCM
C. Land Resources	
Total Cultivable Land (2015-16)	181.60 Mha
Gross Sown Area (2015-16)	197.05 Mha
Net Sown Area (2015-16)	139.51 Mha
D. Hydropower (Capacity as on 30.06.2020)	
Identified Hydroelectric Potential (Total)	148701 MW
Identified Hydroelectric Potential (above 25 MW)	145320 MW
Capacity Under Operation (above 25 MW)	40913.7 MW
Capacity Under Construction (above 25 MW)	11393.5 MW

Sources : WRS Dte, BP-1 Dte, CWC, RGI, IMD, Central Electricity Authority, Ministry of Agriculture & FW (<http://eands.dacnet.nic.in>)



River Basin Map of India



Water Resources Potential in River Basins in India

S. No	River Basin	Catchment area (sq.km)	Average Water Resources Potential (BCM)	Utilisable Surface Water Resources (BCM)
1	Indus (up to Border)	3,17,708	45.53	46
2	a) Ganga	8,38,803	509.52	250
	b) Brahmaputra,	1,93,252	527.28	24
	c) Barak & Others	86,335	86.67	-
3	Godavari	3,12,150	117.74	76.3
4	Krishna	2,59,439	89.04	58
5	Cauvery	85,167	27.67	19
6	Subernarekha*	26,804	15.05	6.8
7	Brahmani & Baitami	53,902	35.65	18.3
8	Mahanadi	1,44,905	73	50
9	Pennar	54,905	11.02	6.9
10	Mahi	39,566	14.96	3.1
11	Sabarnati	31,901	12.96	1.9
12	Narmada	96,659.79	58.21	34.5
13	Tapi	65,805.80	26.24	14.5
14	West Flowing Rivers From Tapi to Tadri	58,360	118.35	11.9
15	West Flowing Rivers From Tadri to Kanyakumari	54,231	119.06	24.3
16	East Flowing Rivers Between Mahanadi & Pennar	82,073	26.41	13.1
17	East Flowing Rivers Between Pennar And Kanyakumari	1,01,657	26.74	16.5
18	West Flowing Rivers Of Kutch and Saurashtra including Luni	1,92,112	26.93	15
19	Area of Inland drainage in Rajasthan	1,44,835.90	Negl.	N.A
20	Minor River Draining into Myanmar(Burma) & Bangladesh	31,382	31.17	N.A
TOTAL		32,71,953	1999.2	690.1

Reassessment of Water Availability in India using Space Inputs, June 2019

Source: BP-I Directorate, Central water Commission



State-wise Live Storage Capacity of Reservoirs

Sl. No.	State/UT	Total Live Storage Capacity (BCM)
1	Andaman & Nicobar	0.019
2	Arunachal Pradesh	0.000006
3	Andhra Pradesh (Erstwhile)	28.716
4	Assam	0.012
5	Bihar	2.613
6	Chattisgarh	6.736
7	Goa	0.290
8	Gujarat*	22.553
9	Himachal	13.792
10	J&K	0.029
11	Jharkhand	2.436
12	Karnataka	31.903
13	Kerala	9.768
14	Maharashtra	37.358
15	Madhya Pradesh	33.075
16	Manipur	0.532
17	Meghalaya	0.479
18	Nagaland	1.220
19	Orissa	24.032
20	Punjab	2.402
21	Rajasthan	9.708
22	Sikkim	0.007
23	Tamil Nadu	7.859
24	Tripura	0.312
25	Uttarakhand	5.670
26	Uttar Pradesh	14.263
27	West Bengal	2.027
28	Mizoram	0.000
	TOTAL	257.812

Note: Reconciliation of Live Storage Capacities of Reservoirs is under process.
The above figures are as furnished/ made available to CWC as on 01.12.2017



Basin-wise Live Storage Capacity of Reservoirs

Sl. No.	Basin Name	Live Storage of (in BCM)		
		Completed Projects	Under Construction Projects	Total
1	Indus	16.223	0.100	16.3232
2	Ganga	48.677	7.649	56.326
3	Brahmaputra	1.718	0.795	2.5131
4	Barak & others	0.719	9.172	9.891
5	Godavari	35.04	8.412	43.4515
6	Krishna	50.651	4.156	54.807
7	Cauvery	9.083	0.015	9.098
8	Subernrekha	0.309	2.150	2.459
9	Brahmani & Baitarni	5.55369	0.703	6.25669
10	Mahanadi	13.06564	1.461	14.52694
11	Pennar	2.938	2.141	5.079
12	Mahi	5.017	0.150	5.167
13	Sabarmati	1.577	0.109	1.686
14	Narmada	21.816	2.641	24.4567
15	Tapi	9.137	1.558	10.695
16	West flowing Rivers from Tapi to Tadri	14.668	2.430	17.098
17	West flowing Rivers from Tadri to Kanyakumari	11.023	1.416	12.439
18	East flowing Rivers between Mahanadi and Pennar	2.676	1.181	3.857
19	East flowing Rivers between Pennar and Kanyakumari	1.441	0.015	1.456
20	Rivers of Saurashtra and Kutchchh including Luni	6.336	0.511	6.847
21	Area of Inland Drainage of Rajasthan	0	0.000	0
22	Draining into Myanmar and Bangladesh	0.14358	0.000	0.14358
23	Area of North Ladakh not draining into Indus	0	0.000	0
Total		257.812	46.765	304.577

Note: Reconciliation of Live Storage Capacities of Reservoirs is under process.
 The above figures are as furnished/ made available to CWC as on 01.12.2017
 Source: WM Dte., CWC

Abstract of Large Dams (State-wise)

Sl. No.	State	Total completed dams	Under Construction dams	Total dams
1	Andaman & Nicobar Islands*	2		2
2	Andhra Pradesh	149	17	166
3	Arunachal Pradesh	1	3	4
4	Assam	3	1	4
5	Bihar	24	2	26
6	Chhattisgarh	249	9	258
7	Goa	5		5
8	Gujarat	620	12	632
9	Himachal Pradesh	19	1	20
10	Haryana	1		1
11	Jammu & Kashmir	15	2	17
12	Jharkhand	55	24	79
13	Karnataka	230	2	232
14	Kerala	61		61
15	Madhya Pradesh	899	7	906
16	Maharashtra	2117	277	2394
17	Manipur	3	1	4
18	Meghalaya	8	2	10
19	Mizoram	1		1
20	Nagaland	1		1
21	Odisha	200	4	204
22	Punjab	14	2	16
23	Rajasthan	204	8	212
24	Sikkim	2		2
25	Tamil Nadu	118	0	118
26	Telangana	168	16	184
27	Tripura	1		1
28	Uttar Pradesh	117	13	130
29	Uttarakhand	17	8	25
30	West Bengal	30		30
	GRAND TOTAL	5334	411	5745

Source: DSM Dte., CWC/NRLD-2019 Published on 27.06.2019

International Commission on Large Dams (ICOLD) Specification

- A large dam is classified as one with a maximum height of more than 15 meters from its deepest foundation to the crest.
- A dam between 10 & 15 meters in height from its deepest foundation is also included in the classification of a large dam provided it complies with one of the following conditions:
 - a) length of crest of the dam is not less than 500 meters or
 - b) capacity of the reservoir formed by the dam is not less than one million cubic meter or
 - c) the maximum flood discharge dealt with by the dam is not less than one million cubic meters or
 - d) the dam has specially difficult foundation problems, or
 - e) the dam is of unusual design.

Details of Plan-wise position of irrigation Potential Created and Utilized (in MHa)

Plan		Potential Created					Potential Utilized				
		Major & Medium	Minor			Total	Major & Medium	Minor			Total
			S.W	G.W	Total			S.W	G.W	Total	
Upto 1951 (Pre-Plan)	Cumulative	9.7	6.4	6.5	12.9	22.6	9.7	6.4	6.5	12.9	22.6
I Plan	During	2.5	0.03	1.13	1.16	3.66	1.28	0.03	1.13	1.16	2.44
(1951-1956)	Cumulative	12.2	6.43	7.63	14.06	26.26	10.98	6.43	7.63	14.06	25.04
II Plan	During	2.13	0.02	0.67	0.69	2.82	2.07	0.02	0.67	0.69	2.76
(1956-1961)	Cumulative	14.33	6.45	8.3	14.75	29.08	13.05	6.45	8.3	14.75	27.8
III Plan	During	2.24	0.03	2.22	2.25	4.49	2.12	3.03	2.22	2.25	4.37
(1961-1966)	Cumulative	16.57	6.48	10.52	17	33.57	15.17	6.48	10.52	17	32.17
Annul Plans	During	1.53	0.02	1.98	2	3.53	1.58	0.02	1.98	2	3.58
(1966-1969)	Cumulative	18.1	6.5	12.5	19	37.1	16.75	6.5	12.5	19	35.75
IV Plan	During	2.6	0.5	4	4.5	7.1	1.64	0.5	4	4.5	6.14
(1969-1974)	Cumulative	20.7	7	16.5	23.5	44.2	18.39	7	16.5	23.5	41.89
V Plan	During	4.02	0.5	3.3	3.8	7.82	2.7	0.5	3.3	3.8	6.5
(1974-1978)	Cumulative	24.72	7.5	19.8	27.3	52.02	21.09	7.5	19.8	27.3	48.39
Annual Plans	During	1.89	0.5	2.2	2.7	4.59	1.48	0.5	2.2	2.7	4.18
(1978-1980)	Cumulative	26.61	8	22	30	56.61	22.57	8	22	30	52.57
VI Plan	During	1.09	1.7	5.82	7.52	8.61	0.93	1.01	4.24	5.25	6.18
(1980-1985)	Cumulative	27.7	9.7	27.82	37.52	65.22	23.5	9.01	26.24	35.25	58.75
VII Plan	During	2.22	1.29	7.8	9.09	11.31	1.9	0.96	6.91	7.87	9.77
(1985-1990)	Cumulative	29.92	10.9	35.62	46.52	76.44	25.4	9.97	33.15	43.12	68.52
Annual Plans	During	0.82	0.47	3.27	3.74	4.56	0.85	0.32	3.1	3.42	4.27
(1990-1992)	Cumulative	30.74	11.46	38.89	50.35	81.09	26.25	10.29	36.25	46.54	72.79
VIII Plan	During	2.21	1.05	1.91	2.96	5.17	2.13	0.78	1.45	2.23	4.36
(1992-1997)	Cumulative	32.95	12.51	40.8	53.31	86.26	28.38	11.07	37.7	48.77	77.15
IX Plan	During	4.1	1.09	2.5	3.59	7.69	2.57	0.37	0.85	1.22	3.79
(1997-2002)	Cumulative	37.05	13.6	43.3	56.9	93.95	30.95	11.44	38.55	49.99	80.94
X Plan	During	4.59	N.A.	N.A.	3.2	7.79	2.73	N.A.	N.A.	1.49	4.22
(2002-2007)	Cumulative	41.64	N.A.	N.A.	60.1	101.74	33.68	N.A.	N.A.	51.48	85.16
XI Plan	During	6.34	NA	NA	5.45	11.79	1.33	N.A	N.A	1.43	2.76
(2007-2012)	Cumulative	47.97	N.A	N.A	65.56	113.53	35.01	N.A	N.A	52.91	87.92

Note: IPC & IPU figures for the period from 2012-13 to 2019-20 are under revision / compilation.

S.W.: Surface Water, G.W.: Ground Water

Source: P&P Dte, CWC



Plan-wise Expenditure on Major & Medium Irrigation in India

Sl. No.	Plan Period	Major & Medium Irrigation (Rs.in crore)
1	First (1951-56)	376.2
2	Second (1956-61)	380
3	Third (1961-66)	576
4	Annual (1966-69)	429.8
5	Fourth (1969-74)	1242.3
6	Fifth (1974-78)	2516.2
7	Annual (1978-80)	2078.6
8	Sixth (1980-85)	7368.8
9	Seventh (1985-90)	11107.3
10	Annual (1990-92)	5459.2
11	Eight (1992-97)	21071.9
12	IX Plan (1997-02)	49289
13	X Plan (2002-07)	83647
14	XI Plan (2007-2012) outlay/Expenditure	
(a)	Actual Expenditure (2007-2008)	29390.6
(b)	Actual Expenditure (2008-2009)	32341.8
(c)	Revised approved outlay (2009-2010)	34882.3
(d)	Revised Approved Outlay (2010-2011)	34310.1
(e)	Actual Expenditure (2011-2012)	35664.5
15	XII Plan Outlay (Projection)	
(a)	Approved Outlay (2012-13)	49920.6
(b)	Actual Expenditure (2012-2013)	27403.8
(c)	Approved Outlay (2013-14)	55587.7

Note: Expenditure on MMI Projects for the period from 2014-15 to 2019-20 is under compilation.

Source: Erstwhile Planning Commission / P & P Dte./ WRIS, CWC

Irrigation Potential Created in Major , Medium & Minor Irrigation

S. No.	State	UIP of MMI Projects	UIP of Minor Projects	Total UIP	IPC Up to XI Plan		
					MMI	Minor	Total
	A	B	C	D	E	F	G=E+F
1	Andhra Pradesh Telangana	5000.00	6260.00	11260.00	4803.73	3340.550	8144.28
2	Arunachal Pradesh	0.00	168.00	168.00	1.20	132.248	133.448
3	Assam	970.00	1900.00	2870.00	455.96	1016.820	1472.783
4	Bihar	5223.50	5663.50	10887.00	3054.46	5924.780	8979.240
5	Chhattisgarh	1146.93	571.00	1717.93	1269.32	842.295	2111.610
6	Goa	62.00	54.00	116.00	55.55	25.927	81.478
7	Gujarat	3000.00	3103.00	6103.00	3679.09	2071.970	5751.060
8	Haryana	3000.00	1512.00	4512.00	2206.29	1637.670	3843.960
9	Himachal Pradesh	50.00	303.00	353.00	30.45	186.217	216.667
10	Jammu Kashmir	250.00	1183.50	1433.50	325.61	745.661	1071.270
11	Jharkhand	1276.50	1108.00	2384.50	530.71	534.200	1064.905
12	Karnataka	2500.00	3474.00	5974.00	2965.83	1704.170	4670.000
13	Kerala	1000.00	1679.00	2679.00	715.69	763.650	1479.340
14	Madhya Pradesh	4853.07	11361.00	16214.07	2506.43	2534.340	5040.772
15	Maharashtra	4100.00	4852.00	8952.00	4128.71	3185.600	7314.310
16	Manipur	135.00	469.00	604.00	158.50	120.690	279.190
17	Meghalaya	20.00	148.00	168.00	-	77.770	77.770
18	Mizoram	0.00	70.00	70.00	-	51.740	51.740
19	Nagaland	10.00	75.00	85.00	-	124.510	124.510
20	Odisha	3600.00	5203.00	8803.00	2147.36	1887.430	4034.790
21	Punjab	3000.00	2967.00	5967.00	2684.39	3497.710	6182.100
22	Rajasthan	2750.00	2378.00	5128.00	3167.13	2487.760	5654.890
23	Sikkim	20.00	50.00	70.00	-	42.740	42.740
24	Tamil Nadu	1500.00	4032.00	5532.00	1578.27	2331.990	3910.260
26	Tripura	100.00	181.00	281.00	29.25	161.863	191.113
27	Uttar Pradesh	12154.00	17481.00	29635.00	9288.09	25320.130	34608.220
28	Uttarakhand	346.00	518.00	864.00	288.98	585.347	874.327
29	West Bengal	2300.00	4618.00	6918.00	1901.41	4159.680	6061.090
	Union Territories	98.00	46.00	144.00	0.00	61.935	61.935
	All India Total	58465	81428	139893	47972.41	65557.393	113529.798

Note: UIP & IPC figures for the period from 2012-13 to 2019-20 are under revision / compilation.

UIP: Ultimate Irrigation Potential; MI: Major & Medium Irrigation

Note: Sum/total may not match due to rounding off.

Source: Erstwhile Planning Commission / P&P Dte., CWC



Status of Hydro Electric Potential Development

(In terms of Installed capacity- Above 25MW) As on 30.09.2020

Region/ State	Identified Capacity as per reassessment study		Capacity In Operation		Capacity Under Construction		Capacity In Operation + Under Construction		Capacity yet to be taken up under construction	
	Total	Above 25 MW								
	(MW)	(MW)	(MW)	%	(MW)	(%)	(MW)	(%)	(MW)	%
NORTHERN										
Jammu & Kashmir	11769	11497	3360	29.23	2559.5	22.26	5919.5	51.49	5577.5	48.51
Jadakh	2377	2046	89.0	4.35	0.0	0.0	89.0	4.35	1957.0	95.65
Himachal Pradesh	18820	18540	9809.00	52.91	2125.00	11.46	11934.00	64.37	6606.00	35.63
Punjab	971	1096.30	112.90	206.00	21.22	1302.30	134.12	0.00	0.00	0.00
Haryana#	64.00	64.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rajasthan##	496.00	483.00	411.00	85.09	0.00	0.00	411.00	85.09	0.00	0.00
Uttarakhand	18175	17998	3756.40	20.87	1490.0	8.28	5246.4	29.15	12751.6	70.85
Uttar Pradesh*	723	664	501.60	75.54	0.00	0.00	501.60	75.54	162.40	24.46
Sub Total (NR)	53395	52263	19023.30	36.40	6380.50	12.21	25403.8	48.61	26859.20	51.39
WESTERN										
Madhya Pradesh.	2243	1970	2235.0	100	400.0	20.30	2635.0	100.00	0.0	0.00
Chhattisgarh	2242	2202	120.0	5.45	0.0	0.00	120.0	5.45	2082.0	94.55
Gujarat###	619	590	550.0	100	0.0	0.00	550.0	100.00	0.0	0.00
Maharashtra	3769	3314	2647.0	79.87	0.0	0.00	2647.0	79.87	667.0	20.13
Goa	55	55	0.0	0.00	0.0	0.00	0.0	0.00	55.0	100.00
Sub total (WR)	8928	8131	5552.0	68.28	400.0	4.92	5952.0	73.20	2179.0	26.80
SOUTHERN										
Andhra Pradesh	2366	2341	1610.0	68.77	960.0	41.01	2570.0	109.78	0.0	0.00
Telangana	2058	2019	800.0	39.62	0.0	0.00	800.0	39.62	1219.0	60.38
Karnataka	6602	6459	3644.2	56.42	0.0	0.00	3644.2	56.42	2814.8	43.58
Kerala	3514	3378	1856.5	54.96	100.0	2.96	1956.5	57.92	1421.5	42.08
Tamilnadu	1918	1693	1778.2	100	0.0	0.00	1778.2	100.00	0.0	0.00
Sub Total (SR)	16458	15890	9688.9	60.97	1060.0	6.67	10748.9	67.65	5141.1	32.35
EASTERN										
Jharkhand	753	582	170.0	29.21	0.0	0.00	170.0	29.21	412.0	70.79
Bihar####	70	40	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
Odisha	2999	2981	2142.3	71.86	0.0	0.00	2142.3	71.86	838.8	28.14
West Bengal	2841	2829	441.2	15.60	120.0	4.24	561.2	19.84	2267.8	80.16
Sikkim	4286	4248	2169.0	51.06	1133.0	26.67	3302.0	77.73	946.0	22.27
Sub Total (ER)	10949	10680	4922.5	46.09	1253.0	11.73	6175.5	57.82	4504.6	42.18
NORTHEASTERN										
Meghalaya	2394	2298	322.0	14.01	0.0	0.00	322.0	14.01	1976.0	85.99
Tripura	15	0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
Manipur	1784	1761	105.0	5.96	0.0	0.00	105.0	5.96	1656.0	94.04
Assam	680	650	350.0	53.85	0.0	0.00	350.0	53.85	300.0	46.15
Nagaland	1574	1452	75.0	5.17	0.0	0.00	75.0	5.17	1377.0	94.83
Arunachal Pradesh	50328	50064	815.0	1.63	2300.0	4.59	3115.0	6.22	46949.0	93.78
Mizoram	2196	2131	60.0	2.82	0.0	0.00	60.0	2.82	2071.0	97.18
Sub Total (NER)	58971	58356	1727.0	2.96	2300.0	3.94	4027.0	6.90	54329.0	93.10
ALL INDIA	148701	145320	40913.7	28.15	11393.5	7.84	52307.2	35.99	93012.9	64.01

Note:- 1. Does not include pumped storage Projects

2. In some states the total of the capacity developed and balance capacity is different from the potential assessed . This is due to change in capacity of the Projects, addition/ deletion of the Projects and merger of two Projects into one etc.

*Eastern Yamuna Canal project (35 MW) has been developed in 2 stages each having Installed Capacity below 25 MW

#Western Yamuna Canal project (64 MW) has been developed in 4 stages each having Installed Capacity below 25 MW

Two Projects namely Mahi Bajaj Sagar I & II were identified for I.C. of 97 MW has been developed with I.C. of 140 MW. Gandhi Sagar (115 MW) Project was identified in Rajasthan but has been developed in Madhya Pradesh with same capacity.

Two Projects namely Ukai Dam and Sardar Sarovar were identified for an I.C. of 590 MW. However as per actual, the I.C. is 550 MW.

Identified project namely East Gandak Canal has been developed with installed capacity below 25 MW

3. In addition to above 9 PSS (4785.6 MW) are under operation, 3 PSS (1580 MW) are under construction and 1 PSS (1000 MW) is Concurred by CEA, 7 PSS(6120MW) are under S&I and 1 PSS of I.C. 660 MW is under Heldup list.

Source : CEA

Status of Hydro Electric Potential Development Basin-wise

(In terms of Installed capacity- Above 25MW) As on 30.09.2020

BASIN	Identified capacity as per assessment study		Capacity Under Operation		Capacity under construction		Capacity under operation + under construction		Capacity yet to be taken up under Construction	
	Total	Above 25 MW								
	(MW)	(MW)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)
Indus	33832	33028	14294.3	43.28	4735.5	14.34	19029.8	57.62	13998.2	42.38
Ganga	20711	20252	5317.2	26.26	1645.0	8.12	6962.2	34.38	13289.6	65.62
Central Indian Rivers	4152	3868	3147.5	81.37	400.0	10.34	3547.5	91.71	320.5	8.29
West Flowing Rivers	9430	8997	5631.7	62.60	100.0	1.11	5731.7	63.71	3265.3	36.29
East Flowing Rivers	14511	13775	8249.0	59.88	960.0	6.97	9209.0	66.85	4566.0	33.15
Brahmaputra Basin	66065	65400	4274.00	6.54	3553.0	5.43	7827.0	11.97	57573.0	88.03
All India	148701	145320	40913.6	28.15	11393.5	7.84	52307.1	35.99	93012.9	64.01

Note:- 1. Does not include pumped storage schemes

2. In some states the total of the capacity developed and balance capacity is different from the potential assessed . This is due to change in capacity of the schemes, addition/ deletion of the schemes and merger of two schemes into one etc.

3. In addition to above 9 PSS (4785.6 MW) are under operation, 3 PSS (1580 MW) are under construction and 1 PSS (1000 MW) is Concurred by CEA, 1 PSS (1200 MW) is under examination in CEA and 8 PSS (7530MW) are under S&I and 1 PSS of I.C. 660 MW is under Heldup list.

Source CEA



List of Projects Considered and Accepted by Advisory Committee of DoWR, RD&GR during 1st November 2019 - 31st October 2020

Sl. No.	Date of Meeting	Project Name	Name of the State	Major/ Medium	Estimated Cost in crore	Benefits in ha
1	09.12.2019	Renukaji Dam Project	Himachal Pradesh	Multipurpose (National Project)	6946.99 Cr(PL-October, 2018)	Drinking water project
2	09.12.2019	Seven Pneumatically Operated Gated Weirs in Series on Girna River	Maharashtra	Medium Irrigation	781.32 Cr (PL-2017-18)	5540 ha
3	09.12.2019	Shelgaon Barrage Medium Irrigation Project, Revised Cost Estimate (RCE)	Maharashtra	Medium Irrigation(REC)	961.11 Cr (PL-2017-18)	9589 ha
4	09.12.2019	Revised Cost Estimate of Bodwad Parisar Sinchan Yojana	Maharashtra	Major Irrigation	Rs. 3763.60 Crores (PL- 2017-18)	CCA - 53025 ha
5	09.12.2019	Implementation of coastal protection measures at Someswara, Mangalore taluk, Dakshina Kannada Distt, Karnatka.	Karnataka	Coastal Protection Externally funded project (ADB) under Sustainable Coastal Protection and Management Investment Program (SCPMIP) Tranche-II Karnatka	84.87 Cr (PL-2016-17)	Length of protection- 3 km
6	09.12.2019	Providing flood protection/stabilization work to Naker Khad and its tributaries from Rainta (RD o) to Sour Kalan Bridge (RD 30000)	Himachal Pradesh	Flood Control	231.02 Cr (PL-Dec-2018)	Benefitted area- 274 ha Benefitted population- 3678
7	09.12.2019	Providing Flood Protection Works/Anti erosion measures for Sakrain, Malthod, Thothu, Dol and Samour Khad in Dharampur Constituency, Distt Mandi (HP)	Himachal Pradesh	Flood Control	145.73 Cr (PL-June, 2019)	Benefitted area- 300 ha Benefitted population- 3289
8	09.12.2019	Revised DPR for protection work of left edge of River Ganga from Kewala village to Baghmara village in the length of 5200m.	Bihar	Flood Control	105.60 Cr (PL-2017)	Benefitted area- 55000 ha Benefitted population- 60000
9	09.12.2019	Anti Erosion works before flood 2019 in between 0.00 km to 35.00 km of PP Embankment and at GH embankment	Bihar	Flood Control	44.53 Cr (PL-2017)	Benefitted area- 4,20,000 ha Benefitted population- 2,20,000
10	09.12.2019	Comprehensive Plan for Flood Management works on River Jhelum and its tributaries short term measures phase-II, part-A	J&K	Flood Control	1623.43 Cr. (PL-Sep-2019)	Benefitted area- 280000 ha Benefitted population- 906091
11	08.05.2020	Modified DPR of Ujh Multi Purpose Project	J&K	Major, Multipurpose, National Project	Rs. 9167 cr (PL Dec 2019)	CCA- 40716 Ha ; AI - 76929 Ha.
12	26.05.2020	Bagmati Flood Management Scheme Phase III (b)	Bihar	Flood Control	913.215 Cr (PL 2018)	Benefitted area- 130900 ha Benefitted population- 50.40 LAKH
13	26.05.2020	Anti Erosion works on left bank of river Ganga at Bali Tola (Nazarmira) to Sabalpur Pachhiyari Tola	Bihar	Flood Control	45.10 Cr (PL 2019)	Benefitted area- 1553 ha Benefitted population- 0.5 lakh
14	26.05.2020	Extension of left Bhutahi Balan embankment from Km 25.00 to Km 31.610 (up to Ghoghardiha to Nirmali Railway line near Parsa halt) with Revetment	Bihar	Flood Control	48.44 Cr (PL 2019)	Benefitted area- 16900 ha Benefitted population- 3 lakh

List of Projects Considered and Accepted by Advisory Committee of DoWR, RD&GR during 1st November 2019 - 31st October 2020

Sl. No.	Date of Meeting	Project Name	Name of the State	Major/ Medium	Estimated Cost in crore	Benefits in ha
15	26.05.2020	Construction of extended Sikarhatta Majhari low bund from Parsauni to Mahisha in length of 4.60 Km	Bihar	Flood Control	41.92 Cr (PL 2019)	Benefitted area- 6500 ha Benefitted population- 0.85 lakh
16	26.05.2020	Breach closure work on Left Kamla Balan embankment at km 7.38 (Village-Terha), km 36.60 (Village -Rakhwari) and right kamla balan embankment at km 40.60 (village-Gopalkha), km-47.30 (village-Naruar), km 55.80 (village-Kathiwar), km 57.50 (village Kakodha), km 71.80 (village Kumharaul), and km 79.60 (village Bath Mansara)	Bihar	Flood Control	74.11 Cr (PL 2019)	Benefitted area- 72300 ha Benefitted population- 7.5 lakh
17	26.05.2020	Anti-Erosion and restoration work at different points on the right bank of left channel and left bank of right channel of river Ganga in Raghupur Block of Vaishali District.	Bihar	Flood Control	46.02 Cr (PL- 2019)	Benefitted area- 100000 ha Benefitted population- 4 lakh
18	26.05.2020	Anti Erosion works before flood 2020 at different location situated on left and right bank of Ganga river under Bhagalpur and Katihar district.	Bihar	Flood Control	77.14 Cr (PL- 2019)	Benefitted area- 14910 ha Benefitted population- 10 lakh
19	26.05.2020	Anti Erosion/Restoration works at different point on left and right bank of Ganga river in district of Buxar, Bhojpur and Patna in state of Bihar	Bihar	Flood Control	67.87 Cr (PL- 2019)	Benefitted area- 76200 ha Benefitted population- 13.83 lakh
20	26.05.2020	Project for constructing bund from Guptar ghat to Jamthara ghat (1.150 km) & restoration of Harischand Udaya bund from km 0.000 to km 3.900 at Ayodhya	Uttar Pradesh	Flood Control	39.63 Cr (PL 2019)	Benefitted area- 70.50 ha Benefitted population- 0.6 lakh
21	26.05.2020	Project for Anti Erosion and flood protection works on left bank of river Ganga for protection of villages Gauspur, Sukkhpur, Mirjapur, Simli, Rajarampur, and Raghunathpur etc. in district Bijnor (UP)	Uttar Pradesh	Flood Control	61.14 Cr (PL- 2016)	Benefitted area- 5525 ha Benefitted population- 47950
22	26.05.2020	Project for dredging and channelization work for safety of village Dube Chhapra situated in left bank of river Ganga District Ballia (U.P)	Uttar Pradesh	Flood Control	30.09 Cr (PL- 2019)	Benefitted area- 20000 ha Benefitted population- 1.4 lakh
23	26.05.2020	Revised project estimate for construction of pumping station for drainage of flood water from protected side near Tarkulani Regulator at km 30.300 of Maluni bund of left bank of river Rapti in district Gorakhpur (U.P)	Uttar Pradesh	Flood Control	84.86 Cr (PL- 2017)	Benefitted area- 2838 ha Benefitted population- 0.32 lakh
24	26.05.2020	DPR for providing flood and erosion protection measures along the Right bank of river Yamuna & its tributaries in Tehsil Paonta Sahib, District Simmour (H.P)	Himachal Pradesh	Flood control	250.46 Cr (PL- April, 2019)	Benefitted area- 480.13 ha Benefitted population- 23485 (census 2011)
25	14.082020	An integrated approach to flood management & control on rivers/streams and drainages in Loktak sub-basin of Manipur	Manipur	Flood control	62.14 (PL- 2017)	Benefitted area- 10000 ha Benefitted population- 55000
26	14.082020	Critical flood control and anti-erosion works along rivers in Manipur river basin	Manipur	Flood control	460.426 (PL- 2017)	Benefitted area- 25000 ha Benefitted population- 250000

Source: PA (N) Dte., CWC



Details of Hydrological Observations, Snow Gauge, Meteorological Sites & Water Quality Sampling Station under CWC (State-wise)

*As on September 2020										
Sl. No.	Name of Organisation	G	GD	GDQ	GDS	GDSQ	GQ	SG&Met	WQSS	Total
1	Andhra Pradesh	11	16	4	0	14	1	8	0	54
2	Arunachal Pradesh	7	3	10	0	8	9	20	0	57
3	Assam	12	10	21	1	26	54	7	0	131
4	Bihar	61	29	5	2	22	2	0		121
5	Chattisgarh	11	9	2	1	18	0	14	8	63
6	D.&NH	3	1	0	0	0	0	0	0	4
7	Delhi	0	1	0	0	2	0	0	0	3
8	Goa	0	2	0	0	0	0	0	0	2
9	Gujarat	20	16	4	0	9	0	6	1	56
10	Haryana	3	6	0	0	1	0	0	0	10
11	Himachal Pradesh	6	9	0	4	5	0	23	0	47
12	Jammu & Kashmir	15	7	3	7	6		17		55
13	Jharkhand	9	18	4	0	6	1	21	4	63
14	Karnataka	7	18	15	0	25	2	4	0	71
15	Kerala	0	15	3	0	22	0	0	0	40
16	Ladakh	4	0	0	0	0	0	0	0	4
17	Madhya Pradesh	58	51	8	0	26	1	10	0	154
18	Maharashtra	34	33	15	1	28	3	14	0	128
19	Manipur	0	1	0	0	0	1	0	0	2
20	Meghalaya	4	5	5	1	3	1	0	0	19
21	Mizoram	4	10	0	7	6	0	2	0	29
22	Nagaland	1	0	0	0	0	0	0	0	1
23	Odisha	49	7	2		22	1	5	15	101
24	Pondicherry	0	0	3	0	0	0	0	0	3
25	Punjab	0	1	0	0	0	0	0	0	1
26	Rajasthan	15	12	3	0	8	0	4	0	42
27	Sikkim	0	0	9	0	1	7	8	0	25
28	Tamil Nadu	0	19	20	0	23	0	1	0	63
29	Telangana	11	12	4	0	8	1	12	0	48
30	Tripura	2	5	0	6	2	3	0	0	18
31	Uttar Pradesh	73	50	9	1	46	3	4	4	190
32	Uttarakhand	23	35	1	6	10	0	7	1	83
33	West Bengal	18	22	7	2	21	10	6		86
Grand Total		461	423	157	39	368	100	193	33	1774

Source: RDC-II Dte., CWC

Details of Hydrological Observations, Snow Gauge, Meteorological Sites & Water Quality Sampling Station under CWC (Basin-wise)

*As on September 2020										
Sl. No	Basin Name	G	GD	GDQ	GDS	GDSQ	GQ	SG&Met	WQSS	Grand Total
1	Brahmani-Baitarni	12	0	0	0	11	1	1	14	39
2	Cauvery	0	13	17	0	24	0	0	0	54
3	East Flowing rivers between Mahanadi and Pennar	13	2		0	5	0	0	0	20
4	East Flowing rivers between Pennar and Kanyakumari	0	19	10	0	8	0	1	0	38
5	Ganga/Brahmaputra/Meghna/Barak	250	206	72	24	164	91	95	5	907
6	Godavari Basin	48	43	13	0	32	4	17	0	157
7	Indus Basin	23	16	3	11	8	0	33	0	94
8	Krishna	14	14	12	0	29	3	18	0	90
9	Mahanadi	30	2	1	0	22	0	6	8	69
10	Mahi	10	4	2	0	3	0	1	0	20
11	Minor rivers draining into Myanmar and Bangladesh	3	7		3	4	0	0	0	17
12	Narmada	18	37	5	0	10	1	2	0	73
13	Pennar	0	4	4	0	4	0	0	0	12
14	Sabarmati	7	4	1	0	1	0	5	1	19
15	Subarnarekha	6	2	1	0	6	0	0	5	20
16	Tapi	17	18	1	1	3	0	7	0	47
17	West Flowing rivers from Tadri to Kanyakumari	0	16	9	0	26	0	0	0	51
18	West flowing rivers from Tapi to Tadri	7	6	4	0	5	0	3	0	25
19	West flowing rivers of Kutchh and Saurashtra including Luni	3	10	2	0	3	0	4	0	22
20	Areas of Inland Drainage in Rajasthan	0	0	0	0	0	0	0	0	0
Grand Total		461	423	157	39	368	100	193	33	1774

Source: RDC-II Dte., CWC

Basin-wise Flood Forecasting Stations

Sr. No	Major Interstate River Systems	FF stations as on Date		
		Level	Inflow	Total
1	Indus and its tributaries	3	0	3
2	Ganga & its tributaries	95	39	134
3	Brahmaputra & its tributaries	39	5	44
4	Barak System	6	0	6
5	Subarnarekha (i/c Burhabalang)	4	3	7
6	Brahmani & Baitarni	3	2	5
7	East Flowing(Mahanadi to Pennar)	4	4	8
8	Narmada	4	6	10
9	Tapi	1	2	3
10	Mahi	1	4	5
11	Sabarmati	1	1	2
12	Mahanadi	3	3	6
13	Godavari	18	24	42
14	Krishna	5	17	22
15	West Flowing Rivers(Kutch & Saurashtra)	1	1	2
16	West Flowing Rivers(Tapi to Tadri))	2	1	3
17	Cauvery and its tributaries	3	9	12
18	Pennar	1	1	2
19	East Flowing Rivers(Pennar to Kanyakumari)	1	6	7
20	West Flowing River (Tadri to Kanyakumari)	3	2	5
	Total	198	130	328

State-wise Flood Forecasting Stations

Sl. No.	Name of State/UT	Number of flood forecasting Stations		
		Level	Inflow	Total
1	Andhra Pradesh	10	10	20
2	Arunachal Pradesh	3	0	3
3	Assam	30	0	30
4	Bihar	40	3	43
5	Chhattisgarh	1	2	3
6	Gujarat	6	7	13
7	Haryana	1	1	2
8	Himachal Pradesh	1	0	1
9	Jharkhand	2	15	17
10	Karnataka	1	14	15
11	Kerala	3	2	5
12	Madhya Pradesh	2	10	12
13	Maharashtra	8	13	21
14	Odisha	12	7	19
15	Rajasthan	3	11	14
16	Sikkim	3	5	8
17	Tamil Nadu	4	11	15
18	Telangana	5	8	13
19	Tripura	2	0	2
20	Uttar Pradesh	39	5	44
21	Uttarakhand	4	2	6
22	West Bengal	12	4	16
23	Daman & Diu	1	0	1
24	NCT of Delhi	2	0	2
25	Jammu & Kashmir	3	0	3
	Total	198	130	328

Source: FFM Dte., CWC



Pradhan Mantri Krishi Sinchayee Yojana (PMKSY)

Water Resources Projects are planned, funded, executed and maintained by the State Governments themselves as per their own resources and priority. In order to supplement their efforts, Government of India provides technical and financial assistance to State Governments to encourage sustainable development and efficient management of water resources through various schemes and programmes.

Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) was launched during the year 2015-16, with an aim to enhance physical access of water on farm and expand cultivable area under assured irrigation, improve on-farm water use efficiency, introduce sustainable water conservation practices, etc. PMKSY has various components viz. Accelerated Irrigation Benefits Programme (AIBP), PMKSY –Har Khet Ko Pani (HKKP) including Command Area Development and Water Management (CADWM), Surface-Minor Irrigation (SMI) and Repair, Renovation and Restoration (RRR) of Water Bodies [Implemented by DoWR, RD & GR, MoJS], PMKSY-Per Drop More Crop (PDMC) [Implemented by Department of Agriculture, Cooperation and Farmers Welfare] and PMKSY- Watershed Development Component(WDC) [Implemented by Department of Land Resources]. The PMKSY-PDMC focuses on water use efficiency at farm level through precision/micro irrigation. Surface Minor Irrigation (SMI) schemes with irrigation potential less than 2000 ha were included under Accelerated Irrigation Benefit Programme (AIBP) for providing Central Assistance (CA) since 1999-2000 for Special Category States. Subsequently the Scheme extended to area covering DPAP, Tribal, DDP, Flood prone, Left Wing extremist and Koraput, Bolangir and Kalahandi (KBK) region of Odisha. The scheme of SMI is now a part of PMKSY (HKKP). New SMI schemes approved by State Technical Advisory Committee (TAC) and State Level Sanctioning Committee (SLSC) are eligible for Central Assistance (CA) under PMKSY (HKKP) scheme as per the prescribed criteria.

For the efficient distribution of available water and to avoid the problems of Land Acquisition, use of pressurized pipe system wherever feasible is encouraged. DoWR, RD & GR and Central Water Commission (CWC) has prepared Guidelines for Planning and Design of Piped Irrigation Network and the same was circulated to States for reference during July, 2017.

(I) PMKSY-AIBP

The Accelerated Irrigation Benefits Programme (AIBP) was launched by Union Government in 1996-1997, to provide Central Assistance in the form of Loan to State Governments to complete those ongoing irrigation projects which were costing, Rs 1000 Crore or above and were in advance stage of completion. Subsequently the AIBP Guidelines were changed from time to time so as to include all categories of projects i.e. Major, Medium and Surface Minor Irrigation (SMI) Projects to bring a regional balance. From 2005-06 onwards, Central Assistance is provided in form of grant. Since inception altogether 297 Major and Medium Irrigation Projects have been included under AIBP out of which 143 Projects have been completed and five Projects have been deferred, leaving 149 projects as ongoing as on 2015-16. A total sum of Rs 55601.11 Cr was provided to State Governments in the form of Central Assistance till March 2016 for Major and Medium Irrigation Projects under AIBP and an Irrigation Potential of 9089.29 Th. Ha. has been created upto March 2016.



Pradhan Mantri Krishi Sinchayee Yojana (PMKSY)

Government of India has launched the Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) during 2015-16 with the motto of providing 'Har Khet Ko Pani' ensuring access to some means of protective irrigation to all agricultural farms in the country, to produce 'per drop more crop', thus bringing much desired rural prosperity. The programmes as being implemented by the Govt. of India, viz. AIBP, Repair, Renovation and Restoration (RRR) of Water bodies and Command Area Development and Water Management (CADWM) have been subsumed in PMKSY. Under PMKSY-AIBP, 99 Projects have been prioritized amongst the 149 ongoing projects under AIBP. Out of these Priority Projects, 44 projects have been reported as completed as on March 2020. Total Irrigation Potential targeted under 99 Priority Project is 76.03 Lakh Ha. During 2015-16, 2016-17, 2017-18, 2018-19 and 2019-20; a Central Assistance of Rs 2327.81 Cr, Rs 3309.47 Cr, Rs 3596.626 Cr, Rs. 2849.08 and Rs 1738.78 Cr. respectively has been released under PMKSY -AIBP. An Irrigation Potential of 5.088 Lakh Ha, 3.912 Lakh Ha, 5.0722 Lakh Ha, and 3.2225 Lakh Ha have been created during 2016- 17, 2017-18, 2018-19 and 2019-20 respectively with a cumulative Irrigation Potential of 61.0115 Lakh Ha till March 2020. Under PMKSY- AIBP, a dedicated funding mechanism i.e. Long Term Irrigation Fund (LTIF) a special window has been created in NABARD which could be utilized by the Central and State Governments to bridge the requirement of funds for completion of the 99 priority projects including CAD works for central assistance as well as state share component.

(II) Command Area Development and Water Management (CADWM)

Command Area Development (CAD) works through CADWM Programme of Government of India are in implementation since 1974-75. The program has been brought under Pradhan Mantri Krishi Sinchai Yojna (PMKSY) - Har Khet Ko Pani from 2015-16 onwards. The main objective of taking up CAD works is to enhance Utilisation of Irrigation Potential Created, and improve agriculture production on a sustainable basis through Participatory Irrigation Management (PIM). In order to promote water use efficiency in Irrigation, the CADWM program has also been targeting at least 10% of the Culturable Command Area (CCA) of the included projects for development of Micro-Irrigation infrastructure for facilitating use of Sprinkler/Drip Irrigation systems (30% as proposed in the Incentivisation Scheme for Bridging Irrigation Gap (ISBIG)). The CADWM program mandates formation of Water Users' Associations (WUAs) under each Project, and also gives them-start up support through one-time infrastructure grant and functional grant. During FY 2016-17, CADWM works were ongoing in 152 projects targeting a CCA of about 70 Lakh Ha. After the introduction of PMKSY, the CADWM works got restricted to only 99 Prioritized AIBP Projects from 2016-17 onwards.

Further, CADWM works of all other projects (including remaining AIBP MMI Projects) are proposed to be funded through new scheme of Incentivization - ISBIG, for bridging the Irrigation gap between IPC and IPU, the works under which shall also include system correction / renovation and modernization requirement of completed projects in addition to pressurized pipe system and use of Sprinklers and Drip for their functioning at optimum level. The main objective of ISBIG is to bridge the gap between Irrigation Potential Created (IPC) and Irrigation Potential Utilized (IPU) in India's completed Water Resources Projects. In addition, the Scheme aims for providing assured supply of water to every farm field by bringing improvements in water-use efficiency; and it also seeks to strengthen the Participatory Irrigation Management by transfer of control and management of irrigation system to the Water Users' Associations.

State-wise details of MMI Projects under AIBP

S.No	Name of States	No. of MMI Projects benefiting under AIBP	No. of MMI Projects completed under AIBP	No. of ongoing Projects under AIBP	Cumulative CLA/Grant released as on 31.03.2020(Rs in Crore)	Ultimate Irrigation Potential created till 31.03.2020 (Th.Ha)
1	ANDHRA PRADESH	16	8	7	1400.45	344.16
2	ASSAM	11	8	3	514.78	146.221
3	BIHAR	9	5	4	858.02	478.865
4	CHHATISGARH	11	9	1	553.11	211.376
5	GOA	2	1	1	273.17	20.85
6	GUJARAT	15	14	1	12786.69	1729.153
7	HARYANA	3	2	0	90.54	115.222
8	HIMACHAL PRADESH	4	1	3	378.89	37.506
9	JAMMU & KASHMIR	19	11	8	546.04	60.9
10	JHARKHAND	10	3	6	2004.32	122.222
11	KARNATAKA	19	8	11	6942.77	849.645
12	KERALA	5	1	4	201.11	50.952
13	MADHYA PRADESH	22	18	4	6146.02	985.077
14	MAHARASHTRA	64	46	18	12095.69	883.801
15	MANIPUR	3	1	2	1572.32	37.36
16	MEGHALAYA	1	0	0	4	0
17	ODISHA	18	12	6	5822.22	337.373
18	PUNJAB	7	5	2	724.45	206.247
19	RAJASTHAN	10	9	1	2538.5	1154.079
20	TAMILNADU	1	1	0	20	0
21	TELENGANA	17	9	8	4850.42	549.328
22	TRIPURA	3	0	3	126.29	16.817
23	UTTARA PRADESH	18	11	7	5595.86	1941.566
24	UTTRAKHAND	2	1	0	609.75	0
25	WEST BENGAL	7	3	4	385	147.999
Total		297*	187**	104	67040.41	10426.719

*5 projects have been deferred

**including 44 projects under 99 priority projects category (PMKSY-AIBP); reported completed by state governments.

State-wise details of on going 99 Priority Projects under PMKSY-AIBP

S. No.	Name of States	No. of Projects	CLA/Grant released under PMKSY (Rs in Crore)						Ultimate Irrigation Potential created till 31.03.2020 (Th.Ha)
			2015-16	2016-17	2017-18	2018-19	2019-20	Total	
1	ANDHRA PRADESH	8	0.00	7.40	15.24	0.00	0.00	22.64	193.334
2	ASSAM	3	107.92	0.00	0.00	0.00	0.00	107.92	92.75
3	BIHAR	2	41.51	0.00	46.32	37.82	11.98	137.63	10.98
4	CHHATISGARH	3	0.00	13.29	17.26	0.00	4.09	34.64	41.82
5	GOA	1	0.00	0.00	0.00	0.00	0.00	0.00	11.83
6	GUJARAT	1	128.00	961.88	1410.49	1047.29	485.35	4033.01	1665.873
7	JAMMU & KASHMIR	4	34.31	0.00	12.05	16.92	5.88	69.16	22.444
8	JHARKHAND	1	281.62	145.75	305.10	305.88	0.00	1038.35	105.738
9	KARNATAKA	5	208.16	135.47	459.52	197.00	163.42	1163.57	190.28
10	KERALA	2	0.00	0.00	0.00	0.00	0.00	0.00	30.262
11	MADHYA PRADESH	14 (i/c phases of ISP & OSP total 21 Nos.)	188.21	300.14	181.27	81.01	26.45	777.08	786.763
12	MAHARASHTRA	26	307.80	379.22	363.52	527.54	291.69	1869.77	522.504
13	MANIPUR	2	142.38	127.00	25.42	21.93	30.50	347.23	25.541
14	ODISHA	8	173.80	457.74	464.71	119.39	90.65	1306.29	183.215
15	PUNJAB	2	1.05	52.42	0.00	0.00	0.00	53.47	91.95
16	RAJASTHAN	2	45.51	45.89	216.87	95.15	7.04	410.46	321.15
17	TELENGANA	11	112.50	547.63	13.24	1.99	214.05	889.41	331.34
18	UTTAR PRADESH	4	555.04	135.64	65.61	397.16	407.68	1561.13	1473.373
	Total	99	2327.81	3309.47	3596.62	2849.08	1738.78	13821.76	6101.15

Source: Mon(C) Dte., CWC



Flood Management Programme (FMP)

“Flood Management Programme (FMP)” a State Sector scheme amounting to Rs. 8,000 crore under Central Plan proposed by MoWR, RD&GR was approved by Government of India during XI Plan (Nov. 2007). The continuation of flood management programme has been approved by the Government of India during XII Plan with an outlay of Rs 10,000 crore and revised guidelines issued during October, 2013.

Under “Flood Management Programme”, critical flood control, river management and anti-sea erosion works in the entire country would be covered. These works would include the works related to river management, flood control, anti-erosion, drainage development, flood proofing, flood prone area development programme in critical regions, restoration of flood control/management works damaged due to force majeure like conditions, anti-sea erosion and catchment area treatment.

A total 522 schemes costing Rs 13238.37 Cr were approved during XI (420 projects costing Rs 7857.08 Cr) Plan and XII (102 projects costing Rs 5381.29 Cr) Plan. Out of these schemes, 235 schemes have been physically and financially completed; 168 schemes were physically completed with outstanding financial liability; 36 schemes foreclosed and shifted and 83 schemes are ongoing. A Central Assistance of Rs 4873.07 Cr was released during XI(Rs 3566.00 Cr) and XII(Rs 1307.07 Cr) Plan.

RIVER MANAGEMENT ACTIVITIES & WORKS RELATED TO BORDER AREAS (RMBA):

This started as a Central Sector Scheme with an outlay of Rs 820 Cr in XI plan for taking up non-structural measures such as Hydrological Observation and Flood Forecasting works on common border rivers, payment to neighbouring countries (China) for supplying HO data on common rivers, investigation of WR projects in neighbouring countries, activities of GFCC and Pancheswar Development Authority (PDA) was funded through this scheme. In addition to above activities, 100% Central Assistance was also provided for taking up structural measures such as Anti Erosion/Flood Management schemes on rivers on international borders and Union Territories. The scheme with an outlay of Rs 740 Cr was also continued during XII Plan. A Central Assistance (as grant in aid) of Rs 563.61 Cr was released during XI & XII Plan (XI plan-Rs340.41 Cr and XII Plan-Rs223.2 Cr).

FLOOD MANAGEMENT & BORDER AREAS PROGRAMME (FMBAP):

A comprehensive scheme titled “Flood Management and Border Areas Programme (FMBAP)” with an outlay of Rs 3342.00 Cr (FMP-Rs 2642 Cr & RMBA-Rs 700 Cr) for period 2017-2020 with merged components from the existing Flood Management Programme (FMP) and River Management Activities & Works related to Border Areas (RMBA) schemes during XII Five Year Plan has been approved by the Union Cabinet on 07-Mar-2019 and aims at completion of the on-going projects already approved under FMP.

A Central assistance of Rs 562.67 Cr was released during year 2017-18, Rs 428.2 Cr was released during 2018-19 and Rs 546.09 Cr has been released during current year 2019-20. Thus, since start of XI Plan, total Central Assistance released is Rs 6410.03 Cr till date under FMP component of FMBAP. A Central assistance of Rs 159.25 Cr was released during year 2017-18, Rs 256.48 Cr was released during 2018-19 and Central assistance of Rs 69.61 Cr has been released during current year 2019-20 under RMBA component of FMBAP.

Physical achievement of Flood Management Works

S. No	Name of States/UTs	Area Benefited (Mha)	Length of embankments (km)	Length of drainage channel (Km)	Village raised/protected (Nos)	Town/Vill. protection works (Nos)	Raised Platforms (Nos)
States							
1	Andhra Pradesh	1.31	2230	13569	23	72	0
2	Arunachal Pradesh	0.1	65.23	16.92	17	30	0
3	Assam	2.11	4473.82	874.97	1100	911	0
4	Bihar	3.692	3759.91	365	0	204	58
5	Chattisgarh	0	0	0	0	0	0
6	Delhi	0.078	83	453	0	0	0
7	Goa	0.003	23.19	32.77	0	2	0
8	Gujarat	0.483	104.12	271	30	805	0
9	Haryana	2	1144	4385	98	448	7
10	Himachal Pradesh	0.018	159.16	11	82	0	0
11	Jammu & Kashmir	0.217	560.681	324	1301	22	0
12	Jharkhand	0.001	14	0	5	2	0
13	Karnataka	0.005	73.515	10	0	0	0
14	Kerala	0.346	205.744	82.19	6	4	0
15	Madhya Pradesh	0.004	26	0	0	37	0
16	Maharashtra	0.001	44.5	110	0	0	0
17	Manipur	0.132	577	166	512	38	0
18	Meghalaya	0.015	112	0	10	8	0
19	Mizoram	0	0	0	0	38	0
20	Nagaland	0.632	10.519	0	0	8	0
21	Orissa	0.63	7137.75	650	14	29	0
22	Punjab	3.19	1370	6622	0	3	0
23	Rajasthan	0.082	145	197	0	25	0
24	Sikkim	0.041	101.81	64.86	0	18	0
25	Tamil Nadu	0.122	87	19	4	46	0
26	Tripura	0.033	141.74	95.23	0	11	0
27	Uttar Pradesh	1.703	3813.97	3995	4511	65	0
28	Uttaranchal	0.002	9	0	0	6	0
29	West Bengal	3.584	10539	7392.76	0	74	0
Union Territories							
30	A & N Islands	0	0	0	0		0
31	Chandigarh	0	0	0	0		0
32	Dadra & Nagar Haveli	0	0	0	0		0
33	Daman & Diu	0	0	0	0		0
34	Lakshadweep	0	0	0	0		0
35	Pondicherry	0.004	61	20	0		0
Total		20.538	37073	39726.7	7713	2906	65

▪ Tentative; as the table has been compiled from available information in office and website of various State Govts.

Status of Works and Funds Released Under FMP

(Since Start of XI Plan)

Sl. No.	State	XI Plan			XII Plan			Total (XI + XII Plan)						2017-18	2018-19	2019-20	Total funds released
		Works Approved		Funds	Works Approved		Funds	Works Approved		Works	Works	Works	Funds	Funds	Funds		
		Nos.	Estimated Cost	Released (XI Plan)	Nos.	Estimated Cost	Released (XII Plan)	Nos.	Estimated Cost	Completed	Shifted/Foreclosed	Ongoing as per EFC-FMBAP 2017-20	Released (XI + XII Plan)	released	released	released	
1	Arunachal Pradesh	21	224.69	81.69	0	0.00	87.91	21	224.69	17		4	169.60	21.18			190.78
2	Assam	100	996.14	748.86	41	1386.97	64.89	141	2383.11	103	4	34	813.75	245.49	142.118	85.03	1286.39
3	Bihar	43	1370.42	723.18	4	447.63	184.64	47	1818.05	42	1	4	907.82		16.583		924.41
4	Chhattisgarh	3	31.13	15.57	0	0.00	3.75	3	31.13	3		0	19.32				19.32
5	Goa	2	22.73	9.98	0	0.00	2.00	2	22.73	2		0	11.98				11.98
6	Gujarat	2	19.79	2.00	0	0.00	0.00	2	19.79	2		0	2.00				2.00
7	Haryana	1	173.75	46.91	0	0.00	0.00	1	173.75	1		0	46.91				46.91
8	Himachal Pradesh	3	225.32	165.98	4	1139.62	221.87	7	1364.94	5	1	1	387.85	87.50	162.6	176.41	814.36
9	Jammu & Kashmir	28	408.22	252.57	15	562.47	169.95	43	970.69	16	2	25	422.52	110.40	52.1984	92.81	677.93
10	Jharkhand	3	39.30	18.44	0	0.00	4.27	3	39.30	3		0	22.71				22.71
11	Karnataka	3	59.46	23.80	0	0.00	0.00	3	59.46	2	1	0	23.80				23.80
12	Kerala	4	279.74	63.68	0	0.00	55.22	4	279.74	2	2	0	118.90	19.05			137.95
13	Manipur	22	109.34	66.34	0	0.00	24.36	22	109.34	22		0	90.70				90.70
14	Meghalaya	0	0.00	3.81	0	0.00	0.00	0	0.00	0		0	3.81				3.81
15	Mizoram	2	9.13	14.48	0	0.00	1.93	2	9.13	1	1	0	16.41	0.47			16.88
16	Nagaland	11	49.35	28.96	6	74.52	54.17	17	123.87	14		3	83.12		10.841		93.96
17	Orissa	67	169.00	101.12	1	62.32	0.00	68	231.32	66	2	0	101.12				101.12
18	Puducherry*	1	139.67	7.50	0	0.00	0.00	1	139.67	0	1	0	7.50				7.50
19	Punjab	5	153.40	40.43	0	0.00	0.00	5	153.40	4		1	40.43				40.43
20	Sikkim	28	104.92	83.69	17	261.40	8.15	45	366.32	28	17	0	91.84				91.84
21	Tamilnadu	5	635.54	59.82	0	0.00	0.00	5	635.54	5		0	59.82				59.82
22	Tripura	11	26.57	23.62	0	0.00	0.00	11	26.57	11		0	23.62				23.62
23	Uttar Pradesh	26	667.57	290.69	3	291.70	111.22	29	959.27	24	2	3	401.91	13.55	15.575	39.15	470.18
24	Uttarakhand	12	119.82	49.63	10	715.72	153.98	22	835.54	15	2	5	203.61		4.634	35.58	243.82
25	West Bengal	17	1822.08	643.26	1	438.94	158.75	18	2261.02	15		3	802.01	65.03	23.652	117.12	1007.81
	Total	420	7857.08	3566.00	102	5381.28	1307.07	522	13238.36	403	36	83	4873.07	562.67	428.20	546.09	6410.03

*The scheme has been shifted to be funded under RMBA component.



National Projects

Government of India approved a scheme of National Projects for implementation during XI Plan with a view to expedite completion of identified National projects for the benefit of the people. Such Projects are provided Central Assistance of 90% of the cost of irrigation & drinking water component (as per original Guideline) of the project as by Government of India for their completion in a time bound manner. The proposal for continuation of Scheme of National Project in XII Plan was approved by CCEA on 12.09.2013. As per the approval, Central Assistance were to be provided as 75% and 90% of the cost of balance works of Irrigation and drinking water component for Projects of Non-Special Category State and Special Category States, respectively. However, in the recently launched PMKSY, to which AIBP including National Projects has also been made a component, the proportion of Central Assistance from 2016-17 onwards has been reduced to 60% except in case of projects in Special Category States (eight North Eastern and three Himalayan States) which will continue to get 90% of the cost as Central grant.

The Government of India initially declared 14 projects as National Projects in February 2008. Later on, two projects namely Saryu Nahar Pariyojana and Polavaram Irrigation Project were included under the scheme of National Projects. Implementation of these projects is monitoring by the High Powered Steering Committee constituted by Union Cabinet with Secretary, MoWR, RD&GR as Chairman of the Committee.

The criteria for selection of National Projects are as under:

1. International projects where usage of water in India is required by a treaty or where planning and early completion of the project is necessary in the interest of the country.
2. Inter-State projects which are dragging on due to non-resolution of Inter-State issues relating to sharing of costs, rehabilitation, aspects of power production etc., including river interlinking projects.
3. Intra State projects with additional potential of more than 2,00,000 hectare (ha) and with no dispute regarding sharing of water and where hydrology is established.
4. Extension, Renovation and Modernization (ERM) projects envisaging restoration of lost irrigation potential of 2,00,000 ha or more would be eligible for inclusion as a National Project subject to certain conditions.

New Projects could be considered for inclusion under the scheme of National Projects on receipt of proposals in the prescribed format from the State Governments after investment clearance from Competent Authority, clearance from Expenditure Finance Committee/ Project Investment Board on the recommendation there upon of the High Powered Steering Committee and approval by the Union Cabinet. An ERM Project of a State Government may be included in the scheme of National Projects only on completion of one ERM Project already being funded in the state under the category of National Projects.

List of Water Resources Projects Declared as National Projects

Sl. No	Name of the Project	State (River/Basin)	1) Irrigation Potential (ha.) 2) Power (MW) 3) Storage (MCM)	Plan wise Central Assistance Released under Scheme of National Projects (Rs Cr.)
1	Indira Sagar Polavaram Project	Andhra Pradesh (Godavari)	1) 4.36 lakh 2) 960 MW 3) 663.59 MCM of water to Vizag city for drinking and industrial purpose and Diversion of 2264.80 MCM to Krishna basin	12th Plan = 3364.70 2017-18 = 2000.00 2018-19 = 1400.00 2019-20 = 1850.00 Total = 8614.70
2	Gosikhurd Irrigation Project	Maharashtra (Wainganga/ Godavari)	1) 2.50 lakh 2) 26.5 MW 3) 1147.14 MCM (Gross)	11th Plan = 2582.94 12th Plan = 405.00 2017-18 = 166.59 2018-19 = 246.15 Total = 3400.69
3	Shahpurkandi Dam Project	Punjab (Ravi)	1) 0.37 lakh 2) 206 MW 3) 120.88 MCM (Gross)	11th Plan = 26.04 12th Plan = Nil 2017-18 = Nil 2018-19 = Nil 2019-20 = 60.00
4	Saryu Nahar Pariyojna	Uttar Pradesh (Diversion Scheme among Rivers Ghaghara, Saryu, Rapti & Bansagar/ Ganga)	1) 14.04 (NP Component: 4.73) 2) – 3) Barrage	11th Plan = Nil 12th Plan = 1221.58 2017-18 = Nil 2018-19 = 305.00 2019-20 = 358.20 Total = 1884.80
5	Teesta Barrage Project	West Bengal (Teesta)	1) 9.23 lakh (NP component : 5.27 lakh) 2) 1000 MW 3) Barrage	11th Plan = 178.20 12th Plan = Nil Total = 178.20
6	Ujh Multipurpose project	J&K (Ujh / Ravi)	1) 0.32 lakh 2) 196 MW 3) 925 MCM (Gross)	Nil
7	Lakhwar Multipurpose Project	Uttarakhand (Yamuna)	1) 0.338 lakh 2) 300 MW 3) 587.84 MCM (Gross)	Nil
8	Noa-Dihing Dam Project	Arunachal Pradesh (Noa-Dihing)	1) 0.069 lakh	Nil

List of Water Resources Projects Declared as National Projects

Sl. No	Name of the Project	State (River/Basin)	1) Irrigation Potential (ha.) 2) Power (MW) 3) Storage (MCM)	Plan wise Central Assistance Released under Scheme of National Projects (Rs Cr.)
9	Kulsi Dam Project	Assam (Kulsi) Tributary of Brahmaputra	1) 0.395 lakh 2) 55 MW 3) 525.64 MCM (Gross)	Nil
10	Renuka Dam Project	HP (Giri/Yamuna)	1) Drinking water 2) 40 MW 3) 498.33 MCM (Live)	One time special assistance of Rs 446.96 Cr was released in Oct-16
11	Kishau Multipurpose Project	HP/ Uttarakhand	1) 0.97 lakh 2) 660 MW 3) 1824 MCM (Gross)	Nil
12	Bursar HE Project	J&K (Marusudar/ Chenab / Indus)	1) 1.74 lakh 2) 800 MW 3) 616.74 MCM (Gross)	Nil
13	Ken Betwa Link Project	Madhya Pradesh & Uttar Pradesh (Ken & Betwa/ Yamuna basin)	1) 10.62 lakh 2) 103 MW 3) 3711.55 MCM (Gross)	Nil
14	2 nd Ravi Vyas Link Project	Punjab (Ravi Beas Link)	Harness water flowing across border (about 715.42 MCM in non-monsoon period)	Nil
15	Upper Siang Project	Arunachal Pradesh (Siang)	1) Indirect 2) 9750 MW 3) 1776.21 MCM (Gross) 4) Flood moderation	Nil
16	Gyspa HE Project	HP (Bhaga / Chenab / Indus)	1) 0.50 lakh ha 2) 300 MW 3) 912.78 MCM (Live)	Nil

Source: National Projects Directorate, Central Water Commission

MCM- Million Cubic Meter

MW- Mega Watt



External Assistance for Development of Water Resources

External assistance flows to the country in various forms; as multilateral or bilateral aid, loan, grants and commodity aid from various foreign countries and other donor agencies such as World Bank, Japan International Cooperation Agency (JICA), Asian Development Bank (ADB) etc. for the implementation of irrigation projects.

The Department of Water Resources, River Development & Ganga Rejuvenation, Ministry of Jal Shakti and its organizations assist the State Governments in tying up the external assistance from different funding agencies to fill up the resources gaps, both in terms of funds and technological update for rapid development of country's water resources.

The important activities of Central Water Commission in Externally Aided Irrigation projects are:-

1. Examining Concept Notes of proposed Externally Aided Projects (EAPs) for in-principle consent for preparation of DPR.
2. Appraisal of DPR of proposed EAPs and preparation of TAC Note for putting the same before the Advisory Committee of MoWR, RD&GR on Irrigation, Flood Control and Multipurpose Projects.
3. To maintain a list of Arbitrators for the dealing with the disputes arising out of the works contracts between States and the contractors and suggest Chairman's nominee from the list of empanelled arbitrators.

Source: External Assistance Directorate, Central Water Commission



Repair, Renovation & Restoration (RRR) of Water Bodies

In India, tanks/ponds and lakes have traditionally played an important role in conserving water for meeting various needs of the communities. Through the ages, Indian agriculture has been sustained by natural and man-made water bodies such as lakes, tanks, ponds and similar structures. A water body is a structure where rain water is accumulated or water is stored by diversion from a stream, nala or river. As per 5th Minor Irrigation Census 2013-14, there are 5.16 lakh tanks and storages in the country as minor irrigation sources. Many of these water bodies have gone into disuse because of the development of ground water irrigation systems, inadequate maintenance, encroachments, etc.

The scheme of RRR of water bodies has multiple objectives such as reclamation of the lost irrigation potential, improvement of catchment area of the tanks, increase in storage capacity of water bodies and development of tourism and cultural activities.

A pilot scheme for “RRR of Water Bodies directly linked to Agriculture” was launched in January 2005 for implementation during the remaining period of X Plan with an outlay of Rs. 300 Cr. The scheme was sanctioned in respect of 1098 water bodies in 26 districts of 15 States. Out of these, 1085 water bodies were completed and 13 water bodies were dropped. An irrigation potential of 0.78 lakh ha was restored.

Keeping in view the success of the pilot scheme for RRR of water bodies and need to upscale the gains from water bodies, the Ministry of Jal Shakti (erstwhile Ministry of Water Resources, RD&GR) launched a State Sector Scheme for Repair, Renovation & Restoration (RRR) of water bodies with two components (i) one with external assistance and (ii) another with domestic support for implementation during XI Plan. Under the scheme, 3114 water bodies were completed with domestic support and 8054 water bodies were completed with external assistance. To increase the participation of all the States it was felt to frame a new scheme for RRR of Water Bodies during the XII plan as a State Sector Scheme with domestic budgetary support.

Government of India is committed to accord high priority to water conservation and its management. To this effect, Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) was launched in 2015-16 with an aim to enhance physical access of water on farm and expand cultivable area under assured irrigation, improve on farm water use efficiency, introduce sustainable water conservation practices etc. PMKSY- Har Khet Ko Pani (HKKP) is one of the component of PMKSY. The scheme of RRR of water bodies has become a part of PMKSY (HKKP).

Funding pattern under PMKSY:

S. No.	Category	Funding Pattern
1.	Seven North-Eastern states including Sikkim & three Hilly states (Himachal Pradesh, Jammu and Kashmir and Uttarakhand)	90 (Central) : 10 (State)
2.	Project benefitting special areas i.e. undivided Koraput, Bolangir and Kalahandi (KBK) districts of Odisha, Bundelkhand region of UP and MP, Marathwada & Vidharbha region of Maharashtra, Naxal affected areas, DPAP areas, Tribal areas, Flood prone area, Desert Development Programme (DDP) area of General Category States / UTs.	60 (Central) : 40 (State)
3.	General Category States/UTs excluding the special areas.	25 (Central) : 75 (State)

There are 2219 water bodies (ongoing at start of XII plan/included thereafter) with an estimated cost of Rs. 1910.68 Cr. Under the program at present as reported by states so far (till July, 2020), restoration works of 1546 water bodies have been completed. Total CA released so far (till July, 2020) is Rs. 433.89 Cr.

Source: Economics Directorate, Central Water Commission



National Water Misssion and Climate Change Issue

The “National Water Mission” was formulated by erstwhile Ministry of Water Resources (now Ministry of Jal Shakti) with main objective of “conservation of water, minimizing wastage and ensuring its more equitable distribution both across and within States through integrated water resources development and management”. The Mission, duly approved by the Government, has set five goals to achieve the above objective, which are:

1. Comprehensive water data base in public domain and assessment of the impact of climate change on water resource.
2. Promotion of citizen and state actions for water conservation, augmentation and preservation.
3. Focused attention on vulnerable areas including over-exploited areas
4. Increasing water use efficiency by 20%
5. Promotion of basin level integrated water resources management.

Climate Change cell was created in CWC in August,2007 to deal with all the studies, works and reports on the subject regarding impact of climate change on water resources being referred to CWC. CWC provides inputs and assistance to NWM secretariat in examining the research proposals related to climate change received in NWM Secretariat.

MoWR has established six Chairs in Academic institutes-IIT Kanpur, IIT Kharagpur, IIT Guwahati, IIT Roorkee, NIT Patna and NIT Srinagar with the objective of carrying out studies and research on “Impact of climate change on Water Resources”.

Monitoring of Glacial lakes/Water bodies in the Himalayan Region of Indian river basin has been carried out on monthly basis from June to October. The main objective of the study is to monitor the changes in the spatial extent of the glacial lakes and water bodies greater than 50ha area with the area of base year 2009 using satellite data received from NRSC, Hyderabad. Monthly Monitoring Reports have been sent to Central/State Govt agencies and other stakeholders.

Morphological Studies

The study of river morphology and implementation of suitable river training works as appropriate have become imperative for our nation as large areas of the country are affected by floods every year causing severe damage to life and property in-spite of existing flood control measures taken both by Central and State Governments. Problems are aggregating mainly due to large quantity of silt/ sediment being carried and deposited in its downstream reaches. The special behaviour of the river needs to be thoroughly understood for evolving effective strategies to overcome the problem posed by it.

Source: Morphology & CC Directorate, Central Water Commission

Dam Rehabilitation and Improvement Project

In April 2012, Ministry of Jal Shakti initiated World Bank assisted ongoing Dam Rehabilitation and Improvement Project (DRIP) with an objective to improve safety and operational performance of selected dams, along with institutional strengthening with system wide management approach. The Scheme has provision to rehabilitate 223 dams, located in 7 States Jharkhand, Karnataka, Kerala, Madhya Pradesh, Odisha, Tamil Nadu and Uttarakhand with revised budget outlay of Rs. 3466 Cr.

Scheme Outcome

- Physical rehabilitation of 223 dams to address various safety concerns of dams, safety of downstream people, property, environment and ecology of river
- Preparation of Emergency Action Plans (EAP) for all selected dams, 177 EAP prepared, 145 published and 42 nos. of Stakeholder Consultation Meetings conducted
- Operation and Maintenance Manuals for all DRIP dams, 166 manuals prepared
- 2 nos. of Inspection Manuals for Dam Field Engineers in post-seismic event for dams located in Uttarakhand and Jharkhand published
- De-siltation works for 3 dams (Tamilnadu:2, and Uttarakhand:1) taken up



Stakeholder Consultation Meeting to disseminate Emergency Action Plan



International Dam Safety Conferences 2019



International and National trainings



Technical Publications prepared under DRIP



Upstream Reflective coating at Idduki dam



U/S Stone Pitching



Geomembrane Lining Works



Earth slip soil erosion protection works

- Dam Health and Rehabilitation Monitoring Application (DHARMA), a web-based asset management tool developed to support the effective collection and management of dam data. The licenses for this tool have been provided to 17 States and 3 Central Agencies. This tool has 1062 nos of official users with stored data of 1563 nos of large dams.
- 12 nos. of new Guidelines and Manuals published on various aspects of dam safety, 6 nos. of guidelines/manuals under finalization
- Provisions for capacity building of 8 Academic Institutions and 2 Central Agencies in addition to 10 Project Agencies
- Provision for Seismic Hazard Assessment Mapping of whole Country
- 184 nos. of training programs conducted so far, wherein about 5400+ officials trained

Impacts

- All technical activities like safety inspections, investigations, rehabilitations, instrumentation, risk assessment etc. and institutional set up envisaged under Dam Safety Bill; DRIP is preparing dam owners of India to achieve these objectives
- The Scheme has been able to develop two most important technical documents (EAP, O&M manual) for all DRIP dams which will ensure safety and operational performance of selected dams; will mitigate the associated risks with dam failure through stakeholders sensitization about consequences, contribute in making more disaster resilience society
- Capacity building of all partners will ensure availability of trained manpower to ensure safe dam operations
- DRIP has given platform to all concerned States to take up need based de-siltation activities of reservoirs
- DRIP will enable India to act as knowledge hub and strength in dam safety management especially for African and South East Asian Countries
- First time in Country, academic institutions have been taken on board for long term capacity building to meet the future challenges of dam safety management



New Drip Phase II and Phase III

Based on the success of ongoing DRIP, the Ministry of Jal Shakti initiated activities for new DRIP by inviting proposals in year 2017 for inclusion of more number of States to include more dams facing serious health and dam safety challenges.

Proposals have been received from 19 States, and 3 Central Agencies. Scheme has provision for rehabilitation of 736 dams at an estimated cost of Rs 10211 Cr (US\$ 1.5 Billion). The Government of India and World Bank approved this Scheme in-principle.

The Cabinet Committee on Economic Affairs chaired by the Prime Minister Shri Narendra Modi has approved the Dam Rehabilitation and Improvement Project (DRIP) Phase II & Phase III with the financial assistance of the World Bank (WB), and Asian Infrastructure Investment Bank (AIIB) to improve the safety and operational performance of selected dams across the whole country, along with institutional strengthening with system wide management approach.

The project cost is Rs 10,211 crore. The Project will be implemented over a period of 10 years duration in two Phases, each of six years duration with two years overlapping from April, 2021 to March, 2031. The share of external funding is Rs 7,000 crore of the total project cost, and balance Rs 3,211 crore is to be borne by the concerned Implementing Agencies (IAs). The contribution of Central Government is Rs 1,024 crore as loan liability and Rs 285 crore as counter-part funding for Central Component.

DRIP Phase II & Phase III envisages the following objectives:-

- i. To improve the safety and performance of selected existing dams and associated appurtenances in a sustainable manner.
- ii. To strengthen the dam safety institutional setup in participating states as well as at central level, and
- iii. To explore the alternative incidental means at few of selected dams to generate the incidental revenue for sustainable operation and maintenance of dams

To achieve the above objectives, DRIP Phase II & Phase III has following components:

- a. Rehabilitation and improvement of dams and associated appurtenances,
- b. Dam safety institutional strengthening in participating States and Central agencies,
- c. Exploration of alternative incidental means at few of selected dams to generate the incidental revenue for sustainable operation and maintenance of dams, and
- d. Project management.

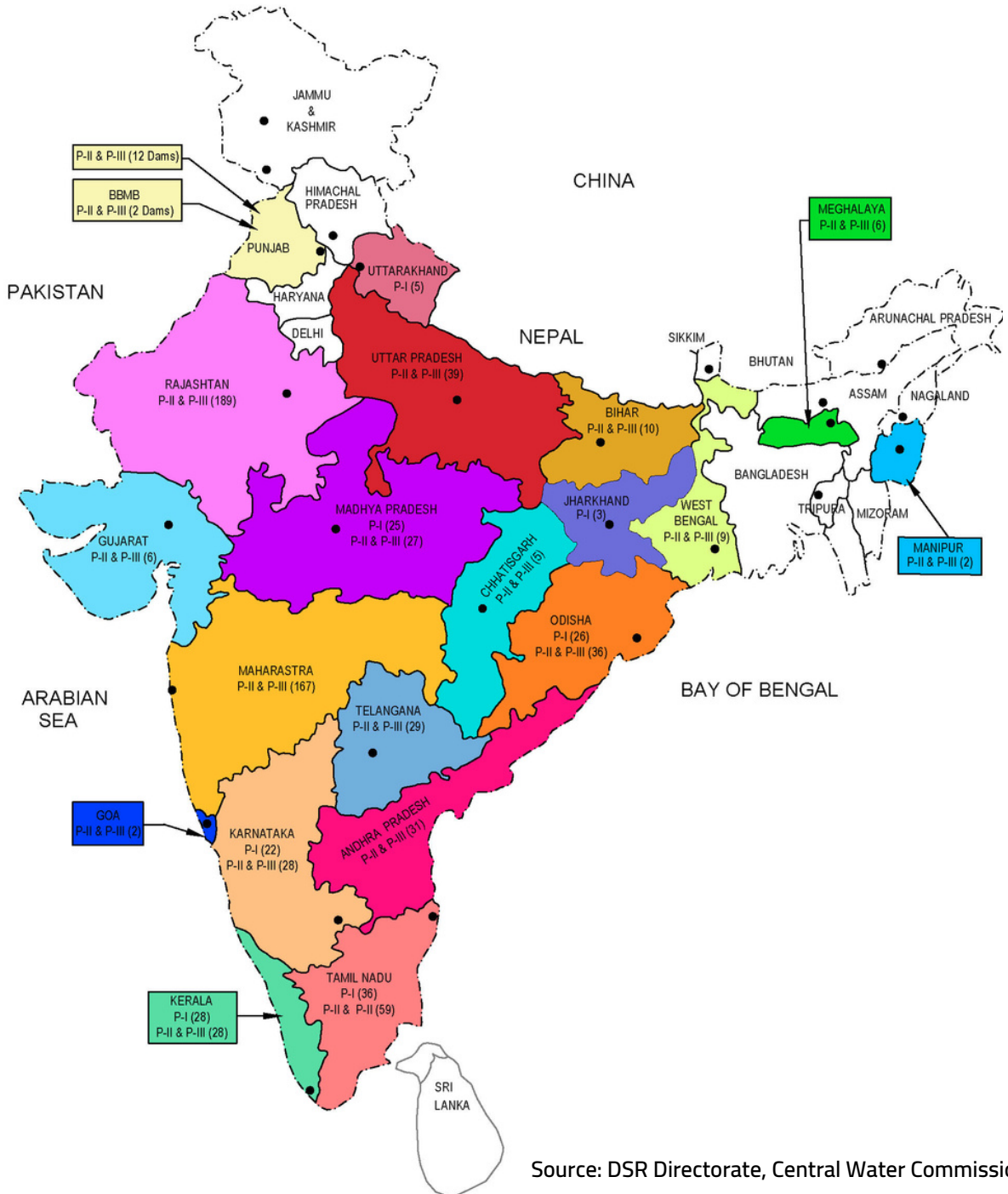
New Drip Phase II and Phase III

The Scheme envisages comprehensive rehabilitation of 736 existing dams located across the country. Implementing Agency wise breakup of number of dams to be taken up for rehabilitation are as follows:

Sl. No.	State/ Agency	No. Of Dams
1	Andhra Pradesh	31
2	Bhakra Beas Management Board (BBMB)	2
3	Chhattisgarh	5
4	Central Water Commission	
5	Damodar Valley Corporation	5
6	Goa	2
7	Gujarat	6
8	Jharkhand	35
9	Karnataka	41
10	Kerala	28
11.	Madhya Pradesh	27
12.	Maharashtra	167
13.	Manipur	2
14.	Meghalaya	6
15.	Odisha	36
16.	Punjab	12
17.	Rajasthan	189
18.	Tamilnadu	59
19.	Telangana	29
20.	Uttar Pradesh	39
21.	Uttarakhand	6
22.	West Bengal	9
	Total	736



New Drip Phase II and Phase III



Source: DSR Directorate, Central Water Commission



Dynamic Groundwater Resources Assessment of India - 2017

STATE-WISE GROUND WATER RESOURCES OF INDIA, 2017														(in bcm)
S. No.	States / Union Territories	Ground Water Recharge				Total Natural Discharges	Annual Extractable Ground Water Resource	Current Annual Ground Water Extraction				Annual GW Allocation for Domestic Use as on 2025	Net Ground Water Availability for future use	Stage of Ground Water Extraction (%)
		Monsoon Season Recharge from rainfall	Season Recharge from other sources	Non-monsoon Season Recharge from rainfall	Recharge from other sources			Irrigation	Industrial	Domestic	Total			
	States													
1	Andhra Pradesh	9.96	5.62	1.21	4.42	21.22	1.07	20.15	7.85	0.14	0.9	1.48	12.31	44.15
2	Arunachal Pradesh	1.89	0.18	0.95	0.01	3.02	0.36	2.67	0	0	0.01	0.03	2.64	0.28
3	Assam	20.22	0.43	7.28	0.74	28.67	4.42	24.26	1.97	0.06	0.69	0.79	21.43	11.25
4	Bihar	19.83	3.95	3.14	4.5	31.41	2.43	28.99	10.78	0.66	1.83	1.83	15.78	45.76
5	Chhattisgarh	7.82	1.36	0.76	1.64	11.57	1	10.57	3.98	0.05	0.67	0.79	5.76	44.43
6	Delhi	0.13	0.06	0.03	0.11	0.32	0.02	0.3	0.09	0.02	0.24	0.29	0.02	119.61
7	Goa	0.19	0.03	0.01	0.05	0.27	0.11	0.16	0.02	*	0.03	0.05	0.07	33.5
8	Gujarat	15.95	3.4	0	3.02	22.37	1.12	21.25	12.84	0.11	0.63	13.58	0.9	7.98
9	Haryana	3.56	2.55	1.03	3	10.15	1.01	9.13	11.53	0.34	0.63	12.5	0.72	136.91
10	Himachal Pradesh	0.34	0.02	0.11	0.04	0.51	0.05	0.46	0.2	0	0.19	0.39	0.34	86.37
11	Jammu & Kashmir	1	0.5	0.88	0.51	2.89	0.29	2.6	0.2	0.07	0.5	0.76	0.5	29.47
12	Jharkhand	5.25	0.13	0.41	0.42	6.21	0.52	5.69	0.8	0.22	0.56	1.58	0.56	27.73
13	Karnataka	6.59	4.36	2.67	3.22	16.84	2.05	14.79	9.39	*	0.95	10.34	1.14	69.87
14	Kerala	3.91	0.04	0.68	1.13	5.77	0.56	5.21	1.22	0.01	1.44	2.67	1.57	51.27
15	Madhya Pradesh	27.1	1.51	0.82	6.99	36.42	1.95	34.47	17.43	0.22	1.24	18.88	1.72	54.76
16	Maharashtra	20.59	2.29	0.53	8.23	31.64	1.74	29.9	15.1	0.003	1.22	16.33	2.28	54.62
17	Manipur	0.23	0.01	0.17	0.02	0.43	0.04	0.39	0	0	0	0.01	0.04	1.44
18	Meghalaya	1.37	0.01	0.43	0.02	1.83	0.19	1.64	0.03	0	0.01	0.04	0.02	2.28
19	Mizoram	0.16	0	0.05	0	0.21	0.02	0.19	0	0	0.01	0.01	0.01	3.82
20	Nagaland	1.65	0.03	0.52	0	2.2	0.22	1.98	0	0	0.02	0.02	0.02	0.99
21	Odisha	10.53	2.34	1.5	2.37	16.74	1.17	15.57	5.28	0.14	1.15	6.57	1.3	42.18
22	Punjab	5.54	11.83	1.31	5.25	23.93	2.35	21.58	34.56	0.2	1.01	35.78	1.41	165.77
23	Rajasthan	9.74	0.78	0.24	2.44	13.21	1.22	11.99	14.85	0	1.92	16.77	2.67	139.88
24	Sikkim	5.2	0	0.43	0	5.63	4.11	1.52	0	0	0	0	0.01	0.06
25	Tamil Nadu	6.67	9.41	1.89	2.26	20.22	2.02	18.2	13.06	0	1.67	14.73	1.85	80.94
26	Telangana	7.56	1.42	1.88	2.76	13.62	1.25	12.37	7.09	*	1	8.09	1.39	65.45
27	Tripura	0.8	0.06	0.4	0.26	1.53	0.29	1.24	0.02	0	0.08	0.1	0.11	7.88
28	Uttar Pradesh	37.73	11.67	1.59	18.93	69.92	4.6	65.32	40.89	*	4.95	45.84	5.96	70.18
29	Uttarakhand	1.15	0.93	0.09	0.87	3.04	0.15	2.89	1.3	0.13	0.22	1.64	0.22	56.83
30	West Bengal**	18.71	1.51	5.26	3.85	29.33	2.77	26.56	10.84	*	1	11.84	1.53	44.6
	Total States	251.36	66.41	36.3	77.06	431.13	39.09	392.04	221.33	2.38	24.77	248.5	31.52	63.38
	Union Territories													
1	Andaman & Nicobar	0.35	0	0.02	0	0.37	0.04	0.33	0	0	0.01	0.01	0.01	2.74
2	Chandigarh	0.02	0.01	0	0.01	0.04	0	0.04	0	*	0.03	0.03	0.03	89
3	Dadra & Nagar Haveli	0.06	0	0	0.01	0.07	0	0.07	0.01	*	0.01	0.02	0.01	31.34
4	Daman & Diu	0.02	0	0	0	0.02	0	0.02	0.01	0	0	0.01	0	61.4
5	Lakshdweep	0.01	0	0	0	0.01	0.01	0.004	0	0	0.002	0.002	0	65.99
6	Puducherry	0.09	0.07	0.02	0.05	0.23	0.02	0.2	0.11	*	0.04	0.15	0.04	74.33
	Total UTs	0.54	0.08	0.05	0.07	0.73	0.08	0.66	0.13	0	0.1	0.23	0.1	34.51
	Grand Total	251.9	66.49	36.34	77.13	431.86	39.16	392.7	221.46	2.38	24.87	248.7	31.62	63.33

*Industrial and domestic draft has not been estimated separately in Goa, Himachal Pradesh, Karnataka, Rajasthan, Tamil Nadu, Uttar Pradesh, Chandigarh, Dadra & Nagar Haveli and Puducherry.

**The Ground Water resources assessment as on 2013 has been considered for the state of West Bengal

Source: CGWB

State/ UT-wise details of sewage generation in urban areas and treatment capacity available

Sl. No.	State/Union Territory	Sewage Generation in urban areas (mld)	Installed Treatment Capacity (mld)	Number of STPs
1.	Andaman & Nicobar Islands	22	-	-
2.	Andhra Pradesh	2871	247.27	12
3.	Arunachal Pradesh	50	-	-
4.	Assam	703	0.21	1
5.	Bihar	1879	124.55	6
6.	Chandigarh	164	314.5	5
7.	Chhattisgarh	951	-	-
8.	Dadra & Nagar Haveli	26	-	-
9.	Daman & Diu	29	-	-
10.	Goa	145	74.58	7
11.	Gujarat	4119	3062.92	51
12.	Haryana	1413	852.7	41
13.	Himachal Pradesh	110	114.72	66
14.	Jammu & Kashmir	547	264.74	19
15.	Jharkhand	1270	117.24	15
16.	Karnataka	3777	1304.16	57
17.	Kerala	2552	152.97	10
18.	Lakshadweep	8	-	-
19.	Madhya Pradesh	3214	482.23	17
20.	Maharashtra	8143	5160.36	76
21.	Manipur	132	-	-
22.	Meghalaya	95	1	1
23.	Mizoram	90	10	1
24.	Nagaland	92	-	-
25.	Delhi	4155	2693.7	35
26.	Odisha	1121	385.54	13
27.	Puducherry	136	68.5	6
28.	Punjab	1664	1245.45	86
29.	Rajasthan	2736	865.92	63
30.	Sikkim	24	31.88	11
31.	Tamil Nadu	5599	1799.72	73
32.	Telangana	1671	685.8	18
33.	Tripura	154	0.05	1
34.	Uttar Pradesh	7124	2646.84	73
35.	Uttarakhand	495	152.9	24
36.	West Bengal	4667	416.9	28
Total		61948	23277	816

As per the report published by Central pollution Control Board (CPCB) in March, 2015

Source: CPCB

Status of Tribunals

The Central Government has, so far, set up nine Tribunals to settle water disputes among the States under the ISRWD (Inter-State River Water Dispute) Act, 1956

S. No.	Name of the Tribunal	States Concerned	Date of Constitution	Present Status
1	Godavari Water Disputes Tribunal	Maharashtra, Andhra Pradesh, Karnataka, Madhya Pradesh & Orissa	10 th April 1969	Award given in July 1980
2	Krishna Water Disputes Tribunal - I	Maharashtra, Andhra Pradesh, Karnataka,	10 th April 1969	Award given in May 1976
3	Narmada Water Disputes Tribunal	Rajasthan, Madhya Pradesh, Gujarat and Maharashtra	6 th October 1969	Award given in Dec 1979. Narmada Control Authority (NCA) was constituted to give effect to the decision
4	Ravi & Beas Water Tribunal	Punjab, Haryana and Rajasthan	2 nd April 1986	Report & Decision under section 5(2) given in April, 1987. Clarification / explanation sought from the tribunal under section 5(3) of the said Act by the party States. The matter is sub-judice.
5	Cauvery Water Disputes Tribunal	Kerala, Karnataka, Tamil Nadu and Puduchery	2 nd June 1990	Report & Decision under section 5(2) given on 05.02.2007 and published vide Notification dated 19.02.2013. Pursuant to Hon'ble Supreme Court verdict dated 16.02.2018, the Tribunal has been dissolved vide Gazette Notification No. S.O. 3465(E) dated 16.07.2018.
6	Krishna Water Disputes Tribunal - II	Karnataka, Andhra Pradesh and Maharashtra	2 nd April 2004	Report & Decision under section 5(2) given on 30.12.2010. Further report under section 5(3) given by the Tribunal on 29.11.2013. However, as per Hon'ble Supreme Court Order dated 16.09.2011, till further order, report/decision of the Tribunal shall not be published in the official Gazette. The matter is sub-judice. The Tribunal is currently hearing matters as per section 89 of Andhra Pradesh Reorganization Act, 2014.
7	Vansadhara Water Disputes Tribunal	Andhra Pradesh & Odisha	24 th February 2010	Report & Decision under section 5(2) submitted on 13.09.2017. Further references under section 5(3) have been filed by the party States and the Central Government before the Tribunal. The matter is sub-judice.
8	Mahadayi Water Disputes Tribunal	Goa, Karnataka and Maharashtra	16 th November 2010	Report & Decision under section 5(2) submitted on 14.08.2018. Further Report under Section 5(3) is pending. Basin States have filed separate SLPs in Hon'ble Supreme Court. On hearing I.A. of State of Karnataka, Hon'ble Supreme Court vide its order dated 20.02.2020, allowed the said I.A. subject to the result of the pending proceedings. Accordingly, Central Government has published MWD Award in official Gazette on 27.02.2020.
9	Mahanadi Water Disputes Tribunal	Chhattisgarh & Odisha	12 th March 2018	Matter is sub-judice before the Tribunal under section 5(2) of ISRWD Act.

Source: IMO, CWC



Interlinking of Rivers

Under the National Perspective Plan (NPP) for water resources development for transferring water from water surplus basins to water-deficit basins through inter basin transfer of water was prepared by the then Ministry of Irrigation, (now Ministry of Jal Shakti). NWDA has identified 30 links (16 under Peninsular Component & 14 under Himalayan Component) for preparation of Feasibility Reports. The pre-feasibility report of the all 30 links have been prepared and circulated to the concerned State Govts. by the NWDA. After survey and investigations, Feasibility Reports of 14 links under Peninsular Component and Feasibility Reports of 3 links (2 India part) and draft Feasibility Reports of 7 links (Indian portion) under Himalayan Component have been completed.

Four priority links for preparation of Detailed Project Report (DPR) under Peninsular Rivers Component have been identified viz; Ken – Betwa Link, Damanganga – Pinjal Link, Par – Tapi – Narmada link and Godavari – Cauvery link. Based on the concurrence of the concerned States, Detailed Project Reports of Ken – Betwa link project (Phase – I, II & Comprehensive report), Damanganga – Pinjal link and Par – Tapi – Narmada link have been completed. The techno-economic clearance and various statutory clearances of the Ken – Betwa link project phase – I have been accorded except Stage – II forest clearance and CEC clearance of Hon'ble Supreme Court. Based on the suggestions of Govt. of MP, three projects viz. Lower Orr Dam, Kotha Barrage and Bina complex projects were included under Phase – II for which DPRs have been completed and are presently under appraisal in CWC. Most of the clearances for these three projects have also been accorded from various Ministries / Departments.

The techno-economic clearance to the Damanganga – Pinjal link project has also been accorded subject to statutory clearances. The DPR of Par – Tapi – Narmada link is under technical appraisal in Central Water Commission. The signing of MoA / MoU for implementation of Ken – Betwa, Damanganga – Pinjal and Par – Tapi – Narmada link projects are under discussion with the concerned party States.

Pending consensus on Manibhadra and Inchampalli dams, alternate study to divert / transfer unutilised waters of Godavari river has been carried out and a Draft DPR of Godavari (Inchampalli / Janampet) – Cauvery (Grand Anicut) link project has also been completed and circulated to party States in March 2019 for comments / views. The draft DPR is under finalisation based on comments/views of party States.

The draft DPR of Cauvery – Vaigai – Gundar link project has been completed and circulated to party States. The DPR of Bedti – Varada link project alongwith alternates suggested by Govt. of Karnataka is under preparation.

The feasibility report of Manas – Sankosh – Tista – Ganga (MSTG) link project has also been completed and circulated to party States. Feasibility report of alternate Mahanadi (Barmul) – Godavari (Dowlaiswaram) link project has been completed and circulated to concerned states.

Draft PFR of Parbati – Kuno – Sindh (PKS) link for integration of PKC link with ERCP of Rajasthan has been completed and circulated to MP, Rajasthan, CWC in June 2020.



Interlinking of Rivers

The modification of draft FRs of links viz., Farakka – Sunderbans, Ganga – Damodar – Subernarekha, Subernarekha – Mahanadi links based on FR of MSTG link and Sarda – Yamuna, Yamuna – Rajasthan and Rajasthan – Sabarmati link projects based on DPR of Pancheswar project are also in progress.

Interlinking of Rivers (ILR) programme has been taken up by Government of India on high Priority and pursuing in a consultative manner. The stage of implementation of a project would be reached after the DPRs of various link projects under the NPP is prepared, the requisite Statutory clearances are obtained and consensus among concerned states is reached. Thus, the implementation of the projects will take varying periods of time.

The implementation of interlinking of rivers as per National Perspective Plan would give benefits of 25 million ha of irrigation from surface waters, 10 million ha by increased use of ground waters, raising the ultimate irrigation potential from 140 million ha to 175 million ha and generation of 34 million KW of power, apart from the incidental benefits of flood control, drought mitigation, navigation, water supply, fisheries, salinity and pollution control etc.

Constitution of Special Committee for Interlinking of Rivers (2014)

As directed by the Hon'ble Supreme Court vide its judgement dated 27.02.2012 in the Writ Petition (Civil) No. 512 of 2002 on 'Networking of Rivers' alongwith Writ Petition No. 668 of 2002 a committee called "Special Committee on Interlinking of Rivers" vide Gazette Notification dated 23rd September, 2014 has been constituted. The committee will ensure the effective execution of the Interlinking of Rivers Project in a time bound manner. The committee shall take up Ken – Betwa link project for implementation at the first instance itself and the clarifications sought would be discussed by the committee. Seventeen meetings of the Special Committee for Interlinking of Rivers (ILR) have been held so far and last meeting was held on 26.02.2020 at New Delhi.

Constitution of Task Force for Interlinking of Rivers (2015)

The Union Cabinet while approving the constitution of Special Committee for ILR in its meeting held on 24th July, 2014 directed that a committee comprising of experts be constituted to look into the issues relating to inter linking of rivers. In compliance to the direction of Union Cabinet, MoWR, RD & GR vide O.M. dated 13th April, 2015 has constituted a Task Force for Interlinking of Rivers (TF – ILR) to assist the Special Committee for ILR and MoWR, RD & GR regarding the implementation of ILR Programme. Twelve meetings of the Task Force were held so far and the last meeting was held on 16.07.2020.

Intra-State links

Out of the 48 link proposals received from nine (9) States, the PFRs of 37 link projects were completed and sent to concern States. Remaining links are neither feasible nor withdrawn by States. The DPRs of four intra-state link projects viz., Burhi Gandak – Noon – Baya – Ganga link & Kosi – Mechi link of Bihar, Ponnaiyar – Palar Link Project of Tamil Nadu and Wainganga – Nalganga link project of Maharashtra were completed and sent to party States. The techno-economic, environmental and investment clearances for Kosi – Mechi link project has been accorded. The DPRs of Damanganga – Vaitarna – Godavari (Kadva Dev) link and Damanganga (Ekdare) – Godavari link of Maharashtra are under progress.

Benefits from Proposed Inter Basin Water Transfer Links

S. No	Name	Country / States concerned	Country / States benefited	Annual Irrigation (Lakh ha)	Domestic and Industrial supply (MCM)	Hydro-power (MW)	Present status
Peninsular Component							
1	(a) Mahanadi (Manibhadra) - Godavari (Dowlaiswaram) link (b) Alternate Mahanadi (Barmul)-Godavari (Dowlaiswaram) link	Odisha, MP, AP, Telangana, Maharashtra, Karnataka, Jharkhand & Chhattisgarh	Andhra Pradesh & Odisha	0.91+3.52 = 4.43 0.91+3.52=4.43	802 700	445 450	FR completed FR Completed and circulated
2	Godavari (Inchampalli) - Krishna (Pulichintala) link	Odisha, MP, AP, Telangana, Maharashtra, Karnataka & Chhattisgarh	Telangana and Andhra Pradesh	1.09+5.04=6.13	413	--	FR completed
3	Godavari (Inchampalli) - Krishna (Nagarjunasagar) link*	-do-	Telangana	2.87	237	975	FR & Draft DPR completed
4	Godavari (Polavaram) - Krishna (Vijayawada) link	-do-	Andhra Pradesh	5.82	162	--	FR completed
5	Krishna (Almatti) - Pennar link	Maharashtra, Karnataka, Telangana & AP	Andhra Pradesh & Karnataka	1.90+0.68= 2.58	56	--	FR completed
6	Krishna (Srisailem) - Pennar link	-do-	--	--	--	17	FR completed
7	Krishna (Nagarjunasagar) - Pennar (Somasila) link*	Maharashtra, AP & Karnataka	Andhra Pradesh	5.81	124	90	FR & Draft DPR completed
8	Pennar (Somasila) - Cauvery (Grand Anicut) link *	AP, Karnataka, Tamil Nadu, Kerala & Puducherry	AP, Tamil Nadu & Puducherry	0.49+4.36 + 0.06 = 4.91	1105	--	FR & Draft DPR completed
9	Cauvery (Kattalai) - Vaigai - Gundar link	Karnataka, Tamil Nadu, Kerala & Puducherry	Tamil Nadu	3.38	185	--	FR & DPR completed
10	Ken-Betwa link a) Ken-Betwa Link	Uttar Pradesh & Madhya Pradesh	Uttar Pradesh & Madhya Pradesh	2.51+6.53=9.04	228.9	103 (Hydro) & 27 (Solar)	FR & DPR completed.
11(i)	Parbati -Kalisindh- Chambal link	Madhya Pradesh, Rajasthan & Uttar Pradesh (UP requested to be consulted during consensus building)	Madhya Pradesh & Rajasthan	*Alt.I: 2.05+ 0.25 =2.30 (Alt.II: 1.77+ 0.43 = 2.20)	13.2	--	FR completed.
11(ii)	Parbati-Kuno-Sind link	Madhya Pradesh & Rajasthan	MP & Rajasthan	1.67	36	--	PFR completed.
12	Par-Tapi-Narmada link	Maharashtra & Gujarat	Gujarat & Maharashtra	2.32	76	22	FR & DPR completed.
13	Damanganga- Pinjal link (As per DPR)	-do-	Maharashtra (only water supply to Mumbai)	--	895 (including 316 MCM from Pinjal dam proposed by GoM)	--	FR & DPR completed.
14	Bedti- Varda link	Maharashtra, Andhra Pradesh & Karnataka	Karnataka	0.60	--	4	PFR completed and preparation of DPR in progress
15	Netravati- Hemavati link	Karnataka, Tamil Nadu & Kerala	Karnataka	0.34	--	--	PFR completed.
16	Pamba- Achankovil- Vaippar	Kerala & Tamil Nadu,	Kerala & Tamil Nadu	0.91	--	508	FR completed

Benefits from Proposed Inter Basin Water Transfer Links

S. No.	Name of the Link	Country/States concerned	Country / States benefited	Annual Irrigation (Lakh ha)	Domestic and Industrial supply (MCM)	Hydro-power (MW)	Present status
Himalayan Component							
1.	Manas-Sankosh-Tista-Ganga (M-S-T-G) link	Bhutan & India(Assam, West Bengal, Bihar)	Assam, West Bengal & Bihar	2.05 + 1.00 + 0.36 = 3.41	--	---	FR completed
2.	Kosi-Ghaghra link	Nepal & India(Bihar, Uttar Pradesh)	Nepal & India(Bihar & Uttar Pradesh)	8.17 + 0.67 + 1.74 (Nepal) = 10.58	48	--	FR(Indian portion) in progress.
3.	Gandak-Ganga link	-do-	Nepal & India(Uttar Pradesh)	37.99 + 2.41 (Nepal) = 40.40	700	--	Draft FR completed (Indian portion)
4.	Ghaghra-Yamuna link	-do-	Nepal & India(Uttar Pradesh)	25.30 + 1.35 (Nepal) = 26.65	1391	10884	FR completed. (Indian portion)
5.	Sarda-Yamuna link	Nepal & India(Bihar, UP, Haryana, Rajasthan, Uttarakhand)	Uttar Pradesh & Uttarakhand	3.45 + 0.30 = 3.75	6250	3600	FR completed. (Indian portion)
6.	Yamuna-Rajasthan link	UP, Gujarat, Haryana & Rajasthan	Haryana & Rajasthan	0.435 + 2.442 = 2.877	57	--	Draft FR completed.
7.	Rajasthan-Sabarmati link	-do-	Rajasthan & Gujarat	5.35 + 2.04 = 7.39	282	--	Draft FR completed
8.	Chunar-Sone Barrage link	Bihar & UP	Bihar & Uttar Pradesh	0.30 + 0.37 = 0.67	--	--	Draft FR completed
9.	Sone Dam – Southern Tributaries of Ganga link	Bihar & Jharkhand	Bihar & Jharkhand	2.99 + 0.08 = 3.07	360	95	FR taken up
10.	Ganga(Farakka)-Damodar-Subernarekha link	West Bengal, Odisha & Jharkhand	West Bengal, Odisha & Jharkhand	7.63 + 0.30 + 0.55 = 8.47	484	-	Draft FR completed
11.	Subernarekha-Mahanadi link	West Bengal & Odisha	West Bengal & Odisha	0.18 + 0.365 = 0.545	--	9	Draft FR completed
12.	Kosi-Mechi link	Nepal & India (Bihar, West Bengal)	Nepal & India (Bihar)	2.99 + 1.75 (Nepal) = 4.74	24	3180	PFR completed. Entirely lies in Nepal.
13.	Farakka-Sunderbans link	West Bengal	West Bengal	1.50	184	--	Draft FR completed.
14.	Jogighopa-Tista-Farakka link (Alternative to M-S-T-G)	Assam, West Bengal & Bihar	Assam, West Bengal & Bihar	----	216	1115	Alternate to M-S-T-G link dropped.

FR - Feasibility Report, PFR - Pre feasibility Report, DPR - Detailed Project Report, S&I - Survey and Investigation, MCM - Million Cubic Meters

(*) Part of the draft DPR of Godavari(Inchampalli/Janampet)-Cauvery(Grand Anicut) link project.



Central water Commission

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As on 01.01.2021

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HYD(C)	S. K. Sinha*	29583525	9868275360	hydcent@nic.in	7th Floor(S)	3525
HYD(N)	Govardhan Prasad	29583508	9899936765	hydnorth@nic.in	7th Floor(S)	3508
HYD(NE)	Rakesh Kumar	29583700	9810806755	hydne@nic.in	7th Floor(S)	3700
HYD(S)	N. N. Rai	29583507	9999085580	hydsouth@nic.in	7th Floor(S)	3507
INSTRUMENTATION	O. P. Gupta	29583736	9711377337	insttdte-cwc@gov.in	8th Floor(N)	3736
IP(N)	Rajesh Kumar-1*	29583207	8895772192	ipndte-cwc@nic.in	5th Floor(S)	3263
IP(S)	Bhupesh Kumar	29583236	9871073990	ipsdte-cwc@nic.in	5th Floor(S)	3236
IPO	Jyotika Pegu	29583430	9435552814	ipodte@nic.in	4th Floor(S)	3430
ISM-1	Vimal Kumar	29583426	9711216982	ismdte@nic.in	5th Floor(S)	3426
ISM-2	Rajesh Kumar-1	29583268	9871991811	ism-2dte-cwc@nic.in	5th Floor(S)	3268



Directorate	Name	Office	Mobile	E-Mail ID	Location	PABX
HYD.MECH.DES (SE&W)	S.K. Kamboj*	29583496	9868479456	nhmd-cwc@nic.in	8th Floor(S)	
MON(C)	R. D. Deshpande	26100125	8600060087	moncent@nic.in	7th Floor(S)	3411
MON(E&W)	Balram Kumar	29583515	7781099815	moneast@nic.in	7th Floor(S)	3515
MON(N)	R. Azhagesan*	29583514	9489727371	monnorth@nic.in	7th Floor(S)	3514
MON(S)	M. S. Verma	29583431	9350846515	monsouth@nic.in	7th Floor(S)	3431
MORPHOLOGY & CC	Ajay Kumar Sinha	29583297	9560444535	dirmoroho-cwc@nic.in	9th Floor(S)	3297
NATIONAL PROJECT	Bhupinder Singh	29583395	9810720231	np1dte@gmail.com	8th Floor(S)	3396
NATL WATER PLNG & PR	D. M. Raipure	29583383	9765510006	nwpdte-cwc@nic.in	5th Floor(S)	3383
P&P	R. Azhagesan	29583417	9489727371	ppdte@nic.in	6th Floor(S)	3417
PA(C)	Rajiv Kumar	29583427	9868109581	pacent@nic.in	7th Floor(S)	3427
PA(N)	Kiran Pramanik	29583424	9711051441	panorth@nic.in	7th Floor(S)	3424
PA(S)	N. Mukharjee	29583418	9836861030	pasdte-cwc@nic.in	7th Floor(S)	3418
PH & CD(SE&W)	Narendra Singh Shekhawat*	29583496	9899519573	ssphdte@gmail.com	4th Floor(S)	3496
R&D (DoWR, RD&GR)	Ravi Bhushan Kumar	29583482	9810159611	dandr@nic.in	WB-I	3482
RDC -1	Neeraj Kumar Manglik	29583485	9868207648	rdcdte-cwc@nic.in	WB-I	3590
RDC -2	Pankaj Kumar Sharma	29583485	9868069959	rdc2dte-cwc@gov.in	WB II	3483
REMOTE SENSING	Rishi Srivastava	29583429	9818656668	rsdte@nic.in	4th F(N)	3429
RESERVOIR OPERATION	M Sai Sudarsanam	29583383	9313140065	rodte@nic.in	5th F(S)	3383
RIVER BOARD	D. K. Jha	29583419	9431636308	cbdte@nic.in	6th F(S)	3419
RIVER CONSER. Dte.	Ajay Kumar Sinha*	29583296	9560444535	rcddte-cwc@nic.in	9th F(S)	3296
RM COORDN	Deepak Kumar	29583211	9818557540	rmmdte@nic.in	2th F(S)	3211
SOFTWARE MGMT	Rajeev Singhal	29583615	8600998070	smdte@nic.in	6th F(S)	3615
WATER MANAGEMENT	Smarth Lal Meena	29583204	9968145974	wmdte@nic.in	5th F(S)	3204
WATER RES. STAT.(Jt. Dir.)		29583294		wrisdte-cwc@nic.in	9th F(N)	3294
WB & ECONOMICS	Anant Kumar Gupta*	29583289	9418559857	ecodte@gmail.com	5th F(S)	3289
WP&P COORDN	Anant Kumar Gupta*	29583225	8076604611	wppcdte@nic.in	3rd F(S)	3225
WR SYSTEMS ENGG.	K. V. Prasad	29583381	9818306462	wsedte-cwc@gov.in	2nd floor(S)	3271
WS & RS, INC-SW, R&R	Alok Paul Kalsi	29583284	7838735136	wrsrdte@nic.in	8th-2G(N)	3284



Designation/Services	Name	Office	Mobile	E-Mail ID	Location	PABX
CE (HRM)	Dr. Samir Chatterjee	20861748	9958077764	cehrmgmt@nic.in	2nd F(S)	3301
PPS	Lalit M. Nayyar	26100695	8459177778		2nd F(S)	3322
SECRETARY	Praveen Kumar	26187232	9711393566	secy-cwc@nic.in	3rd F(S)	3345
PS	Rahul Chenna	26187232	9818691611		3rd F(S)	3325
PS	Uma Taneja	29583325			3rd F(S)	3325
DIRECTOR (PCP)	B. B. Saikia	29583217	9435137795	pcpdte@nic.in	2nd F(S)	3217
DIRECTOR (TRG.)	S. K. Sinha	29583505	9868275360	trngdte@nic.in	7th F(S)	3525
DIRECTOR(TC)	S. K. Rajan	29583218	9213209215	tcodte@nic.in	2nd F(S)	3218
DIRECTOR(WSE)	K. V. Prasad	29583271	9818306462	wsedte-cwc@gov.in	2nd F(S)	3217
DIRECTOR(ADMIN)	Rahul Ranbir Singh	29583449	9873172409	diradm@nic.in	3rd F(S)	3449
DIRECTOR (FINANCE)	Pradeep Kumar Shukla	29583460	7701862344	dirfin-cwc@gov.in	WB-II	3460
DIRECTOR(ESTT. I)	S. K. Nanda	29583331	9718184004	directt@nic.in	3rd F(S)	3331
DIRECTOR(ESTT. II)		29583269		directt2-cwc@nic.in	2nd F(S)	3269
DD(TRG)	Venkateswarlu. E	29583531	9985126280	trngdte@nic.in	NLB	3531
DD E-GOVERNANCE CELL	Saikat Biswas	29583246	7432945372		304(S)	3246
DD(TC & Parliament Cell)	Arun Banga	29583660	9599221454	pq-cwc@nic.in	2nd F(S)	3660
DD(TC)	Mahesh Prasad	29583282	9474671125	tcodte@nic.in	2nd F(S)	3282
DD(WPC)	V. Rajesh	29583321	9496437435	wpcl@nic.in	2nd F(S)	3321
DD(WSE)	Shiv Sunder Singh	29583270	9718670876	wsedte-cwc@gov.in	2nd F(S)	3270
DD(WSE)	A. K. Madhok	29583520	9140659909	tdoc@nic.in	2nd F(S)	3520
DD(OL)	Rajinder Paul	29583720	9871598548	rajinder.paul31@nic.in	8th F(S)	3720
S.O./CONSULTANT(E.I)	R. K. Sharma	29583310	9868020929	estt1@nic.in	3310	3310
S.O.(E.II)	Chiranjib Mridha	29583311	9873830341	estt2@nic.in	3311	3311
S.O.(E. III)	Seema Juneja	29583319	9968267212	estt3@nic.in	3319	3319
S.O./CONSULTANT(E.IV)	Satyabir Singh	29583332	9811630195	estt4@nic.in	3332	3332
S.O.(E.V)	Vandana Kalara	29583327		estt5@nic.in	3327	3327
S.O (E-VI)	Uma Devi Ranga	29583510	8447171330	estt6@nic.in	3510	3510
S.O (E-VII)	Krishna Toppo	29583287	9968095945	estt7@nic.in	3287	3287
S.O.(E.VIII)	Vatsala Sharma	29583740	9650976869	estt8@nic.in	3740	3740
S.O.(E IX)	Jyotsna Kapur	29583314	9953935981	estt9@nic.in	3314	3314
S.O (E-X)	Rita Angrish	29583316	9873428960	estt10@nic.in	3316	3316
S.O.(E. XI)	Asha Bhatt	29583328	9868453936	estt11@nic.in	3328	3328
S.O. (E-XII)	Kailash Chand Meena	29583320	9968226826	estt12@nic.in	3320	3320
S.O. (E-XIII)	S. C. Pant	29583341	9354075543	estt13@nic.in	3341	3341
S.O. (E-XIV)	Chander Prakash (SSO)	29583337	8595472451	madhurlata@nic.in	3337	3337



Designation	Name	Office	Mobile	E-Mail ID	Location	PABX
S.O (APAR)	Chander Kishor	29583645	9718761433	soapar-cwc@gov.in	3645	3645
S.O. (CM&V)	Kanwaljit Kaur	29583330	9953078916		3330	3330
S.O. (O&M)	T. P. Singh	29583338	9810522569		3338	3338
S.O.(RTI)	Usha Kalra	29583315	9773879182	eoofficecru-cwc@nic.in	3315	3315
S.O.(R&I)	Nirja Solanki	29583305	9211204154	soact1@nic.in	3305	3305
S.O.(A/C-I)	Satish S. Koli	29583730	8076664557	soact2@nic.in	3263	3263
S.O.(A/C-II)	Joginder Kumar	29583706	9582090604	soact3@nic.in	3706	3706
S.O.(A/C-III)	Asha Dudeja	29583710		soactw@nic.in	3710	3710
S.O.(A/C.WORKS)	Thawar Singh	29583265	9013364344	budget-cwc@gov.in	3265	3265
S.O.(BUDGET)	R. P. Singh	29583223	8448335744	soom-cwc@nic.in	3223	3223
US(E-I)	Sanjay Singh Chauhan	29583344	7773013900	sanjay-cwc@gov.in	3rd F(S)	3344
US(E-II), O&M	Sanjay Singh Chauhan	29583344	7773013900	sanjay-cwc@gov.in	3rd F(S)	3344
US(E-III)	Pinki Pandey	29583356	9911284452	kb.hamza@nic.in	3rd F(S)	3356
US(E-IV)	R. K. Balamurugan	29583302	8527926654		3rd F(S)	3302
US(E-V)	Ratnakar Yadav	29583304	9871138817	ratnakar.yadav77@nic.in	324(S)	3304
US(E-VI)	Ratnakar Yadav	29583304	9871138817	ratnakar.yadav77@nic.in	324(S)	3304
US(E-VII)	Rajesh Sharma	29583317	9013444289	rajeshsharma-cwc@nic.in	3rd F(S)	3317
US(E-VIII)	R. K. Balamurugan	29583302	8527926654		3rd F(S)	3302
US(E-IX)	Pinki Pandey	29583356	9911284452	kb.hamza@nic.in	3rd F(S)	3356
US(E-X)	R. K. Balamurugan	29583534	8527926654	rchacko-cwc@gov.in	3rd F(S)	3534
US(E-XI)	P. N. Mohan	29583534	9810305826	rchacko-cwc@gov.in	3rd F(S)	
US(E-XII)	R. K. Balamurugan	29583534	8527926654	rchacko-cwc@gov.in	3rd F(S)	3534
US(E-XIII)	Rajesh Sharma	29583317	9013444289	rajeshsharma-cwc@nic.in	3rd F(S)	3317
US(E-XIV)	Sachin Dev Verma	29583302	9717090566	sachindev.cwc@gov.in	3rd F(S)	3637
U.S. RTI NODAL OFFICER	Rajesh Sharma	29583344	9013444289		3rd F(S)	3344
ACCOUNTS OFFICER	D. D. Garg	29583735			8th F(S)	3735
BUDGET	S. M. Kohade	29583352	9868805067		3rd F(S)	3352
U.S. RTI NODAL OFFICER	Rajesh Sharma	29583344	9013444289		3rd F(S)	3344
ACCOUNTS OFFICER	D. D. Garg	29583735			8th F(S)	3735
BUDGET	S. M. Kohade	29583352	9868805067		3rd F(S)	3352
PAO UNIT						
Sr.AO		26711043			8thFL(N)	3744
Sr.AO	Rakesh Kala	26102185	9810565824		8thFL(N)	3946
P.A.O	Krishna Singhal	26711043	9810533860		8thFL(N)	3886



Designation/Services	Name	Office	Mobile	E-Mail ID	Location	PABX
SERVICES (PCP)						
DD-PCP (HQ)	Anjani Kumar Mishra	29583232	8368554075		R-214 2nd F(S)	3232
DD-PCP (M)	Anand Prakash Kandiyal	29583219	8588887757	ddpcp-cwc@nic.in	R-213 2nd F(S)	3219
SDO (HQ)	Sumant Gour	29583239	9827728029	sdohq@nic.in	R-215 2nd F(S)	3239
AD-II (Xerox, Telephone/Fax/RO & Water Cooler)	Dinesh Kumar	29583239	9310662466	sdohq@nic.in	R-215 2nd F(S)	3239
AD-II (Store and MAS)	Sumit Nigam	29583644	9873130890		R-215 2nd F(S)	3644
AD-II Library Building	S. S. Nath	29583280	7982074626		Library Building	3280
AD-II (Stationary)	Dinesh Kumar	29583220	9310662466	store@nic.in	R-215 2nd F(S)	3220
AD-II (Vehicle, WB-I & WB-II)	Deepak Kajal	29583241	9724269478		R-215 2nd F(S)	3241
AD-II (News Paper/ COP)	Sumit Nigam	29583701	9873130890		R-215 2nd F(S)	3701
PCP Help-Desk	-	26178202	-		2nd F(S)	7777
COMPUTER MAINTENANCE						
DD SMD	S. F. H. Abidi	29583603	9650957004	smdte@nic.in	6th F(S)	3603
DD SMD	Saket Kumar	29583737	9990382799	smdte@nic.in	6th F(S)	3737
AD II SMD	Rabindar Kumar	29583607	8130709778	egovernance-cwc@gov.in	6th F(S)	3607
AD II SMD	Anurag Paul	29583355	7239023333	smdte@nic.in	6th F(S)	3355
E-OFFICE HELP DESK		29583366/77		egovhelpdesk-cwc@nic.in	6th F(S)	3366/ 3377
COMPUTER MAINTENANCE				comp624@nic.in		4444
LIBRARY						
DD (LIB.)	Rakesh Gaurana	29583397	9891656271		NLB	3397
LIBRARY INF OFFICER		29583398		cwclib-cwc@nic.in	NLB	3398
LIBRARY-REFERENCE	Rajbir Singh	29583398	9818693773		NLB	
MAP RECORD SEC	P. S. Verma	29583481	8447147494		NLB	3481
OTHER SERVICES						
AD (BIO-METRIC SYS)	H. C. Mishra	29583230			3rd floor(S)	3230

* Additional Charge

Field Offices of Central Water Commission

Brahmaputra Basin Organisation (BBO), Guwahati

Designation	Name	Telephone			Fax	E-mail	Location
		Office	Residence	Mobile			
Chief Engineer	B. K. Karjee			9971099673			Guwahati
Superintending Engineer (HOC)	V.D. Roy	0361-2674268	-	9650804451	0361-2674297	se.hocghy-cwc@gov.in	Guwahati
Director, M&A	Sudhir Kumar	0361-2674264	-	9711999674	0361-2674264	dirmaguwahati-cwc@nic.in	Guwahati
Deputy Director, M&A	Ankit Dudeja	0361 - 2674235	-	9717349877	0361 -2674264	dirmaguwahati-cwc@nic.in	Guwahati
Ex. Engineer, UBD	B. P. Sonowal	0373-2314398	-	8826788504	0373-2313905	ubd-cwc-asm@nic.in	Dibrugarh
Ex. Engineer, MBD	Dipankar Das	0361-2674267, 0361-2972105	-	8724067472	0361- 2674267	ee.mbd.cwc-as@gov.in	Guwahati
Ex. Engineer, NEID-III	Akhil Akhouri	0360-2203510	-	8447522493	0360-2203510	eeneid3-cwc@gov.in	Itanagar



Barak & Other Basin Organisation (BOBO), Shillong

Designation	Name	Telephone			Fax	E-mail	Location
		Office	Residence	Mobile			
Chief Engineer	P. M. Scott	0364-2220568	2534919	9436165176 9555957355	0364-2220644	cebbo-cwc@nic.in	Shillong
Superintending Engineer (C)	Mohd. Faiz Syed	0364-2220489	-	8506006693	0364-2220644	secoshillong-cwc@nic.in	Shillong
Superintending Engineer (NEIC)	Abhishek Sinha	0361-2220706	2505981	9868170568	0361-2506001	seneic-cwc@gov.in	Shillong
Ex. Engineer, NEID-I	Ramavatar Verma	03842-223937, 03842-223939	-	9818330157	03842-223937	eeneid1.sil-cwc@gov.in	Silchar
Ex. Engineer, NEID-II	Shamsul Quamer	0389-2352266	2352331	7838615764	0389-2350822	neid2cwc@yahoo.com	Aizawl
Superintending Engineer (MC)	Abhishek Sinha*	03842-266760	-	9868170568	03842-266760	semcsilchar-cwc@nic.in semc_cwc2010@rediffmail.com	Silchar
Ex. Engineer, MD	Deepak Kumar Rakshit	03842-242358	-	9435740685	03842-240224	eemd-cwc@nic.in eemd_cwc2008@rediffmail.com	Silchar
Ex. Engineer, MID	Ashish Tripathi	0364-2521226	-	8808180968	0364-2521226	midcwc@gmail.com midcwc-meg@nic.in	Shillong

Cauvery & Southern Rivers Organisation (CSRO), Coimbatore

Designation	Name	Telephone			Fax	E-mail	Location
		Office	Residence	Mobile			
Chief Engineer	N. M. Krishanunni	0422- 2512242	2534919	9482592113	0422- 2512243	cecsro-cwc@nic.in	Coimbatore
Superintending Engineer (C)	Amit Ranjan	0422- 2513227	-	9911198865	0422- 2512243	secocoimbatore-cwc@nic.in	Coimbatore
Superintending Engineer	Mohan Murali V	080-29723060	-	8447131041	080-29723060	cecsrclanglore-cwc@nic.in	Bangaluru
Director (Mon.)	J. Harsha	044-22554250	-	9902018682	044-22554250	dirmoncoimbatore-cwc@nic.in	Chennai
Deputy Director (Mon.)	L. Panneer Selvam	044-22554250	-	8056231554	044-22554250	dirmoncoimbatore-cwc@nic.in	Chennai
Director (Beach Erosion)	N.V. Satish Seemakurti	0484-2320281	-	9911427505	0484-2320281	dirbecochin-cwc@nic.in	Kochi
Deputy Director (Beach Erosion)	Sheela Pillai	0484-2320281	-	9899160852	0484-2320281	dirbecochin-cwc@nic.in	Kochi
Ex. Engineer (Hydrology Division)	V. Vasantha Kumar	044-22554250	-	8373977185	044-22554250	ee.chn-cwc@gov.in	Chennai
Ex. Engineer (SRD)	S. Rajendran	0422-2512250	2511850	8800242327	0422-2512250	ee.srd-cwc@gov.in	Coimbatore
Ex. Engineer (SWRD)	M.S. Saravanan Kumar	0484-2314229	-	9942736685	0484-2314229	ee.kochi-cwc@gov.in	Kochi

Indus Basin Organization (IBO), Chandigarh

Designation	Name	Telephone			Fax	E-mail	Location
		Office	Res.	Mobile			
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Superintending Engineer(C)	Vineet Gupta	0172-2748334	-	9555571615	0172-2742465	secochandigarh-cwc@nic.in	Chandigarh
Director, M&A	S.K. Sharma	0172-2637569	-	9210891320	0172-2642327	dirachandigarh-cwc@nic.in	Chandigarh
Director M&A	Piyush Ranjan	0177-2624036	-	7042083260	0177-2624224	dirmashimla-cwc@nic.in	Shimla
Director M&A	Ravi Ranjan	0191-2597667	-	9810884756	0191-2597669	dirmajammu-cwc@nic.in	Jammu
Deputy Director (M&A)	Rakesh Gupta	0191-2597667	-	9419208718	0191-2597669	dirmajammu-cwc@nic.in	Jammu
Deputy Director (Mon.)	Tanveer Ishque Chisty	0194-2492498	-	9419061533	0194-2494030	ddsrinagar-cwc@nic.in	Srinagar
Deputy Director M&A	Prakash Chand	0172-2637569	-	70181175283	0172-2642327	dirachandigarh-cwc@nic.in	Chandigarh
Deputy Director M&A	-	0177-2624224	-	-	0177-2624224	dirmashimla-cwc@nic.in	Shimla
Ex. Engineer (Chenab Division)	Rishi Kumar	0191-2597688	-	9596920469	0191-2597668	exenjammu@gmail.com	Jammu
Ex. Engineer (SHD)	Somesh Kumar	0177-2623026	-	7678325134	0177-2625253	eeshdcwc@yahoo.com	Shimla



Krishna Godavari Basin Organization (KGBO), Hyderabad

Designation	Name	Telephone			Fax	E-mail	Location
		Office	Res.	Mobile			
Chief Engineer	M. K. Srinivas	040-29808740	-	9908196363	040-29808742	cekgbo-cwc@nic.in	Hyderabad
Director, M&A (TS)	M. Raghuram (A/C)	040-29708639	-	8373987620	040-29708644	dirmacwchyd@gmail.com	Hyderabad
Director, M&A (AP)	P. Devender Rao	040-29564309		9000473396		dir.hyd-cwc@gov.in	Hyderabad
Superintending Engineer (Krishna & Coord. Circle)	Srinivasu Bairy	040-29708645		9959428376	040-29708645	sekcohyderabad-cwc@nic.in	Hyderabad
Superintending Engineer (Godavari Circle)	M. Raghuram	040-29700116	-	8373987620	040-29700177	segchderabad-cwc@nic.in	Hyderabad
Dy. Director, M&A (TS)	K. Rekha Rani	040-29708644		8801900490	040-29708644	dirmacwchyd@gmail.com	Hyderabad
Dy. Director, M&A (AP)	D. Ganesh Kumar	040-29564309	-	8511089135		dir.hyd-cwc@gov.in	Hyderabad
Deputy Director, M&A (AP-PPA)	K. Shanker	040-29700903	-	9182560705		dir.hyd-cwc@gov.in	Hyderabad
Deputy Director (O/o. CE)	M. Ganga Bhavani	040-29808741	-	9246369523	040-29808742	cekgbo-cwc@nic.in	Hyderabad
Ex. Engineer, Upper Krishna Division	Abhishek Gaurav	020-24380073	-	9717657375	020-24381086	eeukd.pune-cwc@gov.in	Pune
Ex. Engineer, Lower Krishna Division	M.N.R. Mehervani	040-29809650	-	9866239563	040-29809647	eelkdhyd.cwc@gov.in	Hyderabad
Ex. Engineer, Upper Godavari Division	N. Srinivasarao	040-29704541	-	9618694218	040-29704542	eeugdhyd.cwc@gov.in	Hyderabad
Ex. Engineer, Lower Godavari Division	K.V.K. Kuchel	040-29808749		8099443653	040-29808752	eelgdhyd.cwc@gov.in	Hyderabad

Lower Ganga Basin Organization (LGB0), Patna

Designation	Name	Telephone			Fax	E-mail	Location
		Office	Res.	Mobile			
Chief Engineer	Ambarish Nayak	0612-2541087	-	9437105268	0612-2541865	celgbo-cwc@nic.in	Patna
Superintending Engineer (C)	Shashi Rakesh	0612-2541065	-	9711999234	0612-2541865	celgbo-cwc@nic.in	Patna
Superintending Engineer	Mukesh Kumar Singh	0542-2282309	-	9471193011	0542-2282309	sehocvaranasi-cwc@nic.in	Varanasi
Director, Monitoring	Sanjeev Kumar Suman	0612-2279256	-	7872933737	0612-2279256	dirmonpatna-cwc@nic.in	Patna
Director, M&A	Akhilesh Kumar Jha	0651-2252381	-	9431106479	0651-2252381	dirmaranchi-cwc@nic.in	Ranchi
Deputy Director, Monitoring	Anil Kumar Arya	0612-2279256	-	9431492487	0612-2279256	dirmonpatna-cwc@nic.in	Patna
Deputy Director, M&A	Manoj Kumar	0651-2252381	-	947037537	0651-2252381	dirmaranchi-cwc@nic.in	Ranchi
Executive Engineer, LGD-1	Mahesh Kumar Raman	0612-2671541	-	8210846371	0612-2671541	eelgd1-cwc@nic.in	Patna
Executive Engineer, LGD-2	Narendra Nath Sankar	0612-2558249	-	9431069299	0612-2558249	eelgd2-cwc@nic.in	Patna
Executive Engineer, MGD-3	Shashwat Rai	0542-2282339	-	8826838308	0542-2282339	eemgd3-cwc@nic.in	Varanasi

Mahanadi & Eastern Rivers Organization (MERO), Bhubaneswar

Designation	Name	Telephone			Fax	E-mail	Location
		Office	Res.	Mobile			
Chief Engineer	Atul Kumar Nayak	674-2545536 2545573	-	9437483984	2545537	cemero-cwc@nic.in	Bhubaneswar
Superintending Engineer (C)	Amrish Pal Singh	674-2545536, 2545573	-	9990008961	2545537	secobhubaneshwar-cwc@nic.in	Bhubaneswar
Superintending Engineer (HOC)	S.K.Samal	674-2545708	2370468	9937166235	2545708	Sehocbbshwar-cwc@nic.in	Bhubaneswar
Director, M&A	A.K.Singh	674-2544132	2370468	9934798698	2544132	dirmabbshwar-cwc@nic.in	Bhubaneswar
Deputy Director, M&A	A.Rajsekhar	674-2544132	-	9703043901	2544132	dirmabbshwar-cwc@nic.in	Bhubaneswar
Ex. Engineer, E. R. Division	D.R.Mohanty	674-2540086	2742675	8851548274	2540316	eeerdwc.od@gov.in	Bhubaneswar
Ex. Engineer, Mahanadi Division	Upananda Rath	663-2430238	2431710	9015378359	2431809	eemdburla-cwc@gov.in	Burla

Mahi and Tapi Basin Organization (MTBO), Gandhinagar

Designation	Name	Telephone			Fax	E-mail	Location
		Office	Res.	Mobile			
Chief Engineer	M. P. Singh	079-23245427	-	9868211191	079-23246115	centbo-cwc@nic.in	Gandhinagar
Superintending Engineer (C)	Yoki Vijay	079-23245426	-	9990093428	079-23246115	secogandhinagar-cwc@nic.in	Gandhinagar
Superintending Engineer (HOC)	YS Varshney	079-23245194	-	9825075127	079-23245194	sehocgandhinagar-cwc@nic.in	Gandhinagar
Director (Mon.)	Yoki Vijay (A/C)	079-23244882	-	9990093428	079-23244882	dirmongnagar-cwc@nic.in	Gandhinagar
Ex. Engineer, Mahi Division	Shreyas Gune	079-23239509	-	9958337125	079-23239509	eemdgnr-cwc@gov.in	Gandhinagar
Ex. Engineer, Tapi Division	Aashish Kumar	0261-2478569	-	9711660940	0261-2478569	ee.tapi-cwc@gov.in	Surat



Monitoring Central Organization (MCO), Nagpur

Designation	Name	Telephone			Fax	E-mail	Location
		Office	Res.	Mobile			
Chief Engineer	Dhirendra Kumar Tiwary	0712-2510464 0712-2510475		8826173692	0712-2510475	cemonc-cwc@nic.in	Nagpur
Superintending Engineer(c)	M. S. Sahare*	0712-2512144		9868144595	0712-2510475	seconagpur-cwc@nic.in	Nagpur
Director (Mon.)	Sureshwar Singh Bonal	0712-2510912		9718805243	0712-2510912	dirmonnagpur-cwc@nic.in	Nagpur
Director (App.)	M. S. Sahare	0712-2511510		9868144595	0712-2511510	diranagpur-cwc@nic.in	Nagpur
Executive Engineer, Wainganga Division	Aditya S. S. Moola	0712-2510156		8826281265	0712-2510156	eedw.ngp-cwc@gov.in	Nagpur
		0712-2519939					
Deputy Director (App)	Kailash K. Lakhe	0712-2511510		9405140152	0712-2511510	diranagpur-cwc@nic.in	Nagpur
Deputy Director (Mon)	Karan Raghuvanshi	0712-2510912		9718081172	0712-2510912	dirmonnagpur-cwc@nic.in	Nagpur

Monitoring South Organisation (MSO), Bengaluru

Designation	Name	Telephone			Fax	E-mail	Location
		Office	Res.	Mobile			
Chief Engineer	Sushil Kumar	080-29724080	-	9422646384	080-29724047	cemons-cwc@nic.in	Bengaluru
Superintending Engineer (HO&CC)	Guru Prasad.J	080-29724081	-	9871260794	080-29724047	secobangalore-cwc@nic.in	Bengaluru
Director (App.)	O. R. K Reddy	080-29724082	-	9916563451	080-29724047	dirabangalore-cwc@nic.in	Bengaluru
Director (Mon.)	Jitendra Panwar	080-29724083	-	9868280104	080-29724047	dirmonbangalore-cwc@nic.in	Bengaluru
Deputy Director (Mon)	L.Kodandara maswamy	080-29724083	-	8800654899	080-29724047	lkodanswamy-cwc@nic.in	Bengaluru
Deputy Director (App.)	M. L. Prakash	080-29724082	-	9899792982	080-29724047	mlprakash-cwc@nic.in	Bengaluru
Ex. Enginner, Cauvery Division	Shrihari Shekhar	080-29724010	-	9449339615	080-29724010	eeed.bng-cwc@gov.in	Bengaluru

Narmada Basin Organization (NBO), Bhopal

Designation	Name	Telephone			Fax	E-mail	Location
		Office	Res.	Mobile			
Chief Engineer	Aditya Sharma	0755-2574513	-	9717200563	0755-2550253	cenbo-cwc@nic.in	Bhopal
Superintending Engineer (C.)	Manoj Tiwari	0755-2558264	-	9425608846	0755-2550253	secobhopal-cwc@nic.in	Bhopal
Director (Mon. & Punasa Design)	Anuj Kanwal	0755-2762059	-	9711564290	0755-2550253	dirmonbhopal-cwc@nic.in	Bhopal
Director (Mon. & App.), Bhopal	M. W. Paunikar	0755-2551834	-	9990137437	0755-2550253	dirmabhhopal-cwc@nic.in	Bhopal
Director (Mon. & App.), Raipur	M. W. Paunikar*	0771-2433901	-	9990137437	0771-2433901	dirpdbhopal-cwc@nic.in	Raipur
Deputy Director (Mon. & Punasa Design)	Neelam Narolia	0755-2762059	-	9990808371	0755-2550253	dirmonbhopal-cwc@nic.in	Bhopal
Deputy Director (Mon. & Punasa Design)	Mahesh Gupta	0755-2762059	-	9460523193	0755-2550253	dirmonbhopal-cwc@nic.in	Bhopal
Deputy Director (Mon. & App.), Bhopal	Neeraj Kumar Sharma	0755-2551834	-	8527468184	0755-2550253	dirmabhhopal-cwc@nic.in	Bhopal
Deputy Director (Mon. & App.), Raipur	Devi Shankar Goyal	0771-2433901	-	9718401007	0771-2433901	dirpdbhopal-cwc@nic.in	Raipur
Ex. Engineer, Narmada Division	Sanjay Kumar Malviya	0755-2573630	-	9425079252	0755-2564909	eendb-cwc@nic.in	Bhopal

National Water Academy (NWA), Pune

Designation	Name	Telephone			Fax	E-mail	Location
		Office	Res.	Mobile			
Chief Engineer	Ashok Kumar Kharya	020-24380678		9818247513	020-24380110	nwa.mah@nic.in cenwa.mah@nic.in	Pune
Director	S. N. Pande	020-24381212	-	9873163630	020-24380110	nwa.mah@nic.in	Pune
Director	R.Thangamani	020-24380296		9449070298	020-24380110	nwa.mah@nic.in	Pune
Director	Pradeep Kumar	020-24380476	020-24380085	9992079049	020-24380110	nwa.mah@nic.in	Pune
Director (A&C)	Milind Panpatil	020-24380528	-	9763031746	020-24380110	nwa.mah@nic.in	Pune
Deputy Director	S P Singh	020-24380376	-	9718936741	020-24380224	nwa.mah@nic.in	Pune
Deputy Director	K S Chaitanya	020-24380528		9910771794	020-24380224	nwa.mah@nic.in	Pune
Deputy Director (A&C)	G. Srinivasulu	020-24380224	-	9911340729	020-24380110	nwa.mah@nic.in	Pune

Teesta & Bhagirathi Damodar Basin Organization (TBO), Kolkata

Designation	Name	Telephone			Fax	E-mail	Location
		Office	Res.	Mobile			
Chief Engineer	Subhrangsu Biswas	033-46044640	-	9818811841	033-40047023 23589181	cetbo-cwc@nic.in	Kolkata
Superintending Engineer (C)	Ashis Banerjee	033-46044640	46047198	9818309439	033-40047023 23589181	setbo-cwc@nic.in	Kolkata
Superintending Engineer (IC)	Shiva Prakash	03592-270613	-	8005498787	03592-231128	seicgangtok-cwc@nic.in	Gangtok
Superintending Engineer (HOC)	Amitabh Prabhakar	06540-274214		9973049058	06540-276525	sehocmithon-cwc@nic.in	Maithon
		274253			276524		
Director, M&A	Sidhartha Mitra	033-23349528		7507088332	033-40047023	dirmonkolkata@nic.in	Kolkata
					23589181		
Deputy Director, T&BDBO	Arkaprabha Majumder			8860761852		setbo-cwc@nic.in	Kolkata
Deputy Director, M&A	Kumar Kushal	033-23589181		9102303213	033-23589181	dirmonkolkata@nic.in	Kolkata
					40047023		
Executive Engineer, SID	Shashank Bhushan	03592-271059		8130600355	03592-231887	eesid-cwc@gov.in	Gangtok
Executive Engineer, LBD	Sudipta Sarkar	03561-230677		9474844647	03561-220770	eelbd-cwc@gov.in	Jalpaiguri
Executive Engineer, BID	Shashank Bhushan*	009755-252232		8130600355	009755-252485	eebid-cwc@gov.in	Bhutan
Executive Engineer, LGD-3	Rajesh Kumar	03482-251210		8210321358	03482-251210	eelgd3-cwc@nic.in	Berhampore
Executive Engineer, Damodar Division	Sudipto Mandal	0341-2254265		9810783036	0341-2253442	eedd-cwc@nic.in	Asansol
		0341-2253442					

Upper Ganga Basin Organisation (UGBO), Lucknow

Designation	Name	Telephone			Fax	E-mail	Location
		Office	Res.	Mobile			
Chief Engineer	Anupam Prasad	0522-2715832	-	9958077764	0522-4954679	ceugbo-cwc@nic.in	Lucknow
Superintending Engineer (C)	Ashish Kumar Pal	0522-2715734, 2719360	-	7586810789, 7001456150	-do-	secolucknow-cwc@nic.in	Lucknow
Superintending Engineer (HOC)	Rajesh Kumar	0135-2761562	-	9650550015	0135-2760631	sehocdehradun-cwc@nic.in	Dehradun
Director, M&A Dte	B C Vishwakarma	0522-2715471	-	9717832440	0522-2715847	dirmalucknow-cwc@nic.in	Lucknow
Director, M&A Dte	G L Bansal	0562-2521361	-	9911122769	0562-2527196	dirmaagra-cwc@nic.in	Agra
Deputy Director, M&A Dte	Deepti Verma	0522-2715847	-	9415310197	0522-2715847	deeptiverma-cwc@nic.in	Lucknow
Deputy Director, M&A Dte	Mayank Suhirid	0562-2521361	-	8470087386	0562-2527196	mayanksuhrid-cwc@nic.in	Agra
Ex. Engineer, MGD-I	R. K. Gautam	0522-2322181	-	8004930461	0522-2325028	eemgd1-cwc@nic.in	Lucknow
Ex. Engineer, MGD-II	Vivek Kumar Verma	0522-2332524	-	9140706811	0522-2325526	eemgd2-cwc@nic.in	Lucknow
Ex. Engineer, HGD	A. K. Singhal	0135-2745882	-	9555986777	0135-2742418	eehgd-cwc@nic.in	Dehradun



Yamuna Basin Organisation (YBO), New Delhi

Designation	Name	Telephone			Fax	E-mail	Location
		Office	Res.	Mobile			
Chief Engineer	Girish Kumar Agarwal	011-26526865		9868957498	011-26526857	ceybo-cwc@nic.in	New Delhi
Superintending Engineer (C)	Sunil Kumar	011-26868142	-	9810201965	011-26526857	secodelhi-cwc@nic.in	New Delhi
Superintending Engineer (HOC)	H S Sengar	0120-2581224		9899489256	0120-2584330	sehocnoida-cwc@nic.in	Vaishali
Superintending Engineer (PC)	Ram Jeet Verma	0129-2415092	-	7827227275	0129-2412956	seplanning-cwc@nic.in	Faridabad
Director, M&A	Shiv Dutt Sharma	0141-2230154		9911117728	0141-2230104	Dirmajaipur-cwc@nic.in	Jaipur
Director (N&B Cell)	Asit Chaturvedi	011-26964135	26250810	9868868979	011-26964135	nbccwc@yahoo.co.in	New Delhi
Deputy Director (N&BC)	Inderpal Singh	011-26964135	-	8600984882	011-26964135	nbccwc@yahoo.co.in	New Delhi
Deputy Director, M&A	Vivek Kumar Singh	0141-2230154	-	9621515438	0141-2230104	Dirmajaipur-cwc@nic.in	Jaipur
Ex. Engineer, LYD	Manoj Kumar	0562-2604424	-	706519188	0562-2602268	lyd_agra@rediffmail.com	Agra
Ex. Engineer, CD	Hitesh Kumar Gupta	0141-2790065	-	9560299182	0141-2791826	chambalcwc@yahoo.co.in	Jaipur
Ex. Engineer, UYD	Hari Prakash Chaurasia	011-26868120	-	9911106396	011-26565579	Uydybo.cwc@gmail.com	New Delhi
Ex. Engineer, P&I Division	Abhijeet Kashliwal	0129-2412576	-	8130901283	0129-2412576	pi-cwc@nic.in	Faridabad



Ministry of Jal Shakti, Dept. of WR, RD&GR

(As on 30.11.2020)

Name/Designation	Telephone		E-mail
	Office/ FAX	Residence/ Mobile	
Shri Gajendra Singh Shekhawat Minister for Jal Shakti	011-23714200, 011-23714663, 011-23711780, 011-23710804 (F)	23017121/25	minister-mowr@nic.in
Sh Rajnish D. Burman PS to Minister	-- do --	9643403202	psmwr-mowr@nic.in
Shri Rattan Lal Kataria Minister of State for Jal Shakti	011-23718759, 011-23708419, 011-23354496(F)	23018776	mos-mowr@nic.in
Shri. Rajesh Sapra Addl. PS to MoS(WR)(Parlia.)	011-23708419	9896258877	psmos-mowr@nic.in
Shri. B.N.Navalavala Chief Advisor	011-23708418	9978406086	
Shri.Sriram Vadire Advisor	011-23708418	9441002730	
Ms.Rinku Sr.P.A	011-23708418	9899184624	
Shri U. P. Singh Secretary	011-23715919, 011-23710305, 011-23731553 (F)	9818800888	secy-mowr@nic.in
Ms. Debashree Mukherjee Additional Secretary	011-23714609	011-23073349	aswrs-mowr@nic.in
Shri Rajiv Ranjan Mishra Director General (NMCG)	011-23072900 011-24364560 (F)		dg@nmcg.nic.in
Sh. Sanjay Awasthi Joint Secretary (RD&PP)	011-23725477 011-23710619 (F)		jsrd-dowr@nic.in
Sh. Subodh Yadav Joint Secretary (Admin)	011-23710343, 011-23725477 (F)		jsadmin-mowr@gov.in
Sh. Subodh Yadav Joint Secretary (IC & GW)	011-23710343 (T/F)		js-mowr@nic.in
Shri Jagmohan Gupta Joint Secretary & Financial Advisor	011-23710297 (T/F)	011-27467043	fawr-mowr@nic.in
Shri K. Vohra Commissioner (SPR)	011-23710107, 011-23350051 (F)	011-26267055	commpr-mowr@nic.in
Sh. Atul Jain Commissioner (FM)	011-24362780 (T/F) 011-24368238	9968652152	commer-mowr@nic.in
Shri. T. S. Mehra Commissioner (B&B)	011-24694724 (T/F)	011-26261624	commgwhp-mowr@nic.in
Shri P.K. Saxena Commissioner (Indus)	011-24361540 (T/F)	9945364552	commindus-mowr@nic.in
Dr. B.R.K. Pillai Commissioner (CAD)	011-23382256 (T/F)	9899272620	commcadwm-mowr@nic.in

Ministry of Jal Shakti, Dept. of WR, RD&GR

(As on 30.11.2020)

Name/Designation	Telephone		E-mail
	Office/ FAX	Residence/ Mobile	
Shri A. Nandakumar DDG (MI Stat.)	011-24699496	011-23073349	a.nandakumar@gov.in
Shri R. Sathish Economic Advisor	011-23388941 (T/F)		adviserce-mowr@nic.in
Shri G. Asok Kumar MD(NWM)	011-24365200		oomd.nwm@gov.in
Shri Girraj Goyal Director (IEC/e-Gov/Coord./ID)	011-23766369	9971074337	dircoord-mowr@nic.in
Sh. Anup Kumar Srivastava Sr. Joint Commissioner SPR-1	011- 23385186	9971594822	aksriv-cwc@nic.in
Sh. Ashwani Kumar Shukla Sr. Joint Commissioner SPR-2	011- 23710131	7065544467	sjcpr-mowr@nic.in
Sh. Rahul Kumar Singh Sr. Joint Commissioner (MI)	011-23387834	23383490	sjc-mowr@nic.in
Sh. Rakesh Toteja Sr. Joint Commissioner (FM)	011-24360611	9811355107	sjcer1-mowr@nic.in
Sh. R. R. Sambharia Sr. Joint Commissioner (FM)	011-24362160		sjcer2-mowr@nic.in
Sh. D. K. Jena Sr. Joint Commissioner (FM)	011-24392095		sjcfm4-mowr@nic.in
Sh. Ajay Kumar Gupta Sr. Joint Commissioner (B&B)	011-24367590	9560032215	sjc3bb-mowr@gov.in
Sh. Vaseem Ashraf Sr. Joint Commissioner (B&B)	011-24367083		
Sh. Naveen Kumar Sr. Joint Commissioner (Indus)	011-24361467	9971434229	sjcindus2-mowr@nic.in
Sh. Manoj Kumar Sr. Joint Commissioner (Indus)	011-24362539	9968003372	
Sh. P K Mittal Sr. Joint Commissioner (CADWM)	011-23383090	9310353920	cadwmwm-mowr@nic.in
Sh. S.K. Jha Sr. Joint Commissioner (Pen.R)	011-23388020	9971506825	cadwmcentral-mowr@nic.in
Sh. R.K. Kanodia Sr. Joint Commissioner (Pen.R)	011-23383518	9968256318	cadwmsouth-mowr@gov.in
Sh. Rakesh Kashyap Sr. Joint Commissioner (NHP-I)	011-24369543	8826612840	sjc1nhp-mowr@nic.in
Sh. Kushagara Sharma Sr. Joint Commissioner (NHP-II)	011-24369543	9350566186	sjc2nhp-mowr@nic.in
Sh. B. Sundar Sr. Joint Commissioner (NHP-III)	011-24367081	9176785967	sjc3nhp-mowr@nic.in
Sh. Vivek Pal Sr. Joint Commissioner (PP)	011-23719503		pp-mowr@nic.in
Sh. T.D. Sharma Sr. Joint Commissioner (BM)	011-24367109	8889900719	sjcbm-mowr@nic.in



Offices under Department of WR, RD&GR

(As on 30.11.2020)

Designation	Name	Office	Residence	Fax
Bansagar Control Board, Rewa, MP – 486001 (STD Code 07662)				
SECRETARY	Mr. M.W. Paunikar	242433		242433
Betwa River Board, Nandanpura, Jhansi (U.P) (STD Code 0510)				
SECRETARY	A.K. Gupta	2480183		2480183
Brahmaputra Board, Basistha, Guwahati (STD Code 0361)				
CHAIRMAN	Rajiv Yadav	2301309	9811376733	2301099
Central Ground Water Board, NH Iv, Faridabad 121 001 (STD Code 0129)				
CHAIRMAN	G. C. Pati	2477101	2477200	2477200
Central Soil Materials Research Station, Hauz Khas, New Delhi (STD Code 011)				
DIRECTOR	S. L. Gupta	26961894	26311705	26967985
Central Water & Power Research Station, Khadaskwasla, Pune (STD Code 020)				
DIRECTOR	A.K. Agrawal	24380552	24380202	24103500
Farakka Barrage Project District Murshidabad (WB) (STD Code 03485)				
GENERAL MANAGER	Arun Kumar	253644		253608
Ganga Flood Control Commission, Patna (STD Code 0612)				
CHAIRMAN	M.S.Dhillon	2217294		2217960
Narmada Control Authority, Indore (STD 0731)				
EXECUTIVE MEMBER	Dr. Mukesh Kumar Sinha	2557276	8826007291	2559888
National Institute Of Hydrology, Roorkee (STD Code 01332)				
DIRECTOR	J. V. Tyagi	272106	275923	273976
National Project Construction Corporation Ltd.				
CMD	Ms. Debashree Mukherjee	011-26484842		2230891
National Water Development Agency, New Delhi (STD Code 011)				
DG	Bhopal Singh	26715351	26165345	26513846
Tungabhadra Board, Hyderabad (STD Code 08394)				
CHAIRMAN & M.S.(PPA),CWC	D. Ranga Reddy	259110	9900823440	
Upper Yamuna River Board, New Delhi (STD Code 011)				
MEMBER-SECY	D. P. Mathuria	26174147		26184025
Water & Power Consultancy Services (I) Ltd., New Delhi (STD Code 011)				
CMD	Ms. Debashree Mukherjee	23313881	27865540	23314924
Godavari River Management Board, Hyderabad (STD Code 040)				
CHAIRMAN	J. Chandrashekhar Iyer	23313163		23313162
Krishna River Management Board, Hyderabad (STD Code 040)				
CHAIRMAN	A.Parmesham	23301858		
Pollavaram Project Authority, Hyderabad				
CHIEF EXECUTIVE OFFICER	J. Chandrashekhar Iyer*			
National Water Informatics Centre, New Delhi (STD Code 011)				
JOINT SECRETARY	Sanjay Awasthi	29583273		
Cauvery Water Management Authority, New Delhi (STD Code 011)				
CHAIRMAN	R.K. Jain			
MEMBER (WR)	Naveen Kumar	29583247	9873399333	26173281
SECRETARY	Neeraj Kumar	29583444	9968689718	26173280

Other Organisations Related to Water Resources Sector

(As on 30.11.2020)

Designation	Name	Office	Residence	Fax
Bhakra Beas Management Board, Sector 19b, Chandigarh (STD Code 0172)				
CHAIRMAN	Devendra Kumar Sharma	501175		2549857
Narmada Valley Development Authority, Bhopal (STD Code 0755)				
CHAIRMAN	Sudhir Ranjan Mohanty	2677501		
National Hydroelectric Power Corporation Ltd., Faridabad (STD Code 0129)				
CMD	Balraj Joshi	2275920		2278020
National Thermal Power Corporation Ltd., New Delhi (STD Code 011)				
CMD	Gurdeep Singh	24360100		24361018
Tehri Hydro Development Corporation India Ltd., Rishikesh (Uttaranchal) (STD Code 0135)				
CMD	D V Singh	2431517		
Satluj jal Vidyut Nigam Ltd., Shimla (STD Code 0177)				
CMD	N. L. Sharma	2670064		2670893
Narmada Hydroelectric Development Corporation Ltd., Bhopal (STD Code 0755)				
CMD	Balraj Joshi	4030001		

Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi-110066

Designation	Name	Office	E-Mail ID	Location
CHAIRMAN	Prakash S. Mhaske	2673222 26732201	chair@nic.in	Room No 201(N)
MEMBER (PLANNING)	Sandesh Kumar Sharma	26732202	memberplanning@gov.in	Room No 200(N)
MEMBER (THERMAL)	Prakash S. Mhaske(Addl.Charge)	26732901	member_thermal@nic.in	Room No 901(S)
MEMBER (HYDRO)	Dinesh Chandra	26732701	member.he@cea.nic.in	Room No 701(N)
MEMBER (GO&D)	Dinesh Chandra(Addl.Charge)	26732601	member.god@cea.nic.in	Room No 601(N)
MEMBER (POWER SYSTEM)	P.S. Mhaske(I/c)	26732301	memberspscea@nic.in	Room No 301(N)
MEMBER (E&C)	Gorityala Veera Mahendar	26732401		Room No 401(N)
SECRETARY	P.C.Kureel	26732203	prabhat.kureel@gov.in	Room No 206(N)

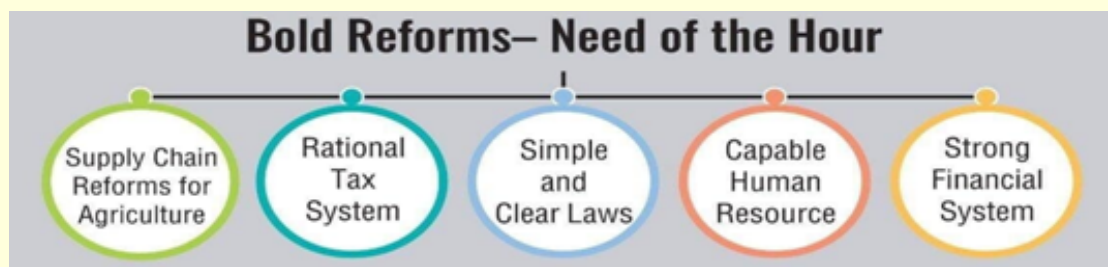
Atmanirbhar Bharat

Talking about the pre and post COVID worlds, Prime Minister observed that in order to fulfill the dream of making the 21st century India's, the way forward is through ensuring that the country becomes self-reliant.

He said that a self-reliant India will stand on five pillars viz. Economy, which brings in quantum jump and not incremental change; Infrastructure, which should become the identity of India; System, based on 21st century technology driven arrangements; Vibrant Demography, which is our source of energy for a self-reliant India; and Demand, whereby the strength of our demand and supply chain should be utilized to full capacity. He underlined the importance of strengthening all stakeholders in the supply chain to increase, as well as fulfill, the demand.



Prime Minister announced a special economic package and gave a clarion call for Atmanirbhar Bharat. He noted that this package, taken together with earlier announcements by the government during COVID crisis and decisions taken by RBI, is to the tune of Rs 20 lakh crore, which is equivalent to almost 10% of India's GDP. He said that the package will provide a much needed boost towards achieving 'Atmanirbhar Bharat'.



Prime Minister observed that the package will also focus on land, labour, liquidity and laws. It will cater to various sections including cottage industry, MSMEs, labourers, middle class, industries, among others.

Prime Minister remarked that self-reliance will prepare the country for tough competition in the global supply chain, and it is important that the country wins this competition. The same has been kept in mind while preparing the package. It will not only increase efficiency in various sectors but also ensure quality.