जल एवं सम्बन्धित सांख्यिकी

WATER AND RELATED STATISTICS

भारत सरकार
सूचना प्रणाली संगठन
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GOVERNMENT OF INDIA
INFORMATION SYSTEM ORGANISATION
CENTRAL WATER COMMISSION
DEPARTMENT OF WATER RESOURCES, RD & GR
MINISTRY OF JAL SHAKTI

अक्तूबर, २०१९

OCTOBER, 2019

WATER AND RELATED STATISTICS

WATER RELATED STATISTICS DIRECTORATE
INFORMATION SYSTEM ORGANISATION
WATER PLANNING & PROJECTS WING
CENTRAL WATER COMMISSION
OCTOBER, 2019

FOREWORD

A number of water resources development projects aimed at ensuring rational and balanced allocation of water have been undertaken since independence in the country. The development, planning, execution and management of these projects require a sound and broad database on water resources and related aspects. Availability and easy accessibility of information is the basic requirement for development and management of the water resources of the country and for implementation and monitoring of policies. Lack of information tends to cause difficulties in formulating realistic plans and for taking timely corrective remedial measures.

Central Water Commission being the lead nodal agency in the water resources sector with overall responsibility for its balanced development has been taking care of this aspect by documenting water and related data in the form of various publications. The publication "Water and Related Statistics" is intended to cater to the ever growing detailed data requirements of water resources planners, managers, administrators and researchers in a comprehensive manner. The publication has also been uploaded on the website of Central Water Commission for all those concerned with balanced water resources development.

The Committee set up for improvement of this publication under the Chairmanship of Shri Amrendra Kumar Singh, Chief Engineer (EMO) have done an excellent job in giving a final shape to the publication together with the officers and staff of the Information System Organisation, CWC.

I hope the publication would be of interest and use to all those involved in and having concern for balanced optimal water resources development.

New Delhi
October, 2019

(Arun Kumar Sinha)
Chairman, CWC

PREFACE

Central Water Commission brings out the publication "Water and Related Statistics" on a biennial basis to cater to the growing needs of data on water resources and related aspects.

The notable aspects of the data included in the publication inter-alia relate to water availability and requirement, Irrigation development including Command Area Development, Land degradation, Resource utilisation, Hydrological data on Rainfall and Flood management. A number of graphs and charts have also been included in the publication reflecting the essence of information presented in different sections.

The work of collection, compilation and finalisation of data for the publication was accomplished by the Information System Organisation, WP&P Wing of CWC. The Committee set up for improvement of this publication under the Chairmanship of Shri Amrendra Kumar Singh, Chief Engineer (EMO) have done an excellent job in giving a final shape to the publication. The officers and staff of the Directorate have done an excellent job in giving the publication a presentable shape under the overall guidance of Smt. J. Kurian, Advisor (ISO). Thanks are due to the various Organisations for supplying the requisite data.

While due care has been taken to ensure accuracy of data, the possibility of some errors and omissions in such a voluminous publication cannot altogether be ruled out. Suggestions, if any, for improvement of the publication will be highly appreciated.

31/10/2019

New Delhi
October, 2019

(S. K. Haldar)
Member (WP&P), CWC

Composition of the Committee for Improvement of the Publication:

Sr. No.	Officers	Designation
1	Chief Engineer (EMO), CWC	Chairman
2	Member (HQ), CGWB	Member
3	Chief Engineer (PMO), CWC	Member
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Acronyms

BCM	: Billion Cubic Metre
BP	: Basin Planning
BPMO	: Basin Planning & Management Organisation
CAD	: Command Area Development
CCA	: Culturalable Command Area
CGWB	: Central Ground Water Board
cm	: Centimetre
CWC	: Central Water Commission
CUI	: Coverage Under Irrigation
cum	:Cubic Metre
cumecs	: Cubic Metre Per Second
EMO	: Environment Management Organisation
ERM	: Extension, Renovation & Modernization Project
FF	: Flood Forecasting
FRL	: Full Reservoir Level
GDP	: Gross Domestic Product
GIA	: Gross Irrigated Area
GSA	: Gross Sown Area
GWH	: Giga Watt Hours
HFL	: Highest Flood Level
HQ	: Head Quarter
IPC	: Irrigation Potential Created
IPU	: Irrigation Potential Utilised
IWDP	: Integrated Watershed Development Project
KM	: Kilometre
KWH	: Kilo Watt Hours
Lakh Ha	: Lakh Hectare
m	: Metre
MCM	: Million Cubic Metre
mm	: Millimetre
Mha	: MillionHectare
MW	: Mega Watt
NCIWRD	: National Commission on Integrated Water ResourcesDevelopment
NDP	: Net Domestic Product
NIA	: Net Irrigated Area
NRDWP	: National Rural Drinking Water Programme
NRMD	: Natural Resource Management Directorate
NSA	: Net Sown Area
PL	: Pond Level
PMKSY	: Pradhan Mantri Krishi Sinchayee Yojana
PMO	: Project Monitoring Organisation
SG&Met	: Snow Gauge & Meteorological Site
sqkm	: Square Kilometre
TCA	: Total Cultivable Area
Th. Ha	: Thousand Hectare
TMcum	: Thousand Million Cubic Metre
UIP	: Ultimate Irrigation Potential
UT	: Union Territory

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Introduction

Water use has been increasing worldwide by about 1% per year since the 1980s, driven by a combination of population growth, socio-economic development and changing consumption patterns. Global water demand is expected to continue increasing at a similar rate until 2050, accounting for an increase of 20-30 percent above the current level of water use, mainly due to rising demand in the industrial and domestic sectors. Over 2 billion people live in countries experiencing high water stress. Recent estimates show that 31 countries experience water stress between 25% (which is defined as the minimum threshold of water stress) and 70%. Another 22 countries are above 70% and are therefore under serious water stress (UN, 2018a). It has been estimated that about 4 billion people, representing nearly two-thirds of the world population, experience severe water scarcity during at least one month of the year (Mekonnen and Hoekstra, 2016). Stress levels will continue to increase as demand for water grows and the effects of climate change intensify. (UN World Water Development Report 2019)

WRI'S Aqueduct Water Risk Atlas

- Nearly a quarter of the world's population lives in 17 countries facing "extremely high" water stress, with India ranked 13 and having more than three times the combined population of the other 16 nations.
- The World Resources Institute's Aqueduct Water Risk Atlas shows India and the other extremely water-stressed nations are close to "Day Zero" when taps run dry.
- In the 17 countries, Agriculture, industry and municipalities are drinking up to 80% of available ground and surface water in an average year and India's resources are severely over-extracted largely to provide water for irrigation. Northern India is facing severe ground water depletion.
- Water stress refers to the share of available renewable surface and ground water that is withdrawn and has been calculated by a model using data from 1960-2014. When demand rivals supply, even small dry shocks-which are set to increase due to climate change can produce dire consequences researchers said.
- The report gives sub-regional situation for India - the Union Territory of Chandigarh has the highest water stress followed by Haryana, Rajasthan, Uttar Pradesh, Punjab, Gujarat, Uttrakhand, Madhya Pradesh and Jammu and Kashmir.

The Atlas ranked water stress drought risk and riverine flood risk across 189 countries Qatar, Israel, Lebanon, Iran, Jordan, Libya, Kuwait, Saudi Arabia, Eritrea, UAE, San Marino, Bahrain, India, Pakistan, Turkmenistan, Oman and Botswana makeup the top 17 Pakistan placed just below India in the list is the only other south Asian country in the top 20 in terms of water stress (Extract from Hindustan Times dated 07.08.2019)

According to one estimate of water reserves on earth quoted by Food and Agriculture Organization (FAO) of the United Nations the total water reserve on earth is about 1.4 billion km^3. However, fresh water constitutes a very small proportion of this enormous quantity available on earth. It is only about 35 million km^3 or just 2.5% of the total volume and the remaining is saline water. A large fraction of the fresh water, about 24 million km^3 or 68.7% is in the form of ice and permanent snow cover in the mountainous regions, the Antarctic and Arctic regions and another 30.1% is present as ground water. About 0.3% is available in lakes, rivers and 0.9% in soil moisture, swamp water and permafrost atmosphere.

The present publication is biennial and attempts to cover a wide range of data on water and related resources in the country. It comprises three chapters along with related appendix tables. Summary tables and charts have been included within the chapters to facilitate overview and better understanding. The introduction presents inter-alia the global water scenario. Chapter 1 deals with Inland Water Resources and other water bodies, River Basin-wise catchment area, year-wise volume of rainfall, storage potential, Hydrological Network of CWC, Assessment of Ground Water, Irrigation Potential, State-wise Ultimate Irrigation Potential of Major & Medium irrigation projects , data on selected Land-use & Irrigation statistics, source-wise Irrigated area, Plan-wise & State-wise Irrigation Potential created and Irrigation Potential utilized of Major & Medium Irrigation Projects etc. Chapter 2 deals with the financial aspects of water and related sectors in the country. Chapter 3 presents information regarding environmental aspects of water resources development activities. It includes data on degraded land and it's distribution according to various types. It provides details on flood damages and analysis of total damage. It also gives description on performance of flood forecasting network.

Some Facts and Figures on Water

- Approximately 50 litres of water per person per day is needed to ensure that most basic needs are met while keeping public health risks at a low level. (WHO, 2017)
- Agriculture (including irrigation, livestock and aquaculture) is by far the largest water consumer, accounting for 69% of annual water withdrawals globally. Industry (including power generation) accounts for 19% and households for 12%. (FAO, AQUASTAT)
- It typically takes 3,000-5,000 litres of water to produce 1 kg of rice, 2,000 litres for 1kg of soya, 900 litres for 1kg of wheat and 500 litres for 1kg of potatoes. (WWF)
- Approximately 80% of the global cropland is rain fed, and 60% of the world's food is produced on rain fed land.
- Roughly 75% of all industrial water withdrawals are used for energy production. (UNESCO, 2014)
- 90% of global power generation is water-intensive. (UNESCO, 2014)
- Global water withdrawal increased from less than 600 km^3/ year in 1900 to almost 4000 km^3/year in 2010.
- Agriculture- including irrigation, livestock watering and cleaning, and aquaculture- is with 69 percent of the world's water withdrawal the largest water user.
- The importance of agricultural water withdrawal is highly dependent on both climate and the place of agriculture in the economy; it ranges from 21 percent of the total water withdrawal in Europe to 82 percent in Africa.
- The total annual irrigation water requirement accounts for 1500 km^3 globally. To meet this requirement, around 2700 km^3 is withdrawn, from renewable, non-renewable and non-conventional sources of water, such as direct use of waste water and agricultural drainage water and- due to its costs- in a very few cases , desalinated water.
- Industrial water withdrawal accounts for 19 percent of all withdrawal with wide geographic variations whereas Municipal water withdrawal, accounts for 12 percent of the world's water withdrawal.
- Depending on diet and lifestyle, about 2000 to 5000 litres of water is said to be used to produce a person's daily food and meet the daily drinking water and sanitation requirements.

- The world has lost 70 per cent of its natural wetland extent, including a significant loss of freshwater species, over the last 100 years. (United Nations, 2018)
- An estimated 20% of the world's aquifers are being over-exploited leading to serious consequences such as land subsidence and saltwater intrusion. (Gleeson et al. 2012)
- Nearly half the global population is already living in potential water scarce areas where the duration of scarcity is at least one month per year. The affected population could increase to approx. 4.8 - 5.7 billion by 2050.
- 700 million people worldwide could be displaced due to intense water scarcity by 2030. (Global Water Institute, 2013)

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Chapter 1
Water and Related Resources

Water resources have two facets – dynamic and static. The dynamic and renewable nature of water resources and the recurrent need for its utilisation requires that water resources be measured in terms of its flow rates. The dynamic resource measured as flow is more relevant for most developmental needs. The static or fixed nature of the resource, involving the quantity of water, the length or area of the water bodies is also relevant for some activities like pisciculture, navigation etc. Both these aspects are discussed below.

1.1 Water Bodies

Inland water resources of the country are classified as: rivers and canals; reservoirs; tanks, lakes & ponds; lakes and derelict water bodies; and brackish water. Total water bodies other than rivers and canals cover an area of about 7.3 Mha. Among these water bodies, 'reservoirs' have maximum area (2.93Mha) followed by 'tanks, lakes and ponds' (2.43Mha).

Inland water resources are unevenly distributed over the States and are shown in Table T1. These are mainly distributed over eleven States namely Odisha, Andhra Pradesh, Karnataka, Tamil Nadu, West Bengal, Kerala, Uttar Pradesh, Gujarat, Maharashtra, Arunachal Pradesh and Rajasthan covering about 85% of the total area of inland water resources(other than rivers and canals).

Table T1: Inland Water Resources in the Country

Name of the State	Rivers & Canals (Length in km)	Water Bodies (Lakh Ha)				
		Reservoirs	Tanks, & Ponds	Flood plain Lakes & Derelict Water	Brackish Water	Total (3 to 6)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Andhra Pradesh	11514	2.34	5.17	-	0.60	8.11
Arunachal Pradesh	2000	-	2.76	0.42	-	3.18
Assam	4820	0.02	0.23	1.10	-	1.35
Bihar	3200	0.6	0.95	0.05	-	1.60
Chhattisgarh	3573	0.84	0.63	-	-	1.47
Goa	250	0.03	0.03	-	Neg.	0.06
Gujarat	3865	2.43	0.71	0.12	1.00	4.26
Haryana	5000	Neg.	0.10	0.10	-	0.20
Himachal Pradesh	3000	0.42	0.01	-	-	0.43
Jammu & Kashmir	27781	0.07	0.17	0.06	-	0.30
Jharkhand	4200	0.94	0.29	-	-	1.23
Karnataka	9000	4.40	2.90	-	0.10	7.40
Kerala	3092	0.30	0.3	2.43	2.40	5.43
Madhya Pradesh	17088	2.27	0.60	-	-	2.87
Maharashtra	16000	2.99	0.72	-	0.12	3.83
Manipur	3360	0.01	0.05	0.04	-	0.10
Meghalaya	5600	0.08	0.02	Neg.	-	0.10
Mizoram	1395	-	0.02	-	-	0.02
Nagaland	1600	0.17	0.50	Neg.	-	0.67

Table T1: Inland Water Resources in the Country

Name of the State	Rivers & Canals (Length in km)	Water Bodies (Lakh Ha)				
		Reservoirs	Tanks, & Ponds	Flood plain Lakes & Derelict Water	Brackish Water	Total (3 to 6)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Odisha	4500	2.56	1.23	1.80	4.30	9.89
Punjab	15270	Neg.	0.07	-	-	0.07
Rajasthan	5290	1.20	1.80	-	-	3.00
Sikkim	900	-	-	0.03	-	0.03
Tamil Nadu	7420	5.70	0.56	0.07	0.60	6.93
Tripura	1200	0.05	0.13	-	-	0.18
Uttar Pradesh	28500	1.38	1.61	1.33	-	4.32
Uttarakhand	2686	0.20	0.006	0.003	-	0.209
West Bengal	2526	0.17	2.76	0.42	2.10	5.45
A & N Islands	-	0.00367	0.00160	-	0.33	0.33527
Chandigarh	2	-	Neg.	Neg.	-	0.00
D & N Haveli	54	0.05	-	-	-	0.05
Daman and Diu	12	-	Neg.	-	Neg.	0.00
Delhi	150	0.04	-	-	-	0.04
Lakshadweep	-	-	-	-	-	0.00
Puducherry	247	-	Neg.	0.01	Neg.	0.01
TOTAL	195095	29.26367	24.3276	7.983	11.55	73.12427

Source : All State Governments and Union Territories
- : Nil

1.2 Rivers

India is blessed with many rivers with varying catchment areas and water resources potential. The estimate of area of rivers and canals in the country is not available. However, their total length in the country is about 2 lakh km. According to the total length of rivers and canals, States and UTs have been classified and presented in Table T2. Uttar Pradesh and Jammu & Kashmir have the highest total length of rivers and canals.

Table T2: States by Total Length of Rivers and Canals

Length (km) (1)	Name of States/UT (2)
<500	Andaman & Nicobar Islands, Chandigarh, Dadra & Nagar Haveli, Daman & Diu, Delhi, Goa, Lakshadweep, Puducherry
500-999	Sikkim
1000-1999	Mizoram, Nagaland, Tripura
2000-4999	Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Gujarat, Himachal Pradesh, Jharkhand, Kerala, Manipur, Odisha, Uttarakhand, West Bengal
5000-9999	Haryana, Karnataka, Meghalaya, Rajasthan, Tamil Nadu
10000-14999	Andhra Pradesh
15000-19999	Madhya Pradesh, Maharashtra, Punjab
20000-24999	-
25000 & above	Jammu & Kashmir, Uttar Pradesh

Source : All State Governments and Union Territories

1.3 Rainfall

The annual precipitation including snowfall, which is the main source of water in the country, is estimated to be of the order of 4000 BCM. A summary of rainfall in the country has been given in

Table T3. Accordingly, there is no specific trend of rainfall. In 2018, the total volume of rainfall was 3356 BCM as against 3705 BCM recorded during the previous calendar year registering a decrease of about 9.42 %.

Table T3: Volume of Rainfall in the Country

Year (1)	2009 (2)	2010 (3)	2011 (4)	2012 (5)	2013 (6)	2014 (7)	2015 (8)	2016 (9)	2017 (10)	2018 (11)
Total Rainfall (mm)	954	1216	1116	1055	1243	1045	1085	1083	1127	1021
Total Volume of Rainfall (BCM)	3136	3997	3669	3468	4086	3435	3567	3560	3705	3356

Source : India Meteorological Department

1.4 Water Resources Potential

The water resources potential of the country which occurs as natural run-off in the rivers is about 1999 BCM as per the estimates of Central Water Commission (CWC), taking both surface and ground water into account. Estimated utilizable water resources of the country is 1122 BCM per year, out of which, share of surface water and ground water is 690 and 432 BCM per year respectively. Table T4 presents river basin-wise catchment area, average water resources potential and utilisable water resources potential.

Of the major rivers, the river basin Ganga-Brahmaputra-Meghna is the largest in respect of catchment area of more than 11 lakh sqkm. The other major rivers with catchment area more than one lakh sqkm are: Indus, Godavari, Krishna and Mahanadi.

The table shows that the River Basin Ganga-Brahmaputra-Meghna has annual water resources potential of 1123 BCM out of total 1999 BCM in the country. So far as utilisable surface water is concerned, the proportion of utilisable surface water resources to water resources potential is very high in smaller basins except in Mahi and West Flowing River basins from Tapi to Tadri and Tadri to Kanyakumari. The proportion of utilisable surface water to average water resources potential is found to be minimum in Brahmaputra sub-basin.

Table T4: River Basins

(BCM)

Sl. No.	River Basin	Catchment Area[$] (Sqkm)	Average Water Resources Potential[$]	Utilisable Surface Water Resources[#]
(1)	(2)	(3)	(4)	(5)
1	Indus (up to Border)	3,17,708	45.53	46.0
2	Ganga- Brahmaputra-Meghna			
	a) Ganga	8,38,803	509.52	250.0
	b) Brahmaputra	1,93,252	527.28	24.0
	c) Barak & Others	86,335	86.67	
3	Godavari	3,12,150	117.74	76.3
4	Krishna	2,59,439	89.04	58.0
5	Cauvery	85,167	27.67	19.0
6	Subarnarekha	26,804	15.05	6.8
7	Brahamani&Baitarni	53,902	35.65	18.3
8	Mahanadi	1,44,905	73.00	50.0
9	Pennar	54,905	11.02	6.9
10	Mahi	39,566	14.96	3.1

Table T4: River Basins

(BCM)

Sl. No.	River Basin	Catchment Area[$] (Sqkm)	Average Water Resources Potential[$]	Utilisable Surface Water Resources[#]
(1)	(2)	(3)	(4)	(5)
11	Sabarmati	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	15.0
19	Area of Inland drainage in Rajasthan	1,44,835.90	Negligible	-
20	Minor River Draining into Myanmar (Burma) & Bangladesh	31,382	31.17	-
	Total	32,71,953	1999.20	690.1

Source: B.P.-I Directorate, CWC.
$: Reassessment of Water Availability in India using Space Inputs, June 2019, CWC
: Report of the Standing Sub-Committee for assessment of availability and requirement of water for diverse uses in the country, August 2000

The Basin-wise distribution of Catchment Area hasbeen presented in Figure 1.

Figure 1: Basin-wise Distribution of Catchment Area

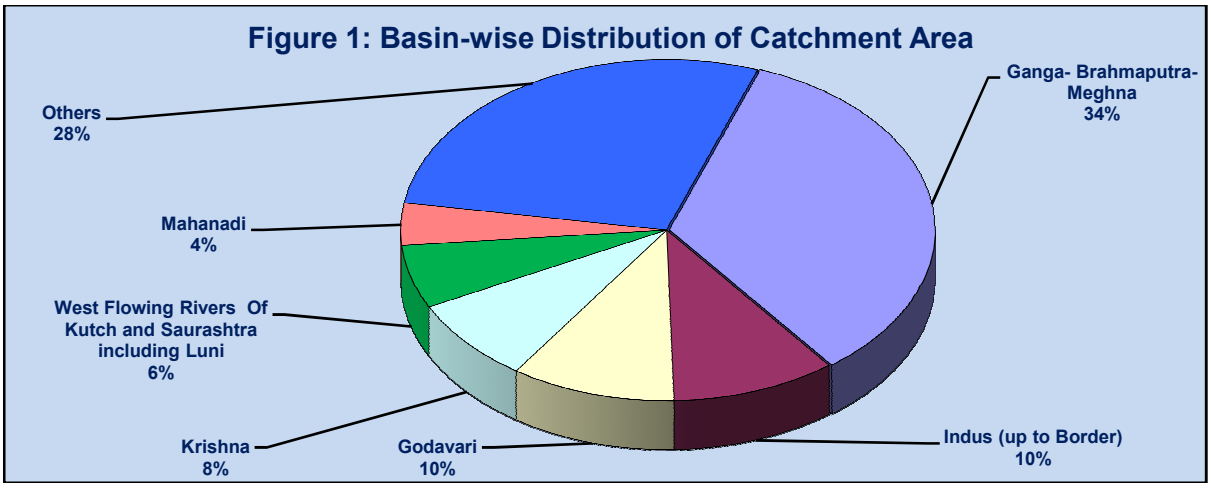


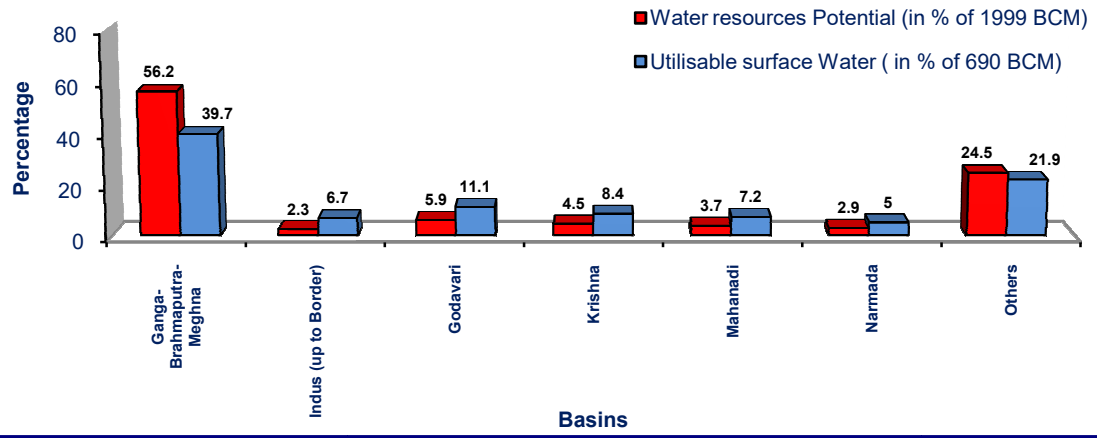
Table T5: Percentage of Water Resources Potential and Utilisable Surface Water in Major Basins

River Basin	Water Resources Potential (% to total 1999 BCM)	Utilisable surface Water (% to total 690 BCM)
(1)	(2)	(3)
Ganga-Brahmaputra-Meghna	56.2	39.7
Indus (up to Border)	2.3	6.7
Godavari	5.9	11.1
Krishna	4.5	8.4
Mahanadi	3.7	7.2
Narmada	2.9	5.0
Others	24.5	21.9

Source: B.P. Directorate, CWC

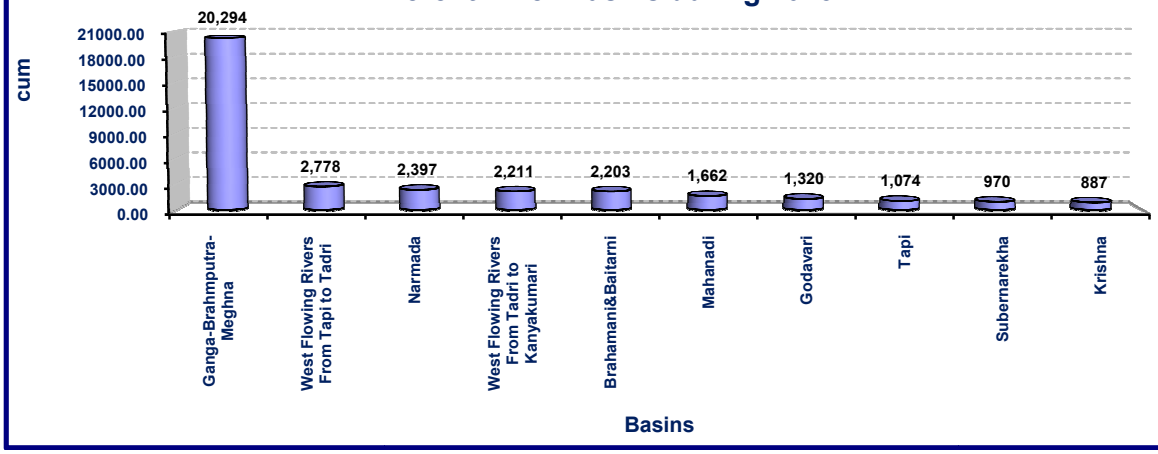
It is observed that the River Basin of Ganga-Brahmaputra-Meghna is covering 34% of the total catchment area in the country andis the major contributor to total water resources potential of the country. Its share is 56% in total water resources potential and also is the major contributor in the context of utilisable surface water resources (about 40%).

Figure 2: Water Resource Potential and Utilisable Surface Water



The per capita availability in the country will be 1219 cum in the year 2050 against 1434 cum during 2025. Per capita availability of less than 1700 cum is termed as a water-stressed condition while if per capita availability falls below 1000 cum it is termed as a water scarcity condition. Indus (up to border), Krishna, Cauvery, Subernarekha, Pennar, Mahi, Sabarmati, East Flowing Rivers and West Flowing Rivers of Kutch and Saurashtra including Luni are some of the basins, which fall into this category- out of which Cauvery, Pennar, Sabarmati and East Flowing rivers and West Flowing Rivers of Kutch and Saurashtra including Luni face more acute water scarcity (Appendix Table no.-1.1). Estimated per capita availability of water (cum) in different River Basins during 2025 is given in Figure 3.

Figure 3: Estimated Per Capita Availability of Water (cum) in Different River Basins during 2025

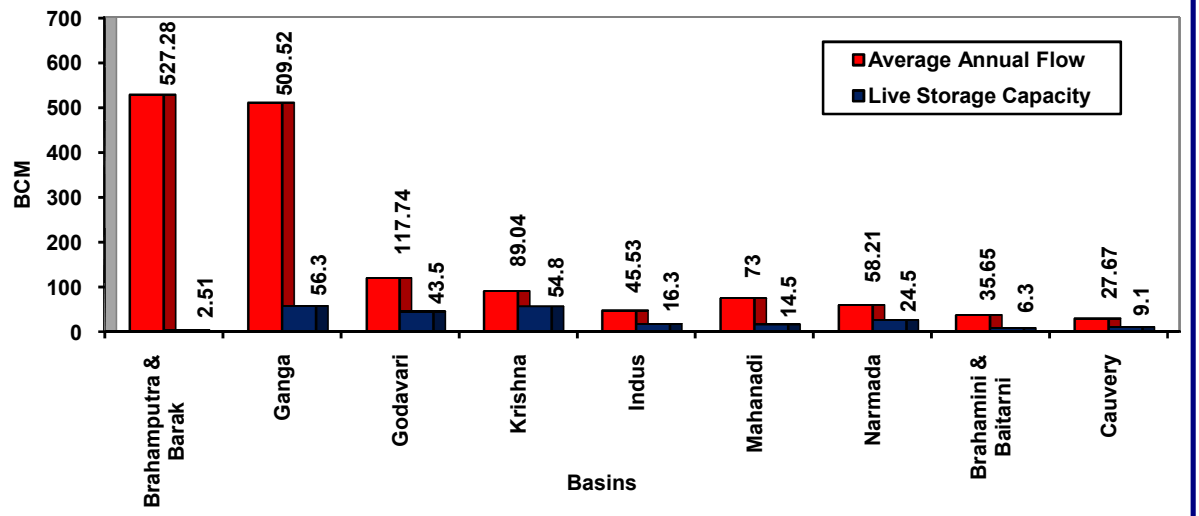


1.5 Surface Storage:

A total storage capacity of about 257.8 BCM has been created in the country due to Major & Medium irrigation projects since their completion. The projects under construction will contribute to an additional 47 BCM. Thus, likely storage available will be 304.6 BCM once the projects under construction are completed against the total water availability of 1999 BCM in the river basins of the country.

Maximum storage lies in the Ganga Basin followed by Krishna, Godavari and Narmada. Pennar is the leading basin in terms of storage capacities as percentage of average annual flow. The storage capacities as percentage of average annual flow exceed 50% for Krishna, Tapi and Narmada basins while for Ganga and Brahmaputra sub-basins the corresponding figures are 11% and 0.5 % respectively (Appendix Table no.-1.2).

Figure 4: Basin-wise Flow & Storage Potential in India



The States of erstwhile Andhra Pradesh, Karnataka, Madhya Pradesh and Maharashtra, together account for more than 50% of total live storage capacity in the country (Appendix Table no.- 1.3).

Month-wise storage position of important Reservoirs of India for the year 2018-19 is presented in Appendix Table no.-1.4.

1.6 Hydrological Network of CWC

CWC maintains 1674 Hydrological Observation sites (Appendix Table 1.5-a) across the country for collection of hydrological data on water level and discharge observations including silt measurements and snow-melt run-off for assessment of the water resources for planning and its optimal utilisation for comprehensive and sustainable development. Basin-wise details of Hydrological Observation sites are given in Appendix table no.1.5-b. Out of 1674 total Hydrological Observation sites, 878 Hydrological observations sites and 76 Snow Gauge Sites are existing sites (Appendix table no.1.5-c) and 720 new Hydrological observations sites were proposed as per XII five year plan and subsequent years (Appendix Table no.1.5-d).

1.7 Ground Water

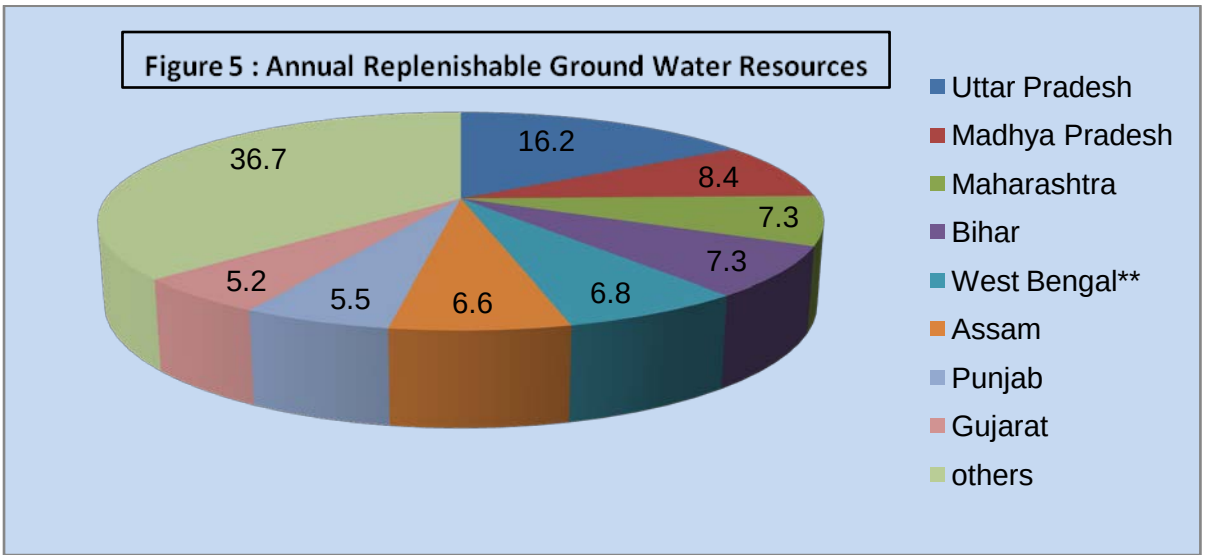
The annual replenishable ground water resources of the country (2017) have been assessed as 432 BCM. The ground water resources get replenished through rainfall and other sources like return flow from irrigation, canal seepage, recharge from water bodies, water conservation structures etc. The main source of replenishable ground water resource is recharge through rainfall which contributes to nearly 67% of the total annual replenishable resources. The total annual extractable ground water availability of the country has been assessed as 393 BCM after keeping a provision for natural discharge. The current annual ground water extraction is 249 BCM, the largest user being irrigation sector. The stage of ground water development for the entire country, which is the percentage of ground water draft with respect to net annual ground water availability, has been computed as 63% (Appendix table no.-1.6).

The break-up of annual replenishable ground water resources by State with share 2.5% or more have been presented in Table T6. It shows that 15 States comprise about to 90% of ground water potential. Among these States, Uttar Pradesh ranks first (16.2%) in terms of share of replenishable ground water resources followed by Madhya Pradesh (8.4%), Maharashtra (7.3%), Bihar (7.3%), West Bengal (6.8%), Assam (6.6 %), Punjab (5.5%), Gujarat (5.2%) as depicted in the adjoining figure 5 and the remaining are with less than 5% in their respective contribution.

Table T6: Annual Replenishable Ground Water Resources (as on 31.03.2017)

State	(BCM)	%
(1)	(2)	(3)
Andhra Pradesh	21.22	4.9
Assam	28.67	6.6
Bihar	31.41	7.3
Chhattisgarh	11.57	2.7
Gujarat	22.37	5.2
Karnataka	16.84	3.9
Madhya Pradesh	36.42	8.4
Maharashtra	31.64	7.3
Odisha	16.74	3.9
Punjab	23.93	5.5
Rajasthan	13.21	3.1
Tamil Nadu	20.22	4.7
Telangana	13.62	3.2
Uttar Pradesh	69.92	16.2
West Bengal**	29.33	6.8
Others	44.75	10.3
Total	431.86	100

Sources : Central Ground Water Board, M/o Jal Shakti, D/o Water Resources, RD & GR
**** The Ground Water Resources Assessment as on 2013 has been considered for the State of West Bengal.**



CGWB has classified the country into safe, semi critical and over exploited ground water resources. However, the units used were not uniform over the States. Units were blocks, talukas, water-sheds, mandals, island, district, and region. The summary of the classification with reference period 2017 is presented in Table T7. It is seen that proportion of over-exploited area is highest in Punjab followed by Delhi, Rajasthan and Haryana, Himachal Pradesh and Tamil Nadu. The number of States/UTs affected due to salinity is only 8; but among these States/UTs, the problem of salinity is somewhat significant in Puducherry, Andhra Pradesh and Gujarat. State wise detailed table is given in (Appendix table no.-1.7).

Table T7: Classification of Area units by usage of Ground Water					
% of units	**Safe**	**Semi-critical**	**Critical**	**Over-exploited**	**Salinity affected**
90 and above	Arunachal Pradesh, Assam, Goa, J&K, Jharkhand, Manipur, Meghalaya, Mizoram, Nagaland, Odisha, Sikkim, Tripura, A&N Islands, Dadra & Nagar Haveli	Chandigarh			
75-89	Andhra Pradesh, Bihar Chhattisgarh, Gujarat, Kerala, Madhya Pradesh, Maharashtra			Punjab	
40-74	Karnataka, Telangana, UP, Uttrakhand, W.B., Daman & Diu, Lakshadweep, Puducherry		Daman & Diu	Delhi, Rajasthan, Haryana, Himachal Pradesh, TN	
20-39	Haryana, Himachal Pradesh, TN	Delhi, Kerala, Telangana, Uttrakhand, WB, Lakshadweep		Karnataka, Puducherry	Puducherry
5-19	Delhi, Punjab, Rajasthan	Andhra Pradesh, Bihar, Chhattisgarh, Haryana, Himachal Pradesh, Karnataka, MP, Maharashtra, Rajasthan, TN, UP	Delhi, Karnataka, Rajasthan, TN, Telangana, UP,	Andhra Pradesh, MP, Telangana, UP	Andhra Pradesh, Gujarat
1-4		Gujarat, Jharkhand, Odisha, Punjab	Andhra P, Bihar, Chhattisgarh Gujarat, Haryana, Jharkhand, Kerala, MP, Maharashtra, Punjab,	Bihar, Jharkhand, Kerala	Odisha, Rajasthan, TN, Maharashtra, A&N
Sources : Central Ground Water Board, M/o Jal Shakti, D/o Water Resources, RD & GR					

1.8 Assessment of Ground Water

For assessment of ground water, Central Ground Water Board (CGWB) has drilled various types of bore holes in the country. The types of bore holes are Exploratory Well (EW), Pizo Metre (PZ), Observation Well (OW), Slim Hole (SH) and Deposit Well (DW). The cumulative total of these structures shows that there were 39,457 structures as on 31.10.2018 in the country. Out of which, DW constitutes about 9.21% while the remaining 90.79% are other types of bore holes. Rajasthan, Karnataka, Madhya Pradesh, Uttar Pradesh, Odisha, Tamil Nadu, Gujarat, Maharashtra, Telangana, Andhra Pradesh, Chhattisgarh, West Bengal, Haryana, Bihar & Kerala account for more than 85% of the total bore holes in the country. Out of total DW schemes in the country, these States account for more than 76% of total DW Schemes in the country.

Table T8: Bore Holes Drilled by Central Ground Water Board (as on 31.10.2018)

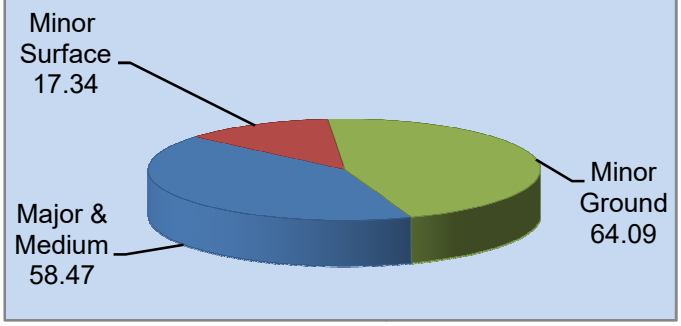
State/UTs	Exploratory Well	Pizo Metre	Observation Well	Slim Hole	Deposit Well	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Andhra Pradesh	1003	307	445	9	4	1768
Arunachal Pradesh	46	0	10	1	1	58
Assam	418	59	194	16	42	729
Bihar	344	74	200	10	514	1142
Chhattisgarh	1065	266	244	0	28	1603
Goa	71	14	19	0	31	135
Gujarat	1376	498	529	27	255	2685
Haryana	481	309	326	23	170	1309
Himachal Pradesh	241	5	37	1	0	284
Jammu & Kashmir	469	37	99	8	114	727
Jharkhand	534	46	224	4	71	879
Karnataka	2147	354	820	7	5	3333
Kerala	568	231	200	16	13	1028
Madhya Pradesh	1749	256	735	8	149	2897
Maharashtra	1694	255	528	2	166	2645
Manipur	29	1	14	0	2	46
Meghalaya	111	2	31	2	8	154
Mizoram	3	0	3	0	0	6
Nagaland	15	1	6	0	3	25
Odisha	2052	217	398	21	191	2879
Punjab	333	109	312	20	14	788
Rajasthan	1998	573	655	93	591	3910
Sikkim	31	0	9	0	0	40
Tamil Nadu	1636	457	544	13	93	2743
Tripura	66	1	31	5	22	125
Telangana	987	509	543	5	27	2071
Uttarakhand	92	3	10	1	129	235
Uttar Pradesh	1385	201	770	40	501	2897
West Bengal	669	277	294	12	82	1334
State Total	21613	5062	8230	344	3226	38475
Andaman & Nicobar	46	0	13	1	0	60
Chandigarh	9	14	17	2	15	57
Dadra & Nagar Haveli	14	0	1	0	0	15
Delhi	149	160	64	13	380	766
Daman & Diu	0	7	0	0	0	7
Puducherry	30	8	20	5	14	77
UTs Total	248	189	115	21	409	982
Grand Total	21861	5251	8345	365	3635	39457

Sources : Central Ground Water Board, M/o Jal Shakti, D/o Water Resources, RD & GR

1.9 Irrigation Potential

The total Ultimate Irrigation Potential (UIP) of the country stands at about 140 Mha. The share of Minor Irrigation is higher by 22.96 Mha as compared to that of Major & Medium Irrigation.

Figure 6: Ultimate Irrigation Potential

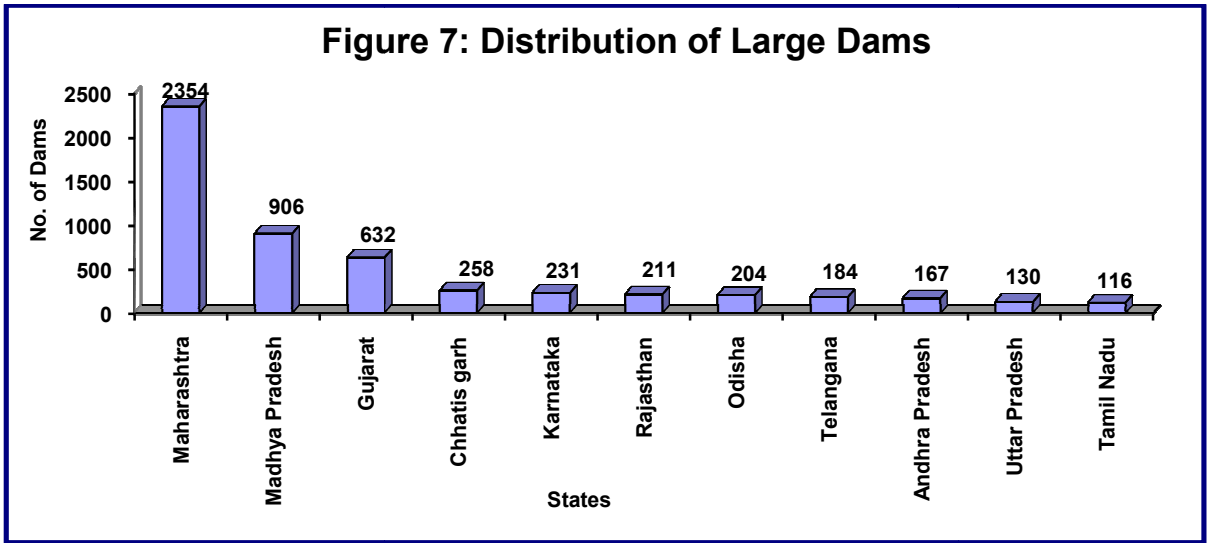


Ground Water contributes more than 78% of the total ultimate potential through minor irrigation. Uttar Pradesh and Bihar are the two largest States in terms of potential due to Major & Medium Irrigation Projects. These two States along with Andhra Pradesh, Madhya Pradesh, Maharashtra, Odisha, Gujarat, Haryana & Punjab account for about 75% of the total ultimate potential of Major & Medium Irrigation in the country. The largest UIP for Minor Irrigation (Ground Water) exists in Uttar Pradesh. Andhra Pradesh and Madhya Pradesh are the two major States in which potential of Minor Irrigation (Surface Water) is much higher than the remaining States. Uttar Pradesh occupies the first place among the states having maximum potential due to all types of schemes(Appendix table no.-1.8).

1.10 Dams Scenario

Central Water Commission maintains the National Register of Large Dams (NRLD). The State-wise distribution of number of dams is presented in Appendix Table no.1.9. It reveals that there are 5701 Dams in the country out of which 5264 are completed. The maximum number of dams completed in the country is in Maharashtra (2069) followed by Madhya Pradesh (899). The number of dams under construction is the highest in Maharashtra (285) followed by Jharkhand (29).

Figure 7: Distribution of Large Dams



International Commission on Large Dams (ICOLD) Specification:

• A large dam is classified as one with a maximum height of more than 15 metres from its deepest foundation to the crest.

• A dam between 10 and 15 metres 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 metres or

b) capacity of the reservoir formed by the dam is not less than one million cubic metres or
c) the maximum flood discharge dealt with by the dam is not less than 2000 cubic metres per second or
d) the dam has specially difficult foundation problems, or
e) the dam is of unusual design

The distribution of dams by time period is given in Table T9. It indicates that the maximum number of dams in India was completed during the decades 1981-90 (1304) and 1971-80 (1288).

Table T9: Break-up of number of Completed Large Dams by time period

Upto 1900	1901-1950	1951-1960	1961-1970	1971-1980	1981-1990	1991-2000	2001& above	Not available	Total
68	302	235	504	1288	1304	705	664	194	5264

Source: Central Water Commission, (Dam Safety Monitoring Directorate) National Register of Large Dams

1.11 Land Use Statistics

As irrigation accounts the maximum utilisation of water, it is pertinent to look at the irrigation statistics vis-à-vis availability of land in the country and its use especially in relation to water use. As per the Land use statistics available from the Ministry of Agriculture and Farmers Welfare at national level, during 2014-15, about 23% area of the country is under forest cover and Net Sown Area is 46% of the total geographic area. Barren and unculturable waste land amount to about 8.7% and about 5.5% is under non-agricultural uses like houses, industries etc.

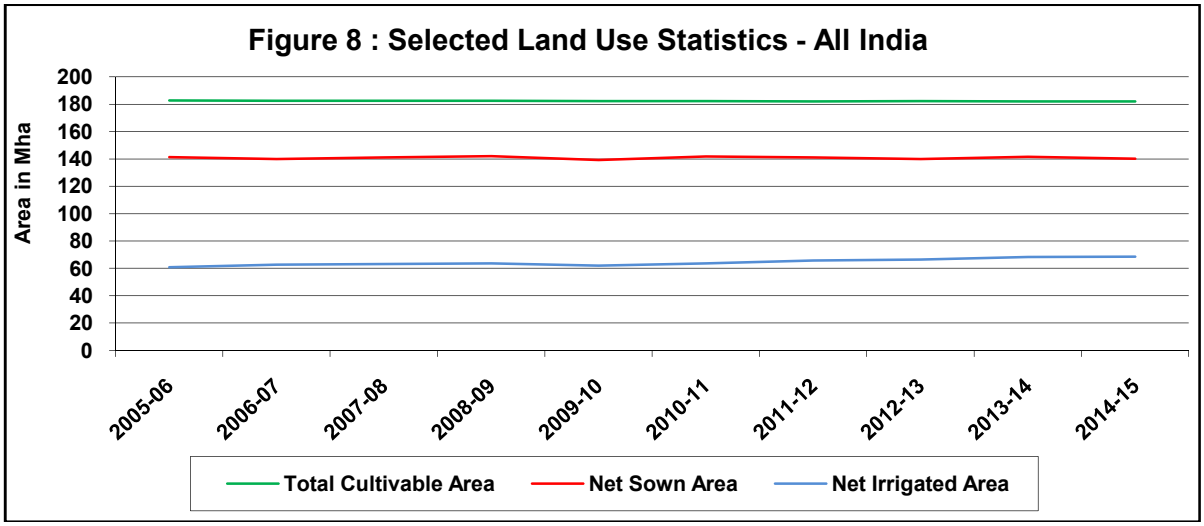
Over the period 2005-06 to 2014-15, the Forest Area moderately increased to 71,794 Th.Hec.in 2014-15 while it was 71,431 Th.Ha in 2005-06. Total Cultivable Area has a declining trend up to 2011-12 except 2008-09 after that it shows undulating trend. The Gross Irrigated Area was increasing over the said period except for year 2009-10. The percentage of Gross Irrigated Area over Gross Cropped Area/Gross Sown Area has improved from 43.7% in 2005-06 to 48.6% in 2014-15.

Table 10: Land Use and Irrigation Statistics-All India

(Th. Ha)

Year	Geographical Area	Forest Area	Net Sown Area (NSA)	Total Cultivable Area (TCA)	Gross Sown Area (GSA)	Gross Irrigated Area (GIA)	Net Irrigated Area (NIA)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
2005-06	328726	71431	141162	182686	192737	84279	60837
2006-07	328726	71463	139823	182476	192381	86752	62743
2007-08	328726	71529	141016	182438	195223	88057	63189
2008-09(p)	328726	71543	141899	182459	195328	88895	63637
2009-10(p)	328726	71555	139173	182179	189188	85087	61945
2010-11(p)	328726	71593	141563	182010	197683	88940	63665
2011-12(p)	328726	71599	140980	181955	195796	91786	65707
2012-13(p)	328726	71573	139936	182085	194246	92247	66285
2013-14(p)	328726	71828	141427	181850	200950	95771	68116
2014-15(p)	328726	71794	140130	181886	198360	96457	68383

Source : Directorate of Economics & Statistics, Ministry of Agriculture & Farmers Welfare
p : Provisional



1.12 Irrigated Area under Principal Crops

For having an idea about the quantum of water used for irrigation it is important to know irrigated area under different crops as the requirement of water varies from crop to crop. The gross irrigated area for a few selected crops has been presented in the following Table T11. It shows that gross irrigated area during 2014-15 was 96.5 Mha out of which food-grain crops contributed about 67.9%.

Table T11: Total Gross Irrigated Area for Crops – All India

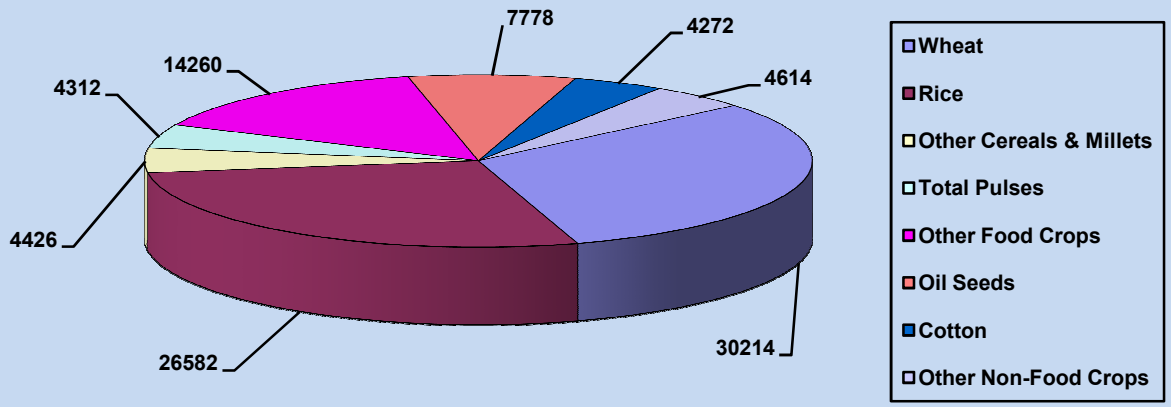
(Th. Ha)

Crop / Year	2005-06	2006-07	2007-08	2008-09 (P)	2009-10 (P)	2010-11 (P)	2011-12 (P)	2012-13 (P)	2013-14 (P)	2014-15 (P)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Wheat	24165	25734	26094	25694	26196	27654	28058	28498	29369	30214
Rice	24959	25258	25218	26584	24205	25486	25582	24992	26516	26582
Other Cereals & Millets	3922	3928	4247	4222	4047	4083	4131	4185	4396	4426
Total Pulses	3444	3629	3952	3915	3659	3781	3777	4068	4690	4312
Other Food Crops	12122	12668	13309	13060	12332	13145	14184	13976	14209	14260
Oil Seeds	8666	8266	7787	8035	7228	7198	7731	8173	8220	7778
Cotton	3246	3410	3534	3362	3590	3698	4369	4016	3868	4272
Other Non-Food Crops	3754	3858	3917	4024	3830	3895	3954	4339	4503	4614
Total Gross Irrigated Area	84279	86752	88057	88895	85087	88940	91786	92247	95771	96457

Source : Directorate of Economics & Statistics, Ministry of Agriculture & Farmers Welfare

P : Provisional

Figure 9 : Crop-wise Irrigated Area during 2014-15 (in Th. Ha)



Among the cereals, it is observed that irrigated area under rice varied between 25.0 Mha to 26.6 Mha during the period 2005-06 to 2014-15. The irrigated area under wheat varies from 24.2Mha to 30.2 Mha during the same period.

1.13 Sources of Irrigation and Area Irrigated

The main sources of irrigation in the country are canals, tanks and wells including tube-wells. These data are available from two sources. Ministry of Agriculture collects and compiles data on irrigated area by source at various levels – district/State /Country. The erstwhile Planning Commission also collected data on Irrigation Potential Created (IPC) and Utilised (IPU) for major and medium irrigation projects. For Minor Irrigation schemes, Ministry of Jal Shakti, D/o Water Resources, RD and GR conducts a census on regular interval. These censuses provide IPC and IPU by source of irrigation. The last census was conducted in 2013-14. The sixth census is going on.

Analysing the data relating to net area irrigated by source for the year 2014-15, it is observed that the major source of irrigation is ground water. It was found that wells provided about 62.8% irrigation followed by canals with 23.7% at all- India level during 2014-15.

Table T12: Source-wise Net Irrigated Area in India

(Th. Ha)

Year	Canal	Tank	Wells	Other Sources	Total (All Sources)
(1)	(2)	(3)	(4)	(5)	(6)
2005-06	16718	2083	36070	5966	60837
2006-07	17027	2078	37640	5999	62743
2007-08	16748	1973	38360	6107	63189
2008-09	16881	1981	38755	6020	63637
2009-10	14975	1585	38360	7024	61945
2010-11	15646	1979	39172	6889	63665
2011-12	16008	1917	40537	7245	65707
2012-13	15677	1752	41305	7552	66285
2013-14	16278	1841	42439	7557	68116
2014-15	16182	1723	42959	7519	68383

Source : Directorate of Economics & Statistics Ministry of Agriculture & Farmers Welfare

1.14 Irrigation Development in the Country

Irrigation projects are classified as Major, Medium or Minor Irrigation projects. The Minor Irrigation projects (schemes) are further divided into two categories viz. Surface Water Schemes and Ground Water Schemes. Major and Medium Irrigation projects are generally surface water projects.

Analysing the data on potential created and utilised over different Plan periods, it is observed that irrigation potential created has increased from 22.60 Mha in pre-plan era to126.73 Mha up to August, 2018.

Table T13 : Plan-wise Cumulative Irrigation Potential Created and Utilized upto XI Plan

(Mha)

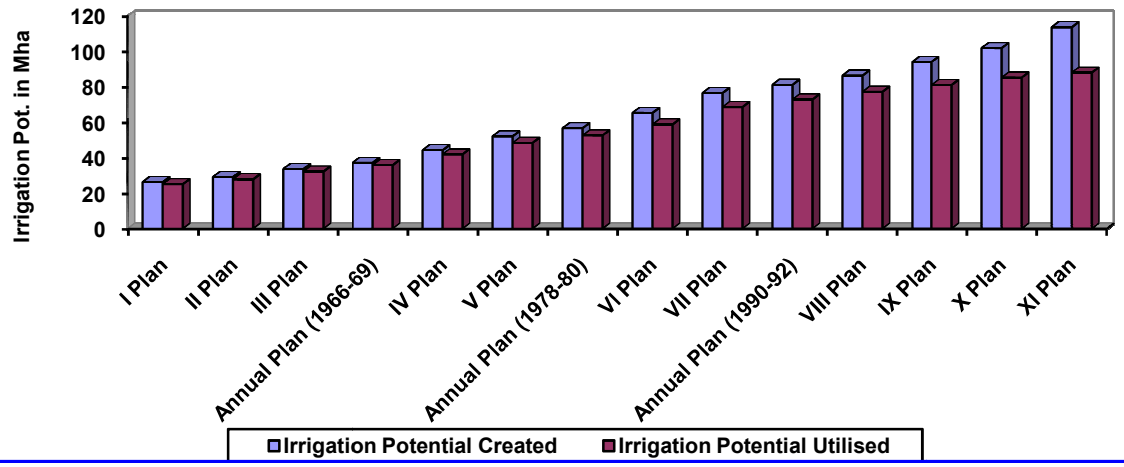
Sl.No.	Plan	Potential Created			Potential Utilized		
		Major & Medium	Minor	Total	Major & Medium	Minor	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Upto 1951 (Pre-Plan)	9.70	12.90	22.60	9.70	12.90	22.60
2	I Plan (1951-56)	12.20	14.06	26.26	10.98	14.06	25.04
3	II Plan(1956-61)	14.33	14.75	29.08	13.05	14.75	27.80
4	III Plan(1961-66)	16.57	17.00	33.57	15.17	17.00	32.17
5	Annual Plans (1966-69)	18.10	19.00	37.10	16.75	19.00	35.75
6	IV Plan (1969-1974)	20.70	23.50	44.20	18.39	23.50	41.89
7	V Plan(1974-1978)	24.72	27.30	52.02	21.09	27.30	48.39
8	Annual Plans (1978-1980)	26.61	30.00	56.61	22.57	30.00	52.57
9	VI Plan(1980-1985)	27.70	37.52	65.22	23.50	35.25	58.75
10	VII Plan(1985-1990)	29.92	46.52	76.44	25.4	43.12	68.52
11	Annual Plans (1990-1992)	30.74	50.35	81.09	26.25	46.54	72.79
12	VIII Plan(1992-1997)	32.95	53.31	86.26	28.38	48.77	77.15
13	IX Plan(1997-2002)	37.05	56.90	93.95	30.95	49.99	80.94
14	X Plan(2002-2007)	41.64	60.10	101.74	33.68	51.48	85.16
15	XI Plan(2007-2012)	47.97	65.56	113.53	35.01	52.91	87.92
16	Upto August, 2018			126.73			

Source : Planning and Progress Directorate, PMO, CWC

The percentage of potential created to ultimate potential through Major & Medium Irrigation projects up to the end of XI Plan is 81.15 % and upto August, 2018 is 90.59% at national level.

As per irrigation potential utilised over different Plan periods, it is observed that the irrigation potential utilised was 22.60 Mha in pre-plan period which increased to 87.92 Mha by the end of XI Plan out of which 35.01 Mha is from Major and Medium projects and the remaining 52.91 Mha from Minor Irrigation schemes. The percentage of IPU to IPC upto VIII Plan remained 89% or more. However, the percentage started declining in subsequent plans. In IX, X and XI Plans it was around 86%, 84% and 77% respectively. Irrigation Potential created and utilised during plan period is presented in Appendix table no.-1.10.
Plan-wise cumulative irrigation potential created and utilised (all schemes) are shown in the following Figure 10.

Figure 10: Plan-wise Cumulative Irrigation Potential Created & Utilised (All schemes of Major & Medium and Minor)



Among the States, the potential created in respect of Major & Medium projects upto August, 2018 was highest in Uttar Pradesh (9.3 Mha) followed by Andhra Pradesh (4.8 Mha), Maharashtra (4.1 Mha), Gujarat (3.7 Mha) and Rajasthan (3.2Mha) respectively. The total share of these five States was more than 52% in creation of total irrigation potential (Appendix Table no.-1.11).

The following table T14 gives Ultimate Irrigation Potential (UIP), IPC and IPU upto XI Plan of the States having percentage of IPU to IPC at least 75%.

Table T14: Cumulative Irrigation Potential Created / Utilised for Major& Medium Irrigation upto XI Plan (Th. Ha)

States	Ultimate Irrigation Potential (UIP)	Irrigation Potential Created (IPC)	Irrigation Potential Utilised (IPU)	% of IPU to IPC
(1)	(2)	(3)	(4)	(6)
Chhattisgarh	1147	1269.3	948.2	75
Haryana	3000	2206.3	1893.2	86
Karnataka	2500	2965.8	2332.1	79
Kerala	1000	715.7	591.4	83
Odisha	3600	2147.4	1878.7	87
Punjab	3000	2684.4	2510.5	94
Rajasthan	2750	3167.1	2526.1	80
Tamil Nadu	1500	1578.3	1556.9	99
Uttar Pradesh	12154	9288.1	7824.4	84
West Bengal	2300	1901.4	1573.6	83
All India	58465	47972.4	35007.3	73

Source : Planning and Progress Directorate, PMO, CWC

Analysing the data on potential utilisation at the end of XI Plan, it is found that about 73% of the potential created was utilised under Major & Medium irrigation projects at All-India level. In case of Minor Irrigation, about 81% potential created was utilised. In a nutshell, at the end of XI Plan, if all the Major, Medium and Minor schemes are considered cumulatively, it is found that about 77% of the potential created has been utilised.

1.15 Number of Major, Medium Irrigation and ERM Projects

Upto the XI Plan, there were 295 completed major projects and the number of major projects spilled over in XII Plan were 149 out of which maximum number of projects are in Maharashtra (49), followed by Andhra Pradesh (30)and Madhya Pradesh (15).

Table T15: Number of Major, Medium & ERM Irrigation Projects in India

Type of Project	Completed upto XI Plan	Spilled over Project in XII Plan	New Project in XII Plan
(1)	(2)	(3)	(4)
Major Projects	295	149	27
Medium Projects	1018	138	32
ERM Projects	140	39	27
Total	1453	326	86

Source : Planning and Progress Directorate, PMO, CWC

Details distribution of number of Major, Medium & ERM projects that have been completed in XI Plan and spilled over XII Plan along with new projects taken in XII plan over different States are mentioned in the Appendix table no.-1.13.

1.16 Command Area Development Programme:

Command Area Development (CAD) programme primarily aims at the speedy utilisation of irrigation potential created. It is a centrally sponsored scheme started during 1974-75. Central Government offers assistance to the State Governments for implementation of various activities like land levelling, field channel, warabandi etc.

The details of Physical Achievements of Field Channels under CAD programme is presented in Appendix table no.-1.14.

1.17 INDIA – WRIS

GENERATION OF DATABASE & IMPLEMENTATION OF WEB ENABLED WATER RESOURCES INFORMATION SYSTEM IN THE COUNTRY

CWC & ISRO had jointly undertaken the work of development of Water Resources Information System (WRIS) during XI plan. The goal of the project is a 'Single Window Solution' for all Water resources data and information in a standardized national GIS framework for water resources assessment, monitoring, planning and development, integrated water resources management (IWRM) and to provide foundation for advanced modelling purpose to all Departments, organizations, professionals and other stakeholders.

India WRIS is a web-portal launched on10thDecember, 2009 with url<www.india-wris.nrsc.gov.in.>. It is a means of disseminating water resources related data in the public domain for users to search, access, visualize, understand and analyze the data. The data collection, generation and presentation into the portal are continuous activities. These data have been collected from CWC offices, State WRD/Irrigation Department/Electricity Boards and other Government of India Departments like CGWB, IMD, Survey of India, NWDA etc.

India-WRIS has 30 major layers (Annexure-I) of information both spatial and non-spatial having 108 sub layers generated on 1:50000 scale. Main group of database are indicated on the next page:

I. Watershed Atlas (Basin, River network & Digital Elevation Model)
II. Administrative layer (State Boundary, District boundary, Village boundary, Roads etc)
III. Water Resources project (Major, Medium project location & command boundaries, Canal system)
IV. Thematic layer (Land use/Land cover, Waste land, Water bodies, Ground water well maps, Litholog)
V. Environment data (CWC Hydro-meteorological station, IMD stations & Water quality stations)
VI. Basin wise Report

Status of Project as on date

- Five (05) version of India-WRIS Portal has been launched so far. The version 4.1 was launched in July 2015 and is available in public domain at 1:250000 scale.
- Delineation of basins (27), sub-basins (101) and watersheds (4566) of the country using DEM (SRTM, Carto DEM)
- River network (Total length 36 lakh km), road network, rail network digitized using Carto-LISS-IV merged data of Indian Satellites
- Water Bodies (8 Lakh approx.) digitized using LISS-IV data of Indian Satellites
- Major and Medium irrigation projects & Multipurpose project, including canal network, major dams, barrages, lifting stations, command boundary, Hydro power stations has been digitized using Information and Maps provided by Project authorities and mapped using Carto LISS-IV data of Indian Satellites. Canals were verified using Google earth also.
- Unclassified data of CWC H.O. stations as per hydro-meteorological data dissemination policy 2013 has been uploaded for free download.
- Central Ground water Board (CGWB) well data (15 years) for 30000 wells, Ground water Resource map Critical blocks for ground water utilization data has been included. Ground Water Quality data for 22000 wells of CGWB.
- Surface Water Quality data of Central Water Commission sites has been included.
- Reservoir storage data for 91 major reservoirs has been included and being updated on weekly basis.
- Meteorological data of Indian Meteorological department (IMD) for last 100 years.
- River basin atlas of India and Watershed atlas of India has been prepared sub-basin wise. Soft copy of the atlases can be downloaded from publications section of India-WRIS portal.
- An application has been developed using PMP Atlas to calculate PMP value for a desired catchment.
- A Technical Advisory-cum-Monitoring Committee(TAMC) of NHP has been entrusted for redevelopment of India-WRIS. An advanced and more user-friendly portal is being developed with pages constructed in HTML and Java script, without Flex objects. The new portal is expected to be ready by 2020.

The data in the web-portal is arranged in the following 12 major information systems which are further divided into 36 sub-information systems.

Image 1: Major information systems of India-WRIS

WRIS-WIKI is an application developed under this project. Its link is given on the top right corner of the WRIS Homepage. It is a customized version on WIKI framework. The information is available in textual and image format in this module. It provides a means to link non-spatial data with spatial layers. It contains a vast dataset of textual information collected from various sources. It has information on the following topics: India's Water Wealth, River Basins, Rivers in India, Major & Medium Irrigation Projects, Hydro Electric Projects, Multi-Purpose Projects, Inter State Projects, Irrigation Stakeholders of Information System – Ministry/Department of GoI Dealing with Water Related Information& Issues. Image 1: Power Complexes, AIBP CADWM, Evaluation Studies for Irrigation Projects, CWC Hydro-meteorological Sites, Flood Management, CWC National Flood Forecasting Network, River Water Quality Monitoring, CGWB Ground Water Resources, Inland Waterways, Inter Basin Water Transfer Links, Legal Instruments on River in India, Inter State Disputes, Large Dams in India, Water Tourism and Glossary.

Geo-visualization

Geo-visualization is a common window to most of the spatial layers tobe seen altogether so as to get a whole picture of the data collected. It also provides rich set of tools and techniques supporting geo-spatial data analysis through enhanced visualization.

Temporal Analyst

This module helps the user to view access and analyze the temporal data. Trend analysis can be done by visualizing the data for a selected time period and predicting futuristic values for various hydrological and meteorological

Coastal Climate

This module facilitates visualization of storm surge with different combination of climate change scenario (5, 7 and 11%) and return periods (10, 50 & 100 years). Graph and tabular data also helps to visualize climate change scenario at particular location.

Live Telemetry Data

This system provides the information for 466 telemetry stations on real-time basis. The Hourly Water Level data of the last 72 hours is displayed for each station.

Data Download Module

Apart from viewing the available data, the user can download the data as per the requirement. This link allows downloading of GIS layers and associated attributes. Register/Login is necessary for data downloads.

Reservoir Module

Itpresents real time reservoir level and capacity data for 91 major reservoirs monitored by CWC updated on weekly basis. This weekly Reservoir Bulletin is used as an important input by Crop Weather Watch Group (CWWG) constituted by the Ministry of Agriculture.

Surface water bodies

This module facilitates user to upload point data of Water bodies with photographs and others associated attributes into India-WRIS database. The existing waterbody database is available for modification and updation to the authorized user which they can do after validating their authentic credentials.

Hydro-Observation

This sub info system provides information about various hydrological observation parameters as gauge (river water level), discharge (amount of water released from a cross section in the river in a given time period) and sediment (Concentration of solid particles in water) observing stations of CWC.

Ground water resources

This module contains information on aquifers-litholog, ground water level, resources and prospects as obtained from CGWB.

PMKSY

This information system shows the current status of canal network, command area maps of ongoing 99 projects covered under PradhanMantriKrishiSinchayeeYojna (PMKSY). The canal network is updated using satellite data on regular intervals.

Water Resources Project

This sub info system contains a comprehensive database of India's water resources and related structures. A large database related to Dam, Barrage / Weir / Anicut, Lift stations (pump house), Reservoir, Major &Medium Irrigation Projects, Extension Renovation and Modernization (ERM) projects, and Hydro-Electric projects, along with vast associated attributes.

Automatic Report & Map Generation

The portal provides the facility to generate maps and reports as per selected theme and area of interest. The module extracts all information selected by user to generate this information.

Image 2: Major modules and Sub-information Systems of India-WRIS

To maintain and update such a large volume of water resources data at national level a National Water Resources Information Centre (NWIC) has been established in the 12th plan. NWIC will have domain expertise personnel's from the field of water resources, Geo-informatics and Computer systems. The goal of the NWIC is to empower, inform and enrich every citizen with upto date and reliable water data (other than classified data) and information through web based India Water Resources Information System (India-WRIS) on a GIS platform in Public Domain; and to develop value added products and services for all aspects of integrated water resources management serving the nation through research, capacity building, linkages, outreach and better governance in water resources sector.

Annexure-I: Details of GIS layers under India-WRIS are presented in the following table.

S.No	Name of GIS layer
(i)	(ii)
1	Basin, sub basin, catchment, water shed
2	River network
3	Digital Elevation model
4	Administrative boundary like International, state, district & block boundary
5	Village boundary
6	Town/village location and extent
7	Road network
8	Major tourist station
9	Location of major & medium irrigation projects
10	Location of hydroelectric project
11	Location of multipurpose projects
12	Major & medium irrigation command boundary
13	Waterlogged and salt affected area in major & medium command
14	Soil samples of major & medium irrigation project command
15	Canal network
16	Surface water bodies
17	Ground water observation well location & data
18	Litholog data with aquifer data
19	Landuse/land cover
20	Land degradation
21	Wasteland map
22	Snow cover area
23	Flood inundation map

S.No	Name of GIS layer
(i)	(ii)
24	Drought prone area map
25	Inland navigation waterways
26	Inter-basin transfer link as per NWDA
27	Hydro-meteorological (Gauge & Discharge) sites of CWC
28	Meteorological station of IMD & CWC
29	Climate related data
30	Pollution monitoring station/water quality station of CWC

1.18 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 financial assistance of 90% of the cost of irrigation & drinking water component (as per original Guideline) of the project as Central assistance by the Government of India in the form of Central grant 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 was 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, under the scheme of PMKSY, to which AIBP including National Projects has also been made a component, the proportion of Central share from 2016-17 onwards has been reduced to 60% except in case of projects in eight North Eastern States and three Himalayan States which will continue to get 90% of the cost as Central grant.

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 Lakh 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 Lakh Ha. or more would be eligible for inclusion as a National Project subject to :

I. The Command Area Development and Water Management (CAD&WM) works shall be ensured in the entire command area of the ERM project.
II. The CAD&WM works shall be taken up simultaneously with the ERM works so as to facilitate achievement of the benchmark efficiency for water use.
III. The management of command area system by Water User's Association (WUA's) after the ERM works will be necessary. The WUA's may be entrusted with the responsibility for the collection of irrigation service fees and for undertaking annual repairs by retaining a part of the fee collected.
IV. Independent evaluation of the project will be carried out after project implementation and the project should achieve the benchmark water use efficiency in practice as prescribed by Central Water Commission.

The 4th criteria for selection of National Projects was included vide M/o Jal Shakti, D/o WR, RD & GR letter dated 28.09.2012.

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 the Competent Authority, clearance from Expenditure Finance Committee/ Project Investment Board on the recommendation there upon of the High Powered Steering Committee constituted for the purpose of overseeing the entire process of selection and implementation of National Projects 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.

The Government of India initially declared 14 projects as National Projects in February 2008. Later, Cabinet Committee on Infrastructure approved inclusion of Saryu Nahar Pariyojana in the scheme of National Project on 3rd August, 2012. Polavaram Irrigation Project was included under the scheme of National Projects vide Gazette notification dated 01.03.2014.

Five projects, viz Indira Sagar Polavaram Project (Andhra Pradesh), Gosikhurd Irrigation Project (Maharashtra), Shahpurkandi Dam Project (Punjab), Saryu Nahar Pariyojana (Uttar Pradesh) and Teesta Barrage Project (West Bengal) are under execution and have started receiving funds under the scheme of National Projects. Goshikhurd projects have been provided grant amounting to 3350.34 Cr upto 31.03.2019. ShahpurKandi Projects have been provided grant released under AIBP is Rs. 29.85 Cr and under NP is Rs. 26.036 Cr up to March, 2017. Further Central assistance of Rs 61.615Cr has been sanctioned during 2019-20.Teesta Barrage Project started receiving funds under the scheme of National Project during 2010-11 and grant amounting to Rs. 178.20 Cr has been provided for the project till March 2017. Saryu Nahar Pariyojana started receiving funding under the scheme of National Project during 2012-13 and an amount of Rs. 1526.585Cr has been released upto 31.03.2019. The Indira Sagar Polavaram Irrigation Project started receiving funding under the scheme of National Project during 2014-15 and an amount of Rs. 6764.16 Cr has been released upto March 2019. Saryu Nahar Pariyojana (Uttar Pradesh) and Gosikhurd Irrigation Project (Maharashtra) have been included under the 99 Priority project under PMKSY-AIBP.

Lakhwar Multipurpose Project (Uttarakhand) was accepted by Advisory Committee of M/o Jal Shakti, D/o WR, RD & GR in its 116th meeting held in December 2012. The project was considered acceptable for investment for an amount of Rs. 3966.51 Cr by Investment Clearance Committee (under the Chairmanship of Secretary, M/o Jal Shakti, D/oWR, RD & GR) in its meeting held on 24.02.2016. Revised Cost Estimate of Lakhwar Project amounting to Rs**.** 5747.17 Cr (PL July,2018) has been accepted in 141st meeting of Advisory Committee of M/o Jal Shakti, D/o WR, RD & GR held on 11.02.2019.

Ken Betwa link Project Phase-I (Madhya Pradesh) has been accepted by the Advisory Committee of M/o Jal Shakti, D/o WR, RD & GR during the 129th meeting held on 08.07.2016. Project was accepted for investment clearance of Rs. 18057.08 Cr 2015-16 PL on 10.02.2017 by Investment Clearance Committee of M/o Jal Shakti, D/o WR, RD & GR. The DPR of Ken Betwa Link Project Phase-II is under appraisal in CWC/CEA. Further as per the decision taken in the meeting dated 25.09.2017 of Hon'ble Minister (M/o Jal Shakti) with Chief Ministers of Madhya Pradesh and Uttar Pradesh. A draft comprehensive report on Ken Betwa Link project including Daudhan Dam, Lower Orr. Dam, Bina complex MPP, Kotha Barrage, repair/strengthening of Bariyarpur Pickup Weir, Parichha Weir and Barwa Sagar Dam etc. has been prepared by NWDA and forwarded to State Govt. of M.P./UP on 18.10.18. Final report is awaited.

Ujh Multipurpose project (J & K) the project was agreed "In Principle" by the Advisory Committee of M/oJal Shakti, D/o WR, RD & GR in its 131st Meeting held on 17.11.2016 at

New Delhi. However, the issue of large submergence by the project was also discussed. After discussion in detail and deliberation, it was decided that "a team consisting of concerned officers from CWC and other experts shall visit the project site/area and explore the alternate options with reduced submergence/displacement alongwith minimum loss of power and irrigation benefits, so that the potential of east flowing river may be fully utilised, as envisaged in Indus Water Treaty. The team visited the project in March, 2017 and submitted its report on May, 2017 with suggestion for reduction in Full Reservoir Level of Dam by 6m. The Revised DPR of the project as per the recommendations of the report has been accepted in 139th meeting of Advisory Committee of M/o Jal Shakti, D/o WR, RD & GR held on 07.01.2019 for estimated cost of Rs.5850 Cr (PL July, 2017).

Renuka Dam Project (Himachal Pradesh) has been accepted by the Advisory Committee of M/o Jal Shakti, D/o WR, RD & GR in its 132nd Meeting held on 06.03.2017 at New Delhi. The Revised Cost Estimate of Renuka Project is under appraisal.

Four projects, viz Kishau MPP (HP and UK), Noa-Dihing Dam Project (Arunachal Pradesh), Kulsi Dam Project (Assam) and Bursar Project (J & K) are under appraisal in CWC/CEA.

Two projects, namely, Upper Siang Project (Arunachal Pradesh) and Gyspa Project (Himachal Pradesh) are at DPR preparation stage. Remaining one Project, namely, 2nd Ravi Beas Link Project (Punjab) is at conceptual stage.

Status of 16 National Projects is presented in Appendix table no.-1.18.

High Powered Steering Committee

The Union Cabinet in its meeting held on 7th Feb, 2008, constituted a "High Powered Steering Committee for Implementation of the Proposals of National Projects" with the Secretary (M/o Jal Shakti, D/o WR, RD & GR) as Chairman and Chief Engineer (PPO), CWC as Secretary. The terms of reference of the Committee are as under:

I. To recommend implementation strategies for National Projects.
II. To monitor implementation of National Projects.
III. To examine the proposal for inclusion of new projects as National Projects and make appropriate recommendation to the Government.

Eleven meetings of High Powered Steering Committee for implementation of National projects have been held so far. The last meeting was held on 11th June, 2018.

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Appendix

Table 1.1: Per Capita Average Annual Availability of Water in India during 2025 & 2050

Sl No.	River Basin	Average Annual Water Resources Potential (BCM)$	Estimated Population (Million)#		Estimated per Capita Average Water Availability (cum)	
			2025	2050	2025	2050
1	2	3	4	5	6	7
1	Indus (up to Border)	45.53	69.2	81.41	657.95	559.27
2	Ganga-Brahmputra-Meghna					
	a) Ganga	509.52	593.04	697.69	859.17	730.30
	b) Brahmaputra	527.28	48.06	56.54	10971.29	9325.79
	c) Barak & Others	86.67	10.24	12.05	8463.87	7192.53
3	Godavari	117.74	89.18	104.92	1320.25	1122.19
4	Krishna	89.04	100.41	118.13	886.76	753.75
5	Cauvery	27.67	48.39	56.93	571.81	486.04
6	Subernarekha	15.05	15.52	18.26	969.72	824.21
7	Brahamani & Baitarni	35.65	16.18	19.04	2203.34	1872.37
8	Mahanadi	73	43.93	51.68	1661.73	1412.54
9	Pennar	11.02	16.02	18.85	687.89	584.62
10	Mahi	14.96	17.34	20.4	862.75	733.33
11	Sabarmati	12.96	17.34	20.4	747.40	635.29
12	Narmada	58.21	24.28	28.56	2397.45	2038.17
13	Tapi	26.24	24.44	28.75	1073.65	912.70
14	West Flowing Rivers From Tapi to Tadri	118.35	42.61	50.13	2777.52	2360.86
15	West Flowing Rivers From Tadri to Kanyakumari	119.06	53.84	63.34	2211.37	1879.70
16	East Flowing Rivers Between Mahanadi & Pennar	26.41	38.97	45.85	677.70	576.01
17	East Flowing Rivers Between Pennar And Kanyakumari	26.74	74.32	87.43	359.80	305.84
18	West Flowing Rivers Of Kutch and Saurashtra including Luni	26.93	36.5	42.94	737.81	627.15
19	Area of Inland drainage in Rajasthan		11.73	13.79	-	-
20	Minor River Draining into Myanmar (Burma) & Bangladesh	31.17	2.48	2.91	12568.55	10711.34
	Total	**1999.2**	**1394.02**	**1640**	**1434.13**	**1219.02**

Source : B.P. Directorate, CWC.

$: Reassessment of Water Availability in India using Space Inputs, 2019, CWC.

: Report of the Standing Sub-Committee for assessment of availability and requirement of water for diverse uses in the country, August 2000

Table 1.2 : Basin-wise Storage in India

Sl. No	Basin Code	Basin Name	Average Annual Flow (BCM)	Total Live Storage Capacity (BCM)			
				Completed Projects	Under Construction Projects	Total	% of Average Annual Flow
1	2	3	4	5	6	7	8
1	1	Indus	45.53	16.223	0.100	16.323	35.85
2	2a	Ganga	509.52	48.677	7.649	56.326	11.05
3	2b	Brahamputra	527.28	1.718	0.795	2.513	0.48
4	2c	Barak & Others	86.67	0.719	9.172	9.891	11.41
5	3	Godawari	117.74	35.040	8.412	43.452	36.90
6	4	Krishna	89.04	50.651	4.156	54.807	61.55
7	5	Cauvery	27.67	9.083	0.015	9.098	32.88
8	6	Subernrekha	15.05	0.309	2.150	2.459	16.34
9	7	Brahmini & Baitrani	35.65	5.554	0.703	6.257	17.55
10	8	Mahanadi	73.00	13.066	1.461	14.527	19.90
11	9	Pennar	11.02	2.938	2.141	5.079	46.09
12	10	Mahi	14.96	5.017	0.150	5.167	34.54
13	11	Sabarmati	12.96	1.577	0.109	1.686	13.01
14	12	Narmada	58.21	21.816	2.641	24.457	42.01
15	13	Tapi	26.24	9.137	1.558	10.695	40.76
16	14	West Flowing Rivers from Tapi to Tadri	118.35	14.668	2.430	17.098	14.45
17	15	West Flowing Rivers from Tadri to Kanyakumari	119.06	11.023	1.416	12.439	10.45
18	16	East Flowing Rivers between Mahanadi & Pennar	26.41	2.676	1.181	3.857	14.60
19	17	East Flowing Rivers between Pennar & Kanyakumari	26.74	1.441	0.015	1.456	5.45
20	18	West Flowing Rivers of Saurashtra and Kutch including Luni	26.93	6.336	0.511	6.847	25.43
21	19	Area of Inland drainage in Rajasthan	0.00	0.000	0.000	0.000	0.00
22	20	Minor Rivers Draining into Myanmar and Bangladesh	31.17	0.14358	0.000	0.14358	0.46
23	20 a	Area of North Ladakh not draining into Indus	0.00	0.000	0.000	0.000	0.00
		Total	**1999.20**	**257.812**	**46.765**	**304.577**	

Source : Water Management Directorate, CWC

Table 1.3 : State-wise Live Storage Capacity

Sl. No	State / UT	Total Live Storage capacity (BCM)
1	2	3
1	**Andaman & Nicobar Islands**	0.019
2	**Arunachal Pradesh**	0.000
3	**Andhra Pradesh (Erstwhile)**	28.716
4	**Assam**	0.012
5	**Bihar**	2.613
6	**Chhattisgarh**	6.736
7	**Goa**	0.290
8	**Gujarat***	22.553
9	**Himachal Pradesh**	13.792
10	**Jammu & Kashmir**	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	**Odisha**	24.032
20	**Punjab**	2.402
21	**Rajasthan**	9.708
22	**Sikkim**	0.007
23	**Tamil Nadu**	7.859
24	**Tripura**	0.312
25	**Uttrakhand**	5.670
26	**Uttar Pradesh**	14.263
27	**West Bengal**	2.027
28	**Mizoram**	0.000
	Total	**257.812**

Source : Water Management Directorate, CWC

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.

Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 07.06.2018			As per Bulleting dated 14.06.2018			As per Bulleting dated 21.06.2018			As per Bulleting dated 28.06.2018		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*1	Srisailam	(AP/TG)	8.288	0.720	0.433	0.882	0.723	0.456	0.858	0.724	0.460	0.859	0.725	0.465	0.845
*2	Nagarjuna Sagar	(AP/TG)	6.841	0.097	0.000	1.187	0.072	0.000	1.213	0.068	0.000	1.232	0.063	0.000	1.239
3	Somasila	(A.P)	1.994	0.348	0.218	0.656	0.339	0.213	0.577	0.336	0.212	0.550	0.334	0.211	0.519
4	Sriramsagar	(TG)	2.300	0.184	0.252	0.251	0.263	0.252	0.246	0.290	0.252	0.244	0.288	0.261	0.243
5	Lower Manair	(TG)	0.621	0.102	0.211	0.143	0.101	0.212	0.142	0.100	0.211	0.142	0.098	0.211	0.141
6	Tenughat	(JHAR)	0.821	0.303	0.355	0.262	0.274	0.325	0.259	0.238	0.267	0.287	0.240	0.250	0.283
7	Maithon	(JHAR)	0.471	0.118	0.107	0.121	0.120	0.091	0.108	0.119	0.081	0.126	0.139	0.077	0.129
*8	Panchet Hill	(JHAR)	0.184	0.036	0.084	0.070	0.086	0.088	0.060	0.113	0.060	0.094	0.118	0.035	0.089
9	Konar	(JHAR)	0.176	0.033	0.031	0.054	0.032	0.034	0.050	0.030	0.031	0.055	0.030	0.033	0.056
10	Tilaiya	(JHAR)	0.142	0.008	0.034	0.025	0.009	0.034	0.024	0.010	0.034	0.028	0.010	0.033	0.030
*11	Ukai	(GUJ)	6.615	0.697	1.926	1.446	0.626	1.858	1.371	0.593	1.847	1.361	0.567	1.819	1.356
12	Sabarmati(Dharoi)	(GUJ)	0.735	0.103	0.165	0.125	0.096	0.147	0.114	0.092	0.138	0.111	0.089	0.137	0.117
*13	Kadana	(GUJ)	1.472	0.612	0.773	0.687	0.574	0.765	0.665	0.567	0.760	0.655	0.533	0.762	0.643
14	Shetrunji	(GUJ)	0.300	0.042	0.042	0.027	0.038	0.040	0.024	0.036	0.039	0.027	0.035	0.038	0.051
15	Bhadar	(GUJ)	0.188	0.027	0.001	0.025	0.023	0.000	0.016	0.022	0.000	0.020	0.020	0.000	0.033
16	Damanaganga	(GUJ)	0.502	0.100	0.055	0.057	0.085	0.051	0.049	0.071	0.058	0.054	0.127	0.119	0.069
17	Dantiwada	(GUJ)	0.399	0.066	0.002	0.004	0.064	0.002	0.006	0.064	0.002	0.006	0.063	0.002	0.005
18	Panam	(GUJ)	0.697	0.247	0.212	0.262	0.239	0.212	0.260	0.239	0.212	0.259	0.245	0.212	0.261
*19	Sardar Sarovar	(GUJ)	5.760	0.000	1.071	0.666	0.000	1.115	0.618	0.000	0.948	0.577	0.000	0.601	0.435
20	Karjan	(GUJ)	0.523	0.192	0.125	0.160	0.179	0.127	0.153	0.170	0.127	0.150	0.174	0.175	0.152
*21	Gobind Sagar(Bhakra)	(H.P)	6.229	0.383	1.521	1.513	0.606	1.713	1.651	0.590	1.632	1.759	0.351	1.640	1.876
*22	Pong Dam	(H.P)	6.157	0.539	0.790	1.236	0.571	0.717	1.282	0.486	0.588	1.298	0.382	0.674	1.329
23	Krishnaraja Sagra	(KAR)	1.163	0.142	0.056	0.116	0.272	0.053	0.116	0.606	0.057	0.132	0.643	0.056	0.190
*24	Tungabhadra	(KAR)	3.276	0.126	0.026	0.359	0.219	0.026	0.423	0.710	0.027	0.499	0.807	0.036	0.686
25	Ghataprabha	(KAR)	1.391	0.120	0.043	0.048	0.125	0.040	0.047	0.139	0.043	0.085	0.163	0.063	0.113
26	Bhadra	(KAR)	1.785	0.117	0.007	0.361	0.343	0.031	0.382	0.490	0.091	0.429	0.580	0.163	0.497
27	Linganamakki	(KAR)	4.294	0.568	0.365	0.590	0.849	0.434	0.552	0.965	0.457	0.582	1.127	0.560	0.620
28	Narayanpur	(KAR)	0.863	0.267	0.123	0.243	0.380	0.119	0.270	0.376	0.134	0.286	0.371	0.138	0.291
29	Malaprabha(Renuka)	(KAR)	0.972	0.049	0.019	0.053	0.060	0.016	0.051	0.061	0.012	0.059	0.063	0.008	0.077
30	Kabini(Sancherla Tank)	(KAR)	0.444	0.086	0.000	0.030	0.266	0.000	0.029	0.414	0.007	0.058	0.385	0.031	0.111
31	Hemavathy	(KAR)	0.927	0.142	0.036	0.071	0.337	0.039	0.082	0.526	0.060	0.121	0.561	0.072	0.179
32	Harangi	(KAR)	0.220	0.007	0.035	0.035	0.064	0.042	0.038	0.086	0.050	0.051	0.096	0.062	0.078
33	Supa	(KAR)	4.120	1.348	1.126	0.823	1.387	1.118	0.796	1.363	1.099	0.839	1.404	1.148	0.837

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 07.06.2018			As per Bulleting dated 14.06.2018			As per Bulleting dated 21.06.2018			As per Bulleting dated 28.06.2018		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
34	Vanivilas Sagar	(KAR)	0.802	0.008	0.017	0.096	0.008	0.016	0.096	0.007	0.016	0.095	0.006	0.015	0.094
*35	Almatti	(KAR)	3.105	0.275	0.000	0.188	0.266	0.000	0.203	0.285	0.000	0.348	0.341	0.000	0.526
*36	Gerusoppa	(KAR)	0.130	0.108	0.101	0.108	0.103	0.094	0.102	0.091	0.098	0.099	0.100	0.112	0.101
37	Kallada(Parappar)	(KRL)	0.507	0.310	0.065	0.108	0.334	0.077	0.119	0.363	0.083	0.131	0.374	0.087	0.143
*38	Idamalayar	(KRL)	1.018	0.129	0.170	0.150	0.206	0.170	0.148	0.321	0.148	0.169	0.376	0.164	0.203
*39	Idukki	(KRL)	1.460	0.361	0.159	0.253	0.508	0.159	0.257	0.598	0.151	0.286	0.649	0.191	0.325
*40	Kakki	(KRL)	0.447	0.114	0.062	0.096	0.173	0.060	0.093	0.214	0.054	0.102	0.222	0.066	0.118
*41	Periyar	(KRL)	0.173	0.040	0.006	0.046	0.109	0.007	0.050	0.101	0.007	0.054	0.097	0.013	0.062
42	Malampuzha	(KRL)	0.224	0.035	0.018	0.045	0.074	0.019	0.048	0.089	0.020	0.056	0.097	0.029	0.062
*43	Gandhi Sagar	(M.P.)	6.827	1.147	3.789	1.204	1.133	3.734	1.168	1.122	3.699	1.485	1.114	3.637	1.474
44	Tawa	(M.P.)	1.944	0.173	0.436	0.379	0.179	0.434	0.369	0.181	0.431	0.389	0.188	0.469	0.443
*45	Bargi	(M.P.)	3.180	1.360	0.765	0.521	1.318	0.723	0.463	1.278	0.675	0.415	1.238	0.618	0.438
*46	Bansagar	(M.P.)	5.166	2.194	2.672	1.677	2.171	2.635	1.624	2.171	2.538	1.581	2.159	2.443	1.597
*47	Indira Sagar	(M.P.)	9.745	1.812	1.768	0.981	1.681	1.484	0.823	1.598	1.298	0.708	1.558	1.105	0.677
48	Barna	(M.P.)	0.456	0.022	0.126	0.068	0.020	0.125	0.067	0.019	0.124	0.068	0.019	0.124	0.072
*49	Minimata Bangoi	(CHH.)	3.046	1.548	1.757	1.412	1.540	1.729	1.424	1.539	1.722	1.452	1.537	1.727	1.491
50	Mahanadi	(CHH.)	0.767	0.206	0.092	0.167	0.208	0.089	0.164	0.206	0.092	0.180	0.200	0.097	0.181
51	Jayakwadi(Paithon)	(MAH)	2.171	0.581	0.417	0.228	0.502	0.414	0.196	0.499	0.415	0.194	0.467	0.403	0.170
*52	Koyana	(MAH)	2.652	0.642	0.208	0.587	0.623	0.192	0.566	0.599	0.172	0.604	0.663	0.478	0.720
53	Bhima(Ujjani)	(MAH)	1.517	0.000	0.000	0.037	0.000	0.000	0.042	0.000	0.000	0.050	0.000	0.000	0.058
54	Isapur	(MAH)	0.965	0.000	0.034	0.191	0.000	0.030	0.182	0.000	0.030	0.196	0.017	0.045	0.202
55	Mula	(MAH)	0.609	0.021	0.011	0.039	0.009	0.010	0.030	0.008	0.014	0.026	0.007	0.012	0.027
56	Yeldari	(MAH)	0.809	0.000	0.004	0.069	0.000	0.021	0.068	0.000	0.023	0.068	0.000	0.023	0.066
57	Girna	(MAH)	0.524	0.066	0.129	0.049	0.051	0.138	0.042	0.050	0.138	0.041	0.052	0.137	0.040
58	Khadakvasla	(MAH)	0.056	0.026	0.024	0.018	0.013	0.019	0.014	0.008	0.007	0.011	0.010	0.007	0.015
*59	Upper Vaitarna	(MAH.)	0.331	0.088	0.089	0.096	0.087	0.079	0.088	0.088	0.069	0.084	0.102	0.076	0.086
60	Upper Tapi	(MAH.)	0.255	0.000	0.019	0.040	0.000	0.014	0.027	0.000	0.025	0.055	0.007	0.031	0.051
*61	Pench (Totaladoh)	(MAH.)	1.091	0.074	0.050	0.209	0.067	0.044	0.192	0.061	0.040	0.183	0.053	0.033	0.182
62	Upper Wardha	(MAH.)	0.564	0.195	0.202	0.166	0.195	0.197	0.162	0.192	0.194	0.166	0.194	0.195	0.178
63	Bhatsa	(MAH.)	0.942	0.319	0.337	0.289	0.304	0.327	0.271	0.291	0.312	0.273	0.336	0.361	0.291
64	Dhom	(MAH.)	0.331	0.054	0.045	0.064	0.053	0.036	0.064	0.051	0.034	0.065	0.052	0.035	0.069
65	Dudhganga	(MAH.)	0.664	0.138	0.097	0.133	0.143	0.097	0.135	0.146	0.093	0.140	0.181	0.123	0.167
66	Manikdoh (Kukadi)	(MAH.)	0.288	0.015	0.008	0.007	0.015	0.008	0.008	0.014	0.008	0.009	0.020	0.014	0.012

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 07.06.2018			As per Bulleting dated 14.06.2018			As per Bulleting dated 21.06.2018			As per Bulleting dated 28.06.2018		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
67	Bhandardara	(MAH.)	0.304	0.082	0.041	0.034	0.084	0.040	0.027	0.085	0.041	0.028	0.099	0.053	0.038
*68	Hirakud	(ODI)	5.378	1.182	1.016	0.875	1.104	0.814	0.736	0.972	0.625	0.574	0.807	0.567	0.559
*69	Balimela	(ODI)	2.676	0.197	0.599	0.442	0.210	0.523	0.482	0.192	0.441	0.450	0.170	0.392	0.377
70	Salanadi	(ODI)	0.558	0.233	0.161	0.136	0.240	0.160	0.134	0.240	0.160	0.145	0.244	0.162	0.153
*71	Rengali	(ODI)	3.432	0.532	0.841	0.350	0.552	0.552	0.266	0.273	0.206	0.207	0.200	0.118	0.423
*72	Machkund(Jalput)	(ODI)	0.893	0.184	0.126	0.274	0.135	0.135	0.272	0.146	0.147	0.261	0.075	0.154	0.276
*73	Upper Kolab	(ODI)	0.935	0.148	0.231	0.150	0.125	0.214	0.125	0.095	0.203	0.123	0.073	0.203	0.119
*74	Upper Indravati	(ODI)	1.456	0.223	0.316	0.236	0.181	0.292	0.215	0.142	0.270	0.226	0.126	0.275	0.236
*75	Thein	(PUN)	2.344	0.621	1.386	1.072	0.719	1.416	1.076	0.768	1.318	1.095	0.695	1.294	1.071
*76	Mahi Bajaj Sagar	(RAJ)	1.711	0.542	0.563	0.388	0.528	0.554	0.388	0.525	0.554	0.390	0.522	0.554	0.367
77	Jhakam	(RAJ)	0.132	0.038	0.037	0.022	0.037	0.036	0.021	0.037	0.036	0.021	0.038	0.036	0.019
*78	Rana Pratap Sagar	(RAJ)	1.436	0.449	0.375	0.527	0.440	0.397	0.547	0.425	0.393	0.525	0.423	0.437	0.577
79	Lower Bhawani	(TN)	0.792	0.159	0.072	0.202	0.267	0.068	0.205	0.360	0.068	0.223	0.386	0.064	0.250
*80	Mettur(Stanley)	(TN)	2.647	0.325	0.153	0.943	0.341	0.145	0.944	0.510	0.137	0.893	0.629	0.131	0.857
81	Vaigai	(TN)	0.172	0.020	0.007	0.036	0.022	0.005	0.033	0.039	0.004	0.029	0.052	0.003	0.028
82	Parambikulam	(TN)	0.380	0.029	0.021	0.102	0.053	0.022	0.101	0.081	0.023	0.102	0.100	0.029	0.110
83	Aliyar	(TN)	0.095	0.000	0.019	0.041	0.002	0.017	0.039	0.014	0.013	0.038	0.016	0.012	0.038
*84	Sholayar	(TN)	0.143	0.005	0.000	0.010	0.080	0.002	0.016	0.106	0.002	0.030	0.121	0.015	0.048
85	Gumti	(TRP)	0.312	0.232	0.191	0.073	0.287	0.166	0.076	0.312	0.215	0.079	0.312	0.215	0.100
86	Matatila	(UP)	0.707	0.070	0.064	0.182	0.067	0.062	0.165	0.062	0.059	0.175	0.058	0.057	0.217
*87	Rihand	(UP)	5.649	0.634	1.665	0.738	0.616	1.541	0.674	0.634	1.375	0.621	0.546	1.199	0.620
*88	Ramganga	(UTT)	2.196	0.197	0.000	0.553	0.184	0.000	0.554	0.176	0.000	0.521	0.165	0.000	0.525
*89	Tehri	(UTT)	2.615	0.057	0.030	0.081	0.028	0.013	0.050	0.006	0.042	0.149	0.051	0.103	0.239
90	Mayurakshi	(WB)	0.480	0.171	0.110	0.085	0.170	0.112	0.092	0.162	0.122	0.101	0.155	0.125	0.112
91	Kangsabati	(WB)	0.914	0.422	0.233	0.154	0.422	0.233	0.155	0.422	0.239	0.214	0.422	0.256	0.237
	Reservoirs		161.993	26.742	32.178	30.015	28.409	31.070	29.230	29.668	29.419	30.038	29.752	29.416	31.517
	Percentage			16.508	19.864	18.529	17.537	19.180	18.044	18.314	18.161	18.543	18.366	18.159	19.456

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 05.07.2018			As per Bulleting dated 12.07.2018			As per Bulleting dated 19.07.2018			As per Bulleting dated 26.07.2018		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*1	Srisailam	(AP/TG)	8.288	0.725	0.475	0.848	0.727	0.483	0.877	0.728	0.442	0.886	3.438	0.455	1.353
*2	Nagarjuna Sagar	(AP/TG)	6.841	0.053	0.000	1.221	0.048	0.000	1.179	0.048	0.000	1.141	0.048	0.000	1.078
3	Somasila	(A.P)	1.994	0.329	0.210	0.493	0.322	0.210	0.468	0.317	0.209	0.456	0.313	0.206	0.446
4	Sriramsagar	(TG)	2.300	0.309	0.265	0.266	0.349	0.265	0.344	0.391	0.265	0.479	0.447	0.269	0.636
5	Lower Manair	(TG)	0.621	0.097	0.210	0.139	0.099	0.211	0.138	0.098	0.211	0.138	0.098	0.210	0.159
6	Tenughat	(JHAR)	0.821	0.257	0.314	0.299	0.266	0.340	0.316	0.263	0.328	0.330	0.358	0.512	0.346
7	Maithon	(JHAR)	0.471	0.163	0.075	0.162	0.169	0.083	0.186	0.162	0.097	0.215	0.141	0.347	0.253
*8	Panchet Hill	(JHAR)	0.184	0.110	0.039	0.094	0.097	0.056	0.103	0.098	0.155	0.129	0.084	0.184	0.144
9	Konar	(JHAR)	0.176	0.039	0.052	0.062	0.040	0.055	0.070	0.036	0.053	0.077	0.035	0.147	0.094
10	Tilaiya	(JHAR)	0.142	0.010	0.048	0.037	0.010	0.058	0.046	0.009	0.060	0.051	0.021	0.119	0.061
*11	Ukai	(GUJ)	6.615	0.557	1.825	1.365	0.617	1.800	1.484	1.080	1.763	1.774	1.223	2.102	2.277
12	Sabarmati(Dharoi)	(GUJ)	0.735	0.111	0.140	0.113	0.120	0.140	0.120	0.127	0.194	0.143	0.167	0.592	0.196
*13	Kadana	(GUJ)	1.472	0.638	0.773	0.617	0.621	0.723	0.608	0.612	0.731	0.634	0.663	0.959	0.686
14	Shetrunji	(GUJ)	0.300	0.034	0.038	0.056	0.037	0.037	0.062	0.133	0.037	0.083	0.136	0.131	0.108
15	Bhadar	(GUJ)	0.188	0.019	0.000	0.035	0.017	0.000	0.036	0.095	0.004	0.038	0.097	0.084	0.063
16	Damanaganga	(GUJ)	0.502	0.162	0.154	0.086	0.166	0.178	0.109	0.168	0.154	0.137	0.178	0.173	0.175
17	Dantiwada	(GUJ)	0.399	0.063	0.018	0.007	0.063	0.018	0.007	0.064	0.060	0.017	0.080	0.335	0.048
18	Panam	(GUJ)	0.697	0.247	0.214	0.262	0.253	0.216	0.273	0.267	0.221	0.281	0.351	0.338	0.302
*19	Sardar Sarovar	(GUJ)	5.760	0.000	0.588	0.495	0.000	0.682	0.535	0.063	0.851	0.676	0.096	1.108	0.906
20	Karjan	(GUJ)	0.523	0.175	0.222	0.158	0.187	0.235	0.167	0.217	0.269	0.179	0.307	0.342	0.222
*21	Gobind Sagar(Bhakra)	(H.P)	6.229	0.459	1.883	2.099	0.530	2.185	2.463	0.790	2.612	2.779	1.166	3.148	3.142
*22	Pong Dam	(H.P)	6.157	0.550	1.065	1.440	0.457	1.286	1.667	0.622	1.990	1.967	0.921	2.578	2.308
23	Krishnaraja Sagra	(KAR)	1.163	0.744	0.131	0.280	0.931	0.165	0.363	1.163	0.159	0.456	1.163	0.312	0.620
*24	Tungabhadra	(KAR)	3.276	1.152	0.217	0.784	1.539	0.381	0.920	2.643	0.446	1.159	2.646	0.927	1.632
25	Ghataprabha	(KAR)	1.391	0.237	0.218	0.227	0.484	0.300	0.294	0.979	0.400	0.436	1.238	0.736	0.655
26	Bhadra	(KAR)	1.785	0.708	0.239	0.615	1.030	0.279	0.691	1.474	0.341	0.866	1.729	0.521	0.997
27	Linganamakki	(KAR)	4.294	1.291	0.803	0.979	1.845	0.881	1.058	2.588	1.006	1.369	3.101	1.480	1.776
28	Narayanpur	(KAR)	0.863	0.367	0.135	0.296	0.363	0.133	0.315	0.613	0.131	0.399	0.598	0.654	0.536
29	Malaprabha(Renuka)	(KAR)	0.972	0.085	0.038	0.103	0.136	0.056	0.116	0.285	0.078	0.162	0.411	0.216	0.251
30	Kabini(Sancherla Tank)	(KAR)	0.444	0.414	0.125	0.157	0.411	0.141	0.186	0.408	0.181	0.220	0.423	0.276	0.251
31	Hemavathy	(KAR)	0.927	0.668	0.128	0.253	0.772	0.161	0.316	0.927	0.202	0.439	0.927	0.411	0.574
32	Harangi	(KAR)	0.220	0.161	0.078	0.103	0.214	0.087	0.123	0.217	0.120	0.161	0.202	0.220	0.180
33	Supa	(KAR)	4.120	1.469	1.291	0.919	1.867	1.342	0.992	2.397	1.486	1.166	2.761	1.950	1.476

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 05.07.2018			As per Bulleting dated 12.07.2018			As per Bulleting dated 19.07.2018			As per Bulleting dated 26.07.2018		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
34	Vanivilas Sagar	(KAR)	0.802	0.006	0.019	0.094	0.005	0.014	0.092	0.005	0.013	0.092	0.005	0.013	0.091
*35	Almatti	(KAR)	3.105	0.739	0.514	0.728	1.570	0.875	0.998	2.739	1.181	1.578	2.748	2.504	2.064
*36	Gerusoppa	(KAR)	0.130	0.100	0.095	0.100	0.112	0.085	0.100	0.105	0.100	0.103	0.103	0.094	0.105
37	Kallada(Parappar)	(KRL)	0.507	0.371	0.132	0.164	0.371	0.139	0.178	0.456	0.144	0.203	0.461	0.148	0.227
*38	Idamalayar	(KRL)	1.018	0.433	0.215	0.244	0.509	0.227	0.274	0.752	0.246	0.341	0.899	0.298	0.408
*39	Idukki	(KRL)	1.460	0.707	0.281	0.375	0.773	0.296	0.406	1.100	0.307	0.478	1.245	0.325	0.547
*40	Kakki	(KRL)	0.447	0.227	0.097	0.138	0.242	0.099	0.149	0.334	0.098	0.175	0.387	0.102	0.204
*41	Periyar	(KRL)	0.173	0.083	0.022	0.065	0.080	0.020	0.064	0.143	0.017	0.071	0.156	0.018	0.077
42	Malampuzha	(KRL)	0.224	0.102	0.034	0.070	0.137	0.036	0.077	0.176	0.041	0.090	0.200	0.049	0.102
*43	Gandhi Sagar	(M.P.)	6.827	1.110	3.597	1.501	1.110	3.516	1.552	1.399	3.534	1.641	1.505	3.657	2.134
44	Tawa	(M.P.)	1.944	0.270	0.507	0.518	0.317	0.531	0.716	0.619	0.601	0.774	0.783	0.807	1.102
*45	Bargi	(M.P.)	3.180	1.254	0.641	0.548	1.318	0.635	0.734	1.750	0.901	0.957	2.436	1.326	1.351
*46	Bansagar	(M.P.)	5.166	2.174	1.864	1.491	2.165	2.478	1.736	2.238	2.727	1.868	2.380	3.052	2.165
*47	Indira Sagar	(M.P.)	9.745	1.521	0.931	0.831	1.828	0.810	1.208	2.201	0.877	1.847	2.496	1.852	2.908
48	Barna	(M.P.)	0.456	0.019	0.125	0.085	0.064	0.125	0.126	0.118	0.136	0.145	0.144	0.140	0.193
*49	Minimata Bangoi	(CHH.)	3.046	1.628	1.800	1.507	1.648	1.838	1.581	1.892	1.860	1.651	2.102	2.014	1.775
50	Mahanadi	(CHH.)	0.767	0.197	0.125	0.194	0.200	0.157	0.209	0.200	0.157	0.209	0.246	0.319	0.340
51	Jayakwadi(Paithon)	(MAH)	2.171	0.444	0.391	0.168	0.419	0.379	0.164	0.458	0.486	0.175	0.664	0.677	0.194
*52	Koyana	(MAH)	2.652	0.757	0.781	0.815	1.266	0.936	0.970	1.495	0.936	1.034	2.216	2.011	1.622
53	Bhima(Ujjani)	(MAH)	1.517	0.000	0.000	0.059	0.000	0.000	0.058	0.095	0.000	0.069	0.452	0.320	0.193
54	Isapur	(MAH)	0.965	0.049	0.048	0.220	0.098	0.048	0.238	0.263	0.051	0.262	0.297	0.058	0.300
55	Mula	(MAH)	0.609	0.008	0.057	0.036	0.064	0.088	0.062	0.189	0.179	0.106	0.288	0.318	0.180
56	Yeldari	(MAH)	0.809	0.000	0.024	0.072	0.000	0.025	0.076	0.000	0.026	0.078	0.000	0.027	0.103
57	Girna	(MAH)	0.524	0.052	0.137	0.040	0.051	0.136	0.040	0.061	0.151	0.041	0.131	0.198	0.046
58	Khadakvasla	(MAH)	0.056	0.020	0.011	0.018	0.030	0.016	0.021	0.056	0.030	0.028	0.056	0.056	0.038
*59	Upper Vaitarna	(MAH.)	0.331	0.113	0.135	0.096	0.149	0.145	0.109	0.250	0.215	0.139	0.259	0.276	0.176
60	Upper Tapi	(MAH.)	0.255	0.036	0.015	0.069	0.046	0.015	0.071	0.047	0.016	0.076	0.052	0.004	0.081
*61	Pench (Totaladoh)	(MAH.)	1.091	0.046	0.051	0.199	0.105	0.059	0.249	0.167	0.063	0.309	0.205	0.109	0.400
62	Upper Wardha	(MAH.)	0.564	0.196	0.198	0.189	0.222	0.196	0.206	0.242	0.201	0.240	0.254	0.237	0.282
63	Bhatsa	(MAH.)	0.942	0.357	0.481	0.323	0.448	0.518	0.371	0.684	0.674	0.441	0.771	0.796	0.532
64	Dhom	(MAH.)	0.331	0.053	0.051	0.075	0.090	0.063	0.085	0.183	0.096	0.108	0.303	0.165	0.151
65	Dudhganga	(MAH.)	0.664	0.216	0.206	0.202	0.338	0.249	0.243	0.549	0.319	0.314	0.584	0.478	0.403
66	Manikdoh (Kukadi)	(MAH.)	0.288	0.024	0.041	0.017	0.035	0.051	0.025	0.091	0.100	0.040	0.114	0.138	0.063

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 05.07.2018			As per Bulleting dated 12.07.2018			As per Bulleting dated 19.07.2018			As per Bulleting dated 26.07.2018		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
67	Bhandardara	(MAH.)	0.304	0.098	0.116	0.057	0.122	0.134	0.082	0.235	0.196	0.111	0.254	0.289	0.163
*68	Hirakud	(ODI)	5.378	0.692	0.562	0.548	0.574	0.797	0.763	1.076	0.960	1.143	1.934	1.457	1.736
*69	Balimela	(ODI)	2.676	0.179	0.596	0.530	0.224	0.599	0.366	0.441	0.666	0.352	0.910	0.858	0.521
70	Salanadi	(ODI)	0.558	0.250	0.163	0.155	0.254	0.160	0.149	0.257	0.162	0.149	0.558	0.195	0.148
*71	Rengali	(ODI)	3.432	0.253	0.094	0.320	0.324	0.128	0.376	0.433	0.295	0.509	0.924	1.581	0.906
*72	Machkund(Jalput)	(ODI)	0.893	0.122	0.171	0.261	0.114	0.220	0.277	0.134	0.281	0.279	0.383	0.378	0.356
*73	Upper Kolab	(ODI)	0.935	0.072	0.208	0.139	0.084	0.204	0.141	0.154	0.247	0.123	0.295	0.300	0.178
*74	Upper Indravati	(ODI)	1.456	0.145	0.260	0.239	0.174	0.232	0.239	0.296	0.419	0.293	0.589	0.577	0.402
*75	Thein	(PUN)	2.344	0.892	1.446	1.073	0.915	1.446	1.159	0.964	1.721	1.147	1.013	1.841	1.170
*76	Mahi Bajaj Sagar	(RAJ)	1.711	0.624	0.550	0.378	0.674	0.550	0.370	0.759	0.698	0.503	0.891	1.071	0.697
77	Jhakam	(RAJ)	0.132	0.041	0.037	0.022	0.043	0.037	0.019	0.046	0.047	0.030	0.049	0.081	0.044
*78	Rana Pratap Sagar	(RAJ)	1.436	0.429	0.472	0.565	0.452	0.526	0.606	0.481	0.605	0.652	0.617	0.649	0.690
79	Lower Bhawani	(TN)	0.792	0.412	0.080	0.268	0.463	0.077	0.276	0.668	0.081	0.309	0.731	0.130	0.341
*80	Mettur(Stanley)	(TN)	2.647	0.755	0.121	0.866	0.888	0.131	0.867	2.181	0.165	0.911	2.647	0.191	1.059
81	Vaigai	(TN)	0.172	0.053	0.007	0.029	0.050	0.009	0.031	0.053	0.010	0.032	0.071	0.011	0.035
82	Parambikulam	(TN)	0.380	0.124	0.043	0.129	0.154	0.051	0.143	0.316	0.064	0.171	0.374	0.084	0.201
83	Aliyar	(TN)	0.095	0.026	0.012	0.039	0.028	0.010	0.039	0.078	0.010	0.044	0.088	0.010	0.051
*84	Sholayar	(TN)	0.143	0.130	0.032	0.059	0.136	0.022	0.065	0.136	0.021	0.082	0.134	0.025	0.093
85	Gumti	(TRP)	0.312	0.308	0.224	0.122	0.312	0.236	0.125	0.296	0.244	0.128	0.287	0.249	0.129
86	Matatila	(UP)	0.707	0.059	0.061	0.261	0.059	0.055	0.303	0.076	0.059	0.318	0.141	0.069	0.336
*87	Rihand	(UP)	5.649	0.546	1.189	0.629	0.503	1.323	0.763	0.555	1.386	0.887	0.998	1.755	1.081
*88	Ramganga	(UTT)	2.196	0.167	0.000	0.550	0.185	0.000	0.587	0.375	0.266	0.669	0.334	0.331	0.767
*89	Tehri	(UTT)	2.615	0.189	0.270	0.353	0.251	0.435	0.457	0.636	0.947	0.754	1.013	1.190	0.991
90	Mayurakshi	(WB)	0.480	0.144	0.131	0.143	0.149	0.167	0.173	0.136	0.209	0.200	0.130	0.287	0.226
91	Kangsabati	(WB)	0.914	0.422	0.260	0.261	0.428	0.270	0.308	0.434	0.291	0.318	0.459	0.673	0.383
	Reservoirs		161.993	32.847	32.742	34.317	38.157	35.811	38.504	52.355	41.789	45.240	66.333	58.910	57.212
	Percentage			20.277	20.212	21.184	23.555	22.107	23.769	32.319	25.797	27.927	40.948	36.366	35.318

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 02.08.2018			As per Bulleting dated 09.08.2018			As per Bulleting dated 16.08.2018			As per Bulleting dated 23.08.2018		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*1	Srisailam	(AP/TG)	8.288	4.321	0.458	2.004	3.915	0.460	3.011	3.984	0.463	3.356	5.739	0.502	3.919
*2	Nagarjuna Sagar	(AP/TG)	6.841	0.176	0.000	1.240	0.386	0.000	1.622	0.545	0.000	1.752	2.605	0.000	2.099
3	Somasila	(A.P)	1.994	0.308	0.201	0.432	0.304	0.193	0.415	0.295	0.191	0.407	0.333	0.186	0.441
4	Sriramsagar	(TG)	2.300	0.451	0.273	0.749	0.455	0.265	0.803	0.502	0.261	0.799	1.992	0.702	0.866
5	Lower Manair	(TG)	0.621	0.097	0.209	0.185	0.096	0.208	0.197	0.097	0.208	0.225	0.102	0.207	0.238
6	Tenughat	(JHAR)	0.821	0.365	0.343	0.299	0.336	0.344	0.345	0.381	0.358	0.357	0.389	0.339	0.349
7	Maithon	(JHAR)	0.471	0.283	0.436	0.275	0.311	0.370	0.293	0.313	0.372	0.338	0.299	0.354	0.376
*8	Panchet Hill	(JHAR)	0.184	0.184	0.184	0.148	0.134	0.184	0.146	0.136	0.176	0.153	0.133	0.184	0.159
9	Konar	(JHAR)	0.176	0.038	0.097	0.094	0.040	0.099	0.104	0.043	0.102	0.116	0.049	0.101	0.128
10	Tilaiya	(JHAR)	0.142	0.031	0.133	0.071	0.036	0.140	0.079	0.040	0.141	0.088	0.044	0.142	0.102
*11	Ukai	(GUJ)	6.615	1.352	2.492	2.742	1.356	2.645	3.542	1.358	2.596	3.870	1.953	2.574	4.070
12	Sabarmati(Dharoi)	(GUJ)	0.735	0.167	0.656	0.272	0.166	0.673	0.290	0.165	0.682	0.370	0.175	0.686	0.397
*13	Kadana	(GUJ)	1.472	0.628	1.025	0.741	0.552	1.063	0.760	0.449	1.065	0.827	0.760	1.108	0.926
14	Shetrunji	(GUJ)	0.300	0.136	0.131	0.123	0.133	0.131	0.135	0.013	0.131	0.142	0.013	0.131	0.145
15	Bhadar	(GUJ)	0.188	0.096	0.097	0.075	0.095	0.101	0.084	0.094	0.105	0.087	0.094	0.108	0.087
16	Damanaganga	(GUJ)	0.502	0.191	0.229	0.202	0.256	0.246	0.221	0.307	0.284	0.248	0.305	0.282	0.284
17	Dantiwada	(GUJ)	0.399	0.080	0.350	0.084	0.080	0.366	0.099	0.076	0.365	0.106	0.079	0.366	0.113
18	Panam	(GUJ)	0.697	0.348	0.485	0.314	0.341	0.494	0.315	0.328	0.491	0.402	0.479	0.491	0.418
*19	Sardar Sarovar	(GUJ)	5.760	0.082	1.426	1.096	0.035	1.595	1.390	0.037	1.606	1.477	0.858	1.640	1.501
20	Karjan	(GUJ)	0.523	0.330	0.333	0.253	0.338	0.356	0.274	0.341	0.368	0.313	0.395	0.349	0.326
*21	Gobind Sagar(Bhakra)	(H.P)	6.229	1.760	3.644	3.569	2.229	4.563	4.066	3.170	4.947	4.556	3.664	5.225	4.880
*22	Pong Dam	(H.P)	6.157	1.382	3.203	2.724	2.188	4.608	3.535	3.427	5.038	4.124	3.908	5.115	4.565
23	Krishnaraja Sagra	(KAR)	1.163	1.163	0.328	0.690	1.163	0.371	0.766	1.148	0.357	0.808	1.155	0.325	0.831
*24	Tungabhadra	(KAR)	3.276	2.753	1.143	1.975	2.784	1.305	2.202	2.630	1.453	2.455	2.660	1.545	2.525
25	Ghataprabha	(KAR)	1.391	1.325	0.826	0.854	1.374	0.835	1.020	1.387	0.810	1.189	1.387	0.785	1.135
26	Bhadra	(KAR)	1.785	1.738	0.580	1.127	1.755	0.661	1.279	1.707	0.725	1.419	1.713	0.818	1.417
27	Linganamakki	(KAR)	4.294	3.261	1.585	1.940	3.481	1.740	2.356	4.137	1.795	2.720	4.240	1.970	3.013
28	Narayanpur	(KAR)	0.863	0.669	0.707	0.613	0.739	0.660	0.691	0.739	0.566	0.673	0.671	0.643	0.722
29	Malaprabha(Renuka)	(KAR)	0.972	0.454	0.245	0.329	0.480	0.259	0.413	0.498	0.251	0.497	0.596	0.232	0.489
30	Kabini(Sancherla Tank	(KAR)	0.444	0.428	0.243	0.263	0.433	0.230	0.275	0.352	0.191	0.268	0.396	0.191	0.263
31	Hemavathy	(KAR)	0.927	0.927	0.433	0.665	0.927	0.468	0.727	0.927	0.427	0.757	0.927	0.421	0.747
32	Harangi	(KAR)	0.220	0.218	0.220	0.202	0.218	0.220	0.210	0.206	0.193	0.210	0.177	0.220	0.214
33	Supa	(KAR)	4.120	2.841	2.025	1.441	2.989	2.099	2.039	3.363	2.068	2.254	3.816	2.134	2.355

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 02.08.2018			As per Bulleting dated 09.08.2018			As per Bulleting dated 16.08.2018			As per Bulleting dated 23.08.2018		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
34	Vanivilas Sagar	(KAR)	0.802	0.004	0.012	0.088	0.002	0.013	0.087	0.003	0.013	0.084	0.014	0.013	0.084
*35	Almatti	(KAR)	3.105	3.105	3.105	2.422	3.105	3.105	2.696	3.105	3.105	2.729	2.990	2.951	2.863
*36	Gerusoppa	(KAR)	0.130	0.096	0.101	0.107	0.102	0.085	0.100	0.106	0.109	0.102	0.087	0.107	0.100
37	Kallada(Parappar)	(KRL)	0.507	0.466	0.151	0.239	0.459	0.163	0.253	0.485	0.177	0.263	0.456	0.195	0.277
*38	Idamalayar	(KRL)	1.018	0.961	0.308	0.456	0.990	0.356	0.515	1.009	0.380	0.548	0.982	0.453	0.595
*39	Idukki	(KRL)	1.460	1.338	0.340	0.593	1.351	0.405	0.664	1.356	0.435	0.704	1.417	0.501	0.748
*40	Kakki	(KRL)	0.447	0.422	0.100	0.222	0.435	0.125	0.244	0.436	0.136	0.256	0.438	0.173	0.276
*41	Periyar	(KRL)	0.173	0.155	0.016	0.080	0.138	0.021	0.081	0.173	0.025	0.079	0.173	0.037	0.078
42	Malampuzha	(KRL)	0.224	0.218	0.053	0.116	0.219	0.057	0.126	0.210	0.064	0.134	0.198	0.070	0.139
*43	Gandhi Sagar	(M.P.)	6.827	1.531	4.058	1.861	1.531	4.078	2.249	1.567	4.108	2.734	2.052	4.122	3.383
44	Tawa	(M.P.)	1.944	0.835	0.862	1.318	0.843	0.891	1.516	0.938	0.913	1.608	1.127	0.953	1.667
*45	Bargi	(M.P.)	3.180	2.604	1.474	1.565	2.772	1.531	2.091	3.033	1.898	2.310	3.056	1.950	2.437
*46	Bansagar	(M.P.)	5.166	2.511	3.297	2.320	2.755	3.398	2.788	3.153	3.626	3.189	3.579	3.689	3.496
*47	Indira Sagar	(M.P.)	9.745	3.306	2.254	4.076	3.437	2.315	5.232	3.975	2.364	5.782	5.768	2.508	6.039
48	Barna	(M.P.)	0.456	0.143	0.226	0.250	0.128	0.224	0.303	0.125	0.224	0.324	0.184	0.236	0.340
*49	Minimata Bangoi	(CHH.)	3.046	2.216	2.129	1.836	2.276	2.181	1.951	2.318	2.199	2.116	2.365	2.132	2.191
50	Mahanadi	(CHH.)	0.767	0.258	0.320	0.373	0.270	0.224	0.481	0.592	0.168	0.454	0.736	0.129	0.463
51	Jayakwadi(Paithon)	(MAH)	2.171	0.700	1.074	0.282	0.700	1.074	0.282	0.597	1.096	0.569	0.597	1.096	0.569
*52	Koyana	(MAH)	2.652	2.296	2.118	1.916	2.474	2.300	2.193	2.652	2.362	2.401	2.652	2.414	2.467
53	Bhima(Ujjani)	(MAH)	1.517	0.525	0.768	0.428	0.511	0.744	0.569	0.633	0.675	0.746	1.186	0.949	0.806
54	Isapur	(MAH)	0.965	0.315	0.060	0.375	0.323	0.061	0.432	0.331	0.062	0.435	0.610	0.069	0.453
55	Mula	(MAH)	0.609	0.323	0.404	0.248	0.325	0.408	0.323	0.348	0.394	0.376	0.404	0.438	0.391
56	Yeldari	(MAH)	0.809	0.000	0.026	0.118	0.000	0.025	0.158	0.000	0.026	0.169	0.052	0.032	0.175
57	Girna	(MAH)	0.524	0.143	0.268	0.068	0.151	0.274	0.102	0.157	0.274	0.122	0.233	0.280	0.129
58	Khadakvasla	(MAH)	0.056	0.056	0.056	0.045	0.056	0.055	0.048	0.056	0.047	0.040	0.056	0.049	0.037
*59	Upper Vaitarna	(MAH.)	0.331	0.265	0.280	0.216	0.272	0.283	0.250	0.292	0.296	0.266	0.307	0.318	0.270
60	Upper Tapi	(MAH.)	0.255	0.046	0.015	0.080	0.059	0.029	0.089	0.106	0.087	0.103	0.101	0.123	0.151
*61	Pench (Totaladoh)	(MAH.)	1.091	0.221	0.113	0.473	0.220	0.113	0.527	0.211	0.111	0.615	0.230	0.110	0.654
62	Upper Wardha	(MAH.)	0.564	0.258	0.244	0.321	0.258	0.245	0.370	0.257	0.245	0.400	0.264	0.259	0.421
63	Bhatsa	(MAH.)	0.942	0.782	0.815	0.641	0.797	0.821	0.712	0.841	0.862	0.762	0.884	0.887	0.779
64	Dhom	(MAH.)	0.331	0.331	0.203	0.183	0.281	0.221	0.223	0.310	0.233	0.250	0.308	0.240	0.253
65	Dudhganga	(MAH.)	0.664	0.594	0.534	0.475	0.635	0.568	0.545	0.640	0.585	0.582	0.651	0.594	0.598
66	Manikdoh (Kukadi)	(MAH.)	0.288	0.120	0.156	0.088	0.126	0.161	0.103	0.145	0.167	0.127	0.195	0.189	0.132

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 02.08.2018			As per Bulleting dated 09.08.2018			As per Bulleting dated 16.08.2018			As per Bulleting dated 23.08.2018		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
67	Bhandardara	(MAH.)	0.304	0.255	0.289	0.208	0.269	0.289	0.254	0.302	0.290	0.275	0.304	0.304	0.281
*68	Hirakud	(ODI)	5.378	1.838	1.351	1.829	2.202	1.729	2.124	2.394	2.104	2.285	3.138	2.579	2.832
*69	Balimela	(ODI)	2.676	1.023	0.837	0.641	1.143	0.818	0.728	1.335	0.798	0.787	2.009	0.893	0.813
70	Salanadi	(ODI)	0.558	0.318	0.181	0.156	0.350	0.187	0.168	0.379	0.193	0.187	0.379	0.193	0.187
*71	Rengali	(ODI)	3.432	1.417	1.377	1.109	1.872	2.105	1.335	1.896	2.105	1.557	2.151	2.351	2.002
*72	Machkund(Jalput)	(ODI)	0.893	0.439	0.383	0.383	0.536	0.386	0.432	0.552	0.387	0.483	0.789	0.422	0.501
*73	Upper Kolab	(ODI)	0.935	0.322	0.291	0.209	0.358	0.289	0.266	0.427	0.283	0.305	0.736	0.324	0.353
*74	Upper Indravati	(ODI)	1.456	0.720	0.566	0.482	0.766	0.598	0.650	1.013	0.598	0.741	1.186	0.663	0.812
*75	Thein	(PUN)	2.344	1.111	1.919	1.254	1.233	1.999	1.344	1.477	1.919	1.481	1.660	1.841	1.591
*76	Mahi Bajaj Sagar	(RAJ)	1.711	1.054	1.345	0.866	0.960	1.399	0.917	0.986	1.453	1.212	1.116	1.657	1.281
77	Jhakam	(RAJ)	0.132	0.052	0.132	0.065	0.052	0.132	0.063	0.057	0.132	0.099	0.088	0.132	0.101
*78	Rana Pratap Sagar	(RAJ)	1.436	0.617	0.714	0.810	0.611	0.741	0.955	0.644	0.770	1.006	0.783	0.763	0.998
79	Lower Bhawani	(TN)	0.792	0.767	0.134	0.366	0.747	0.138	0.395	0.792	0.154	0.405	0.792	0.166	0.399
*80	Mettur(Stanley)	(TN)	2.647	2.647	0.282	1.182	2.563	0.351	1.318	2.647	0.431	1.419	2.647	0.587	1.443
81	Vaigai	(TN)	0.172	0.084	0.012	0.040	0.094	0.011	0.045	0.123	0.010	0.049	0.158	0.009	0.053
82	Parambikulam	(TN)	0.380	0.375	0.094	0.222	0.378	0.101	0.237	0.377	0.102	0.251	0.366	0.104	0.258
83	Aliyar	(TN)	0.095	0.093	0.011	0.054	0.092	0.010	0.059	0.093	0.009	0.062	0.092	0.010	0.064
*84	Sholayar	(TN)	0.143	0.132	0.017	0.103	0.131	0.021	0.105	0.134	0.017	0.106	0.132	0.027	0.107
85	Gumti	(TRP)	0.312	0.289	0.261	0.134	0.296	0.265	0.147	0.291	0.303	0.162	0.296	0.301	0.158
86	Matatila	(UP)	0.707	0.197	0.115	0.390	0.197	0.115	0.402	0.230	0.132	0.503	0.263	0.139	0.519
*87	Rihand	(UP)	5.649	1.479	3.113	1.432	1.733	3.541	1.748	2.167	3.667	2.281	2.360	3.742	2.601
*88	Ramganga	(UTT)	2.196	0.583	0.415	0.870	0.593	1.581	1.078	0.623	0.716	1.084	0.706	0.769	1.206
*89	Tehri	(UTT)	2.615	1.331	1.468	1.290	1.587	1.713	1.559	1.776	1.772	1.731	2.016	1.887	1.954
90	Mayurakshi	(WB)	0.480	0.162	0.340	0.236	0.198	0.385	0.234	0.181	0.394	0.260	0.171	0.411	0.274
91	Kangsabati	(WB)	0.914	0.439	0.714	0.420	0.467	0.636	0.437	0.492	0.608	0.462	0.490	0.688	0.513
	Reservoirs		161.993	73.471	67.041	66.421	77.554	74.046	79.007	84.743	75.599	87.935	101.286	79.304	94.862
	Percentage			45.354	41.385	41.002	47.875	45.709	48.772	52.313	46.668	54.283	62.525	48.955	58.559

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 06.09.2018			As per Bulleting dated 13.09.2018			As per Bulleting dated 20.09.2018			As per Bulleting dated 27.09.2018		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*1	Srisailam	(AP/TG)	8.288	5.624	0.825	5.317	4.986	1.312	5.428	4.460	3.050	5.695	4.033	4.074	5.735
*2	Nagarjuna Sagar	(AP/TG)	6.841	4.879	0.000	2.934	4.925	0.000	3.187	4.621	0.000	3.538	4.548	0.210	3.708
3	Somasila	(A.P)	1.994	0.783	0.353	0.584	0.978	0.381	0.663	1.164	0.520	0.762	1.200	0.547	0.839
4	Sriramsagar	(TG)	2.300	2.046	1.028	0.891	1.974	1.138	1.049	1.866	1.216	1.266	1.858	1.160	1.390
5	Lower Manair	(TG)	0.621	0.158	0.205	0.256	0.178	0.205	0.311	0.176	0.205	0.322	0.218	0.204	0.370
6	Tenughat	(JHAR)	0.821	0.409	0.371	0.369	0.380	0.395	0.361	0.408	0.415	0.380	0.406	0.409	0.371
7	Maithon	(JHAR)	0.471	0.454	0.381	0.402	0.471	0.395	0.403	0.471	0.406	0.420	0.465	0.464	0.441
*8	Panchet Hill	(JHAR)	0.184	0.175	0.184	0.153	0.184	0.175	0.147	0.184	0.118	0.161	0.174	0.184	0.175
9	Konar	(JHAR)	0.176	0.125	0.117	0.134	0.148	0.116	0.146	0.149	0.120	0.150	0.150	0.126	0.153
10	Tilaiya	(JHAR)	0.142	0.107	0.142	0.108	0.129	0.137	0.118	0.131	0.128	0.119	0.131	0.124	0.120
*11	Ukai	(GUJ)	6.615	2.772	2.912	4.476	2.776	2.934	4.753	2.759	3.143	5.125	2.868	3.470	5.317
12	Sabarmati(Dharoi)	(GUJ)	0.735	0.183	0.704	0.446	0.188	0.722	0.508	0.188	0.735	0.528	0.201	0.735	0.537
*13	Kadana	(GUJ)	1.472	1.105	1.155	0.908	0.104	1.174	0.949	0.099	1.148	0.970	0.113	1.189	1.143
14	Shetrunji	(GUJ)	0.300	0.129	0.179	0.178	0.129	0.179	0.178	0.127	0.182	0.194	0.127	0.182	0.213
15	Bhadar	(GUJ)	0.188	0.096	0.146	0.104	0.095	0.153	0.105	0.095	0.170	0.114	0.092	0.177	0.125
16	Damanaganga	(GUJ)	0.502	0.348	0.381	0.371	0.381	0.431	0.406	0.398	0.444	0.433	0.402	0.456	0.465
17	Dantiwada	(GUJ)	0.399	0.079	0.367	0.128	0.079	0.377	0.153	0.079	0.385	0.170	0.079	0.387	0.172
18	Panam	(GUJ)	0.697	0.535	0.552	0.470	0.539	0.552	0.491	0.535	0.556	0.502	0.553	0.556	0.504
*19	Sardar Sarovar	(GUJ)	5.760	2.015	2.229	1.553	2.252	2.349	1.585	2.285	3.181	1.686	2.624	3.390	1.676
20	Karjan	(GUJ)	0.523	0.436	0.430	0.383	0.452	0.451	0.419	0.457	0.471	0.443	0.463	0.484	0.462
*21	Gobind Sagar(Bhakra)	(H.P)	6.229	4.376	5.611	5.285	4.570	5.583	5.435	4.629	5.436	5.480	5.074	5.451	5.492
*22	Pong Dam	(H.P)	6.157	4.783	5.440	4.940	4.961	5.406	5.103	4.973	5.308	5.174	6.059	5.258	5.137
23	Krishnaraja Sagra	(KAR)	1.163	1.163	0.514	0.847	1.163	0.623	0.883	1.130	0.570	0.871	1.118	0.685	0.885
*24	Tungabhadra	(KAR)	3.276	2.788	2.047	2.568	2.735	2.052	2.565	2.612	2.029	2.551	2.489	1.982	2.542
25	Ghataprabha	(KAR)	1.391	1.387	0.925	1.182	1.387	0.963	1.214	1.387	1.010	1.205	1.305	1.113	1.215
26	Bhadra	(KAR)	1.785	1.760	1.044	1.460	1.781	1.097	1.516	1.776	1.128	1.487	1.742	1.163	1.515
27	Linganamakki	(KAR)	4.294	4.212	2.372	3.122	4.160	2.392	3.401	4.113	2.503	3.461	4.042	2.557	3.434
28	Narayanpur	(KAR)	0.863	0.736	0.736	0.714	0.697	0.740	0.710	0.610	0.724	0.746	0.587	0.732	0.746
29	Malaprabha(Renuka)	(KAR)	0.972	0.663	0.260	0.534	0.664	0.274	0.555	0.655	0.300	0.564	0.599	0.324	0.578
30	Kabini(Sancherla Tank	(KAR)	0.444	0.434	0.319	0.264	0.438	0.357	0.276	0.430	0.416	0.268	0.415	0.411	0.255
31	Hemavathy	(KAR)	0.927	0.927	0.421	0.734	0.927	0.354	0.725	0.904	0.315	0.705	0.850	0.308	0.688
32	Harangi	(KAR)	0.220	0.194	0.217	0.209	0.206	0.211	0.204	0.192	0.216	0.196	0.179	0.216	0.192
33	Supa	(KAR)	4.120	3.963	2.287	2.462	3.940	2.281	2.707	3.892	2.335	2.774	3.849	2.423	2.708

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 06.09.2018			As per Bulleting dated 13.09.2018			As per Bulleting dated 20.09.2018			As per Bulleting dated 27.09.2018		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
34	Vanivilas Sagar	(KAR)	0.802	0.016	0.012	0.088	0.016	0.013	0.088	0.015	0.012	0.089	0.017	0.013	0.097
*35	Almatti	(KAR)	3.105	3.105	3.105	2.866	3.105	3.105	2.835	2.966	3.105	2.911	2.743	3.105	2.909
*36	Gerusoppa	(KAR)	0.130	0.088	0.108	0.104	0.096	0.096	0.105	0.122	0.110	0.106	0.103	0.107	0.102
37	Kallada(Parappar)	(KRL)	0.507	0.444	0.236	0.306	0.436	0.251	0.310	0.421	0.346	0.333	0.420	0.372	0.336
*38	Idamalayar	(KRL)	1.018	0.910	0.581	0.660	0.840	0.639	0.713	0.807	0.721	0.738	0.774	0.747	0.741
*39	Idukki	(KRL)	1.460	1.306	0.637	0.817	1.231	0.696	0.870	1.205	0.804	0.908	1.189	0.862	0.919
*40	Kakki	(KRL)	0.447	0.393	0.228	0.302	0.375	0.247	0.320	0.360	0.278	0.330	0.349	0.302	0.331
*41	Periyar	(KRL)	0.173	0.160	0.062	0.081	0.127	0.079	0.084	0.104	0.106	0.083	0.091	0.095	0.077
42	Malampuzha	(KRL)	0.224	0.200	0.093	0.153	0.199	0.098	0.158	0.195	0.122	0.164	0.194	0.133	0.166
*43	Gandhi Sagar	(M.P.)	6.827	2.321	4.438	2.744	2.501	4.446	3.637	2.539	4.657	4.293	2.897	4.745	3.998
44	Tawa	(M.P.)	1.944	1.302	1.069	1.762	1.429	1.127	1.807	1.447	1.325	1.830	1.569	1.475	1.850
*45	Bargi	(M.P.)	3.180	3.125	2.310	2.717	3.136	2.422	2.821	3.125	2.562	2.875	3.068	2.772	2.948
*46	Bansagar	(M.P.)	5.166	4.466	3.866	3.515	5.166	3.871	3.670	5.166	3.904	3.858	5.166	3.968	3.927
*47	Indira Sagar	(M.P.)	9.745	8.072	3.199	6.866	9.058	3.012	7.324	9.166	2.992	7.440	9.601	3.454	7.749
48	Barna	(M.P.)	0.456	0.227	0.274	0.366	0.252	0.289	0.395	0.257	0.296	0.398	0.257	0.289	0.389
*49	Minimata Bangoi	(CHH.)	3.046	2.982	2.058	2.302	2.728	2.032	2.302	2.654	2.017	2.321	2.553	2.155	2.330
50	Mahanadi	(CHH.)	0.767	0.738	0.309	0.490	0.755	0.366	0.561	0.668	0.368	0.590	0.588	0.353	0.626
51	Jayakwadi(Paithon)	(MAH)	2.171	1.029	1.754	0.833	1.004	1.814	0.902	0.999	1.913	1.016	0.964	2.159	1.065
*52	Koyana	(MAH)	2.652	2.652	2.652	2.582	2.652	2.652	2.591	2.652	2.652	2.577	2.646	2.652	2.576
53	Bhima(Ujjani)	(MAH)	1.517	1.517	1.517	1.053	1.517	1.517	1.091	1.517	1.517	1.111	1.517	1.517	1.170
54	Isapur	(MAH)	0.965	0.648	0.079	0.460	0.648	0.082	0.488	0.648	0.105	0.520	0.646	0.138	0.542
55	Mula	(MAH)	0.609	0.445	0.520	0.435	0.432	0.527	0.453	0.425	0.548	0.477	0.422	0.605	0.497
56	Yeldari	(MAH)	0.809	0.075	0.036	0.249	0.075	0.047	0.274	0.075	0.061	0.338	0.076	0.094	0.337
57	Girna	(MAH)	0.524	0.253	0.327	0.162	0.254	0.323	0.177	0.253	0.334	0.199	0.251	0.343	0.227
58	Khadakvasla	(MAH)	0.056	0.056	0.053	0.042	0.048	0.054	0.043	0.040	0.056	0.044	0.048	0.056	0.043
*59	Upper Vaitarna	(MAH.)	0.331	0.320	0.328	0.293	0.325	0.329	0.299	0.325	0.330	0.305	0.325	0.330	0.307
60	Upper Tapi	(MAH.)	0.255	0.210	0.219	0.174	0.250	0.251	0.182	0.249	0.242	0.202	0.251	0.251	0.230
*61	Pench (Totaladoh)	(MAH.)	1.091	0.279	0.202	0.762	0.287	0.225	0.802	0.287	0.283	0.835	0.325	0.425	0.835
62	Upper Wardha	(MAH.)	0.564	0.268	0.336	0.473	0.269	0.362	0.492	0.265	0.474	0.512	0.294	0.564	0.524
63	Bhatsa	(MAH.)	0.942	0.914	0.912	0.852	0.912	0.921	0.869	0.903	0.922	0.886	0.891	0.936	0.896
64	Dhom	(MAH.)	0.331	0.317	0.279	0.271	0.318	0.282	0.281	0.310	0.285	0.285	0.292	0.311	0.290
65	Dudhganga	(MAH.)	0.664	0.653	0.664	0.636	0.661	0.664	0.639	0.664	0.664	0.644	0.652	0.664	0.644

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 06.09.2018			As per Bulleting dated 13.09.2018			As per Bulleting dated 20.09.2018			As per Bulleting dated 27.09.2018		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
66	Manikdoh (Kukadi)	(MAH.)	0.288	0.213	0.216	0.150	0.216	0.218	0.155	0.217	0.219	0.161	0.217	0.232	0.168
67	Bhandardara	(MAH.)	0.304	0.304	0.303	0.289	0.304	0.304	0.291	0.304	0.304	0.293	0.304	0.304	0.296
*68	Hirakud	(ODI)	5.378	3.752	3.281	3.994	4.102	3.208	4.303	4.241	3.264	4.475	4.653	4.823	4.916
*69	Balimela	(ODI)	2.676	2.511	1.095	0.924	2.570	1.062	1.091	2.546	1.029	1.216	2.633	1.035	1.327
70	Salanadi	(ODI)	0.558	0.478	0.250	0.222	0.481	0.238	0.247	0.478	0.249	0.269	0.490	0.250	0.278
*71	Rengali	(ODI)	3.432	3.048	2.671	2.333	3.432	2.665	2.519	3.187	2.819	2.684	2.970	3.257	2.841
*72	Machkund(Jalput)	(ODI)	0.893	0.836	0.583	0.589	0.842	0.626	0.626	0.849	0.645	0.698	0.851	0.727	0.754
*73	Upper Kolab	(ODI)	0.935	0.799	0.410	0.374	0.799	0.417	0.443	0.800	0.435	0.518	0.847	0.464	0.570
*74	Upper Indravati	(ODI)	1.456	1.281	0.776	0.904	1.320	0.756	0.949	1.335	0.767	1.008	1.367	0.831	1.074
*75	Thein	(PUN)	2.344	1.800	1.841	1.644	1.800	1.880	1.627	1.760	1.760	1.595	2.277	1.690	1.581
*76	Mahi Bajaj Sagar	(RAJ)	1.711	1.134	1.711	1.401	1.393	1.711	1.462	1.412	1.711	1.478	1.666	1.711	1.485
77	Jhakam	(RAJ)	0.132	0.103	0.132	0.108	0.112	0.132	0.112	0.116	0.132	0.113	0.132	0.132	0.114
*78	Rana Pratap Sagar	(RAJ)	1.436	0.830	0.774	0.997	0.977	0.763	1.096	0.980	0.788	1.094	1.003	0.797	1.057
79	Lower Bhawani	(TN)	0.792	0.792	0.221	0.385	0.792	0.293	0.386	0.792	0.397	0.378	0.789	0.454	0.363
*80	Mettur(Stanley)	(TN)	2.647	2.647	0.747	1.432	2.501	0.889	1.495	2.244	1.127	1.480	2.001	1.320	1.388
81	Vaigai	(TN)	0.172	0.157	0.013	0.059	0.140	0.018	0.061	0.100	0.021	0.060	0.084	0.038	0.059
82	Parambikulam	(TN)	0.380	0.375	0.125	0.269	0.379	0.143	0.279	0.375	0.170	0.285	0.368	0.188	0.287
83	Aliyar	(TN)	0.095	0.092	0.018	0.067	0.094	0.030	0.069	0.090	0.037	0.070	0.084	0.041	0.070
*84	Sholayar	(TN)	0.143	0.130	0.053	0.113	0.129	0.069	0.120	0.128	0.092	0.124	0.129	0.108	0.124
85	Gumti	(TRP)	0.312	0.285	0.310	0.179	0.258	0.305	0.183	0.273	0.305	0.170	0.278	0.291	0.183
86	Matatila	(UP)	0.707	0.589	0.168	0.559	0.635	0.170	0.599	0.641	0.178	0.601	0.641	0.641	0.657
*87	Rihand	(UP)	5.649	3.478	3.818	2.848	4.022	3.717	2.927	3.956	3.616	3.012	3.982	3.755	3.077
*88	Ramganga	(UTT)	2.196	1.165	1.086	1.346	1.179	1.101	1.355	1.283	1.180	1.494	1.356	1.283	1.518
*89	Tehri	(UTT)	2.615	2.242	2.279	2.123	2.311	2.357	2.230	2.402	2.369	2.297	2.440	2.386	2.310
90	Mayurakshi	(WB)	0.480	0.219	0.388	0.273	0.256	0.352	0.276	0.260	0.358	0.284	0.234	0.412	0.308
91	Kangsabati	(WB)	0.914	0.447	0.787	0.529	0.532	0.706	0.550	0.534	0.667	0.562	0.526	0.641	0.576
	Reservoirs		161.993	119.042	91.373	104.013	121.655	92.878	109.688	120.087	97.633	114.097	122.514	104.954	116.362
	Percentage			73.486	56.406	64.208	75.099	57.335	67.712	74.131	60.270	70.433	75.629	64.789	71.831

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 04.10.2018			As per Bulleting dated 11.10.2018			As per Bulleting dated 18.10.2018			As per Bulleting dated 25.10.2018		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*1	Srisailam	(AP/TG)	8.288	3.481	5.206	5.725	2.931	5.838	5.631	2.409	5.826	5.448	2.553	5.814	5.302
*2	Nagarjuna Sagar	(AP/TG)	6.841	4.433	0.376	3.951	4.417	0.794	3.947	4.400	2.972	4.284	3.957	3.793	4.160
3	Somasila	(A.P)	1.994	1.176	0.654	0.919	1.171	0.850	1.098	1.174	1.329	1.152	1.204	1.398	1.152
4	Sriramsagar	(TG)	2.300	1.709	1.046	1.424	1.469	1.010	1.562	1.245	1.516	1.476	1.085	1.564	1.358
5	Lower Manair	(TG)	0.621	0.229	0.203	0.374	0.188	0.205	0.370	0.218	0.210	0.369	0.236	0.209	0.336
6	Tenughat	(JHAR)	0.821	0.410	0.439	0.383	0.410	0.398	0.383	0.411	0.417	0.384	0.411	0.437	0.386
7	Maithon	(JHAR)	0.471	0.454	0.471	0.445	0.392	0.471	0.437	0.340	0.471	0.436	0.329	0.471	0.426
*8	Panchet Hill	(JHAR)	0.184	0.181	0.184	0.174	0.132	0.184	0.168	0.131	0.184	0.171	0.136	0.184	0.157
9	Konar	(JHAR)	0.176	0.148	0.142	0.156	0.145	0.147	0.159	0.145	0.147	0.159	0.143	0.146	0.158
10	Tilaiya	(JHAR)	0.142	0.131	0.120	0.120	0.130	0.120	0.121	0.130	0.113	0.124	0.129	0.102	0.123
*11	Ukai	(GUJ)	6.615	2.868	3.445	5.318	2.866	3.386	5.339	2.694	3.521	5.271	2.505	3.530	5.179
12	Sabarmati(Dharoi)	(GUJ)	0.735	0.204	0.735	0.546	0.201	0.735	0.548	0.196	0.722	0.548	0.193	0.701	0.547
*13	Kadana	(GUJ)	1.472	0.115	1.174	1.128	1.106	1.145	1.063	1.063	1.124	1.030	1.050	1.124	0.996
14	Shetrunji	(GUJ)	0.300	0.125	0.182	0.218	0.123	0.179	0.219	0.119	0.179	0.218	0.118	0.179	0.208
15	Bhadar	(GUJ)	0.188	0.090	0.179	0.128	0.084	0.176	0.129	0.073	0.173	0.127	0.060	0.171	0.118
16	Damanaganga	(GUJ)	0.502	0.398	0.480	0.482	0.400	0.480	0.492	0.398	0.478	0.490	0.393	0.486	0.494
17	Dantiwada	(GUJ)	0.399	0.077	0.387	0.179	0.075	0.387	0.183	0.070	0.385	0.183	0.055	0.382	0.185
18	Panam	(GUJ)	0.697	0.553	0.549	0.502	0.553	0.539	0.501	0.545	0.532	0.494	0.539	0.525	0.464
*19	Sardar Sarovar	(GUJ)	5.760	2.658	3.319	1.626	2.722	3.225	1.566	2.624	3.154	1.571	2.732	3.055	1.628
20	Karjan	(GUJ)	0.523	0.457	0.489	0.473	0.453	0.489	0.480	0.445	0.491	0.481	0.434	0.486	0.477
*21	Gobind Sagar(Bhakra)	(H.P)	6.229	5.326	5.397	5.442	5.407	5.302	5.360	5.446	5.250	5.258	5.430	5.218	5.219
*22	Pong Dam	(H.P)	6.157	6.089	5.072	5.067	6.024	4.948	5.081	5.852	4.757	4.963	5.668	4.577	4.704
23	Krishnaraja Sagra	(KAR)	1.163	1.163	0.762	0.880	1.163	0.810	0.874	1.163	0.872	0.892	1.163	0.903	0.874
*24	Tungabhadra	(KAR)	3.276	2.424	2.147	2.519	2.319	2.321	2.527	2.153	2.518	2.493	2.144	2.491	2.399
25	Ghataprabha	(KAR)	1.391	1.237	1.170	1.213	1.207	1.207	1.284	1.203	1.234	1.197	1.200	1.249	1.182
26	Bhadra	(KAR)	1.785	1.749	1.214	1.528	1.743	1.237	1.554	1.720	1.281	1.499	1.698	1.303	1.418
27	Linganamakki	(KAR)	4.294	4.014	2.614	3.389	3.981	2.641	3.515	3.907	2.655	3.422	3.850	2.655	3.384
28	Narayanpur	(KAR)	0.863	0.655	0.726	0.715	0.605	0.728	0.749	0.588	0.693	0.735	0.620	0.738	0.719
29	Malaprabha(Renuka)	(KAR)	0.972	0.638	0.362	0.593	0.644	0.377	0.645	0.644	0.396	0.603	0.635	0.399	0.601
30	Kabini(Sancherla Tank)	(KAR)	0.444	0.415	0.392	0.239	0.433	0.383	0.226	0.429	0.403	0.216	0.440	0.413	0.187
31	Hemavathy	(KAR)	0.927	0.832	0.314	0.673	0.786	0.297	0.651	0.740	0.285	0.630	0.702	0.268	0.564
32	Harangi	(KAR)	0.220	0.184	0.216	0.187	0.178	0.215	0.167	0.171	0.217	0.158	0.155	0.217	0.144

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 04.10.2018			As per Bulleting dated 11.10.2018			As per Bulleting dated 18.10.2018			As per Bulleting dated 25.10.2018		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
33	Supa	(KAR)	4.120	3.845	2.483	2.718	3.796	2.487	2.679	3.751	2.513	2.705	3.705	2.535	2.671
34	Vanivilas Sagar	(KAR)	0.802	0.020	0.013	0.102	0.022	0.016	0.112	0.026	0.024	0.127	0.030	0.024	0.126
*35	Almatti	(KAR)	3.105	2.600	3.105	2.868	2.416	3.105	2.872	2.163	3.105	2.889	1.919	3.105	2.795
*36	Gerusoppa	(KAR)	0.130	0.101	0.113	0.102	0.087	0.111	0.103	0.116	0.108	0.101	0.090	0.114	0.106
37	Kallada(Parappar)	(KRL)	0.507	0.423	0.382	0.346	0.404	0.385	0.359	0.405	0.390	0.364	0.416	0.401	0.379
*38	Idamalayar	(KRL)	1.018	0.752	0.754	0.747	0.730	0.746	0.750	0.728	0.749	0.754	0.731	0.781	0.751
*39	Idukki	(KRL)	1.460	1.204	0.893	0.924	1.196	0.902	0.929	1.192	0.924	0.931	1.220	0.951	0.938
*40	Kakki	(KRL)	0.447	0.344	0.314	0.332	0.346	0.320	0.334	0.342	0.329	0.335	0.352	0.336	0.341
*41	Periyar	(KRL)	0.173	0.103	0.087	0.073	0.143	0.075	0.069	0.140	0.072	0.067	0.154	0.070	0.076
42	Malampuzha	(KRL)	0.224	0.198	0.139	0.171	0.190	0.145	0.173	0.191	0.150	0.177	0.195	0.152	0.179
*43	Gandhi Sagar	(M.P.)	6.827	2.911	4.739	4.006	2.911	4.730	3.632	2.911	4.660	3.988	2.911	4.623	3.964
44	Tawa	(M.P.)	1.944	1.579	1.490	1.852	1.579	1.513	1.856	1.579	1.527	1.858	1.579	1.527	1.856
*45	Bargi	(M.P.)	3.180	2.954	2.786	2.936	2.842	2.786	2.917	2.758	2.786	2.897	2.688	2.786	2.865
*46	Bansagar	(M.P.)	5.166	5.166	3.900	3.876	5.046	3.820	3.696	4.885	3.744	3.786	4.781	3.672	3.714
*47	Indira Sagar	(M.P.)	9.745	9.589	3.750	7.724	9.264	3.848	7.681	9.190	3.914	7.596	8.930	3.865	7.457
48	Barna	(M.P.)	0.456	0.243	0.262	0.376	0.207	0.233	0.360	0.204	0.232	0.359	0.203	0.231	0.354
*49	Minimata Bangoi	(CHH.)	3.046	2.436	2.113	2.253	2.298	2.085	2.216	2.224	2.058	2.180	2.063	2.002	2.083
50	Mahanadi	(CHH.)	0.767	0.488	0.276	0.590	0.418	0.235	0.516	0.418	0.235	0.516	0.437	0.296	0.522
51	Jayakwadi(Paithon)	(MAH)	2.171	0.905	2.171	1.089	0.837	2.171	1.112	0.774	2.171	1.111	0.696	2.171	1.094
*52	Koyana	(MAH)	2.652	2.586	2.652	2.571	2.398	2.652	2.547	2.483	2.652	2.542	2.429	2.652	2.529
53	Bhima(Ujjani)	(MAH)	1.517	1.505	1.517	1.200	1.497	1.517	1.243	1.457	1.517	1.261	1.424	1.517	1.230
54	Isapur	(MAH)	0.965	0.643	0.140	0.551	0.639	0.144	0.561	0.634	0.150	0.562	0.628	0.151	0.560
55	Mula	(MAH)	0.609	0.417	0.609	0.502	0.410	0.609	0.509	0.404	0.609	0.509	0.396	0.609	0.509
56	Yeldari	(MAH)	0.809	0.076	0.096	0.341	0.076	0.097	0.359	0.075	0.107	0.364	0.075	0.107	0.364
57	Girna	(MAH)	0.524	0.250	0.342	0.231	0.248	0.345	0.240	0.248	0.371	0.245	0.246	0.375	0.245
58	Khadakvasla	(MAH)	0.056	0.046	0.055	0.042	0.041	0.054	0.042	0.040	0.056	0.041	0.038	0.051	0.037
*59	Upper Vaitarna	(MAH.)	0.331	0.325	0.331	0.308	0.324	0.331	0.306	0.323	0.331	0.305	0.322	0.331	0.307
60	Upper Tapi	(MAH.)	0.255	0.254	0.253	0.247	0.255	0.252	0.251	0.255	0.255	0.255	0.255	0.255	0.255
*61	Pench (Totaladoh)	(MAH.)	1.091	0.281	0.436	0.817	0.216	0.412	0.796	0.182	0.377	0.759	0.152	0.350	0.723
62	Upper Wardha	(MAH.)	0.564	0.294	0.564	0.527	0.289	0.564	0.529	0.284	0.564	0.527	0.266	0.564	0.522
63	Bhatsa	(MAH.)	0.942	0.880	0.934	0.896	0.864	0.931	0.894	0.846	0.942	0.889	0.828	0.928	0.875
64	Dhom	(MAH.)	0.331	0.287	0.314	0.291	0.285	0.319	0.294	0.282	0.326	0.295	0.278	0.328	0.294

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 04.10.2018			As per Bulleting dated 11.10.2018			As per Bulleting dated 18.10.2018			As per Bulleting dated 25.10.2018		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
65	**Dudhganga**	(MAH.)	0.664	0.655	0.664	0.659	0.652	0.664	0.647	0.648	0.664	0.647	0.638	0.664	0.647
66	**Manikdoh (Kukadi)**	(MAH.)	0.288	0.217	0.233	0.170	0.216	0.237	0.172	0.216	0.240	0.172	0.197	0.240	0.172
67	**Bhandardara**	(MAH.)	0.304	0.304	0.304	0.295	0.294	0.304	0.294	0.279	0.304	0.293	0.265	0.304	0.287
***68**	**Hirakud**	(ODI)	5.378	4.720	4.875	5.113	4.600	4.899	4.966	4.511	4.868	4.945	4.443	4.759	4.966
***69**	**Balimela**	(ODI)	2.676	2.638	1.081	1.289	2.599	1.206	1.223	2.575	1.294	1.574	2.476	1.338	1.397
70	**Salanadi**	(ODI)	0.558	0.470	0.227	0.298	0.424	0.227	0.278	0.424	0.227	0.278	0.413	0.252	0.213
***71**	**Rengali**	(ODI)	3.432	2.751	3.355	2.811	2.407	3.432	2.978	2.386	3.296	2.854	1.994	3.387	2.945
***72**	**Machkund(Jalput)**	(ODI)	0.893	0.838	0.772	0.769	0.836	0.839	0.775	0.836	0.849	0.794	0.820	0.848	0.779
***73**	**Upper Kolab**	(ODI)	0.935	0.846	0.480	0.571	0.812	0.540	0.532	0.811	0.572	0.599	0.765	0.584	0.572
***74**	**Upper Indravati**	(ODI)	1.456	1.342	0.846	1.051	1.172	0.870	1.075	1.279	0.875	1.063	1.217	0.886	1.060
***75**	**Thein**	(PUN)	2.344	2.277	1.660	1.535	2.237	1.538	1.483	2.237	1.507	1.460	2.158	1.416	1.396
***76**	**Mahi Bajaj Sagar**	(RAJ)	1.711	1.710	1.711	1.485	1.711	1.711	1.489	1.711	1.711	1.490	1.711	1.711	1.465
77	**Jhakam**	(RAJ)	0.132	0.132	0.132	0.114	0.132	0.132	0.114	0.132	0.132	0.114	0.132	0.132	0.112
***78**	**Rana Pratap Sagar**	(RAJ)	1.436	0.995	0.793	1.129	0.983	0.715	1.087	0.936	0.651	1.087	0.861	0.544	0.990
79	**Lower Bhawani**	(TN)	0.792	0.792	0.476	0.350	0.792	0.459	0.338	0.792	0.439	0.329	0.792	0.390	0.340
***80**	**Mettur(Stanley)**	(TN)	2.647	1.934	1.661	1.318	1.962	1.696	1.226	1.961	1.764	1.155	2.020	1.532	1.093
81	**Vaigai**	(TN)	0.172	0.088	0.050	0.059	0.121	0.060	0.056	0.140	0.069	0.056	0.158	0.070	0.069
82	**Parambikulam**	(TN)	0.380	0.366	0.191	0.287	0.365	0.189	0.286	0.361	0.192	0.285	0.356	0.189	0.288
83	**Aliyar**	(TN)	0.095	0.083	0.038	0.070	0.082	0.035	0.069	0.078	0.034	0.068	0.080	0.033	0.071
***84**	**Sholayar**	(TN)	0.143	0.127	0.112	0.124	0.127	0.109	0.121	0.126	0.109	0.118	0.121	0.101	0.112
85	**Gumti**	(TRP)	0.312	0.268	0.303	0.188	0.270	0.303	0.180	0.270	0.303	0.180	0.268	0.312	0.181
86	**Matatila**	(UP)	0.707	0.641	0.641	0.647	0.641	0.641	0.647	0.602	0.583	0.632	0.534	0.502	0.570
***87**	**Rihand**	(UP)	5.649	3.855	3.704	3.011	3.654	3.579	3.019	3.553	3.428	2.976	3.428	3.298	2.915
***88**	**Ramganga**	(UTT)	2.196	1.397	1.328	1.541	1.420	1.356	1.556	1.434	1.368	1.559	1.445	1.373	1.524
***89**	**Tehri**	(UTT)	2.615	2.490	2.398	2.305	2.495	2.398	2.320	2.508	2.382	2.292	2.503	2.365	2.280
90	**Mayurakshi**	(WB)	0.480	0.204	0.464	0.319	0.195	0.474	0.310	0.177	0.457	0.282	0.137	0.469	0.247
91	**Kangsabati**	(WB)	0.914	0.453	0.674	0.555	0.373	0.738	0.531	0.329	0.729	0.494	0.334	0.829	0.449
	Reservoirs		161.993	120.921	107.352	116.388	118.304	108.515	115.738	115.668	111.500	115.573	112.670	111.576	113.110
	Percentage			74.646	66.270	71.848	73.030	66.987	71.446	71.403	68.830	71.344	69.552	68.877	69.824

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 01.11.2018			As per Bulleting dated 08.11.2018			As per Bulleting dated 15.11.2018			As per Bulleting dated 22.11.2018			As per Bulleting dated 29.11.2018		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
*1	Srisailam	(AP/TG)	8.288	2.553	5.546	5.239	2.480	5.194	5.131	2.414	4.885	4.960	2.414	4.885	4.960	2.285	4.438	4.706
*2	Nagarjuna Sagar	(AP/TG)	6.841	3.523	4.026	3.981	3.260	3.964	3.740	2.940	3.736	3.541	2.940	3.736	3.541	2.413	3.240	3.206
3	Somasila	(A.P)	1.994	1.197	1.425	1.173	1.189	1.433	1.204	1.125	1.399	1.266	1.125	1.399	1.266	1.039	1.301	1.446
4	Sriramsagar	(TG)	2.300	1.010	1.556	1.441	0.992	1.469	1.413	0.986	1.453	1.289	0.980	1.423	1.372	0.974	1.344	1.240
5	Lower Manair	(TG)	0.621	0.248	0.208	0.358	0.251	0.236	0.330	0.249	0.294	0.337	0.246	0.358	0.373	0.243	0.415	0.354
6	Tenughat	(JHAR)	0.821	0.408	0.436	0.384	0.404	0.440	0.381	0.398	0.441	0.382	0.392	0.443	0.382	0.388	0.411	0.375
7	Maithon	(JHAR)	0.471	0.270	0.471	0.420	0.266	0.471	0.414	0.251	0.471	0.413	0.244	0.471	0.436	0.247	0.471	0.433
*8	Panchet Hill	(JHAR)	0.184	0.131	0.184	0.168	0.131	0.184	0.156	0.137	0.184	0.155	0.139	0.184	0.168	0.143	0.184	0.168
9	Konar	(JHAR)	0.176	0.143	0.143	0.157	0.139	0.141	0.153	0.136	0.138	0.154	0.133	0.137	0.154	0.131	0.135	0.152
10	Tilaiya	(JHAR)	0.142	0.129	0.088	0.121	0.128	0.083	0.117	0.126	0.079	0.117	0.115	0.079	0.115	0.101	0.078	0.113
*11	Ukai	(GUJ)	6.615	2.410	3.530	5.125	2.373	3.370	5.027	2.344	3.165	4.836	2.313	3.124	4.750	2.286	3.084	4.668
12	Sabarmati(Dharoi)	(GUJ)	0.735	0.189	0.675	0.529	0.183	0.636	0.509	0.178	0.602	0.492	0.175	0.578	0.481	0.171	0.549	0.463
*13	Kadana	(GUJ)	1.472	1.050	1.106	1.023	1.050	1.088	0.983	1.057	1.078	1.009	1.030	1.055	1.010	0.994	1.022	1.001
14	Shetrunji	(GUJ)	0.300	0.117	0.176	0.215	0.106	0.171	0.211	0.087	0.168	0.207	0.077	0.168	0.204	0.067	0.166	0.200
15	Bhadar	(GUJ)	0.188	0.055	0.168	0.123	0.052	0.164	0.123	0.049	0.156	0.114	0.048	0.148	0.111	0.046	0.141	0.107
16	Damanaganga	(GUJ)	0.502	0.389	0.483	0.493	0.375	0.480	0.486	0.364	0.480	0.481	0.346	0.475	0.467	0.332	0.466	0.458
17	Dantiwada	(GUJ)	0.399	0.040	0.377	0.177	0.036	0.362	0.168	0.035	0.346	0.158	0.035	0.338	0.152	0.034	0.329	0.141
18	Panam	(GUJ)	0.697	0.535	0.515	0.467	0.532	0.511	0.460	0.525	0.511	0.456	0.522	0.508	0.454	0.518	0.501	0.449
*19	Sardar Sarovar	(GUJ)	5.760	2.725	2.965	1.549	2.945	2.754	1.566	2.860	2.595	1.515	2.654	2.262	1.419	2.430	2.053	1.394
20	Karjan	(GUJ)	0.523	0.428	0.481	0.490	0.412	0.465	0.474	0.409	0.452	0.450	0.407	0.440	0.442	0.405	0.431	0.427
*21	Gobind Sagar(Bhakra)	(H.P)	6.229	5.393	5.177	5.165	5.366	5.103	5.068	5.337	5.004	4.960	5.328	4.906	4.835	5.317	4.808	4.737
*22	Pong Dam	(H.P)	6.157	5.571	4.431	4.595	5.455	4.291	4.460	5.304	4.181	4.400	5.202	4.095	4.197	4.940	3.879	4.021
23	Krishnaraja Sagra	(KAR)	1.163	1.163	0.845	0.884	1.163	0.803	0.889	1.106	0.828	0.874	1.061	0.836	0.863	0.994	0.750	0.833
*24	Tungabhadra	(KAR)	3.276	1.969	2.342	2.302	1.783	2.172	2.230	1.614	1.999	2.106	1.465	1.824	2.004	1.323	1.664	1.905
25	Ghataprabha	(KAR)	1.391	1.195	1.312	1.172	1.184	1.255	1.125	1.106	1.255	1.108	1.080	1.254	1.152	0.928	1.149	1.023
26	Bhadra	(KAR)	1.785	1.651	1.313	1.457	1.610	1.318	1.412	1.567	1.312	1.393	1.551	1.300	1.382	1.533	1.258	1.433
27	Linganamakki	(KAR)	4.294	3.816	2.635	3.361	3.704	2.564	3.413	3.624	2.513	3.194	3.550	2.470	3.196	3.469	2.439	3.238
28	Narayanpur	(KAR)	0.863	0.627	0.681	0.705	0.455	0.669	0.694	0.385	0.620	0.675	0.385	0.620	0.675	0.221	0.576	0.691
29	Malaprabha(Renuka)	(KAR)	0.972	0.584	0.499	0.589	0.553	0.401	0.553	0.515	0.397	0.528	0.498	0.398	0.526	0.394	0.342	0.531
30	Kabini(Sancherla Tank)	(KAR)	0.444	0.418	0.406	0.208	0.394	0.388	0.202	0.366	0.385	0.191	0.349	0.381	0.181	0.330	0.349	0.160
31	Hemavathy	(KAR)	0.927	0.623	0.264	0.565	0.553	0.242	0.543	0.516	0.221	0.515	0.486	0.219	0.492	0.433	0.216	0.444
32	Harangi	(KAR)	0.220	0.130	0.173	0.128	0.111	0.129	0.111	0.092	0.094	0.094	0.084	0.082	0.085	0.068	0.080	0.072
33	Supa	(KAR)	4.120	3.668	2.510	2.662	3.569	2.466	2.716	3.495	2.437	2.686	3.418	2.407	2.564	3.342	2.373	2.607
34	Vanivilas Sagar	(KAR)	0.802	0.030	0.023	0.126	0.029	0.023	0.132	0.029	0.023	0.132	0.028	0.022	0.139	0.027	0.021	0.142
*35	Almatti	(KAR)	3.105	1.698	3.105	2.687	1.629	3.105	2.542	1.592	2.947	2.405	1.592	2.947	2.405	1.492	2.458	2.193
*36	Gerusoppa	(KAR)	0.130	0.104	0.114	0.108	0.117	0.095	0.105	0.100	0.105	0.104	0.113	0.108	0.108	0.101	0.097	0.108
37	Kallada(Parappar)	(KRL)	0.507	0.431	0.419	0.394	0.448	0.431	0.402	0.438	0.438	0.406	0.440	0.445	0.406	0.446	0.464	0.415
*38	Idamalayar	(KRL)	1.018	0.715	0.787	0.752	0.707	0.794	0.752	0.694	0.790	0.749	0.695	0.782	0.746	0.685	0.770	0.738

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 01.11.2018			As per Bulleting dated 08.11.2018			As per Bulleting dated 15.11.2018			As per Bulleting dated 22.11.2018			As per Bulleting dated 29.11.2018		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
*39	Idukki	(KRL)	1.460	1.196	0.971	0.948	1.174	0.988	0.955	1.150	1.002	0.962	1.159	0.995	0.960	1.151	0.988	0.955
*40	Kakki	(KRL)	0.447	0.347	0.340	0.345	0.340	0.351	0.349	0.328	0.354	0.353	0.327	0.352	0.353	0.328	0.356	0.357
*41	Periyar	(KRL)	0.173	0.139	0.072	0.085	0.129	0.077	0.090	0.108	0.076	0.100	0.114	0.074	0.100	0.124	0.071	0.111
42	Malampuzha	(KRL)	0.224	0.195	0.155	0.181	0.193	0.157	0.182	0.181	0.157	0.182	0.171	0.147	0.177	0.167	0.136	0.169
*43	Gandhi Sagar	(M.P.)	6.827	2.911	4.597	4.279	2.873	2.873	3.620	2.832	4.358	3.717	2.702	4.211	3.290	2.702	4.044	3.321
44	Tawa	(M.P.)	1.944	1.518	1.489	1.843	1.443	1.410	1.788	1.349	1.307	1.704	1.255	1.219	1.632	1.182	1.160	1.568
*45	Bargi	(M.P.)	3.180	2.646	2.744	2.828	2.590	2.716	2.775	2.562	2.688	2.720	2.520	2.674	2.671	2.464	2.632	2.610
*46	Bansagar	(M.P.)	5.166	4.718	3.638	3.646	4.718	3.596	3.324	4.673	3.523	3.457	4.615	3.466	3.408	4.615	3.423	3.402
*47	Indira Sagar	(M.P.)	9.745	8.722	3.733	7.251	9.542	3.557	7.023	8.297	3.454	6.876	8.132	3.442	6.598	7.993	3.433	6.423
48	Barna	(M.P.)	0.456	0.201	0.229	0.348	0.200	0.226	0.340	0.197	0.224	0.338	0.195	0.222	0.330	0.195	0.211	0.318
*49	Minimata Bangoi	(CHH.)	3.046	2.008	1.987	2.049	2.002	1.980	1.984	1.993	1.967	2.036	1.986	1.963	2.033	1.975	1.949	2.026
50	Mahanadi	(CHH.)	0.767	0.494	0.302	0.498	0.538	0.301	0.536	0.537	0.295	0.540	0.534	0.294	0.540	0.527	0.289	0.541
51	Jayakwadi(Paithon)	(MAH)	2.171	0.651	2.171	1.082	0.706	2.149	1.062	0.662	2.132	1.047	0.624	2.104	1.036	0.588	2.039	1.020
*52	Koyana	(MAH)	2.652	2.392	2.652	2.519	2.380	2.652	2.498	2.317	2.652	2.456	2.300	2.652	2.412	2.283	2.646	2.389
53	Bhima(Ujjani)	(MAH)	1.517	1.261	1.517	1.253	1.188	1.517	1.240	1.027	1.517	1.211	0.943	1.517	1.196	0.840	1.517	1.181
54	Isapur	(MAH)	0.965	0.623	0.151	0.564	0.618	0.149	0.577	0.600	0.147	0.549	0.571	0.145	0.540	0.539	0.143	0.526
55	Mula	(MAH)	0.609	0.393	0.608	0.505	0.329	0.604	0.520	0.319	0.601	0.493	0.307	0.597	0.516	0.281	0.595	0.483
56	Yeldari	(MAH)	0.809	0.073	0.111	0.363	0.073	0.111	0.363	0.071	0.110	0.344	0.070	0.108	0.331	0.069	0.107	0.325
57	Girna	(MAH)	0.524	0.244	0.375	0.243	0.225	0.373	0.260	0.200	0.371	0.241	0.199	0.370	0.240	0.198	0.368	0.235
58	Khadakvasla	(MAH)	0.056	0.038	0.051	0.037	0.034	0.043	0.036	0.042	0.047	0.039	0.040	0.048	0.039	0.037	0.047	0.039
*59	Upper Vaitarna	(MAH.)	0.331	0.318	0.331	0.305	0.314	0.330	0.303	0.306	0.328	0.299	0.299	0.327	0.297	0.293	0.326	0.294
60	Upper Tapi	(MAH.)	0.255	0.254	0.255	0.255	0.244	0.255	0.255	0.238	0.255	0.254	0.226	0.255	0.250	0.216	0.243	0.244
*61	Pench (Totaladoh)	(MAH.)	1.091	0.147	0.333	0.691	0.139	0.323	0.660	0.136	0.316	0.631	0.132	0.312	0.617	0.128	0.308	0.601
62	Upper Wardha	(MAH.)	0.564	0.240	0.564	0.516	0.221	0.548	0.505	0.217	0.525	0.495	0.212	0.511	0.485	0.204	0.484	0.466
63	Bhatsa	(MAH.)	0.942	0.809	0.911	0.860	0.796	0.898	0.848	0.770	0.874	0.826	0.754	0.858	0.811	0.736	0.840	0.794
64	Dhom	(MAH.)	0.331	0.273	0.328	0.304	0.263	0.328	0.283	0.245	0.319	0.278	0.233	0.302	0.269	0.232	0.290	0.257
65	Dudhganga	(MAH.)	0.664	0.627	0.664	0.642	0.615	0.664	0.653	0.608	0.664	0.624	0.590	0.650	0.612	0.576	0.635	0.602
66	Manikdoh (Kukadi)	(MAH.)	0.288	0.177	0.240	0.171	0.151	0.239	0.181	0.129	0.239	0.166	0.108	0.238	0.160	0.087	0.237	0.152
67	Bhandardara	(MAH.)	0.304	0.194	0.304	0.284	0.156	0.304	0.295	0.128	0.303	0.280	0.126	0.303	0.294	0.126	0.302	0.276
*68	Hirakud	(ODI)	5.378	4.316	4.704	4.863	4.227	4.674	4.814	4.091	4.548	4.639	4.058	4.491	4.637	3.994	4.464	4.621
*69	Balimela	(ODI)	2.676	2.413	1.315	1.563	2.347	1.298	1.524	2.347	1.267	1.562	2.347	1.243	1.663	2.325	1.220	1.370
70	Salanadi	(ODI)	0.558	0.373	0.244	0.201	0.335	0.240	0.234	0.319	0.236	0.201	0.318	0.239	0.199	0.317	0.240	0.205
*71	Rengali	(ODI)	3.432	1.890	3.373	2.929	1.856	3.355	2.938	1.829	3.320	2.899	1.802	3.295	2.942	1.751	3.283	2.691
*72	Machkund(Jalput)	(ODI)	0.893	0.803	0.861	0.788	0.794	0.864	0.782	0.780	0.871	0.767	0.764	0.864	0.785	0.750	0.862	0.752
*73	Upper Kolab	(ODI)	0.935	0.739	0.581	0.597	0.726	0.579	0.563	0.715	0.572	0.560	0.702	0.572	0.593	0.695	0.576	0.517
*74	Upper Indravati	(ODI)	1.456	1.175	0.882	1.049	1.159	0.867	1.037	1.142	0.856	1.018	1.122	0.855	1.015	1.091	0.859	1.016
*75	Thein	(PUN)	2.344	2.118	1.360	1.361	2.039	1.294	1.348	1.959	1.192	1.306	1.880	1.141	1.273	1.841	1.086	1.238
*76	Mahi Bajaj Sagar	(RAJ)	1.711	1.711	1.711	1.488	1.711	1.711	1.475	1.697	1.711	1.453	1.666	1.710	1.432	1.613	1.658	1.384

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 01.11.2018			As per Bulleting dated 08.11.2018			As per Bulleting dated 15.11.2018			As per Bulleting dated 22.11.2018			As per Bulleting dated 29.11.2018		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
77	**Jhakam**	(RAJ)	0.132	0.132	0.132	0.114	0.132	0.130	0.112	0.126	0.125	0.107	0.120	0.121	0.102	0.113	0.112	0.095
***78**	**Rana Pratap Sagar**	(RAJ)	1.436	0.746	0.430	0.956	0.651	0.309	0.899	0.569	0.321	0.758	0.539	0.347	0.721	0.536	0.343	0.689
79	**Lower Bhawani**	(TN)	0.792	0.792	0.389	0.352	0.792	0.380	0.361	0.792	0.350	0.406	0.788	0.332	0.413	0.767	0.323	0.432
***80**	**Mettur(Stanley)**	(TN)	2.647	1.765	1.334	1.133	1.815	1.335	1.243	1.842	1.316	1.329	1.881	1.242	1.349	1.963	1.090	1.406
81	**Vaigai**	(TN)	0.172	0.158	0.080	0.076	0.158	0.087	0.083	0.145	0.093	0.092	0.126	0.088	0.089	0.096	0.069	0.092
82	**Parambikulam**	(TN)	0.380	0.350	0.185	0.287	0.349	0.188	0.286	0.345	0.200	0.283	0.344	0.199	0.282	0.342	0.186	0.277
83	**Aliyar**	(TN)	0.095	0.085	0.037	0.072	0.085	0.042	0.074	0.079	0.038	0.075	0.082	0.034	0.074	0.087	0.032	0.074
***84**	**Sholayar**	(TN)	0.143	0.117	0.082	0.106	0.112	0.068	0.103	0.107	0.059	0.101	0.107	0.051	0.099	0.104	0.031	0.093
85	**Gumti**	(TRP)	0.312	0.254	0.312	0.181	0.247	0.310	0.176	0.242	0.301	0.176	0.236	0.291	0.169	0.228	0.283	0.160
86	**Matatila**	(UP)	0.707	0.495	0.449	0.518	0.446	0.425	0.534	0.410	0.419	0.450	0.410	0.419	0.450	0.357	0.341	0.426
***87**	**Rihand**	(UP)	5.649	3.279	3.267	2.867	3.220	3.208	2.890	3.113	3.172	2.773	3.066	3.149	2.741	3.019	3.125	2.703
***88**	**Ramganga**	(UTT)	2.196	1.457	1.386	1.565	1.460	1.389	1.565	1.462	1.402	1.538	1.464	1.409	1.572	1.467	1.408	1.570
***89**	**Tehri**	(UTT)	2.615	2.474	2.332	2.258	2.435	2.295	2.234	2.394	2.258	2.227	2.348	2.210	2.171	2.295	2.158	2.124
90	**Mayurakshi**	(WB)	0.480	0.124	0.476	0.215	0.123	0.473	0.225	0.122	0.464	0.216	0.121	0.458	0.228	0.120	0.456	0.228
91	**Kangsabati**	(WB)	0.914	0.336	0.807	0.427	0.336	0.808	0.442	0.336	0.808	0.424	0.336	0.813	0.446	0.336	0.814	0.447
	Reservoirs		161.993	109.247	110.147	112.354	107.883	105.913	109.842	103.735	104.886	107.430	101.731	103.236	105.855	98.353	99.290	103.087
	Percentage			67.439	67.995	69.357	66.597	65.381	67.807	64.037	64.747	66.318	62.800	63.729	65.345	60.714	61.293	63.637

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 06.12.2018			As per Bulleting dated 13.12.2018			As per Bulleting dated 20.12.2018			As per Bulleting dated 27.12.2018		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*1	Srisailam	(AP/TG)	8.288	2.138	4.269	4.657	2.012	4.104	4.600	1.836	3.984	4.511	1.714	3.925	4.450
*2	Nagarjuna Sagar	(AP/TG)	6.841	2.218	2.921	3.018	2.144	2.663	2.871	2.150	2.281	2.678	2.106	2.002	2.537
3	Somasila	(A.P)	1.994	0.989	1.293	1.469	0.938	1.255	1.436	0.882	1.204	1.418	0.837	1.149	1.393
4	Sriramsagar	(TG)	2.300	0.962	1.344	1.333	0.956	1.337	1.312	0.944	1.337	1.283	0.938	1.301	1.250
5	Lower Manair	(TG)	0.621	0.240	0.417	0.384	0.238	0.414	0.388	0.240	0.411	0.387	0.295	0.408	0.379
6	Tenughat	(JHAR)	0.821	0.384	0.410	0.373	0.380	0.411	0.372	0.376	0.411	0.369	0.375	0.410	0.367
7	Maithon	(JHAR)	0.471	0.246	0.471	0.404	0.249	0.471	0.402	0.255	0.471	0.400	0.254	0.471	0.398
*8	Panchet Hill	(JHAR)	0.184	0.144	0.184	0.156	0.144	0.184	0.157	0.143	0.184	0.157	0.147	0.184	0.156
9	Konar	(JHAR)	0.176	0.130	0.133	0.148	0.128	0.131	0.145	0.125	0.130	0.142	0.123	0.128	0.141
10	Tilaiya	(JHAR)	0.142	0.089	0.078	0.109	0.073	0.077	0.105	0.061	0.076	0.099	0.048	0.076	0.095
*11	Ukai	(GUJ)	6.615	2.176	2.968	4.530	1.971	2.825	4.413	1.850	2.734	4.320	1.792	2.707	4.258
12	Sabarmati(Dharoi)	(GUJ)	0.735	0.166	0.516	0.443	0.162	0.488	0.425	0.158	0.453	0.408	0.153	0.408	0.383
*13	Kadana	(GUJ)	1.472	0.964	1.002	0.959	0.945	0.999	0.952	0.917	0.987	0.942	0.893	0.954	0.923
14	Shetrunji	(GUJ)	0.300	0.066	0.163	0.197	0.064	0.160	0.185	0.064	0.157	0.181	0.063	0.155	0.187
15	Bhadar	(GUJ)	0.188	0.043	0.132	0.101	0.041	0.127	0.097	0.039	0.118	0.085	0.037	0.110	0.086
16	Damanaganga	(GUJ)	0.502	0.325	0.454	0.450	0.313	0.454	0.443	0.298	0.449	0.432	0.287	0.442	0.420
17	Dantiwada	(GUJ)	0.399	0.034	0.318	0.132	0.034	0.308	0.122	0.033	0.298	0.121	0.033	0.283	0.104
18	Panam	(GUJ)	0.697	0.511	0.491	0.441	0.501	0.485	0.432	0.488	0.479	0.423	0.476	0.467	0.411
*19	Sardar Sarovar	(GUJ)	5.760	2.162	1.756	1.331	2.037	1.564	1.328	1.672	1.332	1.264	1.870	1.109	1.222
20	Karjan	(GUJ)	0.523	0.401	0.418	0.422	0.397	0.418	0.414	0.390	0.417	0.407	0.383	0.416	0.401
*21	Gobind Sagar(Bhakra)	(H.P)	6.229	5.279	4.649	4.521	5.218	4.495	4.406	5.096	4.340	4.221	4.933	4.139	4.052
*22	Pong Dam	(H.P)	6.157	4.743	3.750	3.843	4.580	3.540	3.648	4.377	3.368	3.378	4.170	3.179	3.205
23	Krishnaraja Sagra	(KAR)	1.163	0.951	0.706	0.814	0.939	0.713	0.790	0.929	0.713	0.768	0.917	0.651	0.735
*24	Tungabhadra	(KAR)	3.276	1.208	1.517	1.819	1.128	1.376	1.725	1.024	1.306	1.630	0.901	1.254	1.533
25	Ghataprabha	(KAR)	1.391	0.925	1.052	0.915	0.922	0.981	0.873	0.919	0.975	0.821	0.869	0.971	0.848
26	Bhadra	(KAR)	1.785	1.536	1.261	1.402	1.538	1.265	1.379	1.540	1.266	1.399	1.542	1.265	1.432
27	Linganamakki	(KAR)	4.294	3.373	2.395	3.061	3.261	2.320	2.986	3.176	2.274	2.939	3.051	2.210	2.840
28	Narayanpur	(KAR)	0.863	0.248	0.570	0.662	0.225	0.574	0.643	0.219	0.589	0.640	0.225	0.590	0.659
29	Malaprabha(Renuka)	(KAR)	0.972	0.344	0.295	0.457	0.316	0.280	0.452	0.258	0.204	0.394	0.242	0.200	0.420
30	Kabini(Sancherla Tank)	(KAR)	0.444	0.324	0.331	0.149	0.323	0.325	0.145	0.315	0.315	0.148	0.317	0.290	0.146
31	Hemavathy	(KAR)	0.927	0.407	0.216	0.400	0.368	0.215	0.362	0.310	0.211	0.322	0.263	0.204	0.280
32	Harangi	(KAR)	0.220	0.050	0.067	0.061	0.037	0.058	0.048	0.031	0.058	0.038	0.033	0.060	0.030
33	Supa	(KAR)	4.120	3.268	2.355	2.488	3.196	2.315	2.445	3.126	2.278	2.415	3.035	2.247	2.361

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 06.12.2018			As per Bulleting dated 13.12.2018			As per Bulleting dated 20.12.2018			As per Bulleting dated 27.12.2018		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
34	Vanivilas Sagar	(KAR)	0.802	0.027	0.020	0.143	0.026	0.020	0.151	0.025	0.019	0.143	0.025	0.019	0.143
*35	Almatti	(KAR)	3.105	1.416	2.433	2.106	1.348	2.396	2.038	1.324	2.127	1.915	1.297	1.906	1.780
*36	Gerusoppa	(KAR)	0.130	0.115	0.111	0.108	0.096	0.097	0.105	0.102	0.106	0.101	0.120	0.117	0.105
37	Kallada(Parappar)	(KRL)	0.507	0.440	0.471	0.414	0.443	0.474	0.413	0.446	0.478	0.406	0.448	0.477	0.402
*38	Idamalayar	(KRL)	1.018	0.678	0.770	0.727	0.669	0.759	0.716	0.656	0.738	0.703	0.643	0.721	0.687
*39	Idukki	(KRL)	1.460	1.142	0.999	0.947	1.133	0.997	0.940	1.119	0.983	0.921	1.094	0.971	0.907
*40	Kakki	(KRL)	0.447	0.322	0.393	0.361	0.319	0.395	0.359	0.315	0.393	0.354	0.307	0.388	0.348
*41	Periyar	(KRL)	0.173	0.117	0.119	0.114	0.109	0.107	0.108	0.096	0.090	0.100	0.086	0.073	0.091
42	Malampuzha	(KRL)	0.224	0.154	0.126	0.161	0.140	0.120	0.151	0.134	0.107	0.139	0.119	0.096	0.128
*43	Gandhi Sagar	(M.P.)	6.827	2.380	3.866	3.537	2.380	3.743	3.545	2.105	3.572	3.314	1.915	3.464	3.494
44	Tawa	(M.P.)	1.944	1.113	1.087	1.498	1.036	1.004	1.417	0.946	0.905	1.330	0.851	0.814	1.248
*45	Bargi	(M.P.)	3.180	2.394	2.604	2.546	2.352	2.548	2.464	2.282	2.506	2.389	2.184	2.478	2.313
*46	Bansagar	(M.P.)	5.166	4.479	3.358	3.102	4.479	3.311	3.282	4.354	3.240	3.215	4.270	3.200	3.205
*47	Indira Sagar	(M.P.)	9.745	7.609	3.369	6.210	7.312	3.306	5.939	7.154	3.207	5.783	6.833	3.133	5.546
48	Barna	(M.P.)	0.456	0.179	0.200	0.295	0.179	0.185	0.289	0.144	0.175	0.282	0.144	0.162	0.262
*49	Minimata Bangoi	(CHH.)	3.046	1.965	1.939	2.009	1.956	1.929	2.014	1.956	1.919	2.008	1.953	1.909	2.001
50	Mahanadi	(CHH.)	0.767	0.524	0.282	0.542	0.524	0.325	0.559	0.551	0.380	0.581	0.552	0.415	0.589
51	Jayakwadi(Paithon)	(MAH)	2.171	0.578	2.014	1.017	0.538	1.927	0.998	0.516	1.906	0.981	0.483	1.842	0.945
*52	Koyana	(MAH)	2.652	2.266	2.616	2.357	2.230	2.586	2.282	2.205	2.550	2.247	2.180	2.525	2.199
53	Bhima(Ujjani)	(MAH)	1.517	0.800	1.517	1.139	0.740	1.517	1.154	0.701	1.517	1.110	0.667	1.517	1.095
54	Isapur	(MAH)	0.965	0.510	0.141	0.508	0.489	0.138	0.493	0.469	0.133	0.429	0.465	0.126	0.460
55	Mula	(MAH)	0.609	0.248	0.590	0.465	0.248	0.590	0.465	0.248	0.590	0.465	0.159	0.561	0.413
56	Yeldari	(MAH)	0.809	0.068	0.106	0.324	0.067	0.104	0.314	0.066	0.103	0.255	0.065	0.075	0.292
57	Girna	(MAH)	0.524	0.197	0.366	0.229	0.195	0.348	0.220	0.194	0.323	0.212	0.193	0.297	0.205
58	Khadakvasla	(MAH)	0.056	0.028	0.052	0.040	0.026	0.043	0.037	0.033	0.030	0.034	0.033	0.029	0.034
*59	Upper Vaitarna	(MAH.)	0.331	0.289	0.325	0.291	0.287	0.323	0.288	0.281	0.319	0.280	0.276	0.311	0.282
60	Upper Tapi	(MAH.)	0.255	0.212	0.238	0.240	0.205	0.232	0.235	0.191	0.226	0.227	0.185	0.220	0.223
*61	Pench (Totaladoh)	(MAH.)	1.091	0.123	0.301	0.590	0.118	0.285	0.577	0.113	0.267	0.529	0.108	0.242	0.548
62	Upper Wardha	(MAH.)	0.564	0.184	0.460	0.447	0.167	0.439	0.427	0.160	0.434	0.410	0.157	0.414	0.393
63	Bhatsa	(MAH.)	0.942	0.719	0.821	0.778	0.699	0.802	0.761	0.681	0.783	0.744	0.665	0.764	0.725
64	Dhom	(MAH.)	0.331	0.213	0.283	0.272	0.216	0.268	0.239	0.203	0.261	0.239	0.188	0.261	0.225
65	Dudhganga	(MAH.)	0.664	0.575	0.629	0.595	0.546	0.612	0.575	0.530	0.599	0.562	0.510	0.586	0.548

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 06.12.2018			As per Bulleting dated 13.12.2018			As per Bulleting dated 20.12.2018			As per Bulleting dated 27.12.2018		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
66	**Manikdoh (Kukadi)**	(MAH.)	0.288	0.066	0.236	0.144	0.055	0.235	0.138	0.042	0.234	0.131	0.042	0.233	0.125
67	**Bhandardara**	(MAH.)	0.304	0.125	0.301	0.267	0.125	0.300	0.258	0.125	0.299	0.248	0.125	0.298	0.242
***68**	**Hirakud**	(ODI)	5.378	3.940	4.434	4.598	3.885	4.410	4.513	3.863	4.375	4.495	3.863	4.305	4.398
***69**	**Balimela**	(ODI)	2.676	2.325	1.192	1.508	2.320	1.166	1.459	2.304	1.118	1.580	2.246	1.065	1.559
70	**Salanadi**	(ODI)	0.558	0.316	0.240	0.203	0.316	0.240	0.201	0.316	0.240	0.201	0.315	0.240	0.200
***71**	**Rengali**	(ODI)	3.432	1.699	3.264	2.740	1.669	3.255	2.739	1.662	3.225	2.686	1.655	3.187	2.627
***72**	**Machkund(Jalput)**	(ODI)	0.893	0.735	0.853	0.757	0.721	0.847	0.749	0.736	0.836	0.738	0.734	0.825	0.731
***73**	**Upper Kolab**	(ODI)	0.935	0.702	0.576	0.547	0.703	0.575	0.576	0.699	0.571	0.574	0.673	0.565	0.569
***74**	**Upper Indravati**	(ODI)	1.456	1.084	0.857	0.983	1.091	0.858	1.011	1.110	0.852	1.010	1.103	0.841	1.003
***75**	**Thein**	(PUN)	2.344	1.721	1.037	1.195	1.660	1.013	1.150	1.599	0.964	1.094	1.538	0.892	1.015
***76**	**Mahi Bajaj Sagar**	(RAJ)	1.711	1.516	1.577	1.315	1.439	1.522	1.257	1.144	1.467	1.164	1.317	1.387	1.125
77	**Jhakam**	(RAJ)	0.132	0.107	0.108	0.091	0.106	0.106	0.088	0.100	0.099	0.081	0.092	0.093	0.077
***78**	**Rana Pratap Sagar**	(RAJ)	1.436	0.544	0.361	0.687	0.546	0.359	0.657	0.528	0.343	0.618	0.517	0.331	0.569
79	**Lower Bhawani**	(TN)	0.792	0.756	0.368	0.442	0.739	0.357	0.428	0.705	0.330	0.403	0.681	0.328	0.384
***80**	**Mettur(Stanley)**	(TN)	2.647	1.967	1.135	1.472	1.901	1.170	1.446	1.673	1.035	1.387	1.450	0.891	1.336
81	**Vaigai**	(TN)	0.172	0.094	0.096	0.091	0.089	0.056	0.084	0.077	0.050	0.081	0.084	0.041	0.079
82	**Parambikulam**	(TN)	0.380	0.338	0.184	0.272	0.336	0.174	0.267	0.331	0.156	0.261	0.323	0.148	0.253
83	**Aliyar**	(TN)	0.095	0.083	0.037	0.073	0.082	0.038	0.072	0.074	0.035	0.068	0.066	0.025	0.064
***84**	**Sholayar**	(TN)	0.143	0.101	0.021	0.087	0.097	0.018	0.080	0.091	0.011	0.070	0.086	0.003	0.059
85	**Gumti**	(TRP)	0.312	0.222	0.278	0.147	0.215	0.270	0.146	0.209	0.268	0.140	0.201	0.270	0.135
86	**Matatila**	(UP)	0.707	0.309	0.389	0.441	0.285	0.431	0.439	0.274	0.425	0.418	0.283	0.341	0.395
***87**	**Rihand**	(UP)	5.649	2.971	3.054	2.657	2.865	2.983	2.604	2.758	2.865	2.541	2.626	2.734	2.458
***88**	**Ramganga**	(UTT)	2.196	1.471	1.407	1.520	1.465	1.404	1.549	1.444	1.341	1.515	1.386	1.294	1.462
***89**	**Tehri**	(UTT)	2.615	2.238	2.104	2.072	2.174	2.054	2.024	2.088	1.982	1.965	2.020	1.927	1.908
90	**Mayurakshi**	(WB)	0.480	0.120	0.457	0.216	0.118	0.457	0.215	0.117	0.457	0.215	0.117	0.457	0.214
91	**Kangsabati**	(WB)	0.914	0.336	0.814	0.425	0.335	0.814	0.425	0.333	0.814	0.418	0.333	0.811	0.406
	Reservoirs		161.993	94.994	96.888	100.711	92.387	94.374	98.631	88.943	91.188	95.650	86.373	88.010	93.331
	Percentage			58.641	59.810	62.170	57.031	58.258	60.886	54.905	56.291	59.046	53.319	54.330	57.614

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 03.01.2019			As per Bulleting dated 10.01.2019			As per Bulleting dated 17.01.2019			As per Bulleting dated 24.01.2019			As per Bulleting dated 31.01.2019		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
*1	Srisailam	(AP/TG)	8.288	1.598	3.876	4.171	1.569	3.743	4.068	1.543	3.569	3.868	1.465	3.160	3.697	1.445	2.874	3.525
*2	Nagarjuna Sagar	(AP/TG)	6.841	1.898	1.634	2.153	1.688	1.360	1.981	1.593	1.223	1.805	1.447	1.105	1.670	1.343	0.984	1.545
3	Somasila	(A.P)	1.994	0.779	1.071	1.351	0.730	1.020	1.319	0.680	0.955	1.279	0.615	0.931	1.235	0.565	0.849	1.173
4	Sriramsagar	(TG)	2.300	0.926	1.195	1.226	0.914	1.181	1.252	0.896	1.058	1.107	0.866	1.040	1.042	0.848	0.932	0.969
5	Lower Manair	(TG)	0.621	0.292	0.407	0.376	0.289	0.373	0.377	0.286	0.361	0.361	0.283	0.342	0.342	0.281	0.321	0.337
6	Tenughat	(JHAR)	0.821	0.371	0.409	0.386	0.368	0.408	0.383	0.365	0.404	0.381	0.363	0.400	0.378	0.361	0.395	0.375
7	Maithon	(JHAR)	0.471	0.256	0.471	0.405	0.258	0.471	0.412	0.258	0.471	0.407	0.252	0.471	0.402	0.243	0.471	0.385
*8	Panchet Hill	(JHAR)	0.184	0.146	0.184	0.154	0.145	0.184	0.158	0.143	0.184	0.157	0.140	0.184	0.156	0.138	0.184	0.150
9	Konar	(JHAR)	0.176	0.122	0.126	0.138	0.120	0.123	0.134	0.118	0.109	0.133	0.116	0.099	0.129	0.111	0.093	0.127
10	Tilaiya	(JHAR)	0.142	0.033	0.074	0.088	0.020	0.066	0.078	0.019	0.058	0.071	0.019	0.051	0.065	0.018	0.043	0.063
*11	Ukai	(GUJ)	6.615	1.764	2.652	4.212	1.740	2.621	4.137	1.723	2.590	4.086	1.704	2.559	4.002	1.685	2.528	3.900
12	Sabarmati(Dharoi)	(GUJ)	0.735	0.328	0.380	0.362	0.145	0.350	0.346	0.141	0.310	0.330	0.137	0.285	0.311	0.133	0.273	0.299
*13	Kadana	(GUJ)	1.472	0.865	0.926	0.907	0.848	0.907	0.899	0.826	0.879	0.891	0.804	0.843	0.880	0.788	0.832	0.868
14	Shetrunji	(GUJ)	0.300	0.062	0.152	0.182	0.059	0.150	0.176	0.057	0.145	0.169	0.056	0.138	0.161	0.054	0.122	0.153
15	Bhadar	(GUJ)	0.188	0.035	0.102	0.085	0.033	0.095	0.076	0.031	0.088	0.072	0.030	0.078	0.067	0.029	0.071	0.064
16	Damanaganga	(GUJ)	0.502	0.276	0.426	0.408	0.263	0.411	0.396	0.249	0.402	0.384	0.242	0.396	0.374	0.233	0.383	0.363
17	Dantiwada	(GUJ)	0.399	0.033	0.273	0.095	0.032	0.263	0.088	0.032	0.250	0.080	0.031	0.235	0.071	0.031	0.229	0.066
18	Panam	(GUJ)	0.697	0.464	0.457	0.404	0.457	0.451	0.398	0.448	0.442	0.391	0.436	0.433	0.382	0.431	0.430	0.375
*19	Sardar Sarovar	(GUJ)	5.760	1.845	0.894	1.171	1.751	0.705	1.160	1.644	0.518	1.125	1.397	0.343	1.053	1.119	0.216	1.037
20	Karjan	(GUJ)	0.523	0.370	0.414	0.393	0.360	0.411	0.386	0.359	0.400	0.376	0.357	0.380	0.367	0.354	0.367	0.362
*21	Gobind Sagar(Bhakra)	(H.P)	6.229	4.759	3.928	3.872	4.626	3.722	3.691	4.466	3.515	3.516	4.291	3.296	3.347	4.084	3.139	3.171
*22	Pong Dam	(H.P)	6.157	3.983	2.970	3.133	3.815	2.792	2.900	3.640	2.631	2.761	3.508	2.493	2.635	3.368	2.355	2.526
23	Krishnaraja Sagra	(KAR)	1.163	0.910	0.594	0.722	0.906	0.592	0.725	0.872	0.552	0.698	0.832	0.480	0.654	0.794	0.472	0.628
*24	Tungabhadra	(KAR)	3.276	0.807	1.177	1.418	0.718	1.021	1.298	0.631	0.866	1.162	0.581	0.784	1.064	0.548	0.700	0.958
25	Ghataprabha	(KAR)	1.391	0.757	0.966	0.693	0.672	0.855	0.624	0.632	0.818	0.576	0.629	0.704	0.534	0.626	0.701	0.479
26	Bhadra	(KAR)	1.785	1.543	1.266	1.414	1.543	1.227	1.389	1.447	1.167	1.347	1.406	1.089	1.307	1.346	1.002	1.253
27	Linganamakki	(KAR)	4.294	2.948	2.149	2.754	2.834	2.082	2.727	2.719	2.012	2.569	2.598	1.906	2.529	2.486	1.829	2.367
28	Narayanpur	(KAR)	0.863	0.231	0.582	0.669	0.239	0.571	0.664	0.228	0.551	0.659	0.230	0.500	0.652	0.230	0.501	0.643
29	Malaprabha(Renuka)	(KAR)	0.972	0.235	0.194	0.329	0.223	0.188	0.288	0.211	0.174	0.265	0.148	0.169	0.239	0.169	0.164	0.208
30	Kabini(Sancherla Tank)	(KAR)	0.444	0.319	0.282	0.151	0.319	0.279	0.152	0.314	0.273	0.170	0.308	0.268	0.171	0.308	0.264	0.170
31	Hemavathy	(KAR)	0.927	0.234	0.203	0.249	0.233	0.202	0.235	0.204	0.200	0.218	0.171	0.198	0.208	0.166	0.191	0.204
32	Harangi	(KAR)	0.220	0.035	0.061	0.030	0.036	0.061	0.030	0.038	0.063	0.035	0.039	0.063	0.037	0.040	0.064	0.036
33	Supa	(KAR)	4.120	2.954	2.230	2.317	2.872	2.203	2.327	2.787	2.177	2.224	2.704	2.118	2.221	2.618	2.101	2.122
34	Vanivilas Sagar	(KAR)	0.802	0.025	0.019	0.143	0.024	0.018	0.140	0.023	0.017	0.138	0.023	0.017	0.145	0.022	0.016	0.132
*35	Almatti	(KAR)	3.105	1.253	1.859	1.570	1.202	1.735	1.510	1.159	1.500	1.363	1.125	1.434	1.244	1.089	1.379	1.137
*36	Gerusoppa	(KAR)	0.130	0.117	0.116	0.110	0.110	0.119	0.105	0.117	0.118	0.111	0.117	0.110	0.110	0.123	0.118	0.108
37	Kallada(Parappar)	(KRL)	0.507	0.448	0.478	0.398	0.447	0.482	0.394	0.446	0.485	0.387	0.444	0.482	0.380	0.437	0.480	0.372
*38	Idamalayar	(KRL)	1.018	0.633	0.717	0.677	0.629	0.705	0.665	0.607	0.677	0.641	0.589	0.662	0.624	0.571	0.636	0.605
*39	Idukki	(KRL)	1.460	1.079	0.963	0.897	1.065	0.955	0.882	1.038	0.919	0.851	1.016	0.900	0.827	0.994	0.881	0.807

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 03.01.2019			As per Bulleting dated 10.01.2019			As per Bulleting dated 17.01.2019			As per Bulleting dated 24.01.2019			As per Bulleting dated 31.01.2019		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
*40	Kakki	(KRL)	0.447	0.305	0.387	0.344	0.302	0.384	0.339	0.294	0.374	0.331	0.288	0.370	0.324	0.282	0.365	0.319
*41	Periyar	(KRL)	0.173	0.073	0.064	0.085	0.067	0.062	0.079	0.056	0.051	0.064	0.050	0.043	0.056	0.047	0.036	0.052
42	Malampuzha	(KRL)	0.224	0.105	0.092	0.118	0.101	0.078	0.104	0.086	0.066	0.093	0.072	0.065	0.082	0.066	0.052	0.071
*43	Gandhi Sagar	(M.P.)	6.827	1.788	3.262	3.253	1.649	3.082	2.949	1.496	2.904	2.847	1.361	2.751	2.759	1.178	2.569	2.333
44	Tawa	(M.P.)	1.944	0.770	0.732	1.163	0.684	0.637	1.110	0.585	0.531	0.997	0.474	0.408	0.903	0.359	0.306	0.828
*45	Bargi	(M.P.)	3.180	2.104	2.450	2.240	2.038	2.394	2.171	1.983	2.310	2.095	1.929	2.268	2.039	1.898	2.212	1.990
*46	Bansagar	(M.P.)	5.166	4.207	3.114	3.014	4.140	3.045	2.955	4.065	2.991	2.878	4.007	2.934	2.867	4.408	2.876	2.615
*47	Indira Sagar	(M.P.)	9.745	9.542	3.048	5.307	6.254	2.992	5.082	6.171	2.929	4.791	6.087	2.868	4.582	5.961	2.831	4.274
48	Barna	(M.P.)	0.456	0.144	0.154	0.251	0.122	0.139	0.236	0.114	0.125	0.219	0.097	0.110	0.210	0.091	0.098	0.188
*49	Minimata Bangoi	(CHH.)	3.046	1.946	1.898	1.994	1.936	1.885	1.988	1.922	1.875	1.974	1.901	1.867	1.956	1.884	1.857	1.929
50	Mahanadi	(CHH.)	0.767	0.550	0.432	0.573	0.545	0.430	0.569	0.541	0.425	0.558	0.529	0.423	0.548	0.505	0.420	0.524
51	Jayakwadi(Paithon)	(MAH)	2.171	0.457	1.798	0.917	0.423	1.766	0.883	0.403	1.743	0.851	0.389	1.690	0.815	0.371	1.644	0.790
*52	Koyana	(MAH)	2.652	2.169	2.489	2.151	2.169	2.489	2.151	2.118	2.368	2.066	2.089	2.317	2.000	2.060	2.277	1.953
53	Bhima(Ujjani)	(MAH)	1.517	0.635	1.517	1.051	0.622	1.517	1.036	0.556	1.514	1.007	0.426	1.361	0.977	0.385	1.248	0.930
54	Isapur	(MAH)	0.965	0.455	0.105	0.448	0.423	0.077	0.438	0.395	0.066	0.428	0.375	0.063	0.411	0.368	0.059	0.396
55	Mula	(MAH)	0.609	0.144	0.529	0.398	0.144	0.529	0.398	0.138	0.471	0.371	0.135	0.461	0.358	0.132	0.459	0.345
56	Yeldari	(MAH)	0.809	0.056	0.046	0.277	0.021	0.045	0.273	0.000	0.044	0.262	0.000	0.043	0.249	0.000	0.042	0.235
57	Girna	(MAH)	0.524	0.192	0.278	0.197	0.191	0.258	0.189	0.178	0.243	0.182	0.155	0.221	0.170	0.154	0.198	0.156
58	Khadakvasla	(MAH)	0.056	0.034	0.035	0.035	0.035	0.040	0.034	0.032	0.042	0.034	0.031	0.041	0.033	0.031	0.033	0.030
*59	Upper Vaitarna	(MAH.)	0.331	0.276	0.311	0.282	0.266	0.296	0.268	0.256	0.276	0.259	0.250	0.265	0.253	0.242	0.253	0.245
60	Upper Tapi	(MAH.)	0.255	0.180	0.212	0.218	0.175	0.190	0.211	0.170	0.184	0.204	0.166	0.181	0.199	0.147	0.168	0.191
*61	Pench (Totaladoh)	(MAH.)	1.091	0.105	0.216	0.531	0.100	0.201	0.503	0.098	0.195	0.483	0.096	0.189	0.464	0.095	0.182	0.448
62	Upper Wardha	(MAH.)	0.564	0.154	0.398	0.378	0.151	0.392	0.363	0.147	0.372	0.348	0.145	0.354	0.332	0.141	0.347	0.318
63	Bhatsa	(MAH.)	0.942	0.665	0.764	0.725	0.629	0.722	0.686	0.612	0.703	0.668	0.593	0.683	0.650	0.578	0.665	0.631
64	Dhom	(MAH.)	0.331	0.186	0.261	0.230	0.180	0.256	0.221	0.166	0.229	0.201	0.159	0.227	0.194	0.143	0.227	0.181
65	Dudhganga	(MAH.)	0.664	0.498	0.568	0.536	0.498	0.568	0.536	0.471	0.540	0.509	0.439	0.528	0.489	0.423	0.520	0.476
66	Manikdoh (Kukadi)	(MAH.)	0.288	0.042	0.220	0.120	0.042	0.220	0.120	0.039	0.181	0.111	0.039	0.176	0.117	0.038	0.174	0.097
67	Bhandardara	(MAH.)	0.304	0.124	0.297	0.238	0.124	0.296	0.234	0.123	0.295	0.230	0.123	0.295	0.225	0.123	0.279	0.220
*68	Hirakud	(ODI)	5.378	3.834	4.176	4.401	3.748	4.051	4.239	3.665	3.916	4.037	3.556	3.793	3.890	3.468	3.697	3.944
*69	Balimela	(ODI)	2.676	2.215	1.015	1.404	2.149	0.984	1.368	2.084	0.923	1.386	2.036	0.796	1.305	2.005	0.694	1.315
70	Salanadi	(ODI)	0.558	0.314	0.240	0.197	0.312	0.240	0.209	0.305	0.237	0.149	0.304	0.235	0.159	0.303	0.234	0.175
*71	Rengali	(ODI)	3.432	1.628	3.095	2.533	1.600	3.126	2.471	1.579	3.092	2.411	1.534	3.057	2.359	1.499	3.025	2.339
*72	Machkund(Jalput)	(ODI)	0.893	0.722	0.815	0.692	0.700	0.808	0.706	0.678	0.799	0.688	0.661	0.788	0.644	0.646	0.779	0.658
*73	Upper Kolab	(ODI)	0.935	0.673	0.565	0.569	0.645	0.552	0.561	0.539	0.539	0.520	0.608	0.522	0.513	0.595	0.507	0.498
*74	Upper Indravati	(ODI)	1.456	1.103	0.841	1.003	1.093	0.822	0.985	1.081	0.810	0.945	1.057	0.793	0.924	1.041	0.772	0.927
*75	Thein	(PUN)	2.344	1.507	0.817	0.960	1.416	0.719	0.900	1.416	0.646	0.852	1.416	0.545	0.804	1.416	0.507	0.775
*76	Mahi Bajaj Sagar	(RAJ)	1.711	1.252	1.350	1.071	1.202	1.302	1.024	1.157	1.235	0.972	1.101	1.172	0.928	1.043	1.137	0.882
77	Jhakam	(RAJ)	0.132	0.132	0.087	0.071	0.086	0.086	0.068	0.080	0.083	0.065	0.072	0.075	0.059	0.065	0.069	0.051
*78	Rana Pratap Sagar	(RAJ)	1.436	0.503	0.383	0.543	0.478	0.382	0.528	0.479	0.381	0.457	0.477	0.374	0.462	0.471	0.376	0.453

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 03.01.2019			As per Bulleting dated 10.01.2019			As per Bulleting dated 17.01.2019			As per Bulleting dated 24.01.2019			As per Bulleting dated 31.01.2019		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
79	Lower Bhawani	(TN)	0.792	0.669	0.287	0.369	0.664	0.263	0.363	0.606	0.237	0.332	0.571	0.203	0.310	0.565	0.161	0.302
*80	Mettur(Stanley)	(TN)	2.647	1.310	0.731	1.253	1.222	0.633	1.187	1.003	0.601	1.039	0.968	0.440	0.942	0.946	0.405	0.899
81	Vaigai	(TN)	0.172	0.083	0.045	0.074	0.088	0.042	0.069	0.083	0.037	0.062	0.073	0.030	0.057	0.070	0.033	0.052
82	Parambikulam	(TN)	0.380	0.316	0.139	0.244	0.314	0.132	0.239	0.305	0.106	0.226	0.295	0.091	0.214	0.280	0.080	0.205
83	Aliyar	(TN)	0.095	0.058	0.019	0.060	0.052	0.017	0.058	0.037	0.009	0.050	0.026	0.004	0.046	0.015	0.002	0.041
*84	Sholayar	(TN)	0.143	0.080	0.000	0.048	0.077	0.000	0.041	0.067	0.000	0.029	0.061	0.000	0.022	0.060	0.000	0.017
85	Gumti	(TRP)	0.312	0.191	0.254	0.124	0.187	0.283	0.124	0.182	0.249	0.114	0.177	0.244	0.094	0.170	0.240	0.086
86	Matatila	(UP)	0.707	0.239	0.276	0.390	0.182	0.201	0.375	0.148	0.151	0.351	0.143	0.168	0.335	0.207	0.203	0.329
*87	Rihand	(UP)	5.649	2.517	2.638	2.387	2.372	2.470	2.309	2.185	2.312	2.224	2.050	2.179	2.179	1.880	2.062	2.080
*88	Ramganga	(UTT)	2.196	1.307	1.210	1.399	1.231	1.126	1.470	1.165	1.060	1.299	1.102	0.984	1.241	1.055	0.914	1.197
*89	Tehri	(UTT)	2.615	1.905	1.779	1.830	1.797	1.647	1.735	1.685	1.533	1.643	1.580	1.439	1.558	1.491	1.347	1.464
90	Mayurakshi	(WB)	0.480	0.116	0.456	0.212	0.114	0.456	0.212	0.104	0.454	0.223	0.104	0.453	0.219	0.103	0.452	0.208
91	Kangsabati	(WB)	0.914	0.333	0.807	0.406	0.333	0.802	0.396	0.333	0.729	0.393	0.333	0.679	0.372	0.332	0.679	0.351
	Reservoirs		161.993	86.646	84.579	89.527	80.395	81.236	86.733	77.171	77.317	82.692	74.229	73.412	79.610	72.065	70.362	76.075
	Percentage			53.487	52.212	55.266	49.629	50.148	53.541	47.638	47.729	51.047	45.822	45.318	49.144	44.486	43.435	46.962

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 07.02.2019			As per Bulleting dated14.02.2019			As per Bulleting dated 21.02.2019			As per Bulleting dated 28.02.2019		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*1	Srisailam	(AP/TG)	8.288	1.420	2.616	3.280	1.401	2.263	3.012	1.364	2.098	2.711	1.298	1.734	2.497
*2	Nagarjuna Sagar	(AP/TG)	6.841	1.223	0.831	1.460	1.089	0.847	1.341	1.022	0.608	1.285	0.907	0.650	1.209
3	Somasila	(A.P)	1.994	0.523	0.753	1.078	0.481	0.690	1.020	0.415	0.612	0.985	0.347	0.548	0.955
4	Sriramsagar	(TG)	2.300	0.750	0.902	0.902	0.707	0.812	0.834	0.678	0.764	0.820	0.601	0.692	0.702
5	Lower Manair	(TG)	0.621	0.219	0.309	0.324	0.252	0.283	0.306	0.227	0.280	0.363	0.224	0.238	0.276
6	Tenughat	(JHAR)	0.821	0.359	0.391	0.370	0.357	0.391	0.366	0.356	0.390	0.365	0.253	0.383	0.359
7	Maithon	(JHAR)	0.471	0.230	0.471	0.371	0.218	0.471	0.360	0.214	0.471	0.356	0.193	0.471	0.335
*8	Panchet Hill	(JHAR)	0.184	0.137	0.184	0.144	0.135	0.184	0.142	0.135	0.184	0.141	0.136	0.178	0.131
9	Konar	(JHAR)	0.176	0.108	0.087	0.123	0.104	0.082	0.119	0.103	0.080	0.118	0.097	0.071	0.112
10	Tilaiya	(JHAR)	0.142	0.017	0.036	0.058	0.017	0.029	0.055	0.017	0.028	0.054	0.016	0.023	0.049
*11	Ukai	(GUJ)	6.615	1.667	2.497	3.782	1.647	2.470	3.668	1.629	2.294	3.516	1.556	2.080	3.247
12	Sabarmati(Dharoi)	(GUJ)	0.735	0.128	0.250	0.277	0.125	0.232	0.263	0.121	0.215	0.244	0.117	0.198	0.227
*13	Kadana	(GUJ)	1.472	0.754	0.783	0.848	0.731	0.760	0.836	0.701	0.723	0.822	0.669	0.707	0.812
14	Shetrunji	(GUJ)	0.300	0.053	0.106	0.143	0.052	0.106	0.136	0.052	0.104	0.128	0.051	0.096	0.121
15	Bhadar	(GUJ)	0.188	0.027	0.064	0.060	0.026	0.062	0.058	0.024	0.059	0.053	0.023	0.056	0.051
16	Damanaganga	(GUJ)	0.502	0.214	0.362	0.351	0.196	0.344	0.338	0.185	0.338	0.324	0.174	0.328	0.313
17	Dantiwada	(GUJ)	0.399	0.030	0.215	0.063	0.030	0.204	0.059	0.030	0.190	0.054	0.029	0.180	0.047
18	Panam	(GUJ)	0.697	0.416	0.418	0.365	0.407	0.410	0.359	0.391	0.393	0.346	0.380	0.382	0.338
*19	Sardar Sarovar	(GUJ)	5.760	1.025	0.119	1.026	0.935	0.075	0.978	0.744	0.000	0.934	0.618	0.000	0.853
20	Karjan	(GUJ)	0.523	0.340	0.361	0.351	0.325	0.358	0.343	0.314	0.356	0.334	0.302	0.345	0.331
*21	Gobind Sagar(Bhakra)	(H.P)	6.229	3.939	2.948	2.923	3.884	2.755	2.733	3.830	2.546	2.539	3.778	2.320	2.354
*22	Pong Dam	(H.P)	6.157	3.202	2.179	2.488	3.131	1.970	2.216	3.047	1.788	2.059	2.999	1.587	2.016
23	Krishnaraja Sagra	(KAR)	1.163	0.757	0.463	0.604	0.749	0.379	0.561	0.716	0.335	0.508	0.654	0.325	0.472
*24	Tungabhadra	(KAR)	3.276	0.509	0.584	0.845	0.473	0.476	0.748	0.452	0.430	0.697	0.380	0.305	0.565
25	Ghataprabha	(KAR)	1.391	0.571	0.676	0.428	0.477	0.630	0.372	0.477	0.630	0.372	0.343	0.442	0.303
26	Bhadra	(KAR)	1.785	1.249	0.932	1.214	1.169	0.870	1.150	1.169	0.870	1.150	1.045	0.747	1.011
27	Linganamakki	(KAR)	4.294	2.366	1.763	2.232	2.259	1.695	2.149	2.128	1.628	2.030	2.019	1.568	1.950
28	Narayanpur	(KAR)	0.863	0.231	0.506	0.632	0.236	0.425	0.592	0.228	0.426	0.570	0.228	0.392	0.531
29	Malaprabha(Renuka)	(KAR)	0.972	0.164	0.157	0.183	0.158	0.141	0.161	0.158	0.141	0.161	0.144	0.115	0.134
30	Kabini(Sancherla Tank)	(KAR)	0.444	0.301	0.254	0.166	0.295	0.213	0.157	0.283	0.194	0.148	0.271	0.176	0.135
31	Hemavathy	(KAR)	0.927	0.163	0.183	0.199	0.155	0.174	0.191	0.154	0.169	0.182	0.146	0.161	0.169
32	Harangi	(KAR)	0.220	0.041	0.064	0.037	0.042	0.062	0.038	0.042	0.054	0.037	0.042	0.050	0.034

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 07.02.2019			As per Bulleting dated14.02.2019			As per Bulleting dated 21.02.2019			As per Bulleting dated 28.02.2019		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
33	**Supa**	(KAR)	4.120	2.538	2.090	2.013	2.460	2.082	2.007	2.378	2.074	1.891	2.304	2.049	1.878
34	**Vanivilas Sagar**	(KAR)	0.802	0.022	0.015	0.127	0.021	0.015	0.122	0.021	0.015	0.122	0.020	0.013	0.117
***35**	**Almatti**	(KAR)	3.105	1.061	1.170	0.998	1.003	1.063	0.868	0.976	1.040	0.751	0.949	0.980	0.659
***36**	**Gerusoppa**	(KAR)	0.130	0.096	0.121	0.109	0.116	0.124	0.112	0.108	0.118	0.108	0.101	0.114	0.104
37	**Kallada(Parappar)**	(KRL)	0.507	0.425	0.472	0.363	0.410	0.467	0.351	0.397	0.466	0.339	0.379	0.457	0.322
***38**	**Idamalayar**	(KRL)	1.018	0.546	0.622	0.583	0.524	0.603	0.556	0.497	0.597	0.532	0.468	0.558	0.503
***39**	**Idukki**	(KRL)	1.460	0.960	0.858	0.777	0.928	0.837	0.747	0.888	0.822	0.717	0.845	0.771	0.684
***40**	**Kakki**	(KRL)	0.447	0.273	0.360	0.311	0.266	0.355	0.303	0.266	0.351	0.295	0.263	0.341	0.286
***41**	**Periyar**	(KRL)	0.173	0.042	0.030	0.046	0.039	0.031	0.041	0.038	0.030	0.036	0.033	0.028	0.033
42	**Malampuzha**	(KRL)	0.224	0.056	0.039	0.061	0.041	0.037	0.056	0.038	0.036	0.053	0.038	0.036	0.053
***43**	**Gandhi Sagar**	(M.P.)	6.827	1.017	2.409	2.225	0.872	2.273	2.518	0.872	2.181	2.586	0.562	2.181	2.393
44	**Tawa**	(M.P.)	1.944	0.236	0.183	0.720	0.158	0.184	0.653	0.150	0.184	0.593	0.150	0.184	0.540
***45**	**Bargi**	(M.P.)	3.180	1.845	2.159	1.908	1.782	2.137	1.836	1.740	2.115	1.770	1.680	2.104	1.702
***46**	**Bansagar**	(M.P.)	5.166	3.938	2.810	2.680	3.887	2.751	2.653	3.816	2.734	2.562	3.748	2.734	2.559
***47**	**Indira Sagar**	(M.P.)	9.745	5.814	2.759	3.985	5.589	2.714	3.800	5.579	2.697	3.755	9.542	2.619	3.408
48	**Barna**	(M.P.)	0.456	0.072	0.085	0.165	0.059	0.072	0.157	0.059	0.061	0.142	0.032	0.048	0.129
***49**	**Minimata Bangoi**	(CHH.)	3.046	1.862	1.843	1.908	1.852	1.834	1.896	1.851	1.834	1.894	1.834	1.818	1.859
50	**Mahanadi**	(CHH.)	0.767	0.486	0.415	0.507	0.478	0.412	0.486	0.469	0.412	0.510	0.449	0.407	0.472
51	**Jayakwadi(Paithon)**	(MAH)	2.171	0.298	1.576	0.750	0.229	1.529	0.716	0.229	1.529	0.716	0.120	1.417	0.640
***52**	**Koyana**	(MAH)	2.652	2.020	2.226	1.901	1.999	2.188	1.832	1.965	2.114	1.778	1.925	2.030	1.720
53	**Bhima(Ujjani)**	(MAH)	1.517	0.363	1.212	0.884	0.338	1.194	0.829	0.319	1.182	0.889	0.246	1.147	0.733
54	**Isapur**	(MAH)	0.965	0.363	0.057	0.387	0.349	0.056	0.372	0.322	0.054	0.354	0.302	0.053	0.345
55	**Mula**	(MAH)	0.609	0.126	0.456	0.333	0.123	0.451	0.318	0.120	0.444	0.303	0.117	0.426	0.289
56	**Yeldari**	(MAH)	0.809	0.000	0.041	0.220	0.000	0.040	0.208	0.000	0.040	0.207	0.000	0.040	0.207
57	**Girna**	(MAH)	0.524	0.153	0.176	0.147	0.151	0.163	0.140	0.150	0.160	0.134	0.149	0.157	0.129
58	**Khadakvasla**	(MAH)	0.056	0.031	0.031	0.032	0.031	0.030	0.033	0.031	0.038	0.031	0.034	0.041	0.030
***59**	**Upper Vaitarna**	(MAH.)	0.331	0.235	0.242	0.240	0.226	0.227	0.233	0.219	0.216	0.227	0.212	0.205	0.220
60	**Upper Tapi**	(MAH.)	0.255	0.132	0.164	0.185	0.126	0.161	0.179	0.120	0.152	0.170	0.114	0.141	0.164
***61**	**Pench (Totaladoh)**	(MAH.)	1.091	0.094	0.176	0.439	0.093	0.172	0.408	0.091	0.168	0.386	0.088	0.163	0.372
62	**Upper Wardha**	(MAH.)	0.564	0.138	0.331	0.301	0.136	0.319	0.284	0.135	0.317	0.280	0.130	0.284	0.251
63	**Bhatsa**	(MAH.)	0.942	0.563	0.647	0.612	0.543	0.624	0.594	0.526	0.604	0.576	0.512	0.591	0.565
64	**Dhom**	(MAH.)	0.331	0.130	0.221	0.162	0.118	0.207	0.146	0.113	0.193	0.151	0.111	0.183	0.133

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 07.02.2019			As per Bulleting dated14.02.2019			As per Bulleting dated 21.02.2019			As per Bulleting dated 28.02.2019		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
65	**Dudhganga**	(MAH.)	0.664	0.411	0.496	0.460	0.390	0.473	0.441	0.365	0.462	0.423	0.342	0.443	0.404
66	**Manikdoh (Kukadi)**	(MAH.)	0.288	0.037	0.173	0.089	0.036	0.172	0.085	0.035	0.172	0.080	0.034	0.162	0.100
67	**Bhandardara**	(MAH.)	0.304	0.123	0.265	0.218	0.122	0.250	0.207	0.115	0.248	0.199	0.104	0.247	0.191
***68**	**Hirakud**	(ODI)	5.378	3.335	3.579	3.622	3.226	3.446	3.449	3.117	3.317	3.297	3.017	3.190	3.143
***69**	**Balimela**	(ODI)	2.676	1.938	0.604	1.205	1.882	0.546	1.131	1.830	0.488	1.123	1.777	0.439	0.914
70	**Salanadi**	(ODI)	0.558	0.302	0.234	0.177	0.301	0.232	0.172	0.300	0.231	0.168	0.299	0.231	0.166
***71**	**Rengali**	(ODI)	3.432	1.112	2.985	2.273	1.391	2.910	2.210	1.327	2.875	2.097	1.288	2.833	1.951
***72**	**Machkund(Jalput)**	(ODI)	0.893	0.617	0.769	0.613	0.595	0.763	0.582	0.574	0.754	0.574	0.542	0.743	0.574
***73**	**Upper Kolab**	(ODI)	0.935	0.576	0.492	0.490	0.555	0.468	0.466	0.532	0.449	0.468	0.504	0.428	0.396
***74**	**Upper Indravati**	(ODI)	1.456	1.015	0.754	0.899	0.989	0.721	0.846	0.952	0.699	0.818	0.914	0.674	0.809
***75**	**Thein**	(PUN)	2.344	1.477	0.469	0.699	1.568	0.469	0.721	1.568	0.469	0.721	1.841	0.469	0.710
***76**	**Mahi Bajaj Sagar**	(RAJ)	1.711	0.960	1.061	0.828	0.897	1.017	0.787	0.835	0.945	0.729	0.782	0.882	0.686
77	**Jhakam**	(RAJ)	0.132	0.060	0.061	0.047	0.057	0.057	0.044	0.049	0.048	0.039	0.044	0.045	0.035
***78**	**Rana Pratap Sagar**	(RAJ)	1.436	0.476	0.374	0.439	0.496	0.375	0.366	0.497	0.371	0.403	0.470	0.385	0.387
79	**Lower Bhawani**	(TN)	0.792	0.526	0.132	0.285	0.478	0.122	0.254	0.469	0.123	0.250	0.424	0.128	0.241
***80**	**Mettur(Stanley)**	(TN)	2.647	0.935	0.403	0.878	0.924	0.384	0.855	0.908	0.380	0.837	0.880	0.366	0.823
81	**Vaigai**	(TN)	0.172	0.057	0.024	0.045	0.057	0.025	0.041	0.048	0.018	0.037	0.047	0.016	0.033
82	**Parambikulam**	(TN)	0.380	0.263	0.071	0.194	0.253	0.064	0.182	0.250	0.062	0.170	0.244	0.052	0.158
83	**Aliyar**	(TN)	0.095	0.005	0.000	0.039	0.002	0.000	0.035	0.001	0.001	0.034	0.001	0.004	0.034
***84**	**Sholayar**	(TN)	0.143	0.052	0.000	0.012	0.039	0.000	0.009	0.021	0.000	0.008	0.009	0.000	0.006
85	**Gumti**	(TRP)	0.312	0.164	0.232	0.073	0.156	0.224	0.081	0.155	0.220	0.075	0.148	0.213	0.069
86	**Matatila**	(UP)	0.707	0.209	0.226	0.311	0.174	0.239	0.295	0.174	0.239	0.295	0.124	0.141	0.256
***87**	**Rihand**	(UP)	5.649	1.767	1.926	1.979	1.642	1.801	1.928	1.538	1.710	1.909	1.396	1.541	1.789
***88**	**Ramganga**	(UTT)	2.196	1.048	0.837	1.282	1.061	0.777	1.072	1.061	0.777	1.072	1.054	0.659	1.176
***89**	**Tehri**	(UTT)	2.615	1.391	1.257	1.379	1.325	1.173	1.285	1.325	1.173	1.285	1.325	1.173	1.285
90	**Mayurakshi**	(WB)	0.480	0.101	0.441	0.200	0.100	0.405	0.187	0.100	0.395	0.186	0.097	0.377	0.179
91	**Kangsabati**	(WB)	0.914	0.334	0.676	0.346	0.334	0.629	0.323	0.334	0.601	0.316	0.332	0.571	0.300
	Reservoirs		161.993	68.359	67.001	72.488	66.260	63.957	69.169	64.369	61.603	66.877	65.536	58.280	62.953
	Percentage			42.199	41.360	44.748	40.903	39.481	42.699	39.736	38.028	41.284	40.456	35.977	38.862

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 07.03.2019			As per Bulleting dated 14.03.2019			As per Bulleting dated 21.03.2019			As per Bulleting dated 28.03.2019		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*1	Srisailam	(AP/TG)	8.288	1.245	1.619	2.212	1.225	1.295	1.958	1.205	1.030	1.787	1.172	0.859	1.421
*2	Nagarjuna Sagar	(AP/TG)	6.841	0.826	0.530	1.144	0.639	0.571	1.070	0.571	0.618	1.025	0.340	0.493	1.006
3	Somasila	(A.P)	1.994	0.292	0.500	0.906	0.245	0.459	0.859	0.215	0.439	0.839	0.168	0.410	0.797
4	Sriramsagar	(TG)	2.300	0.522	0.625	0.642	0.506	0.572	0.583	0.402	0.437	0.530	0.355	0.403	0.464
5	Lower Manair	(TG)	0.621	0.207	0.235	0.263	0.174	0.203	0.244	0.172	0.188	0.238	0.151	0.160	0.214
6	Tenughat	(JHAR)	0.821	0.352	0.378	0.341	0.350	0.374	0.341	0.347	0.366	0.325	0.345	0.360	0.319
7	Maithon	(JHAR)	0.471	0.179	0.471	0.336	0.168	0.471	0.333	0.156	0.471	0.307	0.142	0.452	0.277
*8	Panchet Hill	(JHAR)	0.184	0.138	0.136	0.132	0.136	0.132	0.129	0.134	0.097	0.120	0.127	0.055	0.109
9	Konar	(JHAR)	0.176	0.093	0.066	0.106	0.090	0.061	0.107	0.087	0.058	0.100	0.082	0.056	0.098
10	Tilaiya	(JHAR)	0.142	0.016	0.022	0.040	0.015	0.021	0.045	0.014	0.021	0.035	0.013	0.020	0.037
*11	Ukai	(GUJ)	6.615	1.396	1.944	3.233	1.208	1.916	3.094	1.115	1.901	2.979	1.054	1.828	2.838
12	Sabarmati(Dharoi)	(GUJ)	0.735	0.113	0.174	0.203	0.110	0.158	0.186	0.106	0.147	0.174	0.102	0.143	0.165
*13	Kadana	(GUJ)	1.472	0.645	0.687	0.803	0.632	0.679	0.800	0.621	0.697	0.805	0.626	0.711	0.808
14	Shetrunji	(GUJ)	0.300	0.051	0.074	0.108	0.050	0.064	0.100	0.047	0.056	0.087	0.046	0.055	0.101
15	Bhadar	(GUJ)	0.188	0.021	0.054	0.048	0.020	0.052	0.046	0.018	0.049	0.044	0.017	0.047	0.043
16	Damanaganga	(GUJ)	0.502	0.160	0.313	0.297	0.142	0.293	0.283	0.124	0.275	0.269	0.106	0.264	0.253
17	Dantiwada	(GUJ)	0.399	0.029	0.171	0.043	0.028	0.161	0.040	0.028	0.149	0.037	0.027	0.143	0.034
18	Panam	(GUJ)	0.697	0.366	0.369	0.327	0.356	0.361	0.320	0.346	0.348	0.311	0.333	0.336	0.304
*19	Sardar Sarovar	(GUJ)	5.760	0.651	0.000	0.841	0.650	0.000	0.806	0.718	0.000	0.771	0.907	0.000	0.747
20	Karjan	(GUJ)	0.523	0.294	0.336	0.314	0.292	0.326	0.304	0.291	0.322	0.296	0.282	0.318	0.286
*21	Gobind Sagar(Bhakra)	(H.P)	6.229	3.678	2.086	2.161	3.529	1.847	1.974	3.384	1.636	1.863	3.224	1.405	1.666
*22	Pong Dam	(H.P)	6.157	2.911	1.382	1.838	2.802	1.154	1.735	2.700	1.010	1.660	2.694	0.773	1.536
23	Krishnaraja Sagra	(KAR)	1.163	0.588	0.314	0.442	0.570	0.262	0.421	0.563	0.206	0.377	0.498	0.186	0.331
*24	Tungabhadra	(KAR)	3.276	0.333	0.234	0.481	0.297	0.198	0.400	0.268	0.173	0.330	0.229	0.142	0.230
25	Ghataprabha	(KAR)	1.391	0.340	0.382	0.278	0.335	0.345	0.247	0.302	0.336	0.233	0.281	0.328	0.216
26	Bhadra	(KAR)	1.785	0.986	0.683	0.946	0.934	0.630	0.908	0.883	0.584	0.859	0.773	0.451	0.784
27	Linganamakki	(KAR)	4.294	1.898	1.464	1.813	1.788	1.377	1.699	1.703	1.323	1.604	1.578	1.243	1.459
28	Narayanpur	(KAR)	0.863	0.235	0.334	0.473	0.225	0.360	0.414	0.228	0.359	0.365	0.222	0.312	0.341
29	Malaprabha(Renuka)	(KAR)	0.972	0.136	0.109	0.123	0.117	0.105	0.105	0.100	0.068	0.092	0.086	0.061	0.084
30	Kabini(Sancherla Tank)	(KAR)	0.444	0.256	0.158	0.119	0.241	0.125	0.105	0.228	0.128	0.096	0.197	0.119	0.086
31	Hemavathy	(KAR)	0.927	0.134	0.157	0.158	0.134	0.151	0.149	0.133	0.142	0.141	0.132	0.134	0.130
32	Harangi	(KAR)	0.220	0.042	0.049	0.034	0.042	0.049	0.034	0.040	0.050	0.034	0.036	0.043	0.034

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 07.03.2019			As per Bulleting dated 14.03.2019			As per Bulleting dated 21.03.2019			As per Bulleting dated 28.03.2019		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
33	**Supa**	(KAR)	4.120	2.205	1.990	1.797	2.136	1.939	1.721	2.072	1.902	1.645	1.981	1.829	1.539
34	**Vanivilas Sagar**	(KAR)	0.802	0.002	0.013	0.115	0.018	0.012	0.114	0.017	0.012	0.110	0.016	0.011	0.107
***35**	**Almatti**	(KAR)	3.105	0.894	0.797	0.573	0.828	0.682	0.514	0.796	0.658	0.486	0.752	0.443	0.378
***36**	**Gerusoppa**	(KAR)	0.130	0.098	0.108	0.106	0.098	0.119	0.109	0.109	0.119	0.105	0.100	0.116	0.104
37	**Kallada(Parappar)**	(KRL)	0.507	0.365	0.448	0.305	0.350	0.435	0.286	0.339	0.423	0.271	0.324	0.409	0.253
***38**	**Idamalayar**	(KRL)	1.018	0.437	0.519	0.476	0.412	0.478	0.447	0.387	0.450	0.422	0.359	0.419	0.392
***39**	**Idukki**	(KRL)	1.460	0.811	0.734	0.652	0.773	0.693	0.620	0.737	0.670	0.590	0.696	0.645	0.556
***40**	**Kakki**	(KRL)	0.447	0.261	0.328	0.275	0.250	0.310	0.260	0.236	0.299	0.247	0.220	0.281	0.230
***41**	**Periyar**	(KRL)	0.173	0.031	0.028	0.031	0.030	0.027	0.030	0.028	0.029	0.030	0.026	0.026	0.028
42	**Malampuzha**	(KRL)	0.224	0.032	0.035	0.050	0.034	0.034	0.048	0.031	0.034	0.048	0.030	0.033	0.047
***43**	**Gandhi Sagar**	(M.P.)	6.827	0.562	1.780	2.254	0.562	1.610	2.018	0.477	1.487	2.269	0.046	1.290	1.605
44	**Tawa**	(M.P.)	1.944	0.152	0.184	0.502	0.152	0.184	0.489	0.152	0.184	0.486	0.152	0.183	0.480
***45**	**Bargi**	(M.P.)	3.180	1.630	2.082	1.639	1.580	2.060	1.578	1.540	2.027	1.509	1.512	1.983	1.423
***46**	**Bansagar**	(M.P.)	5.166	3.748	2.672	2.446	3.748	2.535	2.241	3.718	2.501	2.498	3.541	2.455	2.300
***47**	**Indira Sagar**	(M.P.)	9.745	5.014	2.574	3.224	4.739	2.525	3.035	4.739	2.525	3.035	4.198	2.403	2.630
48	**Barna**	(M.P.)	0.456	0.032	0.045	0.111	0.032	0.045	0.094	0.030	0.044	0.098	0.009	0.043	0.088
***49**	**Minimata Bangoi**	(CHH.)	3.046	1.823	1.807	1.888	1.812	1.802	1.827	1.797	1.795	1.875	1.778	1.785	1.792
50	**Mahanadi**	(CHH.)	0.767	0.419	0.402	0.454	0.399	0.393	0.438	0.380	0.390	0.422	0.354	0.384	0.396
51	**Jayakwadi(Paithon)**	(MAH)	2.171	0.071	1.356	0.603	0.027	1.301	0.568	0.004	1.260	0.542	0.000	1.178	0.507
***52**	**Koyana**	(MAH)	2.652	1.925	2.030	1.720	1.825	1.885	1.595	1.768	1.848	1.538	1.683	1.762	1.452
53	**Bhima(Ujjani)**	(MAH)	1.517	0.132	1.116	0.690	0.031	1.089	0.631	0.000	1.031	0.583	0.000	0.822	0.498
54	**Isapur**	(MAH)	0.965	0.278	0.049	0.333	0.274	0.047	0.322	0.261	0.046	0.309	0.229	0.043	0.294
55	**Mula**	(MAH)	0.609	0.112	0.391	0.269	0.106	0.360	0.252	0.103	0.332	0.238	0.099	0.294	0.220
56	**Yeldari**	(MAH)	0.809	0.000	0.037	0.186	0.000	0.036	0.175	0.000	0.024	0.165	0.000	0.001	0.145
57	**Girna**	(MAH)	0.524	0.147	0.152	0.119	0.145	0.148	0.115	0.122	0.145	0.111	0.105	0.141	0.106
58	**Khadakvasla**	(MAH)	0.056	0.035	0.045	0.031	0.036	0.046	0.031	0.037	0.046	0.030	0.028	0.034	0.028
***59**	**Upper Vaitarna**	(MAH.)	0.331	0.212	0.205	0.220	0.187	0.175	0.202	0.177	0.164	0.184	0.165	0.149	0.185
60	**Upper Tapi**	(MAH.)	0.255	0.108	0.120	0.157	0.101	0.115	0.149	0.082	0.113	0.146	0.075	0.089	0.136
***61**	**Pench (Totaladoh)**	(MAH.)	1.091	0.084	0.160	0.354	0.072	0.157	0.341	0.062	0.154	0.330	0.055	0.150	0.319
62	**Upper Wardha**	(MAH.)	0.564	0.126	0.277	0.242	0.123	0.264	0.231	0.121	0.258	0.223	0.117	0.251	0.217
63	**Bhatsa**	(MAH.)	0.942	0.489	0.567	0.541	0.471	0.545	0.523	0.456	0.528	0.507	0.433	0.507	0.486
64	**Dhom**	(MAH.)	0.331	0.108	0.180	0.145	0.101	0.179	0.144	0.096	0.172	0.141	0.083	0.156	0.126

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 07.03.2019			As per Bulleting dated 14.03.2019			As per Bulleting dated 21.03.2019			As per Bulleting dated 28.03.2019		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
65	Dudhganga	(MAH.)	0.664	0.333	0.421	0.383	0.310	0.396	0.359	0.285	0.379	0.343	0.258	0.358	0.320
66	Manikdoh (Kukadi)	(MAH.)	0.288	0.033	0.140	0.066	0.032	0.122	0.056	0.031	0.105	0.049	0.029	0.084	0.041
67	Bhandardara	(MAH.)	0.304	0.088	0.241	0.180	0.075	0.226	0.172	0.064	0.214	0.164	0.050	0.196	0.151
*68	Hirakud	(ODI)	5.378	2.912	3.049	3.034	2.811	2.910	2.881	2.711	2.767	2.742	2.595	2.592	2.483
*69	Balimela	(ODI)	2.676	1.736	0.413	0.909	1.634	0.420	0.887	1.588	0.415	1.062	1.423	0.381	0.846
70	Salanadi	(ODI)	0.558	0.299	0.229	0.163	0.299	0.228	0.182	0.299	0.227	0.157	0.298	0.227	0.146
*71	Rengali	(ODI)	3.432	1.253	2.800	1.911	1.185	2.702	1.873	1.162	2.608	2.046	1.106	2.307	1.780
*72	Machkund(Jalput)	(ODI)	0.893	0.538	0.719	0.547	0.519	0.683	0.521	0.519	0.664	0.506	0.482	0.603	0.455
*73	Upper Kolab	(ODI)	0.935	0.487	0.414	0.389	0.389	0.450	0.387	0.435	0.377	0.415	0.394	0.343	0.369
*74	Upper Indravati	(ODI)	1.456	0.881	0.655	0.697	0.823	0.625	0.697	0.785	0.613	0.721	0.718	0.568	0.668
*75	Thein	(PUN)	2.344	1.841	0.469	0.724	1.800	0.469	0.724	1.721	0.450	0.725	1.660	0.469	0.751
*76	Mahi Bajaj Sagar	(RAJ)	1.711	0.717	0.831	0.634	0.668	0.782	0.583	0.607	0.722	0.543	0.554	0.684	0.514
77	Jhakam	(RAJ)	0.132	0.036	0.041	0.030	0.034	0.041	0.028	0.034	0.041	0.027	0.034	0.040	0.027
*78	Rana Pratap Sagar	(RAJ)	1.436	0.446	0.387	0.366	0.425	0.398	0.354	0.420	0.457	0.330	0.423	0.547	0.352
79	Lower Bhawani	(TN)	0.792	0.386	0.128	0.221	0.370	0.130	0.221	0.331	0.135	0.213	0.276	0.141	0.196
*80	Mettur(Stanley)	(TN)	2.647	0.851	0.359	0.810	0.832	0.351	0.798	0.814	0.332	0.788	0.794	0.312	0.775
81	Vaigai	(TN)	0.172	0.042	0.015	0.031	0.040	0.013	0.029	0.038	0.013	0.028	0.036	0.014	0.028
82	Parambikulam	(TN)	0.380	0.226	0.044	0.146	0.209	0.037	0.136	0.194	0.033	0.128	0.183	0.029	0.122
83	Aliyar	(TN)	0.095	0.000	0.004	0.033	0.000	0.000	0.035	0.000	0.000	0.035	0.004	0.000	0.035
*84	Sholayar	(TN)	0.143	0.009	0.000	0.006	0.010	0.000	0.006	0.007	0.000	0.006	0.000	0.000	0.004
85	Gumti	(TRP)	0.312	0.146	0.205	0.064	0.134	0.199	0.059	0.129	0.193	0.057	0.122	0.187	0.052
86	Matatila	(UP)	0.707	0.151	0.139	0.259	0.168	0.143	0.255	0.160	0.186	0.276	0.182	0.182	0.279
*87	Rihand	(UP)	5.649	1.282	1.406	1.705	1.199	1.313	1.635	1.199	1.313	1.635	1.025	1.152	1.489
*88	Ramganga	(UTT)	2.196	1.063	0.608	0.965	1.068	0.540	0.918	1.048	0.515	0.895	0.960	0.509	0.785
*89	Tehri	(UTT)	2.615	1.062	0.886	0.999	0.960	0.777	0.905	0.873	0.691	0.817	0.767	0.575	0.712
90	Mayurakshi	(WB)	0.480	0.097	0.328	0.175	0.096	0.328	0.171	0.094	0.324	0.165	0.093	0.280	0.143
91	Kangsabati	(WB)	0.914	0.332	0.566	0.298	0.331	0.561	0.294	0.331	0.477	0.269	0.330	0.422	0.238
	Reservoirs		161.993	58.723	54.784	59.458	55.923	51.846	56.153	54.002	49.605	55.068	50.307	45.827	50.046
	Percentage			36.250	33.819	36.704	34.522	32.005	34.664	33.336	30.622	33.994	31.055	28.289	30.894

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 04.04.2019			As per Bulleting dated 11.04.2019			As per Bulleting dated 18.04.2019			As per Bulleting dated 25.04.2019		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*1	Srisailam	(AP/TG)	8.288	1.131	0.797	1.180	1.032	0.775	1.040	0.851	0.755	0.931	0.851	0.724	0.882
*2	Nagarjuna Sagar	(AP/TG)	6.841	0.240	0.280	0.995	0.185	0.176	0.953	0.195	0.146	0.948	0.077	0.146	0.858
3	Somasila	(A.P)	1.994	0.157	0.395	0.771	0.146	0.385	0.753	0.130	0.376	0.709	0.117	0.369	0.719
4	Sriramsagar	(TG)	2.300	0.326	0.296	0.415	0.228	0.292	0.376	0.214	0.205	0.326	0.200	0.200	0.303
5	Lower Manair	(TG)	0.621	0.128	0.139	0.193	0.127	0.136	0.173	0.125	0.111	0.154	0.123	0.110	0.144
6	Tenughat	(JHAR)	0.821	0.340	0.356	0.312	0.337	0.352	0.303	0.333	0.349	0.297	0.328	0.342	0.291
7	Maithon	(JHAR)	0.471	0.131	0.409	0.252	0.120	0.331	0.231	0.110	0.327	0.208	0.102	0.297	0.183
*8	Panchet Hill	(JHAR)	0.184	0.120	0.055	0.101	0.116	0.056	0.097	0.110	0.056	0.092	0.103	0.049	0.080
9	Konar	(JHAR)	0.176	0.078	0.053	0.094	0.072	0.052	0.088	0.068	0.049	0.083	0.063	0.045	0.078
10	Tilaiya	(JHAR)	0.142	0.012	0.019	0.044	0.011	0.018	0.028	0.010	0.017	0.027	0.009	0.016	0.026
*11	Ukai	(GUJ)	6.615	1.019	1.727	2.702	1.002	1.590	2.548	0.985	1.472	2.386	0.884	1.361	2.245
12	Sabarmati(Dharoi)	(GUJ)	0.735	0.099	0.139	0.158	0.096	0.135	0.152	0.092	0.130	0.145	0.088	0.126	0.140
*13	Kadana	(GUJ)	1.472	0.630	0.717	0.804	0.639	0.713	0.791	0.625	0.697	0.780	0.608	0.683	0.768
14	Shetrunji	(GUJ)	0.300	0.037	0.054	0.093	0.036	0.052	0.086	0.034	0.049	0.052	0.031	0.048	0.048
15	Bhadar	(GUJ)	0.188	0.015	0.045	0.041	0.014	0.044	0.040	0.012	0.041	0.038	0.011	0.040	0.037
16	Damanaganga	(GUJ)	0.502	0.102	0.253	0.237	0.095	0.229	0.219	0.081	0.206	0.200	0.075	0.190	0.187
17	Dantiwada	(GUJ)	0.399	0.026	0.133	0.031	0.025	0.121	0.028	0.025	0.115	0.025	0.024	0.102	0.023
18	Panam	(GUJ)	0.697	0.321	0.324	0.298	0.310	0.312	0.292	0.298	0.298	0.286	0.285	0.283	0.281
*19	Sardar Sarovar	(GUJ)	5.760	1.127	0.000	0.751	1.115	0.000	0.766	1.104	0.000	0.772	1.105	0.000	0.750
20	Karjan	(GUJ)	0.523	0.271	0.303	0.274	0.257	0.289	0.263	0.244	0.280	0.249	0.225	0.267	0.239
*21	Gobind Sagar(Bhakra)	(H.P)	6.229	3.193	1.277	1.574	3.256	1.192	1.532	3.404	1.168	1.593	3.504	1.103	1.552
*22	Pong Dam	(H.P)	6.157	2.751	0.762	1.511	2.813	0.771	1.533	2.866	0.786	1.569	2.904	0.787	1.565
23	Krishnaraja Sagra	(KAR)	1.163	0.431	0.182	0.294	0.384	0.177	0.268	0.368	0.112	0.238	0.368	0.112	0.238
*24	Tungabhadra	(KAR)	3.276	0.188	0.133	0.164	0.143	0.129	0.180	0.117	0.121	0.207	0.100	0.114	0.179
25	Ghataprabha	(KAR)	1.391	0.279	0.326	0.201	0.276	0.324	0.180	0.236	0.323	0.168	0.178	0.268	0.135
26	Bhadra	(KAR)	1.785	0.719	0.385	0.749	0.628	0.325	0.672	0.583	0.299	0.627	0.503	0.264	0.568
27	Linganamakki	(KAR)	4.294	1.442	1.163	1.342	1.350	1.073	1.240	1.257	1.003	1.153	1.114	0.900	1.010
28	Narayanpur	(KAR)	0.863	0.216	0.234	0.289	0.215	0.235	0.269	0.213	0.230	0.246	0.253	0.223	0.246
29	Malaprabha(Renuka)	(KAR)	0.972	0.079	0.075	0.086	0.074	0.072	0.078	0.069	0.072	0.075	0.056	0.060	0.068
30	Kabini(Sancherla Tank)	(KAR)	0.444	0.174	0.110	0.076	0.166	0.097	0.068	0.132	0.069	0.057	0.119	0.063	0.037
31	Hemavathy	(KAR)	0.927	0.124	0.129	0.120	0.116	0.126	0.112	0.113	0.113	0.099	0.110	0.103	0.089
32	Harangi	(KAR)	0.220	0.032	0.037	0.032	0.030	0.037	0.032	0.030	0.038	0.031	0.031	0.038	0.030

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 04.04.2019			As per Bulleting dated 11.04.2019			As per Bulleting dated 18.04.2019			As per Bulleting dated 25.04.2019		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
33	**Supa**	(KAR)	4.120	1.886	1.749	1.444	1.811	1.688	1.215	1.727	1.627	1.295	1.627	1.539	1.217
34	**Vanivilas Sagar**	(KAR)	0.802	0.016	0.010	0.105	0.015	0.010	0.104	0.014	0.009	0.101	0.013	0.008	0.096
***35**	**Almatti**	(KAR)	3.105	0.695	0.377	0.336	0.676	0.360	0.309	0.647	0.343	0.293	0.543	0.331	0.265
***36**	**Gerusoppa**	(KAR)	0.130	0.104	0.114	0.108	0.122	0.120	0.104	0.104	0.117	0.112	0.106	0.107	0.115
37	**Kallada(Parappar)**	(KRL)	0.507	0.303	0.393	0.233	0.291	0.382	0.221	0.267	0.374	0.200	0.254	0.359	0.190
***38**	**Idamalayar**	(KRL)	1.018	0.328	0.384	0.360	0.307	0.358	0.338	0.270	0.320	0.308	0.248	0.279	0.277
***39**	**Idukki**	(KRL)	1.460	0.653	0.612	0.520	0.624	0.578	0.494	0.573	0.542	0.460	0.539	0.499	0.418
***40**	**Kakki**	(KRL)	0.447	0.204	0.284	0.215	0.192	0.246	0.200	0.174	0.231	0.184	0.162	0.211	0.174
***41**	**Periyar**	(KRL)	0.173	0.024	0.024	0.028	0.023	0.023	0.028	0.021	0.031	0.029	0.023	0.023	0.030
42	**Malampuzha**	(KRL)	0.224	0.029	0.033	0.046	0.026	0.032	0.045	0.026	0.031	0.044	0.026	0.030	0.044
***43**	**Gandhi Sagar**	(M.P.)	6.827	0.044	1.243	1.588	0.044	1.232	1.576	0.035	1.221	1.727	0.030	1.216	1.588
44	**Tawa**	(M.P.)	1.944	0.152	0.183	0.479	0.150	0.183	0.457	0.150	0.183	0.442	0.148	0.183	0.428
***45**	**Bargi**	(M.P.)	3.180	1.445	1.939	1.341	1.407	1.908	1.257	1.360	1.877	1.173	1.326	1.824	1.087
***46**	**Bansagar**	(M.P.)	5.166	3.513	2.429	2.221	3.513	2.403	2.184	3.408	2.388	2.125	3.362	2.362	1.949
***47**	**Indira Sagar**	(M.P.)	9.745	3.922	2.337	2.444	3.741	2.327	2.320	3.565	2.304	2.164	3.443	2.280	2.098
48	**Barna**	(M.P.)	0.456	0.008	0.042	0.087	0.008	0.041	0.096	0.006	0.040	0.078	0.004	0.038	0.087
***49**	**Minimata Bangoi**	(CHH.)	3.046	1.750	1.767	1.770	1.721	1.757	1.739	1.689	1.735	1.702	1.647	1.686	1.660
50	**Mahanadi**	(CHH.)	0.767	0.330	0.375	0.369	0.299	0.364	0.347	0.299	0.364	0.347	0.216	0.295	0.278
51	**Jayakwadi(Paithon)**	(MAH)	2.171	0.000	1.122	0.477	0.000	1.074	0.450	0.000	0.996	0.407	0.000	0.924	0.374
***52**	**Koyana**	(MAH)	2.652	1.591	1.670	1.383	1.459	1.595	1.356	1.330	1.477	1.210	1.154	1.363	1.095
53	**Bhima(Ujjani)**	(MAH)	1.517	0.000	0.581	0.411	0.000	0.497	0.363	0.000	0.467	0.346	0.000	0.326	0.227
54	**Isapur**	(MAH)	0.965	0.203	0.025	0.278	0.187	0.012	0.225	0.174	0.000	0.251	0.151	0.000	0.235
55	**Mula**	(MAH)	0.609	0.095	0.261	0.206	0.090	0.237	0.196	0.051	0.213	0.180	0.042	0.199	0.164
56	**Yeldari**	(MAH)	0.809	0.000	0.000	0.132	0.000	0.000	0.136	0.000	0.000	0.115	0.000	0.000	0.106
57	**Girna**	(MAH)	0.524	0.104	0.132	0.099	0.102	0.112	0.095	0.099	0.095	0.090	0.097	0.091	0.086
58	**Khadakvasla**	(MAH)	0.056	0.029	0.034	0.028	0.029	0.034	0.028	0.027	0.046	0.030	0.022	0.047	0.029
***59**	**Upper Vaitarna**	(MAH.)	0.331	0.153	0.136	0.175	0.143	0.125	0.155	0.130	0.112	0.151	0.118	0.098	0.141
60	**Upper Tapi**	(MAH.)	0.255	0.068	0.085	0.128	0.059	0.081	0.108	0.036	0.076	0.114	0.012	0.062	0.102
***61**	**Pench (Totaladoh)**	(MAH.)	1.091	0.043	0.135	0.306	0.033	0.131	0.296	0.022	0.126	0.279	0.018	0.124	0.270
62	**Upper Wardha**	(MAH.)	0.564	0.114	0.244	0.211	0.111	0.239	0.207	0.108	0.236	0.203	0.104	0.228	0.198
63	**Bhatsa**	(MAH.)	0.942	0.418	0.486	0.467	0.401	0.469	0.450	0.380	0.448	0.430	0.362	0.427	0.412
64	**Dhom**	(MAH.)	0.331	0.073	0.145	0.119	0.073	0.145	0.119	0.051	0.117	0.108	0.041	0.104	0.103

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 04.04.2019			As per Bulleting dated 11.04.2019			As per Bulleting dated 18.04.2019			As per Bulleting dated 25.04.2019		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
65	Dudhganga	(MAH.)	0.664	0.235	0.329	0.297	0.212	0.309	0.278	0.185	0.284	0.252	0.156	0.259	0.232
66	Manikdoh (Kukadi)	(MAH.)	0.288	0.017	0.065	0.036	0.016	0.061	0.032	0.016	0.061	0.026	0.015	0.060	0.022
67	Bhandardara	(MAH.)	0.304	0.037	0.181	0.137	0.037	0.168	0.126	0.037	0.152	0.117	0.037	0.139	0.112
*68	Hirakud	(ODI)	5.378	2.455	2.427	2.327	2.335	2.272	2.188	2.192	2.145	2.021	1.992	1.918	1.765
*69	Balimela	(ODI)	2.676	1.331	0.377	0.851	1.255	0.379	0.749	1.167	0.365	0.636	1.106	0.318	0.752
70	Salanadi	(ODI)	0.558	0.297	0.226	0.102	0.296	0.227	0.098	0.294	0.228	0.135	0.295	0.228	0.133
*71	Rengali	(ODI)	3.432	1.053	2.181	1.681	0.985	2.095	1.588	0.908	1.911	1.292	0.855	1.751	1.359
*72	Machkund(Jalput)	(ODI)	0.893	0.463	0.549	0.459	0.440	0.502	0.399	0.413	0.456	0.390	0.393	0.408	0.367
*73	Upper Kolab	(ODI)	0.935	0.368	0.327	0.356	0.343	0.314	0.344	0.314	0.287	0.285	0.284	0.269	0.312
*74	Upper Indravati	(ODI)	1.456	0.684	0.548	0.640	0.612	0.525	0.555	0.501	0.581	0.512	0.525	0.468	0.476
*75	Thein	(PUN)	2.344	1.690	0.458	0.735	1.760	0.459	0.836	1.800	0.488	0.878	1.880	0.507	0.870
*76	Mahi Bajaj Sagar	(RAJ)	1.711	0.515	0.648	0.490	0.486	0.620	0.463	0.469	0.594	0.441	0.469	0.581	0.436
77	Jhakam	(RAJ)	0.132	0.033	0.040	0.027	0.033	0.040	0.027	0.033	0.040	0.026	0.032	0.040	0.026
*78	Rana Pratap Sagar	(RAJ)	1.436	0.405	0.548	0.379	0.398	0.541	0.355	0.391	0.528	0.362	0.379	0.514	0.367
79	Lower Bhawani	(TN)	0.792	0.260	0.151	0.193	0.245	0.159	0.183	0.177	0.166	0.159	0.150	0.168	0.156
*80	Mettur(Stanley)	(TN)	2.647	0.728	0.302	0.763	0.655	0.295	0.752	0.604	0.283	0.738	0.575	0.278	0.769
81	Vaigai	(TN)	0.172	0.034	0.014	0.028	0.033	0.014	0.028	0.031	0.015	0.026	0.024	0.022	0.027
82	Parambikulam	(TN)	0.380	0.166	0.025	0.117	0.169	0.023	0.112	0.148	0.025	0.106	0.130	0.023	0.102
83	Aliyar	(TN)	0.095	0.008	0.000	0.036	0.007	0.000	0.037	0.003	0.000	0.037	0.006	0.000	0.039
*84	Sholayar	(TN)	0.143	0.000	0.000	0.003	0.000	0.000	0.003	0.000	0.000	0.004	0.000	0.000	0.005
85	Gumti	(TRP)	0.312	0.122	0.179	0.055	0.114	0.172	0.053	0.109	0.168	0.050	0.101	0.166	0.051
86	Matatila	(UP)	0.707	0.182	0.180	0.282	0.182	0.178	0.298	0.182	0.178	0.298	0.143	0.176	0.316
*87	Rihand	(UP)	5.649	0.962	1.085	1.420	0.909	1.054	1.349	0.847	1.025	1.266	0.803	0.998	1.193
*88	Ramganga	(UTT)	2.196	0.906	0.504	0.825	0.898	0.502	0.817	0.898	0.501	0.811	0.900	0.495	0.965
*89	Tehri	(UTT)	2.615	0.719	0.525	0.651	0.611	0.385	0.534	0.553	0.311	0.454	0.483	0.236	0.381
90	Mayurakshi	(WB)	0.480	0.086	0.247	0.122	0.085	0.244	0.131	0.084	0.206	0.118	0.082	0.174	0.103
91	Kangsabati	(WB)	0.914	0.328	0.422	0.227	0.326	0.422	0.218	0.326	0.422	0.209	0.324	0.422	0.196
	Reservoirs		161.993	48.319	43.196	47.537	46.513	41.339	45.162	44.459	39.579	43.118	42.526	37.314	41.074
	Percentage			29.828	26.665	29.345	28.713	25.519	27.879	27.445	24.433	26.617	26.252	23.034	25.355

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 02.05.2019			As per Bulleting dated 09.05.2019			As per Bulleting dated 16.05.2019			As per Bulleting dated 23.05.2019			As per Bulleting dated 30.05.2019		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
*1	Srisailam	(AP/TG)	8.288	0.850	0.727	0.868	0.840	0.724	0.813	0.838	0.723	0.781	0.836	0.723	0.765	0.830	0.720	0.762
*2	Nagarjuna Sagar	(AP/TG)	6.841	0.063	0.131	0.859	0.053	0.136	0.866	0.048	0.136	0.878	0.034	0.107	0.879	0.000	0.097	0.883
3	Somasila	(A.P)	1.994	0.106	0.366	0.698	0.101	0.364	0.676	0.099	0.358	0.652	0.096	0.352	0.621	0.093	0.348	0.585
4	Sriramsagar	(TG)	2.300	0.190	0.194	0.284	0.180	0.193	0.273	0.173	0.191	0.268	0.173	0.190	0.207	0.165	0.187	0.258
5	Lower Manair	(TG)	0.621	0.122	0.109	0.143	0.120	0.107	0.145	0.118	0.106	0.142	0.115	0.105	0.124	0.112	0.103	0.138
6	Tenughat	(JHAR)	0.821	0.323	0.337	0.292	0.319	0.333	0.286	0.313	0.329	0.281	0.308	0.324	0.270	0.303	0.318	0.268
7	Maithon	(JHAR)	0.471	0.101	0.243	0.156	0.101	0.176	0.135	0.100	0.154	0.124	0.096	0.142	0.120	0.089	0.128	0.120
*8	Panchet Hill	(JHAR)	0.184	0.096	0.046	0.074	0.095	0.044	0.073	0.084	0.042	0.071	0.071	0.039	0.068	0.057	0.036	0.075
9	Konar	(JHAR)	0.176	0.060	0.043	0.077	0.057	0.041	0.073	0.054	0.038	0.068	0.052	0.037	0.063	0.043	0.035	0.059
10	Tilaiya	(JHAR)	0.142	0.008	0.014	0.028	0.007	0.013	0.027	0.006	0.011	0.024	0.006	0.010	0.022	0.004	0.009	0.021
*11	Ukai	(GUJ)	6.615	0.694	1.271	2.063	0.509	1.173	1.912	0.363	1.015	1.761	0.298	0.869	1.614	0.276	0.769	1.491
12	Sabarmati(Dharoi)	(GUJ)	0.735	0.085	0.121	0.134	0.082	0.119	0.131	0.077	0.113	0.125	0.074	0.109	0.121	0.069	0.104	0.115
*13	Kadana	(GUJ)	1.472	0.584	0.675	0.756	0.573	0.667	0.745	0.565	0.655	0.729	0.555	0.641	0.715	0.527	0.617	0.693
14	Shetrunji	(GUJ)	0.300	0.029	0.047	0.040	0.028	0.045	0.037	0.026	0.045	0.034	0.024	0.043	0.031	0.022	0.042	0.029
15	Bhadar	(GUJ)	0.188	0.010	0.037	0.034	0.009	0.036	0.034	0.008	0.034	0.032	0.006	0.031	0.030	0.004	0.028	0.025
16	Damanaganga	(GUJ)	0.502	0.067	0.173	0.162	0.054	0.154	0.142	0.045	0.135	0.128	0.036	0.120	0.117	0.030	0.112	0.083
17	Dantiwada	(GUJ)	0.399	0.023	0.092	0.018	0.023	0.085	0.015	0.022	0.071	0.012	0.021	0.067	0.012	0.021	0.066	0.010
18	Panam	(GUJ)	0.697	0.274	0.269	0.276	0.263	0.261	0.273	0.251	0.253	0.268	0.243	0.251	0.265	0.241	0.247	0.261
*19	Sardar Sarovar	(GUJ)	5.760	1.139	0.000	0.769	1.149	0.000	0.774	1.157	0.000	0.772	1.165	0.000	0.757	1.232	0.000	0.681
20	Karjan	(GUJ)	0.523	0.218	0.250	0.228	0.210	0.242	0.216	0.197	0.232	0.202	0.187	0.219	0.188	0.176	0.201	0.176
*21	Gobind Sagar(Bhakra)	(H.P)	6.229	3.493	1.022	1.506	3.407	0.782	1.393	3.323	0.609	1.399	2.881	0.442	1.390	2.819	0.371	1.436
*22	Pong Dam	(H.P)	6.157	2.832	0.763	1.555	2.755	0.708	1.500	2.676	0.670	1.439	2.521	0.630	1.423	2.421	0.568	1.306
23	Krishnaraja Sagra	(KAR)	1.163	0.291	0.103	0.195	0.216	0.085	0.168	0.207	0.073	0.147	0.201	0.070	0.123	0.195	0.117	0.096
*24	Tungabhadra	(KAR)	3.276	0.095	0.099	0.193	0.090	0.077	0.184	0.085	0.071	0.196	0.080	0.079	0.255	0.073	0.109	0.276
25	Ghataprabha	(KAR)	1.391	0.127	0.175	0.124	0.119	0.130	0.092	0.117	0.127	0.088	0.102	0.125	0.069	0.027	0.123	0.064
26	Bhadra	(KAR)	1.785	0.449	0.116	0.498	0.379	0.100	0.439	0.318	0.089	0.416	0.271	0.091	0.339	0.269	0.101	0.315
27	Linganamakki	(KAR)	4.294	1.010	0.832	0.953	0.892	0.777	0.861	0.780	0.716	0.777	0.691	0.676	0.721	0.590	0.611	0.642
28	Narayanpur	(KAR)	0.863	0.212	0.216	0.242	0.227	0.209	0.238	0.214	0.203	0.239	0.211	0.216	0.233	0.220	0.267	0.237
29	Malaprabha(Renuka)	(KAR)	0.972	0.053	0.065	0.068	0.048	0.062	0.060	0.045	0.058	0.066	0.041	0.055	0.056	0.038	0.052	0.053
30	Kabini(Sancherla Tank)	(KAR)	0.444	0.115	0.055	0.045	0.105	0.046	0.040	0.098	0.045	0.040	0.091	0.046	0.039	0.079	0.071	0.039
31	Hemavathy	(KAR)	0.927	0.107	0.098	0.084	0.104	0.091	0.078	0.102	0.088	0.076	0.100	0.086	0.073	0.098	0.098	0.070
32	Harangi	(KAR)	0.220	0.031	0.038	0.031	0.031	0.039	0.032	0.032	0.039	0.033	0.032	0.009	0.030	0.032	0.001	0.030
33	Supa	(KAR)	4.120	1.557	1.483	1.101	1.479	1.456	1.042	1.390	1.436	1.051	1.323	1.404	0.967	1.270	1.367	0.977
34	Vanivilas Sagar	(KAR)	0.802	0.013	0.008	0.101	0.012	0.007	0.091	0.011	0.006	0.091	0.010	0.006	0.092	0.010	0.008	0.092
*35	Almatti	(KAR)	3.105	0.512	0.320	0.250	0.442	0.309	0.231	0.389	0.303	0.221	0.361	0.283	0.208	0.317	0.275	0.199
*36	Gerusoppa	(KAR)	0.130	0.120	0.122	0.113	0.112	0.119	0.113	0.118	0.113	0.113	0.095	0.113	0.112	0.103	0.109	0.106
37	Kallada(Parappar)	(KRL)	0.507	0.242	0.343	0.168	0.231	0.333	0.157	0.220	0.327	0.147	0.207	0.317	0.136	0.198	0.317	0.127
*38	Idamalayar	(KRL)	1.018	0.213	0.243	0.251	0.185	0.218	0.225	0.160	0.200	0.205	0.128	0.169	0.178	0.107	0.148	0.158

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 02.05.2019			As per Bulleting dated 09.05.2019			As per Bulleting dated 16.05.2019			As per Bulleting dated 23.05.2019			As per Bulleting dated 30.05.2019		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
*39	Idukki	(KRL)	1.460	0.495	0.456	0.401	0.444	0.430	0.372	0.396	0.412	0.348	0.340	0.373	0.314	0.295	0.369	0.285
*40	Kakki	(KRL)	0.447	0.140	0.189	0.149	0.121	0.173	0.135	0.106	0.157	0.123	0.083	0.136	0.107	0.066	0.125	0.096
*41	Periyar	(KRL)	0.173	0.024	0.022	0.031	0.023	0.023	0.034	0.022	0.026	0.034	0.021	0.027	0.034	0.021	0.036	0.035
42	Malampuzha	(KRL)	0.224	0.026	0.031	0.043	0.026	0.031	0.043	0.025	0.033	0.042	0.025	0.033	0.041	0.024	0.034	0.041
*43	Gandhi Sagar	(M.P.)	6.827	0.030	1.204	1.677	0.030	1.188	1.685	0.030	1.179	1.248	0.030	1.171	1.350	0.030	1.156	1.501
44	Tawa	(M.P.)	1.944	0.148	0.183	0.412	0.148	0.179	0.395	0.145	0.178	0.382	0.140	0.178	0.376	0.137	0.175	0.372
*45	Bargi	(M.P.)	3.180	1.294	1.750	1.001	1.262	1.670	0.915	1.206	1.600	0.834	1.164	1.512	0.767	1.124	1.426	0.698
*46	Bansagar	(M.P.)	5.166	3.419	2.339	2.018	3.419	2.319	1.854	3.419	2.293	1.905	3.419	2.254	1.646	3.419	2.228	1.796
*47	Indira Sagar	(M.P.)	9.745	3.385	2.236	1.881	3.264	2.214	1.787	3.028	2.174	1.573	2.757	2.070	1.426	2.610	1.916	1.288
48	Barna	(M.P.)	0.456	0.003	0.036	0.085	0.003	0.035	0.084	0.003	0.032	0.072	0.003	0.028	0.071	0.003	0.025	0.068
*49	Minimata Bangoi	(CHH.)	3.046	1.592	1.635	1.528	1.530	1.620	1.572	1.476	1.586	1.466	1.428	1.569	1.533	1.415	1.558	1.507
50	Mahanadi	(CHH.)	0.767	0.106	0.241	0.253	0.119	0.220	0.227	0.125	0.217	0.209	0.155	0.213	0.196	0.141	0.207	0.191
51	Jayakwadi(Paithon)	(MAH)	2.171	0.000	0.856	0.343	0.000	0.790	0.312	0.000	0.716	0.276	0.000	0.646	0.243	0.000	0.581	0.216
*52	Koyana	(MAH)	2.652	1.010	1.231	0.952	0.843	1.048	0.941	0.627	0.885	0.776	0.434	0.777	0.693	0.322	0.709	0.617
53	Bhima(Ujjani)	(MAH)	1.517	0.000	0.268	0.196	0.000	0.218	0.131	0.000	0.126	0.093	0.000	0.069	0.081	0.000	0.000	0.050
54	Isapur	(MAH)	0.965	0.128	0.000	0.218	0.098	0.000	0.208	0.083	0.000	0.195	0.054	0.000	0.179	0.027	0.000	0.170
55	Mula	(MAH)	0.609	0.039	0.188	0.145	0.035	0.162	0.121	0.032	0.127	0.097	0.027	0.089	0.073	0.024	0.050	0.050
56	Yeldari	(MAH)	0.809	0.000	0.000	0.100	0.000	0.000	0.084	0.000	0.000	0.073	0.000	0.000	0.070	0.000	0.000	0.070
57	Girna	(MAH)	0.524	0.095	0.090	0.080	0.093	0.087	0.075	0.006	0.085	0.070	0.050	0.083	0.066	0.048	0.081	0.060
58	Khadakvasla	(MAH)	0.056	0.020	0.051	0.028	0.015	0.047	0.028	0.016	0.030	0.027	0.017	0.015	0.021	0.023	0.024	0.022
*59	Upper Vaitarna	(MAH.)	0.331	0.105	0.094	0.133	0.093	0.093	0.123	0.081	0.091	0.114	0.070	0.090	0.108	0.058	0.088	0.101
60	Upper Tapi	(MAH.)	0.255	0.008	0.044	0.080	0.004	0.022	0.082	0.000	0.016	0.072	0.000	0.011	0.059	0.000	0.006	0.047
*61	Pench (Totaladoh)	(MAH.)	1.091	0.015	0.120	0.264	0.009	0.115	0.247	0.002	0.111	0.235	0.000	0.097	0.224	0.000	0.083	0.210
62	Upper Wardha	(MAH.)	0.564	0.100	0.224	0.194	0.097	0.216	0.189	0.091	0.210	0.184	0.087	0.205	0.179	0.083	0.200	0.174
63	Bhatsa	(MAH.)	0.942	0.346	0.407	0.394	0.329	0.388	0.376	0.310	0.371	0.360	0.292	0.353	0.343	0.275	0.335	0.321
64	Dhom	(MAH.)	0.331	0.034	0.103	0.101	0.034	0.097	0.092	0.039	0.082	0.088	0.024	0.069	0.079	0.013	0.057	0.068
65	Dudhganga	(MAH.)	0.664	0.156	0.259	0.232	0.156	0.259	0.232	0.080	0.184	0.168	0.063	0.170	0.149	0.044	0.152	0.132
66	Manikdoh (Kukadi)	(MAH.)	0.288	0.010	0.041	0.017	0.008	0.026	0.011	0.008	0.025	0.011	0.004	0.025	0.010	0.003	0.015	0.008
67	Bhandardara	(MAH.)	0.304	0.033	0.126	0.101	0.022	0.111	0.085	0.017	0.098	0.066	0.017	0.085	0.053	0.015	0.082	0.045
*68	Hirakud	(ODI)	5.378	1.830	1.797	1.648	1.578	1.658	1.492	1.415	1.583	1.393	1.231	1.489	1.160	1.046	1.331	1.059
*69	Balimela	(ODI)	2.676	1.026	0.294	0.777	1.132	0.258	0.591	0.855	0.252	0.398	0.779	0.238	0.573	0.666	0.215	0.329
70	Salanadi	(ODI)	0.558	0.295	0.230	0.130	0.307	0.231	0.139	0.306	0.230	0.137	0.305	0.229	0.137	0.303	0.233	0.153
*71	Rengali	(ODI)	3.432	0.754	1.655	1.274	0.730	1.640	1.172	0.552	1.351	0.908	0.437	1.171	0.574	0.314	0.769	0.442
*72	Machkund(Jalput)	(ODI)	0.893	0.376	0.366	0.361	0.369	0.360	0.327	0.339	0.308	0.332	0.316	0.254	0.304	0.293	0.216	0.263
*73	Upper Kolab	(ODI)	0.935	0.260	0.254	0.301	0.251	0.251	0.266	0.213	0.216	0.215	0.191	0.195	0.185	0.161	0.171	0.167
*74	Upper Indravati	(ODI)	1.456	0.460	0.435	0.467	0.440	0.428	0.451	0.323	0.353	0.380	0.280	0.316	0.340	0.257	0.267	0.286
*75	Thein	(PUN)	2.344	1.880	0.583	0.906	1.800	0.609	0.941	1.721	0.603	0.959	1.721	0.583	0.979	1.538	0.583	0.980
*76	Mahi Bajaj Sagar	(RAJ)	1.711	0.462	0.576	0.429	0.459	0.572	0.424	0.456	0.567	0.417	0.453	0.557	0.412	0.448	0.546	0.406

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Table 1.4 : Storage Position of Important Reserviors of India for the Year 2018-19

Sl. No	Name of Reservoirs	States	Live Cap. At FRL (BCM)	As per Bulleting dated 02.05.2019			As per Bulleting dated 09.05.2019			As per Bulleting dated 16.05.2019			As per Bulleting dated 23.05.2019			As per Bulleting dated 30.05.2019		
				Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)	Current Year's Live Storage (BCM)	Last Season's Live Storage (BCM)	Avg. Last 10 Years Live Cap. (BCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
77	**Jhakam**	(RAJ)	0.132	0.031	0.039	0.026	0.031	0.039	0.026	0.031	0.039	0.026	0.031	0.039	0.025	0.031	0.038	0.024
***78**	**Rana Pratap Sagar**	(RAJ)	1.436	0.366	0.505	0.413	0.350	0.493	0.395	0.333	0.483	0.423	0.318	0.474	0.433	0.305	0.464	0.417
79	**Lower Bhawani**	(TN)	0.792	0.140	0.159	0.135	0.140	0.135	0.133	0.144	0.114	0.134	0.149	0.126	0.139	0.150	0.148	0.143
***80**	**Mettur(Stanley)**	(TN)	2.647	0.553	0.271	0.722	0.534	0.274	0.719	0.501	0.262	0.717	0.469	0.246	0.731	0.450	0.296	0.756
81	**Vaigai**	(TN)	0.172	0.023	0.015	0.023	0.022	0.016	0.021	0.021	0.020	0.023	0.019	0.021	0.025	0.018	0.021	0.024
82	**Parambikulam**	(TN)	0.380	0.110	0.021	0.098	0.094	0.020	0.095	0.082	0.022	0.093	0.068	0.023	0.091	0.061	0.026	0.090
83	**Aliyar**	(TN)	0.095	0.007	0.000	0.039	0.006	0.000	0.039	0.005	0.001	0.040	0.004	0.001	0.038	0.001	0.000	0.036
***84**	**Sholayar**	(TN)	0.143	0.000	0.000	0.005	0.000	0.000	0.006	0.000	0.000	0.006	0.000	0.000	0.007	0.000	0.000	0.008
85	**Gumti**	(TRP)	0.312	0.096	0.164	0.049	0.097	0.168	0.048	0.099	0.197	0.057	0.101	0.228	0.072	0.104	0.232	0.074
86	**Matatila**	(UP)	0.707	0.168	0.172	0.308	0.186	0.101	0.284	0.134	0.058	0.249	0.104	0.076	0.208	0.059	0.074	0.194
***87**	**Rihand**	(UP)	5.649	0.776	0.936	1.061	0.758	0.874	0.976	0.758	0.811	0.933	0.749	0.732	0.899	0.740	0.652	0.782
***88**	**Ramganga**	(UTT)	2.196	0.896	0.468	0.928	0.891	0.415	0.753	0.884	0.364	0.637	0.878	0.313	0.608	0.873	0.251	0.553
***89**	**Tehri**	(UTT)	2.615	0.425	0.205	0.300	0.343	0.155	0.224	0.232	0.103	0.166	0.131	0.078	0.130	0.070	0.053	0.091
90	**Mayurakshi**	(WB)	0.480	0.078	0.174	0.094	0.078	0.172	0.093	0.078	0.172	0.092	0.078	0.170	0.094	0.077	0.170	0.096
91	**Kangsabati**	(WB)	0.914	0.305	0.422	0.189	0.306	0.422	0.189	0.306	0.422	0.186	0.305	0.422	0.182	0.305	0.422	0.176
	Reservoirs		161.993	40.592	35.411	39.177	38.734	33.533	36.834	35.990	31.389	34.158	33.563	29.525	32.270	31.650	27.776	30.744
	Percentage			25.058	21.860	24.184	23.911	20.700	22.738	22.217	19.377	21.086	20.719	18.226	19.921	19.538	17.146	18.979

Source : Water Management Directorate, Central Water Commission

* Hydel Power Capacity Having Capacity More Than 60mw

$ Total CCA 342 Th. Ha of DVC System

Total CCA 101 Th. Ha of Parambikulam & Aliyar

@' Total CCA 425 Th. Ha. of Narayanpur And Almatti

† Sabarmati Reservoir Is Supplemented With Narmada Water Through Pipeline.

Table 1.5(a) : State-wise Details of Hydrological Observations Sites as on 30.09.2019

Sl. No.	Name of State/UT	Type of Site							
		G	GD	GDQ	GDS	GDSQ	GQ	SG&Met	Total
1	2	3	4	5	6	7	8	9	10
1	Andhra Pradesh	9	17	4	0	15		4	49
2	Arunachal Pradesh	22	11	1	5	5	4	14	62
3	Assam	51	25	6	2	26	17	3	130
4	Bihar	97	7	4	1	14			123
5	Chhattishgarh	11	11	1	0	18		3	44
6	Dadar & Nagar Haveli	3	1						4
7	Delhi		1			2			3
8	Goa		2						2
9	Gujarat	21	12	5	0	9		1	48
10	Haryana	4	5	0	0	1			10
11	Himachal Pradesh	10	7	0	2	6		18	43
12	Jammu & Kashmir	23	8	3	3	4		22	63
13	Jharkhand	12	17	3	0	6	1		39
14	Karnataka	9	19	13	0	25		5	71
15	Kerala	0	12	1	0	26			39
16	Madhya Pradesh	41	61	11	0	27		2	142
17	Maharashtra	33	38	9	2	30	1	12	125
18	Manipur	1							1
19	Meghalaya	9	5	4	3	2			23
20	Mizoram	10	9	0	6	4			29
21	Odisha	45	8	0	0	24		3	80
22	Puducherry			3					3
23	Rajasthan	7	16	3	0	9			35
24	Sikkim	19	3	0	9	0			31
25	Tamil Nadu	0	22	22	0	19			63
26	Telangana	13	13	2	0	9	1		38
27	Tripura	4	5	0	5	3			17
28	Uttar Pradesh	62	65	11	0	46	2		186
29	Uttarakhand	23	31	2	7	9		17	89
30	West Bengal	31	23	6	2	20			82
	Grand Total	**570**	**454**	**114**	**47**	**359**	**26**	**104**	**1674**

Source : RDC-2 Directorate, CWC

Note : G - Gauge Site
GQ - Gauge and Water Quality Site
GD - Gauge and Discharge Site
GDS - Gauge ,Discharge & Siitation Site
GDQ - Gauge,Discharge & Water Quality Site
GDSQ - Gauge,Discharge,Siltation and Water Quality Site
SG&Met - Snow Gauge and Meteorological Site

Table 1.5 (b): Basin-wise Details of Hydrological Observations Sites as on 30.09.2019

Sl. No.	Name of Basin	G	GD	GDQ	GDS	GDSQ	GQ	SG&Met	Grand Total
1	2	3	4	5	6	7	8	9	10
1	**Brahmani & Baitarni**	11	0	0	0	14	0	1	26
2	**Cauvery Basin**	0	25	16	0	25	0	0	66
3	**East Flowing rivers between Mahanadi and Pennar**	14	1	0	0	5	0	0	20
4	**East Flowing rivers between Pennar and Kanyakumari**	0	13	11	0	8	0	0	32
5	**Ganga/Brahmaputra/Meghna/Barak Basin**	352	243	39	35	154	24	37	884
6	**Godavari Basin**	37	46	7	1	36	2	3	132
7	**Indus Basin**	32	14	3	5	6	0	37	97
8	**Krishna Basin**	18	18	7	0	28	0	9	80
9	**Mahanadi Basin**	28	2	1	0	20	0	5	56
10	**Mahi Basin**	7	3	1	0	3	0	0	14
11	**Narmada Basin**	18	35	7	0	11	0	2	73
12	**Pennar Basin**	0	5	4	0	4	0	0	13
13	**Sabarmati Basin**	7	3	2	0	1	0	0	13
14	**Subernarekha Basin**	8	2	1	0	6	0	0	17
15	**Tapi Basin**	22	19	1	1	5	0	7	55
16	**WFR From Tapi to Tadri**	7	8	4	0	3	0	3	25
17	**WFR From Tadri to Kanyakumari**	0	12	8	0	26	0	0	46
18	**WFR Of Kutch & Saurashtra**	4	5	2	0	3	0	0	14
19	**Area of Inland Drainage in Rajasthan Desert**	0	0	0	0	0		0	0
20	**Minor Rivers Draining Myanmar(Burma)and Bangladesh**	5	0	0	5	1		0	11
	Grand Total	570	454	114	47	359	26	104	1674

Source : RDC-2 Directorate, CWC

Note : G - Gauge Site
GQ - Gauge and Water Quality Site
GD - Gauge and Discharge Site
GDS - Gauge ,Discharge & Siitation Site
GDQ - Gauge,Discharge & Water Quality Site
GDSQ - Gauge,Discharge,Siltation and Water Quality Site
SG&Met - Snow Gauge and Meteorological Site

Table 1.5(c) : State/Basin-wise Details of 878 Existing Hydrological Observations Sites &76 Snow Gauge and Meteorological Site under CWC as on 30.09.2019

Sl. No.	Name of State/River Basin	Type of Site							
		G	GD	GDQ	GDS	GDSQ	GQ	SG&Met	Total
1	2	3	4	5	6	7	8	9	10
1	**Andhra Pradesh**	**6**	**1**	**4**		**14**		**4**	**29**
	East Flowing rivers between Mahanadi and Pennar	1	1			2		0	**4**
	East Flowing rivers between Pennar and Kanyakumari					2		0	**2**
	Godavari Basin	2				1		2	**5**
	Krishna Basin	3				5		2	**10**
	Pennar Basin			4		4		0	**8**
2	**Arunachal pradesh**	**10**	**4**	**1**	**3**	**2**	**4**	**8**	**32**
	Ganga/Brahmaputra/Meghna/Barak Basin	10	4	1	3	2	4	8	**32**
3	**Assam**	**28**	**2**	**6**	**2**	**18**	**17**	**3**	**76**
	Ganga/Brahmaputra/Meghna/Barak Basin	28	2	6	2	18	17	3	**76**
4	**Bihar**	**31**	**7**	**4**	**1**	**14**		**0**	**57**
	Ganga/Brahmaputra/Meghna/Barak Basin	31	7	4	1	14		0	**57**
5	**Chhattishgarh**	**7**	**8**	**1**		**16**		**3**	**35**
	Ganga/Brahmaputra/Meghna/Barak Basin		1					0	**1**
	Godavari Basin	1	6			3		0	**10**
	Mahanadi Basin	6	1	1		13		3	**24**
6	**Dadra &Nagar Haveli**	**3**	**1**					**0**	**4**
	West flowing rivers from Tapi to Tadri	3	1					0	**4**
7	**Delhi**		**1**			**2**			**3**
	Ganga/Brahmaputra/Meghna/Barak Basin		1			2			**3**
8	**Goa**		**2**						**2**
	West flowing rivers from Tapi to Tadri		2						**2**
9	**Gujarat**	**18**	**10**	**5**		**9**		**1**	**43**
	Mahi Basin	3	1			1			**5**
	Narmada Basin	2	1			2			**5**
	Sabarmati Basin	6	3	2		1			**12**
	Tapi Basin	2	1	1				1	**5**
	West flowing rivers from Tapi to Tadri	2	1	1		2			**6**
	West flowing rivers of Kutchh and Saurashtra including Luni	3	3	1		3			**10**
10	**Haryana**	**1**	**3**			**1**			**5**
	Ganga/Brahmaputra/Meghna/Barak Basin	1	3			1			**5**
11	**Himachal Pradesh**	**5**	**4**		**1**	**4**		**7**	**21**
	Ganga/Brahmaputra/Meghna/Barak Basin	1				2		3	**6**
	Indus Basin (Chenab)		1		1	2		2	**6**
	Indus Basin (Satluj)	4	3					2	**9**
12	**Jammu & Kashmir**	**2**	**5**	**3**	**1**	**4**		**18**	**33**
	Indus Basin (Chenab)	1	3		1	4		15	**24**
	Indus Basin (Jhelum)	1	2	3				3	**9**
13	**Jharkhand**	**7**	**12**	**3**		**6**	**1**		**29**
	Brahmani-Baitarni Basin					1			**1**
	Ganga/Brahmaputra/Meghna/Barak Basin	7	12	2		2	1		**24**
	Subernarekha Basin			1		3			**4**
14	**Karnataka**	**8**	**2**	**13**		**22**		**5**	**50**
	Cauvery Basin			4		9		0	**13**
	Godavari Basin					1		0	**1**
	Krishna Basin	8	2	4		11		5	**30**
	West Flowing Rivers from Tadri to Kanyakumari			5		1		0	**6**
15	**Kerala**			**1**		**20**			**21**
	Cauvery Basin					1			**1**
	West Flowing Rivers from Tadri to Kanyakumari			1		19			**20**
16	**Madhya Pradesh**	**5**	**11**	**10**		**24**		**2**	**52**
	Ganga/Brahmaputra/Meghna/Barak Basin		8	2		10		0	**20**
	Godavari Basin	1		1		3		0	**5**
	Mahi Basin					1		0	**1**
	Narmada Basin	3	2	7		9		2	**23**
	Tapi Basin	1	1			1		0	**3**

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Table 1.5(c) : State/Basin-wise Details of 878 Existing Hydrological Observations Sites &76 Snow Gauge and Meteorological Site under CWC as on 30.09.2019

Sl. No.	Name of State/River Basin	Type of Site							
		G	GD	GDQ	GDS	GDSQ	GQ	SG&Met	Total
1	2	3	4	5	6	7	8	9	10
17	**Maharashtra**	**17**	**17**	**7**	**2**	**25**	**1**	**12**	**81**
	Godavari Basin	10	6	3	1	15	1	1	**37**
	Krishna Basin	1	3	1		7		2	**14**
	Tapi Basin	4	4		1	2		6	**17**
	West flowing rivers from Tapi to Tadri	2	4	3		1		3	**13**
18	**Manipur**	**1**						**0**	**1**
	Ganga/Brahmaputra/Meghna/Barak Basin	1						0	**1**
19	**Meghalaya**	**1**		**4**	**1**	**1**		**0**	**7**
	Ganga/Brahmaputra/Meghna/Barak Basin	1		4	1	1		0	**7**
20	**Mizoram**	**2**	**2**		**3**			**0**	**7**
	Ganga/Brahmaputra/Meghna/Barak Basin		2					0	**2**
	Minor Rivers Draining into Myanmar and Bangladesh	2			3			0	**5**
21	**Odisha**	**28**	**6**			**19**		**3**	**56**
	Brahmani-Baitarni Basin	6				8		1	**15**
	East Flowing rivers between Mahanadi and Pennar	6				3		0	**9**
	Godavari Basin		4			1		0	**5**
	Mahanadi Basin	12	1			5		2	**20**
	Subernarekha Basin	4	1			2		0	**7**
23	**Puducherry**			**3**				**0**	**3**
	Cauvery Basin			2				0	**2**
	East Flowing rivers between Pennar and Kanyakumari			1				0	**1**
24	**Rajasthan**	**5**	**8**	**3**		**8**		**0**	**24**
	Ganga/Brahmaputra/Meghna/Barak Basin		5	1		7		0	**13**
	Mahi Basin	3	1	1		1		0	**6**
	Sabarmati Basin	1						0	**1**
	West flowing rivers of Kutchh and Saurashtra including Luni	1	2	1				0	**4**
25	**Sikkim**	**4**	**2**		**9**			**0**	**15**
	Ganga/Brahmaputra/Meghna/Barak Basin	4	2		9			0	**15**
26	**Tamil Nadu**			**19**		**16**		**0**	**35**
	Cauvery Basin			9		9		0	**18**
	East Flowing rivers between Pennar and Kanyakumari			8		6		0	**14**
	West Flowing Rivers from Tadri to Kanyakumari			2		1		0	**3**
27	**Telangana**	**12**	**3**	**2**		**7**	**1**	**0**	**25**
	Godavari Basin	8	3	1		4	1	0	**17**
	Krishna Basin	4		1		3		0	**8**
28	**Tripura**	**3**	**4**		**5**	**1**		**0**	**13**
	Ganga/Brahmaputra/Meghna/Barak Basin	3	4		5	1		0	**13**
29	**Uttar Pradesh**	**26**	**17**	**11**		**37**	**2**	**0**	**93**
	Ganga/Brahmaputra/Meghna/Barak Basin	26	17	11		37	2	0	**93**
30	**Uttarakhand**	**7**	**13**	**2**	**5**	**7**		**10**	**44**
	Ganga/Brahmaputra/Meghna/Barak Basin	7	13	2	5	7		10	**44**
31	**West Bengal**	**18**	**14**	**6**	**2**	**18**		**0**	**58**
	Ganga/Brahmaputra/Meghna/Barak Basin	18	13	6	2	18		0	**57**
	Subernarekha Basin		1					0	**1**
	Grand Total	**255**	**159**	**108**	**35**	**295**	**26**	**76**	**954**

Source : RDC-2 Directorate, CWC

Note : G - Gauge Site
GQ - Gauge and Water Quality Site
GD - Gauge and Discharge Site
GDS - Gauge ,Discharge & Siitation Site
GDQ - Gauge,Discharge & Water Quality Site
GDSQ - Gauge,Discharge,Siltation and Water Quality Site
SG&Met - Snow Gauge and Meteorological Site

Table No. 1.5(d) : State/Basin wise Details of 720 Proposed Hydrological Observations Sites as per XII Five Year Plan and subsequent years as on 30.09.2019

Sl. No.	Name of State/River Basin	Type of Site						
		G	GD	GDQ	GDS	GDSQ	SG&Met	Total
1	2	3	4	5	6	7	8	9
1	**Andhra Pradesh**	**3**	**16**			**1**		**20**
	East Flowing Rivers between Mahanadi and Pennar	3						3
	Godavari Basin		4			1		5
	Krishna Basin		5					5
	Pennar Basin		3					3
	East Flowing Rivers between Pennar to Kanyakumari		4					4
2	**Arunachal Pradesh**	**12**	**7**		**2**	**3**	**6**	**30**
	Ganga/Brahmaputra/Meghna/ Barak Basin	12	7		2	3	6	30
3	**Assam**	**23**	**23**			**8**		**54**
	Ganga/Brahmaputra/Meghna/ Barak Basin	23	23			8		54
4	**Bihar**	**66**						**66**
	Ganga/Brahmaputra/Meghna/ Barak Basin	66						66
5	**Chattishgarh**	**4**	**3**			**2**		**9**
	Godavari Basin		3					3
	Mahanadi Basin	4				2		6
6	**Gujarat**	**3**	**2**					**5**
	Tapi Basin	3	2					5
7	**Haryana**	**3**	**2**					**5**
	Ganga/Brahmaputra/Meghna/ Barak Basin	3	2					5
8	**Himachal Pradesh**	**5**	**3**		**1**	**2**	**11**	**22**
	Ganga/Brahmaputra/Meghna/ Barak Basin		1			2		3
	Indus Basin	5	2		1		11	19
9	**J&K**	**21**	**3**		**2**		**4**	**30**
	Indus Basin	21	3		2		4	30
10	**Jharkhand**	**5**	**5**					**10**
	Ganga/Brahmaputra/Meghna/ Barak Basin	3	5					8
	Subernarekha Basin	2						2
11	**Karnataka**	**1**	**17**			**3**		**21**
	Cauvery Basin		12			2		14
	Godavari Basin		1					1
	Krishna Basin	1	2			1		4
	Pennar Basin		2					2
12	**Kerala**		**12**			**6**		**18**
	Cauvery Basin		1			1		2
	West Flowing rivers from Tadri to Kanyakumari		11			5		16
13	**Madhya Pradesh**	**36**	**50**	**1**		**3**		**90**
	Basin	12	15					27
	Godavari Basin	3	1	1		1		6
	Narmada Basin	13	32					45
	Tapi Basin	8	2			2		12

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Table No. 1.5(d) : State/Basin wise Details of 720 Proposed Hydrological Observations Sites as per XII Five Year Plan and subsequent years as on 30.09.2019

Sl. No.	Name of State/River Basin	Type of Site						
14	**Maharashtra**	**16**	**21**	**2**		**5**		**44**
	Godavari Basin	11	9	1		5		26
	Krishna Basin	1	3	1				5
	Tapi Basin	4	9					13
15	**Meghalaya**	**8**	**5**		**2**	**1**		**16**
	Ganga/Brahmaputra/Meghna/ Barak Basin	8	5		2	1		16
16	**Mizoram**	**8**	**7**		**3**	**4**		**22**
	Ganga/Brahmaputra/Meghna/ Barak Basin	5	7		1	3		16
	Minor Rivers draining Myanmar (Burma) and Bangladesh	3			2	1		6
17	**Odisha**	**17**	**2**			**5**		**24**
	Brahmani-Baitarni Basin	5				5		10
	East Flowing Rivers between Mahanadi and Pennar	4						4
	Godavari Basin		2					2
	Mahanadi Basin	6						6
	Subernarekha Basin	2						2
18	**Rajasthan**	**2**	**8**			**1**		**11**
	Ganga/Brahmaputra/Meghna/ Barak Basin	1	7			1		9
	Mahi Basin	1	1					2
19	**Sikkim**	**15**	**1**					**16**
	Ganga/Brahmaputra/Meghna/ Barak Basin	15	1					16
20	**Tamil Nadu**		**22**	**3**		**3**		**28**
	Cauvery Basin		12	1		3		16
	East Flowing Rivers between Pennar to Kanyakumari		9	2				11
	West Flowing rivers from Tadri to Kanyakumari		1					1
21	**Telangana**	**1**	**10**			**2**		**13**
	Godavari Basin	1	7			1		9
	Krishna Basin		3			1		4
22	**Tripura**	**1**	**1**			**2**		**4**
	Ganga/Brahmaputra/Meghna/ Barak Basin	1	1			2		4
23	**Uttar Pradesh**	**36**	**48**			**9**		**93**
	Ganga/Brahmaputra/Meghna/ Barak Basin	36	48			9		93
24	**Uttarakhand**	**16**	**18**		**2**	**2**	**7**	**45**
	Ganga/Brahmaputra/Meghna/ Barak Basin	16	18		2	2	7	45
25	**West Bengal**	**13**	**9**			**2**		**24**
	Ganga/Brahmaputra/Meghna/ Barak Basin	13	9			1		23
	Subernarekha Basin					1		1
	Grand Total	**315**	**295**	**6**	**12**	**64**	**28**	**720**

Source : RDC-2 Directorate, CWC

Note : G - Gauge Site
GQ - Gauge and Water Quality Site
GD - Gauge and Discharge Site
GDS - Gauge ,Discharge & Siitation Site
GDQ - Gauge,Discharge & Water Quality Site
GDSQ - Gauge,Discharge,Siltation and Water Quality Site
SG&Met - Snow Gauge and Meteorological Site

Table 1.6: 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 for Domestic Use as on 2025	Net Ground Water Availability for future use	Stage of Ground Water Extraction (%)
		Monsoon Season		Non-monsoon Season		Total Annual Ground Water Recharge			Irrigation	Industrial	Domestic	Total			
		Recharge from Rainfall	Recharge from other sources	Recharge from Rainfall	Recharge from other sources										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	States														
1	**Andhra Pradesh**	9.96	5.62	1.21	4.42	21.22	1.07	20.15	7.85	0.14	0.90	8.90	1.48	12.31	44.15
2	**Arunachal Pradesh**	1.89	0.18	0.95	0.01	3.02	0.36	2.67	0.00	0.00	0.01	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	2.73	0.79	21.43	11.25
4	**Bihar**	19.83	3.95	3.14	4.50	31.41	2.43	28.99	10.78	0.66	1.83	13.26	1.83	15.78	45.76
5	**Chhattisgarh**	7.82	1.36	0.76	1.64	11.57	1.00	10.57	3.98	0.05	0.67	4.70	0.79	5.76	44.43
6	**Delhi**	0.13	0.06	0.03	0.11	0.32	0.02	0.30	0.09	0.02	0.24	0.36	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	0.04	0.07	33.50
8	**Gujarat**	15.95	3.40	0.00	3.02	22.37	1.12	21.25	12.84	0.11	0.63	13.58	0.90	7.98	63.89
9	**Haryana**	3.56	2.55	1.03	3.00	10.15	1.01	9.13	11.53	0.34	0.63	12.50	0.72	0.87	136.91
10	**Himachal Pradesh**	0.34	0.02	0.11	0.04	0.51	0.05	0.46	0.20	0.00	0.19	0.39	0.34	0.16	86.37
11	**Jammu & Kashmir**	1.00	0.50	0.88	0.51	2.89	0.29	2.60	0.20	0.07	0.50	0.76	0.50	1.84	29.47
12	**Jharkhand**	5.25	0.13	0.41	0.42	6.21	0.52	5.69	0.80	0.22	0.56	1.58	0.56	4.13	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	5.41	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	2.41	51.27
15	**Madhya Pradesh**	27.10	1.51	0.82	6.99	36.42	1.95	34.47	17.43	0.22	1.24	18.88	1.72	15.84	54.76
16	**Maharashtra**	20.59	2.29	0.53	8.23	31.64	1.74	29.90	15.10	0.003	1.22	16.33	2.28	12.91	54.62
17	**Manipur**	0.23	0.01	0.17	0.02	0.43	0.04	0.39	0.00	0.00	0.00	0.01	0.04	0.34	1.44
18	**Meghalaya**	1.37	0.01	0.43	0.02	1.83	0.19	1.64	0.03	0.00	0.01	0.04	0.02	1.59	2.28
19	**Mizoram**	0.16	0.00	0.05	0.00	0.21	0.02	0.19	0.00	0.00	0.01	0.01	0.01	0.18	3.82
20	**Nagaland**	1.65	0.03	0.52	0.00	2.20	0.22	1.98	0.00	0.00	0.02	0.02	0.02	1.96	0.99
21	**Odisha**	10.53	2.34	1.50	2.37	16.74	1.17	15.57	5.28	0.14	1.15	6.57	1.30	8.85	42.18
22	**Punjab**	5.54	11.83	1.31	5.25	23.93	2.35	21.58	34.56	0.20	1.01	35.78	1.41	1.09	165.77
23	**Rajasthan**	9.74	0.78	0.24	2.44	13.21	1.22	11.99	14.85	0.00	1.92	16.77	2.67	0.88	139.88
24	**Sikkim**	5.20	0.00	0.43	0.00	5.63	4.11	1.52	0.00	0.00	0.00	0.00	0.01	1.51	0.06
25	**Tamil Nadu**	6.67	9.41	1.89	2.26	20.22	2.02	18.20	13.06	0.00	1.67	14.73	1.85	5.66	80.94
26	**Telangana**	7.56	1.42	1.88	2.76	13.62	1.25	12.37	7.09	*	1.00	8.09	1.39	4.26	65.45
27	**Tripura**	0.80	0.06	0.40	0.26	1.53	0.29	1.24	0.02	0.00	0.08	0.10	0.11	1.11	7.88
28	**Uttar Pradesh**	37.73	11.67	1.59	18.93	69.92	4.60	65.32	40.89	*	4.95	45.84	5.96	20.36	70.18
29	**Uttarakhand**	1.15	0.93	0.09	0.87	3.04	0.15	2.89	1.30	0.13	0.22	1.64	0.22	1.25	56.83
30	**West Bengal****	18.71	1.51	5.26	3.85	29.33	2.77	26.56	10.84	*	1.00	11.84	1.53	14.19	44.60
	Total States	**251.36**	**66.41**	**36.30**	**77.06**	**431.13**	**39.09**	**392.04**	**221.33**	**2.38**	**24.77**	**248.47**	**31.52**	**172.82**	**63.38**
	Union Territories														
1	**Andaman & Nicobar**	0.35	0.00	0.02	0.00	0.37	0.04	0.33	0.00	0.00	0.01	0.01	0.01	0.32	2.74
2	**Chandigarh**	0.02	0.01	0.00	0.01	0.04	0.00	0.04	0.00	*	0.03	0.03	0.03	0.00	89.00
3	**Dadra & Nagar Haveli**	0.06	0.00	0.00	0.01	0.07	0.00	0.07	0.01	*	0.01	0.02	0.01	0.04	31.34
4	**Daman & Diu**	0.02	0.00	0.00	0.00	0.02	0.00	0.02	0.01	0.00	0.00	0.01	0.00	0.00	61.40
5	**Lakshadweep**	0.01	0.00	0.00	0.00	0.01	0.01	0.004	0.00	0.00	0.002	0.002	0.00	0.00	65.99
6	**Puducherry**	0.09	0.07	0.02	0.05	0.23	0.02	0.20	0.11	*	0.04	0.15	0.04	0.05	74.33
	Total UTs	**0.54**	**0.08**	**0.05**	**0.07**	**0.73**	**0.08**	**0.66**	**0.13**	**0.00**	**0.10**	**0.23**	**0.10**	**0.43**	**34.51**
	Grand Total	**251.90**	**66.49**	**36.34**	**77.13**	**431.86**	**39.16**	**392.70**	**221.46**	**2.38**	**24.87**	**248.69**	**31.62**	**173.25**	**63.33**

Source : Central Ground Water Board, Faridabad

Note : *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

Table 1.7 : State-wise Categorization of Blocks/ Mandals/ Talukas in India during 2017

S.No.	States / Union Territories	Total No. of Assessed	Safe		Semi-Critical		Critical		Over-Exploited		Saline	
			Nos.	%	Nos.	%	Nos.	%	Nos.	%	Nos.	%
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Andhra Pradesh	670	501	75	60	9	24	4	45	7	40	6
2	Arunachal Pradesh	11	11	100	0	0	0	0	0	0	0	0
3	Assam	28	28	100	0	0	0	0	0	0	0	0
4	Bihar	534	432	81	72	13	18	3	12	2	0	0
5	Chhattisgarh	146	122	84	22	15	2	1	0	0	0	0
6	Delhi	34	3	9	7	21	2	6	22	65	0	0
7	Goa	12	12	100	0	0	0	0	0	0	0	0
8	Gujarat	248	194	78	11	4	5	2	25	10	13	5
9	Haryana	128	26	20	21	16	3	2	78	61	0	0
10	Himachal Pradesh	8	3	38	1	13	0	0	4	50	0	0
11	Jammu & Kashmir	22	22	100	0	0	0	0	0	0	0	0
12	Jharkhand	260	245	94	10	4	2	1	3	1	0	0
13	Karnataka	176	97	55	26	15	8	5	45	26	0	0
14	Kerala	152	119	78	30	20	2	1	1	1	0	0
15	Madhya Pradesh	313	240	77	44	14	7	2	22	7	0	0
16	Maharashtra	353	271	77	61	17	9	3	11	3	1	0
17	Manipur	9	9	100	0	0	0	0	0	0	0	0
18	Meghalaya	11	11	100	0	0	0	0	0	0	0	0
19	Mizoram	26	26	100	0	0	0	0	0	0	0	0
20	Nagaland	11	11	100	0	0	0	0	0	0	0	0
21	Odisha	314	303	96	5	2	0	0	0	0	6	2
22	Punjab	138	22	16	5	4	2	1	109	79	0	0
23	Rajasthan	295	45	15	29	10	33	11	185	63	3	1
24	Sikkim	4	4	100	0	0	0	0	0	0	0	0
25	Tamil Nadu	1166	427	37	163	14	79	7	462	40	35	3
26	Telangana	584	278	48	169	29	67	11	70	12	0	0
27	Tripura	59	59	100	0	0	0	0	0	0	0	0
28	Uttar Pradesh*	830	540	65	151	18	48	6	91	11	0	0
29	Uttarakhand	18	13	72	5	28	0	0	0	0	0	0
30	West Bengal **	268	191	71	76	28	1	0	0	0	0	0
	Total States	**6828**	**4265**	**62**	**968**	**14**	**312**	**5**	**1185**	**17**	**98**	**1**

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Table 1.7 : State-wise Categorization of Blocks/ Mandals/ Talukas in India during 2017

S.No.	States / Union Territories	Total No. of Assessed	Safe		Semi-Critical		Critical		Over-Exploited		Saline	
			Nos.	%	Nos.	%	Nos.	%	Nos.	%	Nos.	%
1	2	3	4	5	6	7	8	9	10	11	12	13
	Union Territories											
1	Andaman & Nicobar	36	35	97	0	0	0	0	0	0	1	3
2	Chandigarh	1	0	0	1	100	0	0	0	0	0	0
3	Dadra & Nagar Haveli	1	1	100	0	0	0	0	0	0	0	0
4	Daman & Diu	2	1	50	0	0	1	50	0	0	0	0
5	Lakshadweep	9	6	67	3	33	0	0	0	0	0	0
6	Puducherry	4	2	50	0	0	0	0	1	25	1	25
	Total UTs	**53**	**45**	**85**	**4**	**8**	**1**	**2**	**1**	**2**	**2**	**4**
	Grand Total	**6881**	**4310**	**63**	**972**	**14**	**313**	**5**	**1186**	**17**	**100**	**1**

Source : Central Ground Water Board, Faridabad

Note :

Blocks- Bihar, Chhattisgarh, Haryana, Jharkhand, Kerala, M.P., Manipur, Mizoram, Odisha, Punjab, Rajasthan, Tripura, Uttar Pradesh, Uttarakhand,
Taluks -Karnataka, Goa, Gujarat, Maharashtra
Mandals - Andhra Pradesh, Telangana
Districts/Valley- Arunachal Pradesh, Assam, Himachal Pradesh, Jammu & Kashmir, Meghalaya, Mizoram, Nagaland
Islands - Lakshadweep, Andaman & Nicobar Islands
Firka-Tamil Nadu
Region - Puducherry
UT - Chandigarh, Dadar & Nagar Haveli, Daman & Diu
Tehsil-NCT Delhi
***Uttar Pradesh:** There are total 820 blocks and 10 Cities
**The Ground Water resources assessment as on 2013 has been considered for the State of West Bengal

Table 1.8: State-wise Ultimate Irrigation Potential

(Th. Ha)

Sl. No.	State/UT	Major & Medium Surface Water	Minor Irrigation			Total (Major, Medium & Minor)
			Surface Water	Ground Water	Total	
1	2	3	4	5	6	7
1	Andhra Pradesh	5000	2300	3960	6260	11260
2	Arunachal Pradesh	0	150	18	168	168
3	Assam	970	1000	900	1900	2870
4	Bihar	5224	1544	4120	5664	10888
5	Chhattisgarh	1147	81	490	571	1718
6	Goa	62	25	-	25	87
7	Gujarat	3000	347	2756	3103	6103
8	Haryana	3000	50	1462	1512	4512
9	Himachal Pradesh	50	235	68	303	353
10	Jammu & Kashmir	250	400	708	1108	1358
11	Jharkhand	1276	354	830	1184	2460
12	Karnataka	2500	900	2574	3474	5974
13	Kerala	1000	800	879	1679	2679
14	Madhya Pradesh	4853	2111	9250	11361	16214
15	Maharashtra	4100	1200	3652	4852	8952
16	Manipur	135	100	369	469	604
17	Meghalaya	20	85	63	148	168
18	Mizoram	0	65	5	70	70
19	Nagaland	10	70	5	75	85
20	Odisha	3600	1000	4203	5203	8803
21	Punjab	3000	50	2917	2967	5967
22	Rajasthan	2750	600	1778	2378	5128
23	Sikkim	20	50	0	50	70
24	Tamil Nadu	1500	1200	2832	4032	5532
25	Tripura	100	100	81	181	281
26	Uttar Pradesh	12154	1186	16295	17481	29635
27	Uttarakhand	346	14	504	518	864
28	West Bengal	2300	1300	3318	4618	6918
Total States		58367	17317	64066	81383	139750
Total UTs		**98**	**20**	**26**	**46**	**144**
Grand Total		**58465**	**17337**	**64092**	**81429**	**139894**

Source : Planning and Progress Directorate, CWC

Table 1.9 : Abstract Of Large Dams (State-wise & Decade-wise) as on 30.11.2018

Sl. No.	State	Year of Completion											Total
		UP TO 1900	1901 TO 1950	1951 TO 1960	1961 TO 1970	1971 TO 1980	1981 TO 1990	1991 TO 2000	2001 & Beyond	Year of construction not available	Total completed dams	Under Construction	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Andaman & Nicobar Islands*	-	-	-	-	1	-	-	1	-	2	-	2
2	Andhra Pradesh	1	6	9	11	24	15	9	21	46	142	25	167
3	Arunachal Pradesh	-	-	-	-	-	-	-	1	-	1	3	4
4	Assam	-	-	-	-	-	2	-	1	-	3	1	4
5	Bihar	1	-	1	8	5	5	1	3	-	24	2	26
6	Chhattisgarh	-	11	1	18	51	99	37	30	1	248	10	258
7	Goa	-	-	-	-	-	3	2	-	-	5	-	5
8	Gujarat	6	57	59	85	151	155	57	45	5	620	12	632
9	Himachal Pradesh	-	-	-	1	2	1	1	12	2	19	1	20
10	Haryana	-	-	-	-	-	-	-	1	-	1	-	1
11	Jammu & Kashmir	-	-	-	-	2	2	1	6	3	14	3	17
12	Jharkhand	-	-	9	5	11	22	-	-	3	50	29	79
13	Karnataka	6	24	11	39	49	54	17	14	16	230	1	231
14	Kerala	1	1	9	15	11	10	10	4	0	61	1	62
15	Madhya Pradesh	3	86	35	66	220	301	93	67	28	899	7	906
16	Maharashtra	21	38	24	156	615	455	378	382	0	2069	285	2354
17	Manipur	-	-	-	-	1	-	1	1	-	3	1	4
18	Meghalaya	-	-	1	2	2	-	1	2	-	8	-	8
19	Mizoram	-	-	-	-	-	-	-	-	-	-	1	1
20	Nagaland	-	-	-	-	-	-	1	-	-	1	-	1

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Table 1.9 : Abstract Of Large Dams (State-wise & Decade-wise) as on 30.11.2018

Sl. No.	State	Year of Completion											Total
		UP TO 1900	1901 TO 1950	1951 TO 1960	1961 TO 1970	1971 TO 1980	1981 TO 1990	1991 TO 2000	2001 & Beyond	Year of construction not available	Total completed dams	Under Construction	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
21	Odisha	2	2	4	8	54	77	35	13	4	199	5	204
22	Punjab	-	-	1	-	-	4	6	3	-	14	2	16
23	Rajasthan	17	14	33	23	29	37	26	22	8	209	2	211
24	Sikkim	-	-	-	-	-	-	1	1	-	2	-	2
25	Tamil Nadu	0	10	10	26	26	17	8	19	-	116	0	116
26	Telangana	6	29	6	13	9	13	6	3	78	163	21	184
27	Tripura	-	-	-	-	1	-	-	-	-	1	-	1
28	Uttar Pradesh	4	24	21	22	16	14	11	3	-	115	15	130
29	Uttarakhand	-	-	-	5	4	2	1	4	-	16	9	25
30	West Bengal	-	-	1	1	4	16	2	5	-	29	1	30
	Grand Total	**68**	**302**	**235**	**504**	**1288**	**1304**	**705**	**664**	**194**	**5264**	**437**	**5701**

Source: Dam Safety Monitoring Directorate, CWC

* Union Territory (UT)

DEFINITION OF LARGE DAMS FOR INCLUSION UNDER NRLD

International Commission on Large Dams (ICOLD) Specification

• A large dam is classified as one with a maximum height of more than 15 metres from its deepest foundation to the crest.

• A dam between 10 and 15 metres 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 metres or

b) Capacity of the reservoir formed by the dam is not less than one million cubic metres or

c) The maximum flood discharge dealt with by the dam is not less than 2000 cubic metres per second or

d) The dam has specially difficult foundation problems, or

e) The dam is of unusual design

Table 1.10 : Details of Plan-wise Position of Irrigation Potential Created and Utilized (Mha)

Sl. No.	Plan		Potential Created					Potential Utilized				
			Major & Medium	Minor			Total	Major & Medium	Minor			Total
				Surface Water	Ground Water	Total			Surface Water	Ground Water	Total	
1	2		3	4	5	6	7	8	9	10	11	12
1	Up to 1951 (Pre-Plan)	Cumulative	9.7	6.4	6.5	12.9	22.6	9.7	6.4	6.5	12.9	22.6
2	I Plan (1951-1956)	During	2.5	0.03	1.13	1.16	3.66	1.28	0.03	1.13	1.16	2.44
		Cumulative	12.2	6.43	7.63	14.06	26.26	10.98	6.43	7.63	14.06	25.04
3	II Plan (1956-1961)	During	2.13	0.02	0.67	0.69	2.82	2.07	0.02	0.67	0.69	2.76
		Cumulative	14.33	6.45	8.3	14.75	29.08	13.05	6.45	8.3	14.75	27.8
4	III Plan (1961-1966)	During	2.24	0.03	2.22	2.25	4.49	2.12	3.03	2.22	2.25	4.37
		Cumulative	16.57	6.48	10.52	17	33.57	15.17	6.48	10.52	17	32.17
5	Annul Plans (1966-1969)	During	1.53	0.02	1.98	2	3.53	1.58	0.02	1.98	2	3.58
		Cumulative	18.1	6.5	12.5	19	37.1	16.75	6.5	12.5	19	35.75
6	IV Plan (1969-1974)	During	2.6	0.5	4	4.5	7.1	1.64	0.5	4	4.5	6.14
		Cumulative	20.7	7	16.5	23.5	44.2	18.39	7	16.5	23.5	41.89
7	V Plan (1974-1978)	During	4.02	0.5	3.3	3.8	7.82	2.7	0.5	3.3	3.8	6.5
		Cumulative	24.72	7.5	19.8	27.3	52.02	21.09	7.5	19.8	27.3	48.39
8	Annual Plans (1978-1980)	During	1.89	0.5	2.2	2.7	4.59	1.48	0.5	2.2	2.7	4.18
		Cumulative	26.61	8	22	30	56.61	22.57	8	22	30	52.57
9	VI Plan (1980-1985)	During	1.09	1.7	5.82	7.52	8.61	0.93	1.01	4.24	5.25	6.18
		Cumulative	27.7	9.7	27.82	37.52	65.22	23.5	9.01	26.24	35.25	58.75
10	VII Plan (1985-1990)	During	2.22	1.29	7.8	9.09	11.31	1.9	0.96	6.91	7.87	9.77
		Cumulative	29.92	10.9	35.62	46.52	76.44	25.4	9.97	33.15	43.12	68.52

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Table 1.10 : Details of Plan-wise Position of Irrigation Potential Created and Utilized (Mha)

Sl. No.	Plan		Potential Created					Potential Utilized				
			Major & Medium	Minor			Total	Major & Medium	Minor			Total
				Surface Water	Ground Water	Total			Surface Water	Ground Water	Total	
1	2		3	4	5	6	7	8	9	10	11	12
11	Annual Plans (1990-1992)	During	0.82	0.47	3.27	3.74	4.56	0.85	0.32	3.1	3.42	4.27
		Cumulative	30.74	11.46	38.89	50.35	81.09	26.25	10.29	36.25	46.54	72.79
12	VIII Plan (1992-1997)	During	2.21	1.05	1.91	2.96	5.17	2.13	0.78	1.45	2.23	4.36
		Cumulative	32.95	12.51	40.8	53.31	86.26	28.38	11.07	37.7	48.77	77.15
13	IX Plan (1997-2002)	During	4.1	1.09	2.5	3.59	7.69	2.57	0.37	0.85	1.22	3.79
		Cumulative	37.05	13.6	43.3	56.9	93.95	30.95	11.44	38.55	49.99	80.94
14	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
15	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
16	Up to August 2018	During					13.2					
		Cumulative					126.73					

Source : Planning & Progress Directorate, CWC

Table 1.11 : Irrigation Potential Creation of MMI, Minor Irrigation Projects and other Schemes

('000 Ha)

S.No.	State	UIP of MMI Projects	UIP of Minor Projects	Total UIP	Irrigation Potential Created up to XI Plan			Irrigation Potential Created up to August 2018
					MMI	Minor	Total	
1	2	3	4	5	6	7	8	9
1	Andhra Pradesh	5000.00	6260.00	11260.00	4803.73	3340.550	8144.28	10018.1210
2	Telangana							
3	Arunachal Pradesh	0.00	168.00	168.00	1.20	132.248	133.448	152.5530
4	Assam	970.00	1900.00	2870.00	455.96	1016.820	1472.783	1618.2680
5	Bihar	5223.50	5663.50	10887.00	3054.46	5924.780	8979.240	9807.3600
6	Chhattisgarh	1146.93	571.00	1717.93	1269.32	842.295	2111.610	2284.4000
7	Goa	62.00	54.00	116.00	55.55	25.927	81.478	86.2460
8	Gujarat	3000.00	3103.00	6103.00	3679.09	2071.970	5751.060	6308.3840
9	Haryana	3000.00	1512.00	4512.00	2206.29	1637.670	3843.960	3843.9600
10	Himachal Pradesh	50.00	303.00	353.00	30.45	186.217	216.667	239.1105
11	Jammu Kashmir	250.00	1183.50	1433.50	325.61	745.661	1071.270	1170.3140
12	Jharkhand	1276.50	1108.00	2384.50	530.71	534.200	1064.905	1309.6450
13	Karnataka	2500.00	3474.00	5974.00	2965.83	1704.170	4670.000	5182.1250
14	Kerala	1000.00	1679.00	2679.00	715.69	763.650	1479.340	1874.8420
15	Madhya Pradesh	4853.07	11361.00	16214.07	2506.43	2534.340	5040.772	8766.0810
16	Maharashtra	4100.00	4852.00	8952.00	4128.71	3185.600	7314.310	7696.3100
17	Manipur	135.00	469.00	604.00	158.50	120.690	279.190	291.8630
18	Meghalaya	20.00	148.00	168.00	-	77.770	77.770	91.5540
19	Mizoram	0.00	70.00	70.00	-	51.740	51.740	52.5020
20	Nagaland	10.00	75.00	85.00	-	124.510	124.510	146.4250
21	Odisha	3600.00	5203.00	8803.00	2147.36	1887.430	4034.790	5360.5800
22	Punjab	3000.00	2967.00	5967.00	2684.39	3497.710	6182.100	6242.1070
23	Rajasthan	2750.00	2378.00	5128.00	3167.13	2487.760	5654.890	5720.5870
24	Sikkim	20.00	50.00	70.00	-	42.740	42.740	53.3514
25	Tamil Nadu	1500.00	4032.00	5532.00	1578.27	2331.990	3910.260	3910.2600
26	Tripura	100.00	181.00	281.00	29.25	161.863	191.113	197.7640
27	Uttar Pradesh	12154.00	17481.00	29635.00	9288.09	25320.130	34608.220	35751.2200
28	Uttarakhand	346.00	518.00	864.00	288.98	585.347	874.327	2423.1542
29	West Bengal	2300.00	4618.00	6918.00	1901.41	4159.680	6061.090	6064.9880
	Union Territories	98.00	46.00	144.00	0.00	61.935	61.935	63.3757
	All India Total	**58465.00**	**81428.00**	**139893.00**	**47972.41**	**65557.39**	**113529.798**	**126727.4507**

Source : Planning & Progress Directorate, CWC

Table 1.12 : State-wise Irrigation Potential Created by Major and Medium Irrigation Projects under AIBP-PMKSY

(Potential in Th.Ha.)

S. No.	Name of States	Ultimate Potential	Created before AIBP	Target for AIBP	Cumulative Potential Created under AIBP up to 3/2015	Potential Created under PMKSY during			Cumulative Potential Created under AIBP-PMKSY up to 3/2018
						2015-16	2016-17	2017-18	
1	2	3	4	5	6	7	8	9	10
1	Andhra Pradesh	900.34	23.37	814.00	275.97	29.11	11.89	0.83	317.80
2	Assam	262.63	96.23	162.32	93.77	0.00	28.28	0.00	122.05
3	Bihar	1323.64	1430.99	684.65	467.37	0.00	10.31	0.00	477.68
4	Chhattisgarh	791.65	394.94	213.71	190.92	1.11	12.36	3.09	207.48
5	Goa	28.63	4.81	23.82	20.47	0.00	0.05	0.43	20.95
6	Gujarat	2028.35	168.21	1830.24	1155.18	185.91	116.50	0.00	1457.58
7	Haryana	400.50	179.53	200.97	115.22	0.00	0.00	0.00	115.22
8	Himachal Pradesh	37.51	0.00	37.51	37.50	0.00	0.00	0.00	37.50
9	Jammu & Kashmir	154.80	48.93	105.69	57.80	1.00	0.00	1.30	60.10
10	Jharkhand	299.83	6.04	293.79	42.42	0.00	79.19	0.04	121.65
11	Karnataka	1911.59	967.15	962.89	642.30	88.41	24.62	5.91	761.24
12	Kerala	154.84	69.12	53.56	49.61	0.47	0.07	0.00	50.15
13	Madhya Pradesh	1559.01	118.25	1183.04	904.36	52.00	73.74	3.78	1033.88
14	Maharashtra	2230.69	827.79	1215.17	643.65	24.26	67.11	44.05	779.06

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Table 1.12 : State-wise Irrigation Potential Created by Major and Medium Irrigation Projects under AIBP-PMKSY

(Potential in Th.Ha.)

S. No.	Name of States	Ultimate Potential	Created before AIBP	Target for AIBP	Cumulative Potential Created under AIBP up to 3/2015	Potential Created under PMKSY during			Cumulative Potential Created under AIBP-PMKSY up to 3/2018
						2015-16	2016-17	2017-18	
1	2	3	4	5	6	7	8	9	10
15	Manipur	55.99	4.00	51.99	28.76	2.00	4.00	0.00	34.76
16	Meghalaya	4.78	0.00	4.78	0.00	0.00	0.00	0.00	0.00
17	Odisha	844.51	216.21	634.03	256.36	7.26	5.42	27.63	296.67
18	Punjab	337.62	0.00	337.62	198.33	2.89	0.00	6.23	207.45
19	Rajasthan	1752.51	70.11	1626.33	1147.58	6.28	0.00	5.66	1159.53
20	Tamil Nadu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	Telangana	1145.43	1105.09	881.21	446.42	69.22	20.82	15.57	552.03
22	Tripura	26.72	2.18	24.54	16.81	0.00	0.00	0.00	16.81
23	Uttar Pradesh	5890.70	2658.52	3213.88	1638.78	63.78	67.40	52.88	1822.84
24	Uttrakhand	310.00	0.00	270.00	0.00	0.00	0.00	0.00	0.00
25	West Bengal	1057.96	402.02	551.02	147.50	0.00	0.00	0.00	147.50
Total		**23819.504**	**9127.288**	**15688.211**	**8577.06**	**533.70**	**521.76**	**167.40**	**9799.92**

Source: Monitoring Central, PMO, Central Water Commission

Table 1.13 :State-wise Number of Major, Medium and ERM Irrigation Projects

Sl. No.	Name of the State/UTs.	Major Project				Medium Project				ERM				Total			
		Completed in XI Plan	Completed up to XI Plan	Spilled over projects in XII Plan	New projects in XII Plan	Completed in XI Plan	Completed up to XI Plan	Spilled over projects in XII Plan	New projects in XII Plan	Completed in XI Plan	Completed up to XI Plan	Spilled over projects in XII Plan*	New projects in XII Plan	Completed in XI Plan	Completed up to XI Plan	Spilled over projects in XII Plan	New projects in XII Plan
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Andhra Pradesh	13	35	30	1	14	135	10	NR	1	7	2	0	28	177	42	1
2	Arunachal Pradesh	NR	0	NR	NR	NR	0	NR	NR	NR	0	NR	NR	NR	0	NR	NR
3	Assam	0	4	2	0	1	10	1	0	0	1	0	0	1	15	3	1
4	Bihar	1	18	8	2	1	21	2	1	1	3	3	0	3	42	13	3
5	Chhattisgarh	3	11	2	3	1	29	4	1	0	2	1	0	4	42	7	4
6	Goa	0	1	1	0	0	1	0	0	0	0	0	0	0	2	1	0
7	Gujarat	0	19	1	0	6	121	4	0	0	12	13	0	6	152	18	0
8	Haryana	4	11	2	0	1	1	1	0	1	14	0	0	6	26	3	0
9	Himachal Pradesh	1	1	0	0	2	6	0	0	0	0	0	0	3	7	0	0
10	Jammu & Kashmir	0	2	0	0	0	18	0	0	0	6	0	0	0	26	0	0
11	Jharkhand	NR	1	6	0	6	44	4	0	0	1	4	0	6	46	14	0
12	Karnataka	5	13	11	0	13	52	11	2	3	3	0	0	21	68	22	2
13	Kerala	1	12	1	0	0	7	3	0	1	2	0	0	2	21	4	0
14	Madhya Pradesh	2	17	15	16	2	104	13	13	6	7	2	4	10	128	30	33
15	Maharashtra	2	28	49	4	10	209	71	12	1	5	4	0	13	242	124	16
16	Manipur	0	1	1	0	1	5	1	2	0	0	0	0	1	6	2	2
17	Meghalaya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	Mizoram	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Nagaland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Odisha	0	12	11	0	1	47	13	1	5	26	5	21	6	85	29	22
21	Punjab	0	8	1	0	0	2	0	0	0	11	2	2	0	21	3	2
22	Rajasthan	3	11	NR	0	2	102	0	0	0	7	0	0	5	120	0	0
23	Sikkim	NR	0	NR	NR	NR	0	NR	NR	NR	0	NR	NR	NR	0	NR	NR
24	Tamil Nadu	0	22	0	0	0	46	0	0	0	12	0	0	0	80	0	0
25	Tripura	NR	0	NR	NR	NR	0	NR	NR	NR	0	NR	NR	NR	0	NR	NR
26	Uttarakhand	0	5	0	0	0	0	0	0	0	1	0	0	0	6	0	0
27	Uttar Pradesh	0	57	6	1	0	40	0	0	0	20	3	0	0	117	9	1
28	West Bengal	0	6	2	0	1	18	0	0	0	0	0	0	1	24	2	0
	TOTAL	35	295	149	27	62	1018	138	32	**19**	**140**	**39**	**27**	**116**	**1453**	**326**	**86**

Source: Planning & Progress Directorate, CWC

E.R.M. : Extention, Renovation and Modernisation Projects.

Note- * : Figures are likely to be changed after receiving final data. **NR : Non Availability of data**

Table 1.14 : Physical Achievemnts of Field Channels under CAD Programme by States as on 31.03.2019

(Th. Ha)

Sl. No.	Name of the State	Progress up to VIII Plan	Achievements											Cumulative Achievement (up to 31.3.2019)
			IX Plan	X Plan	XI Plan	2012-13	2013-14	2014-15	2015-16	2016-17	XII Plan	2017-18	2018-19	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Andhra Pradesh	664.61	15.63	57.84	39.42	0.81	0.00	0.00	0.00	0.00	0.81	0.00	0.00	778.30
2	Arunachal Pradesh	0.00	1.02	7.93	11.45	0.56	1.78	0.00	0.00	0.00	2.34	0.00	0.00	22.75
3	Assam	54.13	1.95	0.55	4.89	0.90	0.00	0.41	0.00	0.00	1.31	0.00	14.25	77.07
4	Bihar	1282.42	14.84	46.76	126.43	12.15	5.23	2.28	0.00	2.25	21.90	5.49	4.00	1501.84
5	Chhattisgarh	0.00	1.47	49.87	154.27	29.33	36.62	15.24	2.88	0.00	84.06	0.00	0.00	289.67
6	Goa	10.34	0.04	0.00	3.01	0.60	0.00	0.00	0.00	0.00	0.60	0.00	0.77	14.76
7	Gujarat	851.96	37.91	217.70	42.88		0.00	0.00	258.82	385.28	644.10	290.00	260.27	2344.81
8	Haryana	312.67	116.71	167.92	255.61	37.56	63.21	49.30	58.75	0.00	208.82	0.00	0.00	1061.73
9	Himachal Pradesh	10.66	4.99	6.59	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.85
10	Jammu & Kashmir	55.45	22.45	20.36	57.43	23.61	21.71	3.46	5.04	0.00	53.81	0.00	1.28	210.79
11	Jharkhand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	Karnataka	1043.01	73.21	369.29	114.76	19.73	36.64	2.10	0.00	11.08	69.54	10.95	8.90	1689.66
13	Kerala	153.66	20.46	8.17	1.39	0.32	0.73	0.81	0.00	0.00	1.86	0.00	0.00	185.54
14	Madhya Pradesh	995.84	35.39	41.95	61.95	67.12	0.00	0.00	15.81	74.94	157.86	85.06	46.44	1424.49
15	Maharashtra	1113.14	110.78	24.21	88.90	3.99	6.73	1.25	0.76	7.63	20.36	16.55	33.69	1407.62
16	Manipur	36.79	13.84	13.26	23.36	0.50	0.80	0.61	0.00	0.00	1.92	0.00	5.03	94.19
17	Meghalaya	1.00	0.13	1.05	0.37		0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.55
18	Mizoram	0.00	0.12	0.74	0.05		0.00	0.00	0.00	0.00		0.00	0.00	0.91
19	Nagaland	0.00	1.96	1.78	0.07	0.45	0.00	0.00	0.00	0.00	0.45	0.00	0.00	4.27
20	Odisha	346.48	49.95	41.02	103.85	36.88	23.33	32.00	72.66	10.47	175.34	24.34	20.36	761.34
21	Punjab	0.00	222.71	128.81	251.44	18.78	22.86	15.57	82.05	0.00	139.25	0.00	0.00	742.20
22	Rajasthan	925.50	251.73	249.90	131.25	7.44	16.12	10.75	46.22	6.86	87.40	7.22	7.07	1660.07
23	Sikkim	0.00	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18
24	Tamil Nadu	629.56	221.26	190.91	110.03	18.26	16.87	0.41	5.14	0.00	40.69	0.00	0.00	1192.44
25	Tripura	0.32	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41
26	Uttar Pradesh	5374.97	561.05	639.29	399.54	75.71	53.22	44.43	23.41	0.00	196.78	0.00	0.00	7171.63
27	Uttarakhand	0.00	0.00	4.88	7.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.92
28	West Bengal	90.14	22.33	23.13	90.85	6.35	2.51	0.00	0.00	0.00	8.86	0.00	0.00	235.31
	Total	**13952.65**	**1801.99**	**2314.09**	**2080.85**	**361.04**	**308.36**	**178.62**	**571.54**	**498.50**	**1918.06**	**439.61**	**402.06**	**22909.31**

Source : M/o Jal Shakti, D/o Water Resources, RD & GR (CAD Wing)

Remarks : Total may not tally due to rounding off.

Table 1.15 : List of Water Resources Projects declared as National Projects

Sl. No	Name of the Project	Status	State (River/Basin)	1) Irrigation (Ha) 2) Power (MW) 3) Storage (MCM)	Year-wise Central Assistance Released under Scheme of National Projects (Rs Crore)	Date of Completion
1	2	3	4	5	6	7
1	**Indira Sagar Polavaram Project**	Under Execution	Andhra Pradesh (Godavari)	1) 2.91 Lakh (CCA)-Irrigation Potential 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	2014-15 = 250.00 2015-16 = 600.00 2016-17 = 2514.16 2017-18 = 2000.00 2018-19 = 1400.00 **Total = 6764.16**	June 2021
2	**Gosikhurd Irrigation Project**	Under Execution	Maharashtra (Wainganga/ Godavari)	1) 2.50 lakh 2) 3 MW 3) 1147.14 MCM	2008-09 = 450 2009-10 = 720 2010-11 =1412.94 2011-12 = Nil 2012-13 = 405 2013-15 = Nil 2015-16 = Nil 2016-17 = 166.593 2017-18= 166.593 2018-19 = 195.81 **Total = 3350.34**	Dec 2021
3	**Shahpurkandi Dam Project**	Under Execution	Punjab (Ravi)	1) 0.37 lakh 2) 206 MW 3) 120.71 MCM	2009-10 = 10.80 2010-11 =15.236 2011-12 = Nil 2012-13 = Nil 2013-14 = Nil 2014-15 = Nil **Total = 26.036**	June 2022
4	**Saryu Nahar Pariyojna**	Under Execution	Uttar Pradesh (Diversion Scheme among Rivers Ghaghara, Saryu, Rapti & Bansagar/ Ganga)	1) 14.04(NP Component:4.73) 2) – 3) Barrage	2012-13 =67.98 2013-14 = 380.75 2014-15 = 210.855 2015-16 = 500.00 2016-17 = 62.00 2017-18 = 0.00 2018-19 = 305.00 **Total = 1526.585**	Dec 2020

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Table 1.15 : List of Water Resources Projects declared as National Projects

Sl. No	Name of the Project	Status	State (River/Basin)	1) Irrigation (ha.) 2) Power (MW) 3) Storage (MCM)	Year wise Central Assistance Released under Scheme of National Projects (Rs Cr.)	Date of Completion
1	2	3	4	5	6	7
5	**Teesta Barrage Project**	Under Execution	West Bengal (Teesta)	1) 9.23 lakh (NP component :5.27) 2) 1000 MW 3) Barrage	2010-11=81 2011-12= 97.20 2012-13 = Nil 2013-14 = Nil 2014-15 = Nil **Total = 178.20**	Targeted completion by March, 2015, State Govt. to submit request for time extension
6	**Ujh Multipurpose project**	Execution to start	J&K (Ujh / Ravi)	1) 0.314 lakh 2) 196 MW 3) 925 MCM	Nil	Completion time is 66 months from date of start
7	**Lakhwar Multipurpose Project**	Execution to start	Uttarakhand (Yamuna)	1) 33,780 2) 300 MW 3) 587.84 MCM	Nil	Completion time is 69 months from date of start
8	**Noa-Dihing Dam Project**	Appraisal Stage	Arunachal Pradesh (Noa-Dihing)	1) 7053 ha 2) 72 MW 3) 321.69 MCM	Nil	
9	**Kulsi Dam Project**	Appraisal Stage	Assam (Kulsi) Tributary of Brahamputra	1) 39500 ha. 2) 55 MW 3) 525.64 MCM	Nil	
10	**Renuka Dam Project**	Appraisal Stage	HP (Giri/Yamuna)	1) Drinking water 2) 40 MW 3) 498.33 MCM (Live)	Nil	
11	**Kishau Multipurpose Project**	Appraisal Stage	HP/ Uttarakhand	1) 0.97 Lakh 2) 660 MW 3) 1824 MCM	Nil	
12	**Bursar HE Project**	Appraisal Stage	J&K (Marusudar/ Chenab / Indus)	1) 1.74 lakh 2) 800 MW 3) 616.74 MCM	Nil	

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Table 1.15 : List of Water Resources Projects declared as National Projects

Sl. No	Name of the Project	Status	State (River/Basin)	1) Irrigation (ha.) 2) Power (MW) 3) Storage (MCM)	Year wise Central Assistance Released under Scheme of National Projects (Rs Cr.)	Date of Completion
1	2	3	4	5	6	7
13	**Ken Betwa Link Project**	Appraisal Stage	Madhya & Uttar Pradesh (Ken & Betwa/ Yamuna basin)	1) 9.04 lakh 2) 78 MW 3) 3495 MCM (Live)	Nil	
14	**2nd Ravi Vyas Link Project**	PFR Stage	Punjab (Ravi Beas Link)	Harness water flowing across border (about 715.42 MCM in non-monsoon period)	Nil	
15	**Upper Siang Project**	PFR Stage	Arunachal Pradesh (Siang)	1) Indirect 2) 9750 MW 3) 1776.21 MCM 4) Flood moderation	Nil	
16	**Gyspa HE Project**	DPR Stage	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

Table 1.16 : Status of Coverage of Rural Habitations under Rural Water Supply as on 01.04.2019

S.No.	State	Total Habitations	Total Quality Affected Habitations	No. of Habitations with Population Coverage > 0 and < 25%	No. of Habitations with Population Coverage >= 25 and < 50%	No. of Habitations with Population Coverage >= 50 and < 75%	No. of Habitations with Population Coverage >=75 and < 100%	Total (5+6+7+8)	No. of Habitations with 100% Population Coverage
1	2	3	4	5	6	7	8	9	10
1	Andaman & Nicobar	400	0	13	48	5	10	76	324
2	Andhra Pradesh	48895	473	2236	3063	3846	4604	13749	34673
3	Arunachal Pradesh	7525	27	1852	1093	837	413	4195	3303
4	Assam	88076	9768	5796	5787	6020	5534	23137	55171
5	Bihar	110218	3809	7876	5252	5454	16845	35427	70982
6	Chhattisgarh	74753	512	3	39	122	1302	1466	72775
7	Goa	347	0	0	2	0	0	2	345
8	Gujarat	35996	0	0	0	0	0	0	35996
9	Haryana	7655	87	139	3	38	83	263	7305
10	Himachal Pradesh	54469	0	92	2351	4987	4456	11886	42583
11	Jammu & Kashmir	15778	11	498	1259	3459	1070	6286	9481
12	Jharkhand	120591	533	257	4	2	71	334	119724
13	Karnataka	59774	452	952	7709	10378	5941	24980	34342
14	Kerala	21520	327	6765	2922	2823	2539	15049	6144
15	Madhya Pradesh	128231	153	0	0	0	2	2	128076
16	Maharashtra	99641	176	148	2121	8863	3624	14756	84709
17	Manipur	2976	0	114	198	380	234	926	2050

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Table 1.16 : Status of Coverage of Rural Habitations under Rural Water Supply as on 01.04.2019

S.No.	State	Total Habitations	Total Quality Affected Habitations	No. of Habitations with Population Coverage > 0 and < 25%	No. of Habitations with Population Coverage >= 25 and < 50%	No. of Habitations with Population Coverage >= 50 and < 75%	No. of Habitations with Population Coverage >=75 and < 100%	Total (5+6+7+8)	No. of Habitations with 100% Population Coverage
1	2	3	4	5	6	7	8	9	10
18	**Meghalaya**	10470	7	1719	2184	1625	811	6339	4124
19	**Mizoram**	720	0	34	49	55	92	230	490
20	**Nagaland**	1450	0	352	205	92	59	708	742
21	**Odisha**	157013	2421	5	31	51	44	131	154461
22	**Puducherry**	266	0	18	8	87	0	113	153
23	**Punjab**	15190	3268	214	316	524	462	1516	10406
24	**Rajasthan**	121526	17346	6905	10992	11956	12686	42539	61641
25	**Sikkim**	2337	0	555	396	358	167	1476	861
26	**Tamil Nadu**	100014	0	303	328	1514	1073	3218	96796
27	**Telangana**	24597	344	1240	3454	2270	1884	8848	15405
28	**Tripura**	8723	2399	10	438	412	472	1332	4992
29	**Uttar Pradesh**	260018	1203	1886	3	4	57	1950	256865
30	**Uttarakhand**	39311	9	993	3839	5539	5775	16146	23156
31	**West Bengal**	107328	16479	2238	4580	13023	12585	32426	58423
	Total	**1725808**	**59804**	**43213**	**58674**	**84724**	**82895**	**269506**	**1396498**

Source : Ministry of Drinking Water & Sanitation, CGO Complex, Lodhi Road, New Delhi

Table : 1.17 Status of Hydro Electric Potential Development - Region and State-wise as on 30.06.2019
(In terms of Installed Capacity - above 25 MW)

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 (MW)	Above 25 MW	(MW)	%	(MW)	(%)	(MW)	(%)	(MW)	%
1	2	3	4	5	6	7	8	9	10	11
NORTHERN										
Jammu & Kashmir	14146.00	13543	3449.0	25.47	1935.5	14.29	5384.5	39.76	8158.5	60.24
Himachal Pradesh	18820	18540	9809.0	52.91	1885.0	10.17	11694.0	63.07	6846.0	36.93
Punjab	971	971	1096.3	100	206.0	21.22	1302.3	100.00	0.0	0.00
Haryana#	64	64	0.0	0	0.0	0.00	0.0	0.00	0.0	0.00
Rajasthan##	496	483	411.0	85.09	0.0	0.00	411.0	100.00	0.0	0.00
Uttarakhand	18175	17998	3756.4	20.87	1490.0	8.28	5246.4	29.15	12751.7	70.85
Uttar Pradesh*	723	664	501.6	75.54	0.0	0.00	501.6	75.54	162.4	24.46
Sub Total (NR)	**53395**	**52263**	**19023.3**	**36.40**	**5516.5**	**10.56**	**24539.8**	**46.95**	**27723.2**	**53.05**
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	100.00	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
Tamil Nadu	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**

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Table : 1.17 Status of Hydro Electric Potential Development - Region and State-wise as on 30.06.2019
(In terms of Installed Capacity - above 25 MW)

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 (MW)	Above 25 MW	(MW)	%	(MW)	(%)	(MW)	(%)	(MW)	%
1	2	3	4	5	6	7	8	9	10	11
NORTH EASTERN										
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	515.0	1.03	2600.0	5.19	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**	**1427.0**	**2.45**	**2600.0**	**4.46**	**4027.0**	**6.90**	**54329.0**	**93.10**
ALL INDIA	**148701**	**145320**	**40613.6**	**27.95**	**10829.5**	**7.45**	**51443.1**	**35.40**	**93876.9**	**64.60**

Source : HEPR Division, Central Electrictiry Authority

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.

* 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 schemes 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) scheme was identified in Rajasthan but has been developed in Madhya Pradesh with same capacity.

Two schemes 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 (1205 MW) are under construction and 1 PSS (1000 MW) is concurred by CEA, 7 PSS (6020 MW) are under S&I and 1 PSS of I.C. 660MW is under Heldup list.

Table 1.18 : Status of H.E. Potential Development - Basin-wise as on 30.06.2019
(In terms of Installed Capacity above 25 MW)

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 (MW)	Above 25 MW (MW)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)
1	2	3	4	5	6	7	8	9	10	11
INDUS	33832	33028	14294.30	43.28	3871.50	11.72	18165.80	55.00	14862.20	45.00
GANGA	20711	20252	5317.20	26.26	1645.00	8.12	6962.20	34.38	13289.60	65.62
CENTRAL INDIAN RIVERS	4152	3868	3147.50	81.37	400.00	10.34	3547.50	91.71	320.50	8.29
WEST FLOWING RIVERS	9430	8997	5631.70	62.6	100.00	1.11	5731.70	63.71	3265.30	36.29
EAST FLOWING RIVERS	14511	13775	8249.00	59.88	960.00	6.97	9209.00	66.85	4566.10	33.15
BRAHMAPUTRA BASIN	66065	65400	3974.00	6.08	3853.00	5.89	7827.00	11.97	57573.00	88.03
ALL INDIA	**148701**	**145320**	**40613.60**	**27.95**	**10829.50**	**7.45**	**51443.10**	**35.40**	**93876.90**	**64.60**

Source : HEPR Division, Central Electrictiry Authority

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 (1205 MW) are under construction and 1 PSS (1000 MW) is Concurred by CEA , 7 PSS (6020MW) are under S&I AND 1 PSS of I.C. 660 MW is under Heldup list.

Table 1.19 : Hydro Electric Power Installed Capacity and Generation - All India (Utilities) as on 30.06.2019

Sl. No.	Year	Installed Capacity (Utilities)			Generation (Utilities)			Load Factor
		Total (MW)	Hydro (MW)	Percentage Installed Capacity of Total	Total (GWH)	Hydro (GWH)	Percentage Generation of Total	
1	2	3	4	5	6	7	8	9
1	1947	1361.80	508.10	37.30	4073.30	2194.50	53.90	49
2	1950	1712.50	559.30	32.70	5106.70	2519.80	49.30	51
3	1955	2694.80	939.50	34.90	8592.50	3742.20	43.60	45
4	1960-61	4653.10	1916.70	41.20	16937.00	7836.60	46.30	47
5	1965-66	9027.00	4123.70	45.70	32990.10	15225.00	46.20	42
6	1973-74	16663.60	6965.30	41.80	66689.00	28971.80	43.40	47
7	1979-80	28447.80	11384.00	40.00	104627.30	45477.60	43.50	46
8	1985-86	46796.00	15471.60	33.10	170350.10	51020.80	30.00	38
9	1989-90	63627.30	18307.60	28.80	245437.90	62116.10	25.30	39
10	1990-91	66086.30	18753.40	28.40	264328.60	71641.30	27.10	44
11	1995-96	83293.50	20985.60	25.20	379877.10	72579.20	19.10	39
12	1996-97	85795.40	21658.10	25.20	395889.50	68900.80	17.40	36
13	1997-98	89102.30	21904.50	24.60	421747.30	74581.70	17.70	39
14	1998-99	93293.50	22479.10	24.10	448544.10	82922.60	18.50	42
15	1999-00	97884.50	23856.80	24.40	481055.20	80755.50	16.80	39
16	2000-01	101626.20	25152.90	24.80	501204.10	74361.90	14.80	34
17	2001-02	105046.00	26268.80	25.00	517439.40	73579.90	14.20	32
18	2002-03	107877.40	26766.80	24.80	532693.00	64013.70	12.00	27
19	2003-04	112683.50	29506.80	26.20	565101.70	75242.50	13.30	29
20	2004-05	118425.70	30942.20	26.10	594456.20	84610.40	14.20	31
21	2005-06	124287.20	32325.80	26.00	623819.50	101494.40	16.30	36
22	2006-07	132329.20	34653.80	26.20	670654.20	113501.60	16.90	37
23	2007-08	143061.00	35908.80	25.10	722625.50	120386.70	16.70	38
24	2008-09	147965.41	36877.76	24.90	741167.36	110098.50	14.90	34
25	2009-10	159398.50	36863.40	23.10	799850.60	104059.40	13.00	32
26	2010-11	173626.40	37567.40	21.60	844748.20	114415.50	13.50	35
27	2011-12	199877.00	38990.40	19.50	922451.10	130511.50	14.10	38
28	2012-13	223343.60	39491.40	17.70	964488.90	113720.30	11.80	33
29	2013-14	248554.39	40531.41	16.31	1026648.58	134847.53	13.13	38
30	2014-15	274904.37	41267.43	15.01	1105071.65	129243.69	11.70	36
31	2015-16	305162.50	42783.42	14.02	1167584.03	121376.65	10.40	32
32	2016-17	326832.53	44478.42	13.61	1235357.98	122377.56	9.91	31
33	2017-18*	344002.39	45293.42	13.17	1303454.68	126122.70	9.68	32
34	2018-19*	356100.19	45399.22	12.75	1371776.46	134893.62	9.83	34

Source : Central Electricity Authority (PDM Division)

N.A. : Not Available *- Provisional

Chapter 2
Financial Performance

This chapter deals with the financial aspects of water and related sectors in the country.

2.1 Accelerated Irrigation Benefits Programme (AIBP)

Irrigation is a state subject and irrigation projects are formulated, executed and funded by the State Governments themselves from their own resources. Central assistance is released in the form of block loans and grants not tied to any sector of development or project. A large number of major and medium irrigation projects in the country are languishing due to various reasons, the most important of them being inadequate provision of funds by the concerned State Governments. As a result, large amount of funds spent on these projects are locked up and the benefits envisaged at the time of formulation of project reports could not be achieved. This is a cause of concern to the nation and initiative is required at the national level to remedy the situation. Since the irrigation projects are capital intensive, and states with limited resources, at their disposal find themselves unable to meet the desired fund demands of all the projects, the implementation of these projects get delayed.

Keeping the above in view, Central Government, during 1996-97, launched an Accelerated Irrigation Benefits Programme (AIBP) to provide Central Loan Assistance (CLA) to major/medium irrigation projects in the country, with the objective to accelerate the implementation of those projects which were beyond resource capability of the States or were in advanced stage of completion. While selecting the projects, special emphasis was to be given to Pre-fifth and Fifth Plan projects. Priorities were also given to those projects which were benefiting Tribal and Drought Prone Areas.

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 58,900 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 9,231 Th. Ha has been created up to March, 2016.

2.2 Command Area Development & Water Management (CAD&WM)

During the post independence era, a large number of irrigation projects were constructed for increasing agricultural production in the country. However, during early seventies analysis of irrigation potential created and utilised, revealed that there was a substantial gap between them. The Irrigation Commission made specific recommendations in its report in 1972 that systematic development of commands of irrigation projects should be taken up in order to fully utilise the irrigation potential created. Subsequently, a Committee of Ministers set up by the Ministry of Irrigation and Power, analysed the issue and suggested in 1973 that a broad based Area Development Authority should be set up for every major irrigation project to undertake the work of comprehensive area development. Based on this recommendation, the Government of India initiated a Centrally Sponsored Command Area Development Programme (CADP) in December, 1974 to improve irrigation potential utilisation and optimise agricultural production from irrigated land through integrated and coordinated approach of efficient water management.

In tune with objectives of the programme, a number of components such as construction of field channels and field drains, enforcement of warabandi, land levelling and shaping, realignment of

field boundaries/ consolidation of holdings, introduction of suitable cropping patterns, strengthening of extension services etc. were included in the programme. Subsequently, in view of emergent needs a few more components like farmers participation and reclamation of waterlogged areas were included in the programme with effect from 1st April, 1996 to make the programme more beneficial to the farmers.

Review of the Programme implementation during the VIII and IX Five Year Plan periods, noticed a number of constraints such as unreliability of water supply at the outlet due to deficiencies in the irrigation system above the outlet, absence of link and intermediate drains to let out surplus water into main drains, non-inclusion of minor irrigation projects from non-hilly areas, low priority by the State Governments to extension and training activities, non-revision of cost norms for various activities. In view of these constraints, the programme has been restructured for the remaining period of X Plan (2004-07) and renamed as 'Command Area Development and Water Management Programme (CAD&WM Programme)' to make it more comprehensive and beneficial to farmers. As stated above, during XII Plan, the CAD&WM programme has been implemented pari-passu with Accelerated Irrigation Benefits Programme (AIBP).

The programme has now been brought under the umbrella scheme of Pradhan Mantri Krishi Sinchayee 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, bring overall efficiency in water utilisation and improve agriculture production on a sustainable basis through Participatory Irrigation Management (PIM). In order to promote water use efficiency in irrigation, the CAD&WM programme has also been targeting development of micro-irrigation infrastructure for facilitating use of sprinkler/drip irrigation systems. The CAD&WM programme also 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.

The erstwhile Planning Commission stopped supplying of the data since its reorganisation as NITI Aayog. Hence the data is available only up to XI Plan. During XII Plan (2012-17), the plan-wise schemes have been done away with and an umbrella scheme of Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) was launched in June, 2015 under the chairmanship of Hon'ble Prime Minister of India amalgamating ongoing schemes viz. Accelerated Irrigation Benefits Programme (AIBP) of the erstwhile Ministry of Water Resources, River Development & Ganga Rejuvenation (M/o WR,RD&GR), Integrated Watershed Management Programme (IWMP) of Department of Land Resources (D/o LR) and the On Farm Water Management (OFWM) of Department of Agriculture and Cooperation (DAC).

2.3 Pradhan Mantri Krishi Sinchayee Yojana (PMKSY)

The Government of India 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 Government of India, viz. AIBP, Repair, Renovation and Restoration (RRR) of Water bodies and Command Area Development and Water Management (CAD&WM) have been subsumed in PMKSY. Under PMKSY-AIBP, 99 projects (106 including phases) have been prioritised out of 149 ongoing AIBP projects which are to be completed in phases by the end of December, 2019 including completion of CAD&WM works. Till date, AIBP portion of 34 projects have been reported as completed and 31 of the remaining projects are expected to be completed by December, 2019.

Total Irrigation Potential targeted under 99 Priority projects is 75.43 Lakh Ha. During 2015-16, 2016-17, 2017-18 and 2018-19; a Central assistance of Rs 2327.81 Cr, Rs 3309.47 Cr, Rs 3596.60 Cr and Rs. 2849.49 Cr respectively has been released under PMKSY-AIBP. An Irrigation Potential of 5.337 Lakh Ha, 5.218 Lakh Ha and 3.523 Lakh Ha have been created

during 2015-16, 2016-17 and 2017-18 respectively with a Cumulative Irrigation Potential of 53.53 Lakh Ha till March, 2018. The details are given in Appendix table no.-2.2. 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.

Among 99 priority projects (106 including phases) of PMKSY, 10 projects do not require CAD&WM. Out of the remaining projects, 91 projects have been included under PMKSY-CAD&WM as on date. The details are given in Appendix table no.-2.3.

Detailed State-wise status of proposal on CAD&WM component for 99 Prioritized projects is presented in Appendix table no.-2.4 which includes Expenditure, Financial and Physical Progress of these projects for the year 2016-17 to 2018-19.

2.4 Minor Irrigation Census

All ground water schemes and surface water schemes (both flow and lift) having Culturable Command Area (CCA) up to 2,000 hectares individually are classified as Minor Irrigation schemes. A major share of irrigation is contributed by minor irrigation schemes across the country and the share of different type of minor irrigation schemes has also been changing over time. In order to study the composition of the minor irrigation sector and other related aspects, there was a need for a sound and reliable database on the minor irrigation sector, which could provide a strong foundation for planning and policy formulation. In order to meet this objective, Minor Irrigation Censuses are being conducted under the "Rationalisation of Minor Irrigation Statistics (RMIS)" scheme till date. The Centrally Sponsored Plan Scheme RMIS was launched in 1987-88 with 100% Central assistance to the States/UTs. Currently Irrigation Census (parent component of “RMIS”) is a standalone component under Umbrella Scheme-Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) and other Schemes.

So far five Censuses have been conducted with reference years 1986-87, 1993-94, 2000-01, 2006-07 & 2013-14 respectively. The report of 5th MI census was published in 2017 and is available on the website of Department of Water Resources, RD & GR. The Census throws light on important aspects like Irrigation Potential Created and Utilized through minor irrigation structures- both ground and surface water, water distribution practices employed by owners of these schemes and also sources used for energisation of these schemes.

The Plan-wise expenditure on Minor Irrigation is presented in the following table T1. It is seen that the expenditure on Minor irrigation during 2012-17 has increased by about 54% as compared to XI Plan.

Table T1: Expenditure on Minor Irrigation

(Rs. in Crores)

Tenth Plan (2002-07)	Eleventh Plan (2007-12)	Year						
		(2012-13)	(2013-14)	(2014-15)	(2015-16)	(2016-17)	(2017-18)	(2018-19)
3257.35	3058.7	739.3	517.9	1147.2	1163.1	1142.9	1512.73	1035.48

Source : M/o Jal Shakti, D/o WR, RD & GR [Minor Irrigation (Stat) Wing]/ NABARD

While analysing State-wise expenditure on Minor irrigation during 2012-17 (Table T2), it was found that the maximum expenditure was in Maharashtra followed by Gujarat, Tamil Nadu, Karnataka, Kerala, Rajasthan, Haryana, Uttar Pradesh and Punjab. The expenditure in respect

of these States was about 88% of the total expenditure during 2012-17. The details on Minor Irrigation is given in Appendix table no.- 2.5.

Table T2: Expenditure on Minor Irrigation – contribution of selected States during XII Plan (Rs. in Crores)	
State	**(2012-17)**
1	**2**
Maharashtra	1089.26
Gujarat	628.24
Tamil Nadu	484.54
Karnataka	463.46
Kerala	408.12
Rajasthan	274.79
Haryana	273.38
Uttar Pradesh	266.30
Punjab	254.34
Source : M/o Jal Shakti, D/oWR, RD & GR [Minor Irrigation (Stat) Wing]/NABARD	

2.5 Repair Renovation and Restoration (RRR) of Water Bodies Scheme

Government of India is presently implementing the Scheme for Repair, Renovation and Restoration (RRR) of water bodies which has multiple objectives like comprehensive improvement and restoration of water bodies thereby increasing Tank storage capacity, Ground water recharge, Increased availability of drinking water, Improvement in agriculture/horticulture productivity, Improvement of catchment areas of tank commands, Environmental benefits through improved water use efficiency; by promotion of conjunctive use of surface and ground water, community participation and self-supporting system for sustainable management for each water body, capacity building of communities in better water management and development of tourism, cultural activities, etc.

Centre has released assistance to States for the Water bodies during XII plan and onwards under RRR Scheme till July, 2019 to the tune of Rs. 369.1 Cr while cumulative expenditure for this scheme till July, 2019 was Rs. 763.6 Cr and detailed information of Central Assistance Released and Expenditure occurred on this scheme is presented in Appendix table no.- 2.6. After analysing this table, it is found that 1,254 Water Bodies have been completed out of 2,064 till July, 2019.

State-wise Water rates for Flow and Lift Irrigation are presented in Appendix table nos.- 2.7 and 2.8 respectively.

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Appendix

Table 2.1 : Year-wise Central Assistance Released to States for Major, Medium, ERM Projects for the period 2015-16 to 2018-19 under AIBP-PMKSY

(In crore Rupees)

S. No.	Name of States	Cumulative CLA/Grant Released up to 31.3.2015 under AIBP	CA Released under PMKSY				Cumulative CLA/Grant Released up to 31.3.2019 under AIBP-PMKSY
			2015-16	2016-17	2017-18	2018-19	
1	2	3	4	5	6		7
1	Andhra Pradesh	1377.75	0.00	7.46	15.24	0.00	1400.45
2	Assam	406.85	107.92	0.00	0.00	0.00	514.78
3	Bihar	720.39	41.51	0.00	46.32	37.82	846.04
4	Chhattisgarh	518.48	0.00	13.29	17.25	0.00	549.02
5	Goa	273.17	0.00	0.00	0.00	0.00	273.17
6	Gujarat	8753.68	128.00	961.88	1410.49	1047.29	12301.34
7	Haryana	90.54	0.00	0.00	0.00	0.00	90.54
8	Himachal Pradesh	378.89	0.00	0.00	0.00	0.00	378.89
9	Jammu & Kashmir	479.36	34.31	0.00	9.57	16.92	540.16
10	Jharkhand	965.97	281.62	145.75	305.10	305.88	2004.32
11	Karnataka	5779.21	208.16	135.47	459.52	197.00	6779.36
12	Kerala	201.11	0.00	0.00	0.00	0.00	201.11
13	Madhya Pradesh	5487.66	188.21	300.14	181.27	81.01	6238.29
14	Maharashtra	10275.92	307.80	379.22	363.52	527.54	11854.00
15	Manipur	1225.10	142.38	127.00	25.42	21.93	1541.82
16	Meghalaya	4.00	0.00	0.00	0.00	0.00	4.00
17	Odisha	4515.94	173.80	457.74	464.71	119.38	5731.56
18	Punjab	670.98	1.05	52.42	0.00	0.00	724.45
19	Rajasthan	2128.05	45.51	45.89	216.87	95.15	2531.46
20	Tamil Nadu	20.00	0.00	0.00	0.00	0.00	20.00
21	Telangana	3963.20	112.50	547.63	13.24	1.99	4638.56
22	Tripura	126.29	0.00	0.00	0.00	0.00	126.29
23	Uttar Pradesh	4034.74	555.04	135.64	65.61	397.16	5188.19
24	Uttrakhand	609.75	0.00	0.00	0.00	0.00	609.75
25	West Bengal	385.00	0.00	0.00	0.00	0.00	385.00
	Total	**53392.03**	**2327.80**	**3309.52**	**3594.13**	**2849.07**	**65472.56**

Source: Monitoring Central, PMO, Central Water Commission

Table 2.2 : Status of 99 Priority Projects under PMKSY-AIBP

(Rs. in crores), (Potential in Th. Ha)

Sl. No.	Project Name	Year of Inclusion	Major/ Medium/ ERM	River / River Basin/Sub-Basin	District Beneffited	Latest Estimated Cost	EXPENDITURE STATUS					CENTRAL ASSISTANCE STATUS							IRRIGATION POTENTIAL STATUS	
							Cumulative Expenditure as on 03/2016	Expenditure during 2016-17	Expenditure during 2017-18	Expenditue during 2018-19	Balance cost as on 01.04.2019	Cumulative CA/CLA Released as on 03/2016	Maximum CA eligibility as on 01.04.2016	CA released during 2016-17	CA released during 2017-18	CA released during 2018-19	Cumulative CA Released as on 03/2019	Balance CA as on 01.04.2019	IP Target under AIBP	IP Created under AIBP as on 31.03.2019
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Andhra Pradesh																				
1	Gundlakamma	2005-06	Major	Gundlakamma	Prakasham	697.39	521.97	12.97	21.28	15.03	126.14	99.35	19.87	0.00	11.79	0.00	111.14	8.08	32.40	28.42
2	Tadipudi LIS	2006-07	Major	Godavari	W.Godavari	794.32	387.81	13.02	18.81	16.10	304.91	48.22	0.00	0.00	0.00	0.00	48.22	0.00	83.61	63.76
3	Thotapally	2005-06	Major	Nagavali	Srikakulam, Vijayanagram	1023.24	604.14	104.92	40.28	21.78	252.12	99.73	0.00	0.00	0.00	0.00	99.73	0.00	53.31	29.54
4	Tarakaram Teerta Sagaram	2005-06	Medium	Champavathi	Vizayanagaram	471.31	186.55	6.46	23.82	7.05	247.43	33.01	25.04	0.00	3.45	0.00	36.46	21.59	10.00	0.00
5	Musurumilli	2007-08	Medium	Godavari	E.Godavari	169.95	149.44	1.78	0.30	2.00	16.43	85.74	8.61	7.46	0.00	0.00	93.20	1.15	9.16	9.03
6	Pushkara LIS	2006-07	Major	Godavari	E.Godavari	491.26	431.46	5.96	1.14	0.00	52.70	47.08	0.00	0.00	0.00	0.00	47.08	0.00	71.18	55.91
7	Yerracalva	2000-01	Medium	Yerrakalva / Godavari	W.Godavari	66.13	52.66	0.48	0.84	0.00	12.15	28.46	0.00	0.00	0.00	0.00	28.46	0.00	6.96	3.85
8	Maddigedda	2000-01	Medium	Maddigedda / Godavari	E.Godavari	6.50	8.94	0.00	0.00	0.00	-2.44	3.79	0.00	0.00	0.00	0.00	3.79	0.00	0.61	0.61
	Total					**3720.10**	**2342.97**	**145.59**	**106.47**	**61.96**	**1009.44**	**445.38**	**53.52**	**7.46**	**15.24**	**0.00**	**468.08**	**30.82**	**267.24**	**191.12**
Assam																				
1	Dhansiri	1996-97	Major	Dhansiri	Udalguri	425.13	305.38	3.73	0.00	0.00	116.02	226.60	0.00	0.00	0.00	0.00	226.60	0.00	77.23	55.26
2	Champamati	1996-97	Major	Champamati	Kokrajhar, Chirang and Bongaigaon	213.51	148.99	3.08	59.09	5.95	-3.60	182.39	0.00	0.00	0.00	0.00	182.39	0.00	23.50	23.22
3	Borolia	1996-97	Medium	Borolia	Nalbari	256.16	44.74	0.00	0.00	0.00	211.42	29.80	9.97	0.00	0.00	0.00	29.80	9.97	13.56	3.30
	Total					**894.80**	**499.11**	**6.81**	**59.09**	**5.95**	**323.84**	**438.79**	**9.97**	**0.00**	**0.00**	**0.00**	**438.79**	**9.97**	**114.29**	**81.78**
Bihar																				
1	Durgawati	1996-97	Major	Durgawati	Rohtas, Bhabua	971.97	729.26	16.00	25.50	53.13	148.07	103.84	90.07	0.00	46.32	0.00	150.16	43.75	23.59	10.48
2	Punpun	2007-08	Major	Punpun	Patna, Arawal, Jahanabad	741.01	345.00	30.31	67.81	0.62	297.27	46.65	106.81	0.00	0.00	37.82	84.46	68.99	13.68	0.00
	Total					**1712.98**	**1074.26**	**46.31**	**93.31**	**23.40**	**445.34**	**150.49**	**196.88**	**0.00**	**46.32**	**37.82**	**234.62**	**112.74**	**37.27**	**10.48**
Chhattisgarh																				
1	Maniyari Tank	2011-12	Major/ ERM	Maniyari /Shivnath / Mahanadi	Bilaspur	119.95	92.05	0.90	0.27	3.63	23.10	43.58	19.70	0.00	3.63	0.00	47.21	16.07	14.52	14.52
2	Kelo	2008-09	Major	Mahanadi / Kelo	Raigarh, Jangir, Champa	727.03	486.77	46.07	51.80	28.20	114.20	40.66	60.07	13.29	13.63	0.00	67.58	33.15	22.81	16.97
3	Kharung	2010-11	Major/ ERM	Kharung /Hasdeo / Mahanadi	Bilaspur	45.90	46.28	0.74	0.01	0.00	-1.13	10.48	0.00	0.00	0.00	0.00	10.48	0.00	10.30	10.30
	Total					**892.88**	**625.10**	**47.71**	**52.08**	**31.83**	**136.17**	**94.72**	**79.76**	**13.29**	**17.26**	**0.00**	**125.27**	**49.22**	**47.63**	**41.78**
Goa																				
1	Tillari	2000-01	Major	West flowing / Tillari	North Goa	1051.69	830.80	3.03	9.78	0.00	208.08	255.42	31.62	0.00	0.00	0.00	255.42	31.62	14.52	11.83
	Total					**1051.69**	**830.80**	**3.03**	**9.78**	**0.00**	**208.08**	**255.42**	**31.62**	**0.00**	**0.00**	**0.00**	**255.42**	**31.62**	**14.52**	**11.83**

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Table 2.2 : Status of 99 Priority Projects under PMKSY-AIBP

(Rs. in crores), (Potential in Th. Ha)

Sl. No.	Project Name	Year of Inclusion	Major/ Medium/ ERM	River / River Basin/Sub-Basin	District Beneffited	Latest Estimated Cost	EXPENDITURE STATUS					CENTRAL ASSISTANCE STATUS							IRRIGATION POTENTIAL STATUS	
							Cumulative Expenditure as on 03/2016	Expenditure during 2016-17	Expenditure during 2017-18	Expenditue during 2018-19	Balance cost as on 01.04.2019	Cumulative CA/CLA Released as on 03/2016	Maximum CA eligibility as on 01.04.2016	CA released during 2016-17	CA released during 2017-18	CA released during 2018-19	Cumulative CA Released as on 03/2019	Balance CA as on 01.04.2019	IP Target under AIBP	IP Created under AIBP as on 31.03.2019
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Gujarat																				
1	Sardar Sarovar	1996-97	Major	Naramada / Sukhi	17 districts (Narmada, Vadodra, Bharuch, Chhota-Udepur, Panchmahel, Ahmedabad, Gandhinagar, Kheda, Anand, Mehsana, Surendranagar, Morbi, Botad, Bhavnagar, Kachchh, Banskantha and Patan)	31522.33	21649.07	1987.11	2350.54	2299.93	3235.68	8792.22	4797.51	961.88	1410.49	1047.29	12211.88	1377.86	1792.00	1638.31
	Total					**31522.33**	**21649.07**	**1987.11**	**2350.54**	**1712.85**	**3235.68**	**8792.22**	**4797.51**	**961.88**	**1410.49**	**1047.29**	**12211.88**	**1377.86**	**1792.00**	**1638.31**
Jammu and Kashmir																				
1	Tral Lift	2000-01	Medium	Indus / Jhelam	Pulwama	149.36	91.42	4.10	20.30	1.71	31.83	97.01	28.16	0.00	0.00	10.69	107.70	17.47	5.12	4.44
2	Prakachik Khows Canal	2007-08	Medium	Suru	Kargil	53.32	32.13	3.17	7.69	0.00	10.33	31.66	3.41	0.00	1.35	0.00	33.01	2.06	2.26	1.25
3	Restoration & Mod. of Main Ravi Canal	2011-12	ERM	Ravi	Jammu, Sambha, Kathua	61.11	33.74	9.84	6.05	7.01	4.47	36.28	15.29	0.00	8.22	3.93	48.43	3.14	15.02	13.24
4	Rajpora Lift	2000-01	Medium	Indus/ Jhelam	Pulwama	65.67	64.67	0.20	0.26	0.00	0.54	53.61	2.36	0.00	0.00	2.30	55.91	0.06	2.43	2.31
	Total					**329.46**	**221.96**	**17.31**	**34.29**	**8.72**	**47.18**	**218.56**	**49.22**	**0.00**	**9.57**	**16.92**	**245.05**	**22.73**	**24.83**	**21.24**
Jharkhand																				
1	Subernarekha Multipurpose	2011-12	Major	Subernarekha	West singhbhum & East singhbhum, Saraikela Kharsawan	9963.36	1915.67	712.40	585.17	297.60	6452.52	1132.88	1373.68	145.75	305.10	305.88	1889.61	616.95	236.85	107.37
	Total					**9963.36**	**1915.67**	**712.40**	**585.17**	**297.60**	**6452.52**	**1132.88**	**1373.68**	**145.75**	**305.10**	**305.88**	**1889.61**	**616.95**	**236.85**	**107.37**
Karnataka																				
1	Upper Tunga Irrigation Project	2014-15	Major	Tunga/Krishna	Shivmoga, Haveri, Devnagari	**1606.07**	441.26	253.73	113.97	168.09	629.02	226.24	217.76	108.88	75.16	0.00	410.28	33.72	25.45	17.85
2	Sri Rameswara Irrigation	2014-15	Major	/Krishna	Belgam	86.54	86.37	24.64	17.33	0.00	-41.80	62.74	0.00	0.00	0.00	0.00	62.74	0.00	1.24	1.56
3	Karanja	1997-98	Major	Manjeera / Godavari	Bidar	339.15	275.59	14.99	4.49	29.75	14.33	189.03	35.15	4.15	15.50	0.00	208.68	15.50	24.55	21.15
4	Bhima LIS	2009-10	Major/ ERM	Krishna	Gulbarga	478.95	412.23	52.67	22.81	19.65	-28.41	297.87	44.89	22.44	0.00	0.00	320.31	22.45	24.29	24.29
5	NLBC System Project (New)	2014-15	Major	/Krishna	Gulbarga/Yadgir/Bijapur	2405.84	1370.76	314.46	112.00	92.30	516.32	70.00	940.50	0.00	368.86	197.00	635.86	374.64	120.75	119.61
	Total					**4916.55**	**2586.21**	**660.49**	**270.60**	**309.79**	**1089.46**	**845.88**	**1238.30**	**135.47**	**459.52**	**197.00**	**1637.87**	**446.31**	**196.28**	**184.46**
Kerala																				
1	Karapuzha	2006-07	Medium	Kabani / Panamaram	Wayanand	117.00	9.11	0.00	0.32		107.57	2.72	13.47	0.00	0.00	0.00	2.72	13.47	7.36	1.62
2	Muvattupuzha	2000-01	Major	Thodupuzha / Muvattupuzha	Idukki, Ernakulam & Kottayam	426.33	346.53	9.43	6.31		64.06	154.97	0.00	0.00	0.00	0.00	154.97	0.00	30.72	27.82
	Total					**543.33**	**355.64**	**9.43**	**6.63**	**0.00**	**171.63**	**157.69**	**13.47**	**0.00**	**0.00**	**0.00**	**157.69**	**13.47**	**38.08**	**29.44**

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(Rs. in crores), (Potential in Th. Ha)

Sl. No.	Project Name	Year of Inclusion	Major/ Medium/ ERM	River / River Basin/Sub-Basin	District Beneffited	Latest Estimated Cost	EXPENDITURE STATUS					CENTRAL ASSISTANCE STATUS							IRRIGATION POTENTIAL STATUS	
							Cumulative Expenditure as on 03/2016	Expenditure during 2016-17	Expenditure during 2017-18	Expenditue during 2018-19	Balance cost as on 01.04.2019	Cumulative CA/CLA Released as on 03/2016	Maximum CA eligibility as on 01.04.2016	CA released during 2016-17	CA released during 2017-18	CA released during 2018-19	Cumulative CA Released as on 03/2019	Balance CA as on 01.04.2019	IP Target under AIBP	IP Created under AIBP as on 31.03.2019
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Madhya Pradesh																				
1	Sindh Project Phase II	1998-99	Major	Ganga	Shivpuri, Gwalior, Datia, Bhind	1924.83	1695.39	117.83	50.73	0.00	60.88	605.04	39.46	35.52	0.00	0.00	640.56	3.95	162.10	162.10
2	Indira Sagar Project Canal Phase - I & II (km. 0 to km. 142)	1996-97	Major	Narmada	Khandwa, Khargaon	1608.00	1567.04	26.29	13.95	5.54	-4.82	352.14	58.36	16.35	7.34	0.00	375.82	34.67	62.20	62.20
3	Indira Sagar Project Canal Phase - III (km. 143 to km. 206)	2007-08	Major	Narmada	Badwani	890.38	724.71	63.11	47.07	12.89	42.60	26.94	146.53	39.65	51.29	0.00	117.87	55.60	20.70	16.99
4	Omkareshwar Project Canal Phase-IV (OSP lift)	2014-15	Major	Narmada	Khandwa,Khargone and Dhar	414.05	178.98	134.51	20.54	6.36	73.66	111.93	98.15	61.27	4.50	1.74	179.44	30.64	54.63	54.63
5	Bargi Diversion Project Phase - I	2001-02	Major	Narmada	Jabalpur, Satna, Rewa	432.25	407.11	3.88	10.16	6.83	4.27	140.64	9.51	5.66	0.00	1.92	148.22	1.93	21.19	20.87
6	Mahi Project	2000-01	Major	Mahi	Dhar, Jhabua	704.34	618.32	31.20	17.34	20.16	17.32	371.11	7.24	4.71	0.00	0.00	375.82	2.53	33.75	30.17
7	Barriyarpur LBC	2000-01	Major	Ganga / Kan	Chhatarpur	472.14	443.49	11.26	6.61	0.00	10.78	111.26	18.28	6.62	0.00	0.00	117.88	11.67	43.85	43.85
8	Bansagar Unit 2	2003-04	Major	Ganga / Sone	Rewa, Satna, Sidhi, Shahdol	1648.62	1463.62	35.01	32.65	0.00	117.34	483.71	71.78	0.00	68.02	0.00	551.73	3.76	154.54	154.54
9	Mahan Project	2003-04	Major	Ganga / Mahan	Sidhi	434.01	377.20	18.36	5.24	6.69	26.53	139.13	11.88	2.38	1.80	0.00	143.31	7.70	19.74	18.14
10	Pench Project	2007-08	Major	Godavari / Pench	Seoni, Chindwara	1564.79	1216.00	29.89	26.57	100.00	192.33	16.38	25.99	0.00	4.99	0.00	21.37	21.00	28.27	18.13
11	Sagad Project	2011-12	Medium	Sagar / Betwa / Yamuna	Vidisha	195.73	174.86	8.12	6.38	0.00	6.37	26.60	6.83	2.51	0.00	0.00	29.10	4.32	17.06	17.06
12	Singhpur Project	2011-12	Medium	urimil / Ken / Yamuna	Chhatarpur	180.09	175.13	4.65	17.14	0.00	-1.04	30.54	8.10	1.94	0.00	0.00	32.49	6.15	10.20	10.20
13	Sanjay sagar (Bah) Project	2011-12	Medium	Bah / Betwa /Yamuna	Vidisha	159.62	127.67	5.72	6.96	0.00	19.27	26.45	3.32	3.00	0.00	0.00	29.44	0.33	17.81	17.81
14	Mahuar Project	2013-14	Medium	Mahuar	Shivpuri	116.75	114.30	2.45	0.00	0.00	0.00	8.10	10.41	0.00	0.00	0.00	8.10	10.41	13.78	13.78
15	Indira Sagar Project Canal Phase - IV (km. 206 to km. 243)	2008-09	Major	Narmada	Barwani	558.62	301.24	81.27	68.68	48.15	59.28	87.07	115.70	29.22	24.55	0.00	140.84	61.93	19.60	9.40
16	Indira Sagar Project Canal Phase - V (Khargone Lift)	2014-15	Major	Narmada	Khandwa, Khargaon Barwani	212.12	67.59	15.06	5.78	0.00	123.69	47.19	39.28	9.51	0.00	0.00	56.70	29.77	33.14	32.00
17	Omkareshwar Project Canal Phase-II (RBC km. 9.70 to km 65.50)	2007-08	Major	Narmada	Khandwa, Khargaon, Dhar	353.62	316.97	26.06	3.25	0.88	6.46	123.92	74.85	11.00	5.92	0.00	140.84	57.93	19.58	15.80
18	Omkareshwar Project Canal Phase-III (RBC km. 65.50 to km 142)	2007-08	Major	Narmada	Dhar	510.00	463.14	21.11	7.32	5.62	12.81	144.79	46.86	14.06	12.88	2.50	174.22	17.43	48.59	40.75
19	Bargi Diversion Project Phase - II (km. 63 to km 104)	2002-03	Major	Narmada	Jabalpur, Satna, Rewa	342.29	319.20	5.07	9.04	6.42	2.56	114.47	12.94	11.65	0.00	0.00	126.12	1.29	31.90	27.12

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							Cumulative Expenditure as on 03/2016	Expenditure during 2016-17	Expenditure during 2017-18	Expenditue during 2018-19	Balance cost as on 01.04.2019	Cumulative CA/CLA Released as on 03/2016	Maximum CA eligibility as on 01.04.2016	CA released during 2016-17	CA released during 2017-18	CA released during 2018-19	Cumulative CA Released as on 03/2019	Balance CA as on 01.04.2019	IP Target under AIBP	IP Created under AIBP as on 31.03.2019
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
20	Bargi Diversion Project Phase - III (km. 104 to km 154)	2007-08	Major	Narmada	Jabalpur, Satna, Rewa	1399.70	503.70	23.03	102.46	119.77	650.74	71.07	240.74	33.85	0.00	28.18	133.10	178.71	26.00	3.02
21	Bargi Diversion Project Phase - IV (km. 154 to km 197)	2008-09	Major	Narmada	Jabalpur, Satna, Rewa, Katni	893.35	485.98	10.76	5.05	0.01	391.55	22.73	145.87	11.28	0.00	0.00	34.01	134.59	34.00	10.06
	Total					**15015.30**	**11741.64**	**674.64**	**462.92**	**339.32**	**1812.58**	**3061.21**	**1192.08**	**300.18**	**181.29**	**34.34**	**3576.98**	**676.31**	**872.63**	**778.62**
Maharashtra																				
1	Waghur	1996-97	Major	Tapi / Waghur	Jalgaon	1232.98	737.33	97.23	90.91	220.30	87.21	573.34	274.48	81.70	0.00	113.32	768.36	79.46	38.57	25.54
2	Bawanthadi (IS)	2004-05	Major	Godavari / Wainganga	Bhandara	697.93	608.67	77.67	42.33	18.83	-49.57	161.36	27.23	16.84	10.00	0.00	188.19	0.40	27.71	27.71
3	Lower Dudhna	2005-06	Major	Godavari	Parbhani, Jalna	1714.05	1089.44	309.35	214.27	79.14	21.85	261.31	56.26	39.62	5.27	4.48	310.68	6.89	44.48	44.48
4	Tillari (IS)	2005-06	Major	West Flowing	Sindhudurg	745.74	343.91	39.74	58.26	48.23	255.60	105.69	17.91	11.94	0.00	0.00	117.63	5.97	6.68	5.58
5	Lower Wardha	2006-07	Major	Godavari / Wardha	Wardha	2915.60	1317.39	358.34	322.90	322.42	594.55	149.60	230.20	102.47	0.00	38.94	291.01	88.79	63.33	37.44
6	Lower Panzara	2009-10	Major	Tapi / Panzara	Dhule	294.66	211.61	44.56	34.75	7.33	-3.59	114.88	18.77	8.73	9.90	0.00	133.50	0.15	6.79	6.79
7	Nandur Madhmeshwar Ph-II	2009-10	Major	Godavari / Darna	Aurangabad	689.97	286.51	272.91	117.83	97.92	-85.19	175.27	17.24	16.04	0.25	0.00	191.56	0.95	20.50	20.50
8	Gosikhurd (NP)	2008-09	Major	Godavari / Wainganga	Nagpur, Bhandara Chandrapur	12770.09	4878.62	570.29	697.43	864.96	5758.79	3530.01	1091.75	0.00	166.59	195.81	3892.41	729.35	250.80	59.66
9	Upper Pen Ganga	2004-05	Major	Godavari	Yavatmal, Parbhani, Nanded	1511.83	788.90	55.30	103.20	121.47	442.96	328.12	344.57	12.26	26.19	55.30	421.86	250.83	44.47	33.04
10	Bembla	2007-08	Major	Bembla / Godavari	Yavatmal	2483.54	1369.43	176.59	212.30	197.89	527.33	721.06	330.26	24.18	54.48	42.90	842.62	208.69	52.42	42.49
11	Tarali	2007-08	Major	Tarali / Krishna	Satara	943.25	446.92	45.48	56.14	92.21	302.51	253.43	80.52	24.38	0.00	6.43	284.24	49.71	14.28	6.90
12	Dhom Balaakwadi	2007-08	Major	Krishna	Pune / Satara	868.52	402.55	80.24	141.03	66.13	178.57	152.98	57.62	5.78	13.46	7.94	180.16	30.44	18.10	15.20
13	Arjuna	2007-08	Medium	Arjuna / Kodavali	Ratnagiri	611.54	365.38	38.54	33.99	29.12	144.51	79.50	20.66	1.01	4.73	3.36	88.60	11.56	5.70	0.53
14	Upper Kundalika	2008-09	Medium	Godavari/Kundalika	Beed	263.72	166.66	17.69	43.59	33.16	2.62	101.12	15.09	1.01	7.04	1.56	110.73	5.48	2.80	2.80
15	Aruna	2009-10	Medium	Aruna	Sindhudurg	1472.14	378.16	140.53	166.17	290.37	496.91	70.54	0.00	0.00	0.00	0.00	70.54	0.00	9.03	0.00
16	Krishna Koyana Lift	2009-10	Major	Krishna	Solapur, Sangli	2774.88	683.86	80.00	111.56	354.94	1544.52	479.47	337.74	23.09	29.27	22.46	554.29	262.92	104.17	62.89
17	Gadnadi	2009-10	Medium	Gad / Shastri	Ratnagiri	602.75	448.63	9.24	19.24	11.68	113.96	38.29	4.14	0.10	0.63	0.81	39.83	2.60	3.47	0.60
18	Dongargaon	2005-06	Medium	Godavari	Chandrapur	52.28	34.96	5.63	5.96	2.19	3.54	16.90	5.89	1.17	2.56	2.16	22.78	0.00	2.77	2.77
19	Sangola Branch Canal	2007-08	Major	Yelwaldi / Nira	Solapur,	742.24	200.32	13.59	34.69	92.26	401.38	138.41	34.34	1.31	2.45	5.10	147.27	25.48	11.29	7.54
20	Khadakpurna	2006-07	Major	Khadakpurna / Godavari	Buldhana	1052.01	878.99	76.58	52.17	59.21	-14.94	574.92	80.70	2.14	12.00	26.02	615.08	40.54	22.94	21.67
21	Warna	2005-06	Major	Krishna	Kolhapur, Sangli	285.28	285.28	0.00	0.00	0.00	0.00	171.87	0.00	0.00	0.00	0.00	171.87	0.00	54.75	13.86
22	Morna (Gureghar)	2007-08	Medium	Morna / Koyna	Satara	141.69	72.89	2.80	10.03	22.63	33.34	9.83	8.23	0.33	0.00	0.00	10.15	7.90	3.08	1.52
23	Lower Pedhi	2008-09	Major	Tapi/Purna/Pedhi	Amravati, Akola	1480.70	565.70	182.17	82.11	107.14	543.58	219.41	38.02	4.18	6.31	0.00	229.90	27.53	17.02	0.00
24	Wang project	2008-09	Medium	Krishna/Wang	Satara	111.92	88.86	4.98	13.84	44.96	-40.72	14.53	5.58	0.32	0.00	0.00	14.85	5.26	7.07	5.75
25	Naradave (Mahammadwadi)	2009-10	Medium	Gad	Sindhudurg	781.85	180.67	5.08	61.10	3.91	531.09	38.62	25.76	1.27	10.80	0.00	50.69	13.69	12.28	0.96
26	Kudali	2009-10	Medium	Krishna / Kudali / Hatgeghar	Satara	382.29	72.47	6.54	5.77	58.60	238.91	12.22	10.43	0.0035	1.13	0.00	13.35	9.30	5.330	0.20
	Total					**37623.45**	**16904.11**	**2711.07**	**2731.57**	**3247.00**	**12029.71**	**8492.65**	**3133.38**	**379.88**	**363.03**	**526.59**	**9762.15**	**1863.88**	**849.81**	**446.40**

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Table 2.2 : Status of 99 Priority Projects under PMKSY-AIBP

(Rs. in crores), (Potential in Th. Ha)

Sl. No.	Project Name	Year of Inclusion	Major/ Medium/ ERM	River / River Basin/Sub-Basin	District Beneffited	Latest Estimated Cost	EXPENDITURE STATUS					CENTRAL ASSISTANCE STATUS							IRRIGATION POTENTIAL STATUS	
							Cumulative Expenditure as on 03/2016	Expenditure during 2016-17	Expenditure during 2017-18	Expenditue during 2018-19	Balance cost as on 01.04.2019	Cumulative CA/CLA Released as on 03/2016	Maximum CA eligibility as on 01.04.2016	CA released during 2016-17	CA released during 2017-18	CA released during 2018-19	Cumulative CA Released as on 03/2019	Balance CA as on 01.04.2019	IP Target under AIBP	IP Created under AIBP as on 31.03.2019
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Manipur																				
1	Thoubal	1997-98	Major	Thoubal	Imphal East, Senapati,Thoubal, Ukhrul	1726.79	1161.20	164.91	41.74	103.60	255.35	903.37	216.60	105.53	11.62	21.93	1042.44	77.52	35.15	22.14
2	Dolaithabi Barrage	2002-03	Medium	Irli	Imphal & Senapati	455.54	308.52	54.14	34.79	43.46	14.63	270.12	35.27	21.47	13.80	0.00	305.39	0.00	7.55	5.97
	Total					**2182.33**	**1469.72**	**219.05**	**76.53**	**54.01**	**269.98**	**1173.49**	**251.87**	**127.00**	**25.42**	**21.93**	**1347.83**	**77.53**	**42.70**	**28.10**
Odisha																				
1	Lower Indra(KBK)	1999-2000	Major	Indra / Mahanadi	Noapada	1595.35	1264.51	120.51	74.98	117.06	18.29	987.10	104.88	89.75	0.00	0.00	1076.85	15.13	38.87	26.50
2	Upper Indravati Extn (KBK)	2003-04	Major	Indravathi / Indravathi	Kalahandi	544.58	525.48	14.96	7.98	6.29	0.00	538.10	18.00	18.00	0.00	0.00	556.10	0.00	41.79	41.79
3	Rukura-Tribal	2009-10	Major	Bolani / Brahmani	Sundargarh	240.22	190.08	20.38	18.26	11.67	-0.17	63.66	27.07	7.26	16.63	1.23	88.78	1.95	7.65	6.80
4	Subernarekha	1996-97	Major	Subernarekha / Subernarekha	Mayurbhanj, Balasore	4455.68	2768.10	375.65	475.83	438.92	397.18	1435.17	642.33	200.66	240.80	45.27	1921.90	155.60	115.26	79.39
5	Anandpur Barr. Ph.-I / Integrated Anandpur Barr.	2003-04	Major /ERM	Salandi / Baitarani	Keonjhar, Bhadrak	2864.36	774.12	157.01	148.22	169.76	1615.25	97.92	70.31	16.39	0.00	0.00	114.31	53.92	56.72	0.00
6	RET irrigation	2003-04	Medium	Ret / Mahanadi	Kalahandi	707.64	241.58	127.06	296.94	55.14	-13.08	94.32	110.78	34.40	47.12	14.60	190.44	14.66	9.78	9.72
7	Kanupur	2003-04	Major	Baitarni / Baitarni	Keonjhar	2301.28	1208.40	86.12	181.59	92.24	732.94	612.75	270.28	32.96	28.51	48.82	723.04	159.99	47.71	0.00
8	Telengiri	2003-04	Major	Telengiri / Indravathi	Koraput	932.96	454.11	193.90	236.92	147.19	-99.16	145.33	208.91	58.32	131.66	9.47	344.78	9.46	13.79	11.81
	Total					**13642.07**	**7426.38**	**1095.59**	**1440.72**	**1038.27**	**2651.25**	**3974.35**	**1452.56**	**457.74**	**464.72**	**119.39**	**5016.20**	**410.71**	**331.57**	**176.01**
Punjab																				
1	Kandi Canal Extension (Ph.II)	2002-03	Major /ERM	Indus	Hoshiarpur, Jalandhar & Kapurthala	580.13	406.74	88.93	0.00	31.38	53.08	93..48	45.76	45.76	0.00	0.00	139.24	0.00	23.33	23.33
2	Rehabilitation of Ist Patiala Feeder and Kotla Branch Project	2007-08	Major/ ERM	Indus	Patiala	177.81	130.30	24.85	0.00	0.80	21.86	29.61	6.66	6.66	0.00	0.00	36.27	0.00	68.62	68.62
	Total					**757.94**	**537.04**	**113.78**	**0.00**	**32.18**	**74.94**	**29.61**	**52.42**	**52.42**	**0.00**	**0.00**	**175.51**	**0.00**	**91.95**	**91.95**
Rajashthan																				
1	Narmada Canal	1998-99	Major	Narmada	Jalore & Barmer	2551.03	1864.19	103.48	172.15	255.72	155.49	1084.05	427.82	40.79	199.99	93.43	1418.26	93.62	245.88	245.81
2	Mod. of Gang Canal	2000-01	Major/ ERM	Indus	Sriganganagar	635.46	603.38	15.20	12.15	47.96	-43.23	217.74	32.08	5.10	16.88	1.72	241.44	8.38	96.52	96.51
	Total					**3186.49**	**2467.57**	**118.68**	**184.30**	**181.72**	**112.27**	**1301.79**	**459.90**	**45.89**	**216.87**	**95.15**	**1659.70**	**102.00**	**342.40**	**342.32**

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Table 2.2 : Status of 99 Priority Projects under PMKSY-AIBP

(Rs. in crores), (Potential in Th. Ha)

Sl. No.	Project Name	Year of Inclusion	Major/ Medium/ ERM	River / River Basin/Sub-Basin	District Beneffited	Latest Estimated Cost	EXPENDITURE STATUS					CENTRAL ASSISTANCE STATUS							IRRIGATION POTENTIAL STATUS	
							Cumulative Expenditure as on 03/2016	Expenditure during 2016-17	Expenditure during 2017-18	Expenditue during 2018-19	Balance cost as on 01.04.2019	Cumulative CA/CLA Released as on 03/2016	Maximum CA eligibility as on 01.04.2016	CA released during 2016-17	CA released during 2017-18	CA released during 2018-19	Cumulative CA Released as on 03/2019	Balance CA as on 01.04.2019	IP Target under AIBP	IP Created under AIBP as on 31.03.2019
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Telangana																				
1	J. Chokha Rao LIS	2006-07	Major	Godavari	Warangal, Nalgonda, Krimnagar, Medak	12413.26	6867.33	789.13	548.17	1392.75	2815.88	1317.09	966.64	470.60	0.00	0.00	1787.69	496.04	248.69	105.34
2	Sri Komaram Bheem project	2006-07	Medium	Godavari	Adilabad	483.72	336.17	29.30	40.85	16.22	61.17	145.54	0.00	0.00	0.00	0.00	145.54	0.00	9.92	6.09
3	Gollavagu Project	2006-07	Medium	Godavari	Adilabad	93.15	72.44	2.73	2.65	1.13	14.21	60.47	10.49	2.18	0.00	0.00	62.65	8.31	0.92	0.92
4	Rallivagu project	2006-07	Medium	Godavari	Adilabad	51.84	39.08	0.00	12.76	0.00	0.00	6.71	0.00	0.00	0.00	0.00	6.71	0.00	2.43	1.94
5	Mathadivagu Project	2006-07	Medium	Godavari	Adilabad	54.21	42.99	12.26	0.00	0.00	-1.04	37.02	5.35	2.67	0.00	1.99	41.68	0.68	3.44	3.44
6	Peddavagu @ Neelwai project	2006-07	Medium	Godavari	Adilabad	198.59	109.60	11.88	16.79	26.99	33.33	18.40	0.00	0.67	0.00	-0.67	18.40	0.00	5.26	3.06
7	Palemvagu project	2005-06	Medium	Godavari	Khammam	214.06	192.49	4.03	0.00	0.26	17.28	9.54	0.00	0.00	0.00	0.00	9.54	0.00	4.10	2.02
8	Peddavagu @ Jagannathpur	2006-07	Medium	Godavari	Nellore	244.66	84.56	16.40	4.50	22.38	116.82	106.03	4.21	0.00	0.00	0.00	106.03	4.21	6.07	0.00
9	SRSP St.II	2005-06	ERM	Godavari	Warangal, Nalgonda, Khammam, Adilabad	949.87	663.06	139.30	46.32	30.34	70.85	139.47	48.36	17.02	13.24	0.00	169.73	18.09	178.07	142.82
10	Rajiv Bheema L.I. Scheme	2007-08	Major	Krishna / Krishna	Mahaboobnagar	1942.66	1374.76	130.62	104.40	137.42	195.46	1165.67	94.66	54.48	0.00	0.00	1220.15	40.18	82.15	59.82
11	Indiramma Flood Flow Canal	2005-06	ERM	Godavari	Karimnagar, Warangal, Nalgonda	5037.13	3580.34	415.56	252.33	82.57	706.33	382.40	0.00	0.00	0.00	0.00	382.40	0.00	93.59	1.21
	Total					**21683.15**	**13362.82**	**1551.21**	**1028.77**	**1710.06**	**4030.29**	**3388.34**	**1129.71**	**547.62**	**13.24**	**1.32**	**3950.52**	**567.51**	**634.64**	**326.66**
Uttar Pradesh																				
1	Bansagar Canal	1997-98	Major	Ganga/Sone	Allahabad, Mirzapur	3242.52	2680.65	197.00	196.99	50.00	117.89	867.58	147.45	64.64	63.36	15.51	1011.09	3.94	150.13	149.13
2	Arjun sahayak	2009-10	Major	Dhasan/Ganga	Mahoba, Hamirpur, Banda	2465.69	790.66	100.00	100.00	821.14	653.90	429.21	127.50	9.00	2.25	57.84	498.29	58.42	44.38	24.20
3	Madhya Ganga canal PH-II	2008-09	Major	Ganga	Moradbad, Jyotibafule Nagar, Bijnore	4284.46	1006.49	0.00	7.93	575.93	2694.11	191.95	92.00	0.00	0.00	18.81	210.76	73.19	146.53	56.00
4	Saryu Nahar(NP)	1996-97	Major	Ganga/Saryu	Baharaich, Basti,Gorakhpur, Gonda, Shravasti,Balrampur, Siddharth nagar, Sant Kabir nagar	6165.75	3542.46	194.85	167.89	0.00	2260.55	1988.21	1228.58	62.00	0.00	305.00	2355.21	861.58	1312.00	724.64
	Total					**16158.42**	**8020.26**	**491.85**	**472.81**	**1447.07**	**5726.44**	**3476.95**	**1595.53**	**135.64**	**65.61**	**397.16**	**4075.35**	**997.13**	**1653.05**	**953.97**
	Grand Total					**165796.62**	**94030.32**	**10612.05**	**9965.58**	**10501.72**	**39826.79**	**37430.42**	**17111.39**	**3310.21**	**3593.66**	**2800.79**	**47228.52**	**7406.75**	**7587.73**	**5461.85**

Source: P&P Directorate, CWC

Table 2.3 : CAD&WM Inclusion Status

Sl. No.	State	No. of Priority Projects	Projects included directly by MoJS	Projects not requiring CAD&WM	Projects requiring inclusion as on 01.04.2016	Status of examination of DPRs in Field Units				Status of examination of DPRs in HQ				Projects included in MoJS after CWC HQ recommendations	Project name of those not included by MoJS but recommended by CWC	DPR yet to be submitted or resubmitted by State	Project name of those not received or to be re-submitted
						Received in Field Units	Under examination	Returned to States	Recommended to HQ	Received in HQ	Under examination	Returned to Field Units	Recommended to MoJS				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Andhra Pradesh	8	0	1	7	7	0	0	7	7	0	0	7	7		0	
2	Assam	3	2	0	1	1	0	0	1	1	0	0	1	1		0	
3	Bihar	2	1	0	1	0	0	0	0	0	0	0	0	0		1	Punpun
4	Chhattisgarh	3	0	0	3	3	0	0	3	3	0	0	3	3		0	
5	Goa	1	1	0	0	0	0	0	0	0	0	0	0	0		0	
6	Gujarat	1	1	0	0	0	0	0	0	0	0	0	0	0		0	
7	Jammu & Kashmir	4	0	1	3	3	0	0	3	3	0	0	3	3		0	
8	Jharkhand	1	0	0	1	1	0	0	1	1	0	0	1	1		0	
9	Karnataka	5	3	0	2	2	0	0	2	2	0	0	2	2		0	
10	Kerala	2	1	0	1	0	0	0	0	0	0	0	0	0		1	Karapuzha
11	Madhya Pradesh	21	17	0	4	4	0	0	4	4	0	0	4	2	Bargi Diversion Phase-III & IV	0	
12	Maharashtra	26	9	4	13	13	0	0	13	13	0	0	13	13		0	
13	Manipur	2	2	0	0	0	0	0	0	0	0	0	0	0		0	
14	Odisha	8	4	0	4	4	0	0	4	4	0	0	4	4		0	
15	Punjab	2	0	2	0	0	0	0	0	0	0	0	0	0		0	
16	Rajasthan	2	1	1	0	0	0	0	0	0	0	0	0	0		0	
17	Telangana	11	0	0	11	11	0	0	11	11	0	0	11	11		0	
18	Uttar Pradesh	4	0	1	3	3	0	1	2	2	0	0	2	2		1	Madhya Ganga canal Ph-II
Total		**106**	**42**	**10**	**54**	**52**	**0**	**1**	**51**	**51**	**0**	**0**	**51**	**49**	**2**	**3**	

Source: P&P Directorate, CWC

Table 2.4 : State-wise Status of Proposal on CAD&WM component for 99 Prioritized projects as on 01.04.2019

State	Sl. No.	Project Name	Districts Benefitted	Year of Inclution	Target Date of Completion*	As per Cabinet Note		As per DPR/MoU			Expenditure Progress				Financial Progress					Physical Progress				
						Balance CCA (Th. Ha)	Target CA (Rs. crore)	CCA (Th. Ha)	Target CA (Rs. Crore)	Total Cost (Rs. Crore)	Expenditure 2016-17	Expenditure 2017-18	Expenditure 2018-19	Total	CA released 2016-17	CA released 2017-18	CA released 2018-19	Total CA released	% Financial Progress	Pogress 2016-17	Pogress 2017-18	Pogress 2018-19 (Till June, 2018)	Total Physical CCA	% Physical Progress
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Andhra Pradesh	1	Gundalakamma	Praksam	2017-18	31.3.2020	32.400	64.800	32.400	47.150	102.798	0.000	0.000	0.000	0.000	0.000	0.000	3.640	3.640	8	0.000	0.00	0.000	0.000	0
	2	Tadipudi LIS	West Godavari	2017-18	31.3.2021	83.610	167.200	54.346	109.340	277.290	0.000	0.000	0.000	0.000	0.000	0.000	16.400	16.400	15	0.000	0.000	0.000	0.000	0
	3	Thotapally	Srikakulam	2017-18	31.3.2021	48.560	97.100	29.138	58.533	265.840	0.000	0.000	0.000	0.000	0.000	0.000	6.370	6.370	11	0.000	0.000	0.000	0.000	0
	4	Tarakaram Teertasagaram	Vijayanagaram	2017-18	31.3.2021	10.000	20.000	4.351	10.145	25.917	0.000	0.000	0.000	0.000	0.000	0.000	0.610	0.610	6	0.000	0.000	0.000	0.000	0
	5	Musurumilli	East Godavari	2017-18	31.3.2020	9.160	18.300	5.915	12.677	31.725	0.000	0.000	0.000	0.000	0.000	0.000	4.490	4.490	35	0.000	0.000	0.000	0.000	0
	6	Pushkara LIS	East Godavari	2017-18	31.3.2020	71.180	142.350	46.546	99.656	240.870	0.000	0.000	0.000	0.000	0.000	0.000	35.850	35.850	36	0.000	0.000	0.000	0.000	0
	7	Yerracalva	West Godavari	2018-19	31.3.2020	6.960	13.900	5.924	11.875	26.540	0.000	0.000	0.000	0.000	0.000	0.000	1.820	1.820	0	0.000	0.000	0.000	0.000	0
	8	Maddigedda	……..			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0
		Total				**261.870**	**523.650**	**178.620**	**349.376**	**970.980**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**69.180**	**69.180**	**20**	**0.000**	**0.000**	**0.000**	**0.000**	**0**
Assam	9	Dhansiri	Udalguri	2014-15	31.12.2019	83.570	167.150	34.183	66.267	151.990	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0
	10	Champamati	Kokrajhar, Chirang (BTC), Bongaigaon	2015-16	31.12.2018	24.100	48.200	6.587	13.847	27.230	0.000	0.000	0.000	0.000	0.000	0.000	3.550	3.550	26	0.000	0.000	3.255	3.255	49
	11	Borolia	Baksa, Kamrup	2018-19	31.12.2019	13.562	27.100	**8.917**	**16.520**	**36.238**	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0
		Total				**121.232**	**242.450**	**49.687**	**96.634**	**215.458**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**3.550**	**3.550**	**4**	**0.000**	**0.000**	**3.255**	**3.255**	**7**
Bihar	12	Durgawati	Kuaimue, Rohtas	2015-16	31.3.2019	21.990	44.000	30.510	50.664	142.395	7.850	18.060	0.000	25.910	12.643	8.760	14.420	35.823	71	2.245	5.492	3.027	10.764	35
	13	Punpun	……			13.680	27.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0
		Total				**35.670**	**71.350**	**30.510**	**50.664**	**142.395**	**7.850**	**18.060**	**0.000**	**25.910**	**12.643**	**8.760**	**14.420**	**35.823**	**71**	**2.245**	**5.492**	**3.027**	**10.764**	**35**
Chhattisgarh	14	Maniyari Tank	Mungeli	2017-18	31.12.2019	14.520	29.050	11.515	22.630	45.370	0.000	0.000	0.000	0.000	0.000	0.000	4.980	4.980	22	0	0.000	0.000	0.000	0
	15	Kelo	Rajgarh, Janjgir Champa	2017-18	31.03.2019	22.810	45.600	22.810	40.510	81.210	0.000	0.000	0.000	0.000	0.000	11.780	0.000	11.780	29	0	0.000	0.000	0.000	0
	16	Kharung	Bilaspur	2017-18	31.12.2019	10.300	20.600	8.300	16.430	33.180	0.000	0.000	0.000	0.000	0.000	0.000	4.950	4.950	30	0	0.000	0.000	0.000	0
		Total				**47.630**	**95.250**	**42.625**	**79.570**	**159.760**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**11.780**	**9.930**	**21.710**	**27**	**0.000**	**0.000**	**0.000**	**0.000**	**0**

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Table 2.4 : State-wise Status of Proposal on CAD&WM component for 99 Prioritized projects as on 01.04.2019

State	Sl. No.	Project Name	Districts Benefitted	Year of Inclution	Target Date of Completion*	As per Cabinet Note		As per DPR/MoU			Expenditure Progress				Financial Progress					Physical Progress				
						Balance CCA (Th. Ha)	Target CA (Rs. crore)	CCA (Th. Ha)	Target CA (Rs. Crore)	Total Cost (Rs. Crore)	Expenditure 2016-17	Expenditure 2017-18	Expenditure 2018-19	Total	CA released 2016-17	CA released 2017-18	CA released 2018-19	Total CA released	% Financial Progress	Pogress 2016-17	Pogress 2017-18	Pogress 2018-19 (Till June, 2018)	Total Physical CCA	% Physical Progress
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Goa	17	Tillari	Talukas, Bicholim, Bardez	2007-08	…..	8.791	17.600	11.777	68.960	137.920	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0
		Total				**8.791**	**17.600**	**11.777**	**68.960**	**137.920**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0**	**0.000**	**0.000**	**0.000**	**0.000**	**0**
Gujarat	18	Sardar Sarovar Project	Vadodara, Bharuch, Narmada, Panchmahal, Chhotaudepur, Gandinagar, Ahmedabad, Mahesana, Patan, Banaskantha, Botad, Surendranagar, Morbi, Rajkot, Bhavnagar, Kutch(16)	2004-05	31.12.2019	1680.500	3361.000	1363.859	2510.883	5021.765	1435.900	1224.730	717.698	3378.328	681.639	690.476	347.040	1719.155	68	385.282	290.000	239.387	914.669	67
		Total				**1680.500**	**3361.000**	**1363.859**	**2510.883**	**5021.765**	**1435.900**	**1224.730**	**717.698**	**3378.328**	**681.639**	**690.476**	**347.040**	**1719.155**	**68**	**385.282**	**290.000**	**239.387**	**914.669**	**67**
Jammu & Kashmir	19	Tral Lift	Pulwama	2017-18	31.03.2020	6.000	12.000	1.413	3.011	6.161	0.000	0.000	0.000	0.000	0.000	0.000	0.640	0.640	21	0.000	0.000	0.000	0.000	0
	20	Prakachik Khows Canal (Kargil)	Kargil	2017-18	31.03.2020	0.462	0.900	0.462	0.709	1.866	0.000	0.000	0.000	0.000	0.000	0.000	0.210	0.210	30	0.000	0.000	0.000	0.000	0
	21	Restoration & Mod. of Main Ravi Canal	……	……	……	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0	0.000	0.000	0.000	0.000	0
	22	Rajpora Lift	Pulwama.	2017-18	31.03.2020	2.429	4.850	0.585	1.521	3.613	0.000	0.000	0.000	0.000	0.000	0.000	0.850	0.850	56	0.000	0.000	0.000	0.000	0
		Total				**8.891**	**17.750**	**2.460**	**5.241**	**11.639**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**1.700**	**1.700**	**32**	**0.000**	**0.000**	**0.000**	**0.000**	**0**

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Table 2.4 : State-wise Status of Proposal on CAD&WM component for 99 Prioritized projects as on 01.04.2019

State	Sl. No.	Project Name	Districts Benefitted	Year of Inclution	Target Date of Completion*	As per Cabinet Note		As per DPR/MoU			Expenditure Progress				Financial Progress					Physical Progress				
						Balance CCA (Th. Ha)	Target CA (Rs. crore)	CCA (Th. Ha)	Target CA (Rs. Crore)	Total Cost (Rs. Crore)	Expenditure 2016-17	Expenditure 2017-18	Expenditure 2018-19	Total	CA released 2016-17	CA released 2017-18	CA released 2018-19	Total CA released	% Financial Progress	Pogress 2016-17	Pogress 2017-18	Pogress 2018-19 (Till June, 2018)	Total Physical CCA	% Physical Progress
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Jharkhand	23	Subernarekha	East Singhbum, Saraikela, Kharsawan	2018-19	31.03.2021	236.848	473.700	66.645	133.320	747.530	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Total				**236.848**	**473.700**	**66.645**	**133.320**	**747.530**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**
Karnataka	24	Upper Tunga Irrigation Project	Haveri, Simoga, Davengere	2015-16	31.03.2017	78.489	157.000	25.449	67.160	130.220	5.940	13.710	0.000	19.650	21.040	0.000	0.000	21.040	31	2.828	4.287	1.390	8.505	33
	25	Sri Rameswar Irrigation	Belgaum	2016-17	31.03.2019	13.200	26.400	11.418	22.710	46.730	22.140	8.150	0.960	31.250	10.380	2.500	3.870	16.750	74	4.850	1.294	2.130	8.274	72
	26	Bhima LIS	Kalaburagi	2016-17	31.03.2019	24.290	48.600	12.898	23.630	47.040	10.870	17.900	0.000	28.770	0.000	12.740	5.090	17.830	75	3.397	5.373	1.451	10.221	79
	27	Karanja	Bidar	2017-18	31.03.2020	21.554	43.100	5.588	11.230	42.600	0.000	0.000	0.000	0.000	0.000	0.000	4.530	4.530	40	0.000	0.000	0.000	0.000	0
	28	NLBC	Bijapur, Gulbarga	2018-19	31.03.2020	105.000	210.000	28.665	62.170	750.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0
		Total				**242.533**	**485.100**	**84.018**	**186.900**	**1016.590**	**38.950**	**39.760**	**0.960**	**79.670**	**31.420**	**15.240**	**13.490**	**60.150**	**32**	**11.075**	**10.954**	**4.971**	**27.000**	**32**
Kerala	29	Muvattupuzha	Idukki, Ernakulam, Kottayam	2015-16	31.03.2021	30.390	60.800	18.476	48.720	107.300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	30	Karapuzha	…….			7.360	14.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Total				**37.750**	**75.500**	**18.476**	**48.720**	**107.300**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**
Madhya Pradesh	31	Sindh Project Phase II	Shivpuri,Gwalior, Datia & Bhind	2014-15	31.03.2019	154.110	308.200	90.564	180.760	361.530	70.894	73.310	16.410	160.614	17.190	43.310	14.290	74.790	41	28.301	29.270	7.090	64.661	71
	32	Indira Sagar Project Canal Phase - I & II (km. 0 to km. 142)	Khandwa, Khargone, Barwani	2015-16	31.03.2019	59.700	119.400	88.000	196.720	410.575	5.440	10.540	0.000	15.980	6.644	0.000	0.000	6.644	3	0.310	2.480	0.000	2.790	3
		Indira Sagar Project Canal Phase -III				20.700	41.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000		0.000	0.000	0
	33	Mahi Project	Dhar	2015-16	18.03.2018	33.752	67.500	28.127	64.280	128.340	2.656	15.80	10	28.456	2.340	8.716	6.050	17.106	27	1.060	6.310	4.840	12.210	43
	34	Barriyarpur LBC	Chhatarpur	2011-12	31.03.2019	23.860	47.700	19.003	25.926	51.850	12.675	8.48	0	21.155	7.140	3.966	4.990	16.096	62	4.990	3.390	0.250	8.630	45
	35	Bansagar Unit 2	Rewa, Satna, Sidhi and Shahdol	2014-15	31.03.2019	127.250	254.500	97.036	224.300	448.600	49.0	38.00	12.98	100.000	22.350	15.965	18.240	56.555	25	19.361	15.170	8.300	42.831	44

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Table 2.4 : State-wise Status of Proposal on CAD&WM component for 99 Prioritized projects as on 01.04.2019

State	Sl. No.	Project Name	Districts Benefitted	Year of Inclution	Target Date of Completion*	As per Cabinet Note		As per DPR/MoU			Expenditure Progress				Financial Progress					Physical Progress				
						Balance CCA (Th. Ha)	Target CA (Rs. crore)	CCA (Th. Ha)	Target CA (Rs. Crore)	Total Cost (Rs. Crore)	Expenditure 2016-17	Expenditure 2017-18	Expenditure 2018-19	Total	CA released 2016-17	CA released 2017-18	CA released 2018-19	Total CA released	% Financial Progress	Pogress 2016-17	Pogress 2017-18	Pogress 2018-19 (Till June, 2018)	Total Physical CCA	% Physical Progress
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Madhya Pradesh	36	Mahan Project	Sidhi	2014-15	31.03.2019	17.903	35.800	14.313	27.260	54.520	5.59	12.60	0	18.190	2.140	6.379	3.090	11.609	43	2.232	5.030	1.303	8.565	60
	37	Pench Project	Chhindwara, Seoni	2014-15	31.03.2019	28.068	56.150	27.868	51.220	102.440	14.61	13.00	9	36.610	5.350	8.602	5.900	19.852	39	5.828	5.190	3.910	14.928	54
	38	Sagad Project	Vidisha	2014-15	31.03.2019	17.061	34.100	9.478	17.680	35.370	3.359	6.75	9	19.109	0.000	4.337	2.150	6.487	37	1.163	2.700	4.670	8.533	90
	39	Singhpur Project	Chhatarpur	2014-15	31.03.2019	10.200	20.400	5.840	10.370	21.390	4.73	8.10	0		2.060	2.204	0.660	4.924	47	1.888	3.230	0.000	5.118	100
	40	Sanjay sagar (Bah) Project	Vidisha	2014-15	31.03.2019	17.207	34.400	9.673	18.090	36.190	2.605	3.40	8.5	12.830	0.000	4.022	0.000	4.022	22	1.038	1.360	4.700	7.098	73
	41	Mahuar Project	Shivpuri	2014-15	31.03.2019	13.745	27.500	9.160	16.790	33.590	16.06	6.14	0	14.505	2.920	5.284	0.600	8.804	52	5.964	2.450	0.000	8.414	92
	42	Indira Sagar Project Canal Phase – IV (km. 206 to km. 243)	Khandwa, Khargone, Barwani	2015-16	.....	19.600	39.200	0.000	0.000	0.000	0.000	0.000	0.000	22.200	0.000	0.000	0.000	0.000	0	0.000	0	0	0.000	0
		Indira Sagar Project Canal Phase –V				33.140	66.300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0	0	0.000	0
	43	Omkareshwar Project Canal Phase-III (RBC km. 65.50 to km 142)	Khandwa,Khargone,Dhar	2015-16	31.03.2020	48.592	97.200	143.365	323.570	648.090	7.560	15.640	0.000	0.000	9.613	0.000	0.000	9.613	3	2.800	8.480	0.000	11.280	8
		Omkareshwar Project Canal Phase-II				14.238	28.500	0.000	0.000	0.000	0.000	0.000	0.000	23.200	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0
		Omkareshwar Project Canal Phase-IV				54.630	109.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0
	44	Bargi Diversion Project Phase - I(km. 16 to km 63)	Jabalpur	2017-18	31.03.2020	21.194	42.400	21.194	41.184	82.516	0.000	0.000	0.000	0.000	0.000	0.000	5.980	5.980	15	0.000	0.000	0.000	0.000	0
		Bargi Diversion Project Phase - II(km. 63 to km 104)	Jabalpur,Katani	2017-18	31.03.2020	31.899	63.800	31.899	60.868	121.987	0.000	0.000	0.000	0.000	0.000	0.000	8.960	8.960	15	0.000	0.000	0.000	0.000	0
		Bargi Diversion Project Phase - III				26.000	52.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0
		Bargi Diversion Project Phase - IV				34.000	68.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0
		Total				**810.599**	**1621.200**	**613.996**	**1307.738**	**2644.288**	**195.200**	**211.760**	**65.890**	0.000	**77.746**	**102.785**	**70.910**	**251.442**	**19**	**74.935**	**85.060**	**35.063**	**195.058**	**32**

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Table 2.4 : State-wise Status of Proposal on CAD&WM component for 99 Prioritized projects as on 01.04.2019

State	Sl. No.	Project Name	Districts Benefitted	Year of Inclution	Target Date of Completion*	As per Cabinet Note		As per DPR/MoU			Expenditure Progress				Financial Progress					Physical Progress				
						Balance CCA (Th. Ha)	Target CA (Rs. crore)	CCA (Th. Ha)	Target CA (Rs. Crore)	Total Cost (Rs. Crore)	Expenditure 2016-17	Expenditure 2017-18	Expenditure 2018-19	Total	CA released 2016-17	CA released 2017-18	CA released 2018-19	Total CA released	% Financial Progress	Pogress 2016-17	Pogress 2017-18	Pogress 2018-19 (Till June, 2018)	Total Physical CCA	% Physical Progress
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
	45	Waghur	Jalgaon	2016-17	31.03.2019	38.570	77.150	17.972	39.130	77.950	0.000	0.672	17.990	**0.000**	0.000	1.570	0.000	1.570	4	0.000	0.423	0.000	0.423	2
	46	Bawanthadi (IS)	Bhandara	2016-17	31.03.2019	27.708	55.400	2.500	8.239	15.630	0.000	0.300	0.000	18.662	0.000	0.520	0.000	0.520	6	0.000	0.800	0.000	0.800	32
	47	Lower Dudhna	Parbhani, Jalana	2016-17	31.03.2019	44.482	88.950	30.040	72.259	145.490	0.000	0.000	0.470	0.300	0.000	8.100	0.000	8.100	11	0.000	0.000	1.445	1.445	5
	48	Tillari	Sinsdhudurg	2016-17	31.03.2019	6.570	13.150	6.570	13.143	32.428	0.000	0.843	0.000	0.470	0.000	1.810	0.000	1.810	14	0.000	0.000	0.000	0.000	0
	49	Lower Wardha	Wardha	2016-17	31.03.2019	63.333	126.650	61.203	98.850	198.630	11.860	10.220	4.570	0.843	15.174	0.000	5.460	20.634	21	7.633	9.155	1.912	18.700	31
	50	Lower Panzara	Dhule	2016-17	31.03.2019	6.785	13.550	6.785	15.740	29.020	0.000	0.980	0.000	26.650	0.000	2.150	3.970	6.120	39	0.000	0.000	0.000	0.000	0
	51	NandurMadhmeshwarPh-II	Sindhudurg	2009-10	31.12.2019	20.500	41.000	23.116	49.330	98.500	0.000	1.580	0.000	0.980	0.000	0.000	0.000	0.000	0	0.000	0.790	0.000	0.790	3
	52	Gosikhurd (NP)	Nagpur, Bhandara, Chandrapur	2017-18	31.03.2022	250.800	501.600	176.107	354.095	743.725	0.000	0.000	0.000	1.580	0.000	0.000	9.380	9.380	3	0.000	0.000	0.000	0.000	0
	53	Upper Pen Ganga	Nanded, Hingoli, Yavatmal	2010-11	31.03.2020	40.252	80.500	17.289	34.830	69.620	0.000	6.320	1.000	0.000	0.000	3.001	0.000	3.001	9	0.000	1.093	0.660	1.753	10
Maharashtra	54	Bembla	Yavatmal	2017-18	31.12.2020	52.543	105.100	29.779	64.490	164.440	0.000	9.380	0.000	7.320	0.000	5.990	3.510	9.500	15	0.000	2.306	0.547	2.853	10
	55	Tarali	Satara	2017-18	31.12.2020	14.276	28.550	13.086	25.259	53.635	0.000	0.000	0.000	9.380	0.000	1.313	0.000	1.313	5	0.000	0.000	0.000	0.000	0
	56	Dhom Balkwadi	Pune and Satara	2010-11	31.03.2020	8.130	16.250	4.054	8.180	21.770	18.670	1.950	0.000	0.000	0.000	0.000	1.820	1.820	22	0.000	0.000	0.000	0.000	0
	57	Arjuna	Ratnagiri	2017-18	31.12.2019	5.704	11.400	5.704	11.189	28.940	0.000	0.000	0.000	20.620	0.000	0.807	0.000	0.807	7	0.000	0.000	0.000	0.000	0
	58	Upper Kundalika	Beed	2017-18	31.03.2019	2.800	5.600	2.800	5.600	14.629	0.000	0.000	0.000	0.000	0.000	0.520	0.000	0.520	9	0.000	0.000	0.000	0.000	0
	59	Aruna	Sindhudurg	2017-18	31.03.2020	9.027	18.050	5.310	9.602	20.259	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0
	60	Krishna Koyana Lift	Sangli.	2017-18	31.03.2020	104.167	208.350	52.824	67.385	132.688	0.000	0.000	0.000	0.000	0.000	3.815	0.000	3.815	6	0.000	0.000	0.000	0.000	0
	61	Gadnadi	Ratnagiri	2017-18	31.12.2019	3.473	6.950	3.111	6.103	19.129	0.000	0.000	0.000	0.000	0.000	0.0300	0.000	0.030	0	0.000	0.0000	0.0000	0.000	0
	62	Dongargaon	……			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0
	63	Sangola Branch Canal	Solapur	2017-18	31.03.2020	11.288	22.600	6.883	13.830	32.449	0.000	0.580	0.610	0.000	0.000	0.550	1.370	1.920	14	0.000	0.000	0.000	0.000	0
	64	Khadakpurna	Buldhana	2017-18	31.03.2020	23.864	47.750	15.720	31.300	79.421	0.000	0.440	0.950	1.190	0.000	2.650	0.000	2.650	8	0.000	1.990	0.240	2.230	14

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						Balance CCA (Th. Ha)	Target CA (Rs. crore)	CCA (Th. Ha)	Target CA (Rs. Crore)	Total Cost (Rs. Crore)	Expenditure 2016-17	Expenditure 2017-18	Expenditure 2018-19	Total	CA released 2016-17	CA released 2017-18	CA released 2018-19	Total CA released	% Financial Progress	Pogress 2016-17	Pogress 2017-18	Pogress 2018-19 (Till June, 2018)	Total Physical CCA	% Physical Progress
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
	65	Warna	……			0	0	0.000	0.000	0.000	0.000	0.000	0.000	1.390	0	0	0.000	0.000	0	0	0	0	0.000	0
	66	Morna (Gureghar)	**Satara**	**2017-18**	**31.03.2020**	3.075	6.150	4.229	8.163	16.796	0.000	0.000	0.000	0.000	0.000	0.000	0.280	0.280	3	0	0.000	0.000	0.000	0
	67	Lower Pedhi	**Amravati, Akola**	**2017-18**	**31.03.2020**	17.023	34.050	10.192	20.505	43.882	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0.000	0.000	0.000	0
	68	Wang project	……			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0.000	0.000	0.000	0
	69	Naradave(Mahammadwadi)	……			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0.000	0.000	0.000	0
	70	Kudali	**Satara**	**2017-18**	**31.03.2020**	5.327	10.650	5.327	10.703	26.758	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0.000	0.000	0.000	0
		Total				**759.697**	**1519.400**	**500.601**	**967.925**	**2065.789**	**30.530**	**33.265**	**25.590**	0.000	**15.174**	**32.826**	**25.790**	**73.790**	**8**	**7.633**	**16.557**	**4.804**	**28.994**	**6**
Manipur	71	Thoubal	Imphal, Senapati, Thoubal,Ukrul	2014-15	31.03.2017	22.750	45.500	9.839	32.932	65.850	0.000	0.000	0.000	**89.385**	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0
	72	Dolaithabi Barrage	Imphal, Senapati	2014-15	31.03.2017	6.240	12.500	3.223	11.426	21.704	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0
		Total				**28.990**	**58.000**	**13.062**	**44.358**	**87.553**	**0.000**	**0.000**	**0.000**	0.000	**0.000**	**0.000**	**0.000**	**0.000**	**0**	**0.000**	**0.000**	**0.000**	**0.000**	**0**
Odisha	73	Lower Indra(KBK)	Noapada	2015-16	31.03.2019	35.470	70.950	29.900	51.840	103.980	0.000	0.000	0.000	**0.000**	24.370	0.000	0.000	24.370	47	0.000	0.000	0.000	0.000	0
	74	Upper Indravati(KBK)	Kalahandi	2015-16	31.03.2018	52.448	104.900	23.834	44.032	140.265	43.430	65.838	0.000	0.000	8.495	30.828	0.000	39.323	89	7.993	14.450	4.749	27.192	114
	75	Rukura-Tribal	Kalahandi	2016-17	31.03.2018	7.648	15.300	5.750	10.210	31.630	4.820	13.450	2.559	109.268	2.410	0.802	0.000	3.213	31	1.377	2.880	0.681	4.938	86
	76	Subernarekha	Sundargarh	2016-17	31.12.2019	119.258	238.500	68.883	126.030	389.580	7.446	11.950	2.170	20.829	0.000	16.283	0.000	16.283	13	1.100	1.660	0.760	3.520	5
	77	Anandpur Barr. Ph.-I /Integrated Anandpur Barr.	Keonjhar, Bhadrak	2017-18	31.03.2020	8.880	17.750	60.000	101.570	334.370	0.000	2.080	1.570	21.566	0.000	**1.820**	0.000	1.820	2	0.000	**1.450**	**0.000**	1.450	2
	78	RET irrigation	Kalahandi	2016-17	31.12.2019	8.500	17.000	8.500	16.552	46.870	0.000	8.130	9.500	3.650	0.000	4.105	0.000	4.105	25	0.000	3.900	4.000	7.900	93
	79	Kanupur	Kaeonjhar	2016-17	31.12.2019	47.740	95.500	29.578	53.444	164.850	0.000	1.070	0.000	17.630	0.000	1.8915	3.650	5.542	10	0.000	0.000	0.000	0.000	0
	80	Telengiri	Koraput	2016-17	31.03.2019	13.829	27.650	9.952	16.722	54.510	0.000	0.900	0.700	1.070	0.000	2.8382	0.000	2.838	17	0.000	0.000	0.000	0.000	0
		Total				**308.934**	**617.900**	**239.507**	**448.035**	**1299.098**	**55.700**	**103.420**	**15.799**	1.070	**35.276**	**55.730**	**3.650**	**94.655**	**21**	**10.470**	**24.340**	**10.190**	**45.000**	**19**

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Table 2.4 : State-wise Status of Proposal on CAD&WM component for 99 Prioritized projects as on 01.04.2019

State	Sl. No.	Project Name	Districts Benefitted	Year of Inclution	Target Date of Completion*	As per Cabinet Note		As per DPR/MoU			Expenditure Progress				Financial Progress					Physical Progress				
						Balance CCA (Th. Ha)	Target CA (Rs. crore)	CCA (Th. Ha)	Target CA (Rs. Crore)	Total Cost (Rs. Crore)	Expenditure 2016-17	Expenditure 2017-18	Expenditure 2018-19	Total	CA released 2016-17	CA released 2017-18	CA released 2018-19	Total CA released	% Financial Progress	Pogress 2016-17	Pogress 2017-18	Pogress 2018-19 (Till June, 2018)	Total Physical CCA	% Physical Progress
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Punjab	81	Kandi Canal Extension (Ph.II)	…….			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	82	Rehabilitation of 1st Patiala Feeder and Kotla Branch Project	……			9.100	18.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Total				**9.100**	**18.200**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	0.000	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**
Rajasthan	83	Narmada Canal	Jalore & Barmer	2017-18	31.03.2019	0.000	0.000	0.000	54.060	97.480	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0
	84	Mod. of Gang Canal	Sriganganagar	2015-16	31.03.2019	45.694	91.400	44.875	61.240	123.010	10.440	12.990	0.000	0.000	0.000	2.479	7.430	9.909	16	6.863	7.224	3.913	18.000	40
		Total				**45.694**	**91.400**	**44.875**	**115.300**	**220.490**	**10.440**	**12.990**	**0.000**	23.430	**0.000**	**2.479**	**7.430**	**9.909**	**9**	**6.863**	**7.224**	**3.913**	**18.000**	**40**
Telangana	85	J. ChokhaRao LIS	Warangal, Nalgonda, Karimnagar, Medak	2016-17	31.03.2020	249.000	498	248.685	380.35	759.940	0	0	0	**23.430**	0	10.22	0	10.220	3	0	0	0	0.000	0
	86	SriKomaramBheem project	Komaram, Bheem Ashifabad	2017-18	31.03.2020	9.920	19.85	9.915	19.84	39.660	0	0	0	0	0	0	5.89	5.890	30	0	0	0	0.000	0
	87	Gollavagu Project	Mancherial	2016-17	31.03.2020	3.850	7.7	3.845	7.186	20.400	0	0	0	0	0	0	1.03	1.030	14	0	0	0	0.000	0
	88	Rallivagu project	Mancherial	2016-17	31.03.2019	2.430	4.85	0.918	1.47	5.570	0	0	0	0	0	0	0.280	0.280	19	0	0	0	0.000	0
	89	Mathadivagu Project	Adilabad	2016-17	31.03.2020	3.440	6.9	3.44	6.32	12.380	0	0	0	0	0	0	1.800	1.800	28	0	0	0	0.000	0
	90	Peddavagu @ Neelwai project	Mancherial	2016-17	31.03.2019	6.070	12.15	5.26	6.67	18.450	0	0	0	0	0	0	1.99	1.990	30	0	0	0	0.000	0
	91	Palemvagu project	Khammam	2016-17	31.03.2020	4.100	8.2	2.014	2.6	5.200	0	0	0	0	0	0	0.51	0.510	20	0	0	0	0.000	0
	92	Peddavagu @ Jagannathpur	Khammam, Bheem Ashifabad	2016-17	31.03.2019	6.070	12.15	6.073	12.2	52.550	0	0	0	0	0	0	0	0.000	0	0	0	0	0.000	0
	93	SRSP St.II	Warangal,Mahbubabad, Khammam, Suryapet, Jangaon	2016-17	31.03.2019	178.070	356.15	73.138	103.24	204.080	0	0	0	0	0	0	11.56	11.560	11	0	0	0	0.000	0
	94	Rajiv Bheema L.I. Scheme	Mahaboobnagar, Wanaparthy	2016-17	31.03.2019	82.153	164.3	82.153	114.81	245.270	0	0	0	0	0	0	0	0.000	0	0	0	0	0.000	0

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Table 2.4 : State-wise Status of Proposal on CAD&WM component for 99 Prioritized projects as on 01.04.2019

State	Sl. No.	Project Name	Districts Benefitted	Year of Inclution	Target Date of Completion*	As per Cabinet Note		As per DPR/MoU			Expenditure Progress				Financial Progress					Physical Progress				
						Balance CCA (Th. Ha)	Target CA (Rs. crore)	CCA (Th. Ha)	Target CA (Rs. Crore)	Total Cost (Rs. Crore)	Expenditure 2016-17	Expenditure 2017-18	Expenditure 2018-19	Total	CA released 2016-17	CA released 2017-18	CA released 2018-19	Total CA released	% Financial Progress	Pogress 2016-17	Pogress 2017-18	Pogress 2018-19 (Till June, 2018)	Total Physical CCA	% Physical Progress
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
	95	Indiramma Flood Flow Canal	Warangal	2016-17	31.03.2020	40.000	80	93.587	48.26	97.230	0	0	0	0	0	0	3.06	3.060	6	0	0	0	0.000	0
		Total				**585.103**	**1170.250**	**529.028**	**702.946**	**1460.730**	**0.000**	**0.000**	**0.000**	0	**0.000**	**10.220**	**26.120**	**36.340**	**5**	**0.000**	**0.000**	**0.000**	**0.000**	**0**
Uttar Pradesh	96	Arjunsahayak	Mahoba, Hamirpur	2017-18	31.03.2020	44.381	88.75	44.381	79.942	188.97	0	0	0	**0.000**	0	0	0	0.000	0	0.000	0.000		0.000	0.000
	97	SaryuNahar (NP)	Baharaich, Basti, Gonda, Shravasti, Balrampur,Sidharth Nagar, Sant Kabir Nagar	2017-18	31.03.2020	1312	2624	480.000	837.058	1672.696	0	0	0	0	0	0	0	0.000	0	0.000	0.000		0.000	0.000
	98	Bansagar				0	0	0	0	0	0	0	0	0	0	0	0	0.000	0	0.000	0.000		0.000	0.000
	99	Madhya Ganga				146.532	293.05	0	0	0	0	0	0	0	0	0	0	0.000	0	0.000	0.000		0.000	0.000
		Total				**1502.913**	**3005.800**	**524.381**	**917.000**	**1861.666**	**0.000**	**0.000**	**0.000**	0	**0.000**	**0.000**	**0.000**	**0.000**	**0**	**0.000**	**0.000**		**0.000**	**0.000**
		Grand Total				**5613**	**11226**	**3460.624**	**6277.797**	**14227.565**	**1523.670**	**1328.805**	**744.248**	**0.000**	**740.876**	**771.781**	**518.650**	**2031.307**	**32**	**413.098**	**330.227**	**259.357**	**1002.682**	**29**

Source : Ministry of Jal Shakti (CAD Wing.)

*** May change with revision of MoUs.**

Table 2.5 : State-wise and Plan-wise Financial Expenditure on Minor Irrigation - Institutional

(Rs. Crores)

Sl. No.	State/UT	IXth Plan	Xth Plan	XIth Plan	Year						
		(1997-02)	(2002-07)	(2007-2012)	(2012-13)	(2013-14)	(2014-15)	(2015-16)	(2016-17)	(2017-18)	(2018-19)
1	2	3	4	5	6	7	8	9	10	11	12
1	**Andhra Pradesh**	364.69	277.84	219.10	16.64	31.61	21.99	46.16	47.78	34.94	37.02
2	**Arunachal Pradesh**	0.00	0.30	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	**Assam**	0.02	1.72	2.85	0.01	0.93	0.16	0.04	0.00	0.00	0.00
4	**Bihar**	12.92	283.58	85.68	46.57	17.89	25.55	43.44	34.99	80.84	0.09
5	**Chhattisgarh**	Included in M.P.	40.97	13.15	14.82	2.69	21.10	7.39	1.96	7.59	2.59
6	**Goa**	0.94	0.18	0.06	0.00	0.02	0.00	0.07	0.00	0.00	0.00
7	**Gujarat**	40.46	148.73	212.25	82.44	109.10	110.53	189.73	136.44	90.69	91.59
8	**Haryana**	183.90	168.88	638.08	67.37	26.95	49.21	72.52	57.33	71.43	19.71
9	**Himachal Pradesh**	113.10	21.25	19.80	0.00	4.03	6.01	0.00	0.00	0.00	10.81
10	**Jammu & Kashmir**	0.51	0.08	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00
11	**Jharkhand**	Included in Bihar	1.82	4.47	1.90	0.00	0.32	1.06	1.67	0.00	0.02
12	**Karnataka**	127.43	235.73	417.66	85.62	62.80	297.93	12.08	5.03	339.03	256.34
13	**Kerala**	92.59	73.65	159.48	118.79	6.31	63.78	143.21	76.03	74.18	45.23
14	**Madhya Pradesh**	146.29	368.52	199.32	13.85	11.70	19.80	82.84	11.18	6.08	18.54
15	**Maharashtra**	102.16	277.57	97.08	206.48	118.35	183.96	262.72	317.75	486.33	302.27
16	**Manipur**	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	**Meghalya**	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	**Mizoram**	0.11	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	**Nagaland**	0.00	0.00	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	**Odisha**	1.24	21.64	7.34	8.39	0.05	5.61	9.33	2.41	0.01	0.03
21	**Punjab**	197.80	275.91	307.34	31.94	25.91	59.29	74.57	62.63	22.45	21.78
22	**Rajasthan**	363.74	252.79	175.87	10.21	66.84	95.16	81.64	20.94	74.54	9.67
23	**Sikkim**	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	**Tamil Nadu**	15.72	54.49	102.43	32.45	25.30	148.51	109.47	168.81	188.58	180.03
25	**Tripura**	0.09	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	**Uttarakhand**	Included in U.P.	0.08	0.34	0.00	0.00	0.00	0.00	0.03	0.00	0.01
27	**Uttar Pradesh**	884.08	754.70	390.80	0.44	6.07	38.24	21.65	199.90	14.32	28.08
28	**West Bengal**	11.85	13.98	4.19	0.33	1.32	0.01	5.10	0.04	0.04	0.03
29	**Telangana**	Included in Andhra Pradesh								21.66	11.49
	Total States	**2659.64**	**3255.09**	**3058.39**	**738.26**	**517.87**	**1147.17**	**1163.02**	**1144.91**	**1512.73**	**1035.33**
30	**A & N Islands**	-	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	**Chandigarh**	-	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	**Dadar & N. Haveli**	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	**Daman & Diu**	-	0.00	0.00	0.00	included in Goa				0.00	0.00
34	**Delhi**	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
35	**Puducherry**	-	2.19	0.19	0.99	0.00	0.00	0.08	0.01	0.00	0.08
36	**Lakshadweep**	-	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total UTs.		**2.00**	**2.26**	**0.27**	**0.00**	**0.00**	**0.00**	**0.08**	**0.01**	0.00	0.15
Grand Total		**2661.64**	**3257.35**	**3058.66**	**739.25**	**517.87**	**1147.17**	**1163.10**	**1142.92**	**1512.73**	**1035.48**

Source: M/o Jal Shakti, D/o WR, RD & GR (Minor Irrigation (Stat) Wing/ NABARD

Note : Total may not tally due to rounding off.

Table 2.6 : Fund Released to States for the Water Bodies included during XII Plan & onwards under RRR of Water Bodies Scheme as on 31.07.2019

(Rs. in Crore)

Sl. No.	Name of State	No. of Water Bodies Included	Estimated Cost	Committed Central Share (CA)	Potential Planned (Ha)	Targeted Storage Revival (MCM)	Cummulative CA Released during XII Plan Till 03/18	CA Released during 2018-19	CA Released during 2019-20 till 7/2019	Cumulative CA Released during XII Plan & onwards till 7/2019	Cumulative Expenditure till 7/2019	No. of Completed Water Bodies till 07/2019	Potential Resotred (Ha)	Storage Revived (MCM)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	**Andhra Pradesh**	100	66.77	40.06	5600.00	40.98		2.70		2.70				
2	**Bihar**	27	64.93	31.28	10112.00	247.45		6.26		6.26				
3	**Gujarat**	61	102.90	61.74	11364.00	0.10		8.81		8.81				
4	**Madhya Pradesh**	125	183.24	93.01	33305.00	438.35	37.70			37.70	149.66	121.00	25000.00	438.38
5	**Manipur**	4	65.44	58.90	1197.00	6.28	10.37			10.37	14.97			2.04
6	**Meghalaya**	9	11.43	10.29	1096.00	0.47	5.18			5.18	5.51	4.00	849.00	0.36
7	**Odisha**	863	449.03	267.94	51262.00	58.08	110.65			110.65	306.89	734.00	44500.00	20.57
8	**Rajasthan**	68	187.82	86.74	13198.00	12.64	50.23			50.23	106.16	52.00	10200.00	11.52
9	**Tamil Nadu**	153	77.75	46.50	3798.00	3.83	9.22	7.03		16.25	47.44	104.00		
10	**Telangana**	575	459.18	272.02	29011.00	56.22	104.56			104.56	94.51	239.00	8273.00	24.61
11	**Uttar Pradesh**	74	83.41	52.99	3447.00	42.24	16.41			16.41	37.08			
12	**Uttarakhand**	5	12.49	11.24	450.00	2.27					1.41		450.00	
Total		**2064**	**1764.39**	**1032.70**	**163840.00**	**908.91**	**344.32**	**24.80**		**369.11**	**763.63**	**1254.00**	**89272.00**	**497.48**

Source : Economic Directorate, CWC

Table 2.7: States/UTs - wise Water Rates for Flow Irrigation

Sl. No.	States/UTs	For Irrigation Purposes Flow Irrigation	
		Rate (Rs./Ha)	Date since Applicable
1	2	3	4
1	Andhra Pradesh	148.20 to 864.50	07-01-1996
2	Arunachal Pradesh	No water rates	
3	Assam	150.00 to 751.00	30-03-2000
4	Bihar	74.10 to 370.50	Nov-2011
5	Chhattisgarh	123.50 to 741.00	15-06-1999
6	Delhi	34.03 to 148.20	2009
7	Goa	72.00 to 360.00	1/4/2013
8	Gujarat	160.00 to 300	01-01-2007
9	Haryana	24.70 to197.60	27/07/2000
10	Himachal Pradesh	49.92	04-01-2015
11	Jammu & Kashmir	121.03 to 298.87	04-01-2015
12	Jharkhand	74.10 to 370.50	26/11/2001
13	Karnataka	37.00 to 99.00	13/7/2000
14	Kerala	37.00 to 988.40	18/09/1974
15	Madhya Pradesh	50.00 to 960.00	31/12/2005
16	Maharashtra	119.00 to 6297.00	07-01-2003
17	Manipur	184.00 to 602.00	24/8/2013
18	Meghalaya	No water rates	
19	Mizoram	No water rates	
20	Nagaland	No water rates	
21	Odisha	60.00 to 930.00	04-05-2002
22	Punjab	123.50	12/11/2014
23	Rajasthan	29.64 to 286.52	24/5/1999
24	Sikkim	10.00 to 250.00	2002
25	Tamil Nadu	2.77 to 61.78	11-06-1987
26	Tripura	312.50	10-01-2003
27	Uttarakhand	30.00 to 474.00	18/9/1995
28	Uttar Pradesh	30.00 to 474.00	18/9/1995
29	West Bengal	37.06 to123.50	1/7/2003
30	A & N Islands	No water rates	
31	Chandigarh	Not Available	
32	Dadra & Nagar Haveli	110.00 to 830.00	29/1/1996
33	Daman & Diu	286	2007
34	Lakshadweep	No water rates	
35	Puducherry	Not Available	

Source: Hydrology Data Directorate, ISO, Central Water Commission

Table 2.8 : States/UTs - wise Water Rates for Lift Irrigation

Sl No.	States/UTs	For Irrigation Purposes Lift Irrigation	
		Rate (Rs./Ha)	Date since Applicable
1	2	3	4
1	Andhra Pradesh	Not Available	
2	Arunachal Pradesh	No water rates	
3	Assam	150.00 to 751.00	30/03/2000
4	Bihar	Not Available	Nov-2011
5	Chhattisgarh	123.50 to 741.00	15/6/1999
6	Delhi	33.35 to 148.20	2009
7	Goa	144.00 to 720.00	04-01-2013
8	Gujarat	53.33 to 100.00	01-01-2007
9	Haryana	12.35 to 98.80	27/7/2000
10	Himachal Pradesh	99.81	04-01-2015
11	Jammu & Kashmir	298.87 to 2998.58	04-01-2015
12	Jharkhand	74.10 to 370.50	26/11/2001
13	Karnataka	74.00 to 1976.80	13/7/2000
14	Kerala	93.00 to 148.50	18/9/1974
15	Madhya Pradesh	50.00 to 960.00	31/12/2005
16	Maharashtra	20.00 to 5405.00	07-01-2003
17	Manipur	184.00 to 602.00	24/8/2013
18	Meghalaya	No water rates	
19	Mizoram	No water rates	
20	Nagaland	No water rates	
21	Odisha	Not Available	04-05-2002
22	Punjab	123.50	12/11/2014
23	Rajasthan	14.82 to 573.04	24/5/1999
24	Sikkim	Not Available	2002
25	Tamil Nadu	Not Available	6/11/1987
26	Tripura	312.50	10-01-2003
27	Uttarakhand	15.00 to 237.00	18/9/1995
28	Uttar Pradesh	15.00 to 237.00	18/9/1995
29	West Bengal	251.94 to 2015.52	07-01-2003
30	A & N Islands	No water rates	
31	Chandigarh*	Not Available	
32	Dadra & Nagar Haveli	75.00 to 275.00	29/1/1996
33	Daman & Diu	286	2007
34	Lakshadweep	No water rates	
35	Puducherry	Not Available	

Source: Hydrology Data Directorate, ISO, Central Water Commission

* : In Rural areas of Chandigarh the Water Rates for irrigation purpose is Rs. 23/- per hour w.e.f. 01.01.2010

Chapter 3
Environmental Performance

This chapter presents information regarding environmental aspects of water resources development activities. It includes data on degraded land and it's distribution according to various problems, flood damages, analysis of total damage and the performance of flood forecasting network.

3.1 Land Degradation

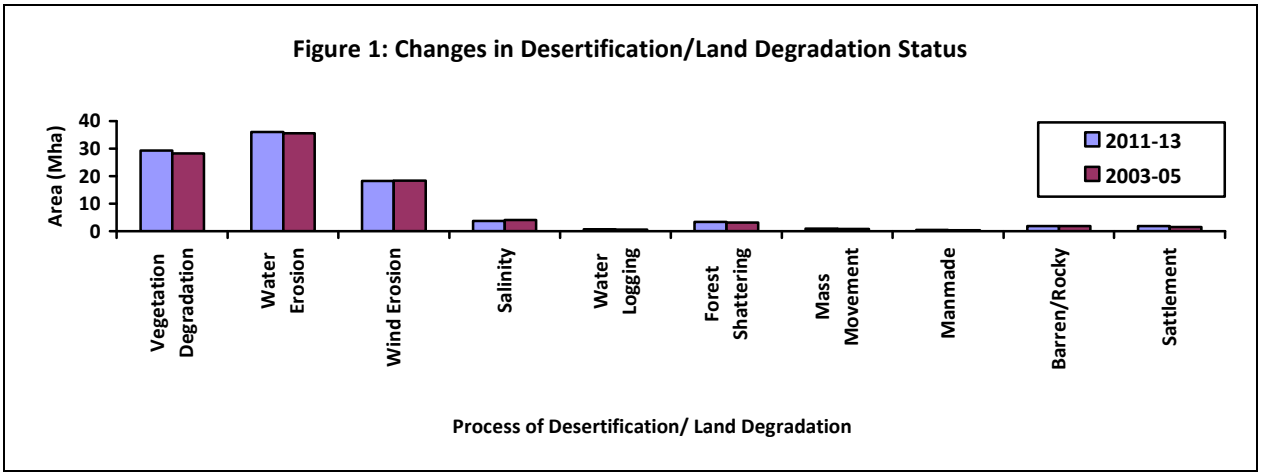
The analysis given in 'Desertification and Land Degradation Atlas of India' by Indian Space Research Organisation (ISRO), sponsored by the Ministry of Environment, Forest and Climate Change reveals that 96.40 Mha area of the country is undergoing process of land degradation i.e., 29.32% of the Total Geographic Area (TGA) of the country during 2011-13, while during 2003-05 the area undergoing process of land degradation was 94.53 Mha (28.76% of the TGA).

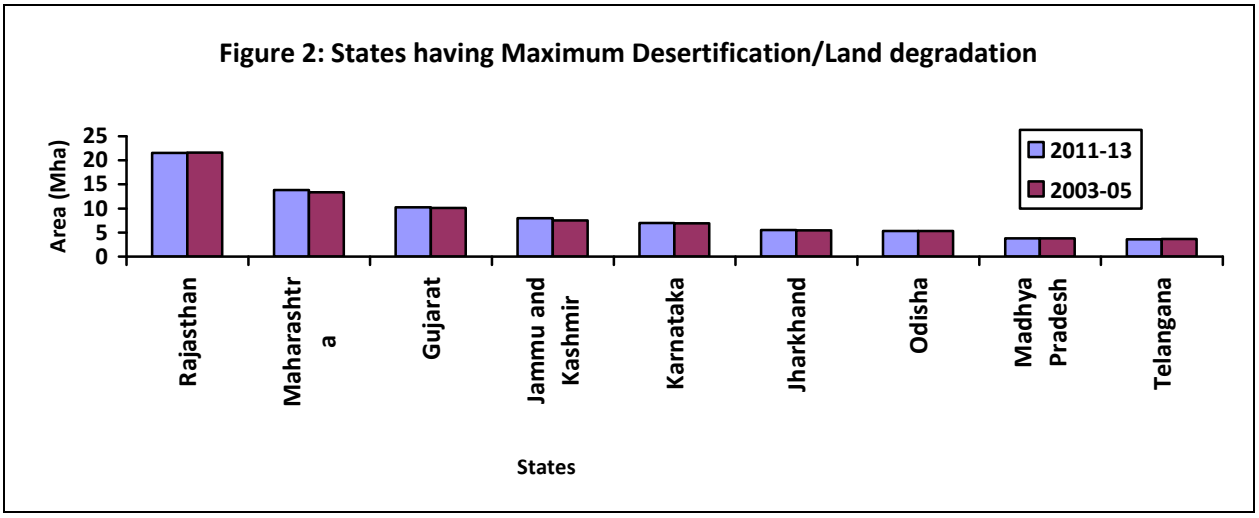
Table T1: Changes in Desertification/Land Degradation Status

Process of Desertification/ Land Degradation	2011-13		2003-05	
	Area (Mha)	Area (%)	Area (Mha)	Area (%)
Vegetation Degradation	29.30	8.91	28.28	8.60
Water Erosion	36.10	10.98	35.61	10.83
Wind Erosion	18.23	5.55	18.35	5.58
Salinity	3.67	1.12	4.01	1.22
Water Logging	0.65	0.20	0.60	0.18
Forest Shattering	3.34	1.02	3.11	0.95
Mass Movement	0.93	0.28	0.84	0.26
Manmade	0.41	0.12	0.37	0.11
Barren/Rocky	1.89	0.57	1.88	0.57
Sattlement	1.88	0.57	1.48	0.45
Total Area under Desertification	**96.40**	**29.32**	**94.53**	**28.76**
Total Geographical Area (Mha)		**328.72**		

Source: ISRO, Desertification and Land Degradation Atlas of India

The analysis shows that around 23.95% (2011-13) and 23.64% (2003-05) of desertification/land degradation with respect to TGA is contributed by Rajasthan, Maharashtra, Gujarat, Jammu & Kashmir, Karnataka, Jharkhand, Odisha, Madhya Pradesh and Telangana in descending order. All other remaining States are contributing less than 1% (individually) of desertification/ land degradation (Table T2).





The most significant process of desertification/ land degradation in the country is Water Erosion (10.98% in 2011-13 and 10.83% in 2003-05). The second most significant process is Vegetation Degradation (8.91% in 2011-13 and 8.60% in 2003-05), which is followed by Wind Erosion (5.55 % in 2011-13 and 5.58 % in 2003-05) (Table T1). At State level, Water Erosion is the most significant process of desertification/ land degradation in Maharashtra, Karnataka, Odisha, Jharkhand, Gujarat, Telangana, Rajasthan, West Bengal and Madhya Pradesh (Table T2).

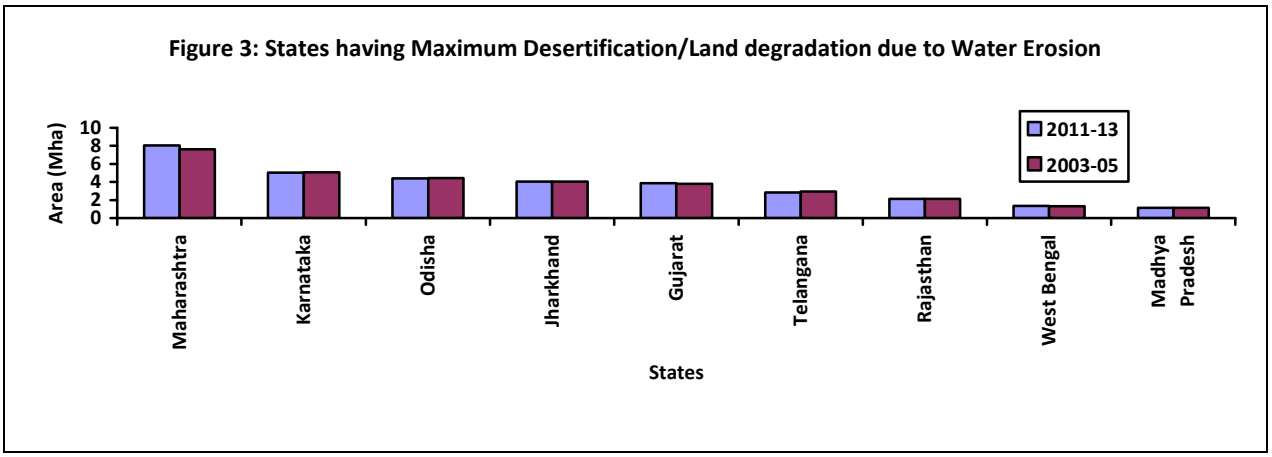


Table T2 : State-wise status of Desertification/Land Degradation							
State	Geographical Area of States (ha)	Area under Desertification due to Water Erosion (ha)		Total Area under Desertification (ha)		Total Area under Desertification (%)	
		2011-13	2003-05	2011-13	2003-05	2011-13	2003-05
Andhra Pradesh	16020500	789433	783830	2298758	2267728	14.35	14.16
Arunachal Pradesh	8374300	0	0	153933	136686	1.84	1.63
Assam	7843800	31424	31424	716596	572215	9.14	7.30
Bihar	9416300	321175	304364	694809	659539	7.38	7.00
Chhattisgarh	13519200	783645	770387	2211153	2176388	16.36	16.10
Delhi	148300	0	0	89868	73514	60.60	49.57
Goa	370200	33889	33892	192973	186458	52.13	50.37
Gujarat	19624400	3859497	3788099	10261641	10077455	52.29	51.35
Haryana	4421200	13568	13568	338964	314583	7.67	7.12
Himachal Pradesh	5567300	268261	233990	2394240	2141366	43.01	38.46
Jammu and Kashmir	22223600	146932	110222	7969607	7538814	35.86	33.92
Jharkhand	7971600	4036785	4037261	5498726	5418657	68.98	67.97
Karnataka	19179100	5043041	5059629	6951000	6940943	36.24	36.19
Kerala	3885200	0	0	379587	370512	9.77	9.54
Madhya Pradesh	30825200	1125418	1120221	3804315	3771853	12.34	12.24
Maharashtra	30771300	8060753	7622800	13825935	13348604	44.93	43.38
Manipur	2232700	8070	8070	601959	593093	26.96	26.56
Meghalaya	2242900	53149	54046	494880	478825	22.06	21.35
Mizoram	2108100	8119	7444	187453	95873	8.89	4.55
Nagaland	1657900	0	0	786678	642304	47.45	38.74
Odisha	15570700	4409413	4442556	5304114	5321903	34.06	34.18
Punjab	5036200	14116	1897	144653	93115	2.87	1.85
Rajasthan	34223900	2116314	2116082	21526512	21625604	62.90	63.19
Sikkim	709600	0	0	78749	78482	11.10	11.06
Tamil Nadu	13006000	6411	6411	1543898	1516660	11.87	11.66
Telangana	11484000	2854285	2951871	3598856	3658482	31.34	31.86
Tripura	1048600	186900	189533	437128	327302	41.69	31.21
Uttar Pradesh	24092800	586961	610989	1528997	1835263	6.35	7.62
Uttarakhand	5348300	11943	11943	648253	581241	12.12	10.87
West Bengal	8875200	1329539	1299542	1733931	1682181	19.54	18.95
Total	**328726300**	**36099042**	**35610069**	**96398166**	**94525643**	**29.32**	**28.76**

Source: ISRO, Desertification and Land Degradation Atlas of India

3.2 Flood

Floods are one of the most devastating natural calamities, which have been causing extensive damage to life and property besides perpetrating tremendous suffering. Since flood is a natural phenomenon, it is usually difficult to predict a definite trend especially with regard to the time and place of its occurrence. As such, the effort usually is to take appropriate advance flood protection measures. Area affected by floods was 2.29 Mha in 1953 and 4.92 Mha in 2018 (estimated) which was (17.50 Mha) at peak during 1978. The damage to crops was in the wide range varying from Rs. 5.87 Cr in 1965 to Rs.17,043.95 Cr in 2015. Floods also caused damages to crops worth Rs 3,241.96 Cr in 2018 (estimated). In addition, there was a great loss of human lives and livestock often affecting the poor strata of the population. Taking into consideration the other factors such as serious disruption and massive health rehabilitation measures needed, the loss could indeed be tremendous. The total damage caused by floods is estimated to the tune of Rs. 96,806.75 Cr during 2018 (Appendix table no.-3.1).

Table T3: Flood Damages in India								
Year	Area affected (Mha)	Population affected (Millions)	Damage to crops (Rs. Crores	Damage to houses (Rs. Crores)	Damage to public utilities (Rs. Crores)	Cattle lost Nos. ('000)	Human Life Lost (No.)	Total damages to crops, houses and public utilities (Rs. Crores)
2018*	4.92	79.74	3241.96	2134.59	91430.20	57904	1880	96806.75
Maximum	17.50	79.74	17043.95	10809.80	91430.20	618248	11316	96806.75
Year when maximum loss/damage occurred	1978	2018	2015	2009	2018	1979	1977	2018
Source: Flood Forecasting Management Directorate, CWC * Tentative								

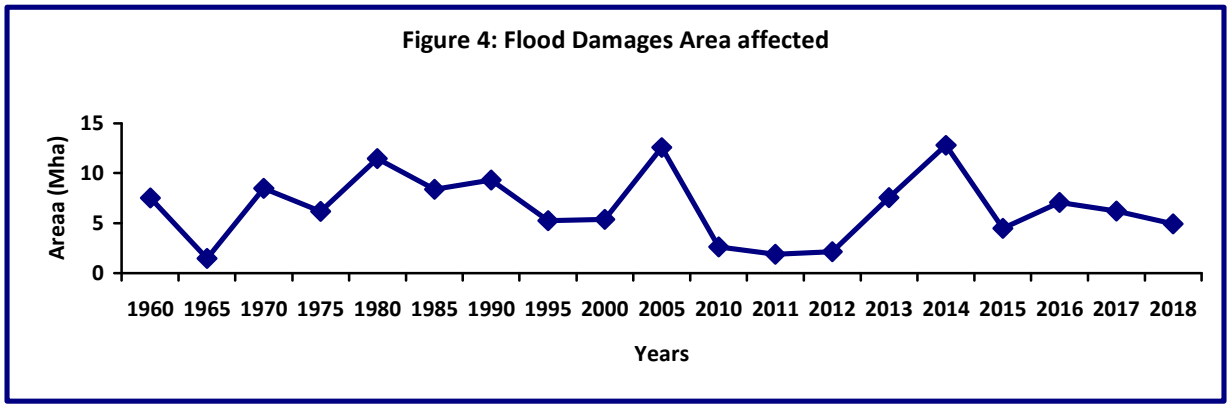


Table T4: Flood Forecasting Performance			
Year	**Total No. of Forecasts issued**	**Within +/-15 cm or +/-20% cumec of deviation from actual**	**Percentage of accuracy**
2000	6443	6251	97.02
2001	5463	5342	97.79
2002	4241	4151	97.88
2003	6600	6375	96.59
2004	4889	4696	96.05
2005	5618	5423	96.53
2006	6663	6377	95.71
2007	8223	7990	97.17
2008	6691	6554	97.95
2009	4010	3927	97.93
2010	7519	7378	98.12
2011	5991	5904	98.55
2012	5031	4939	98.17
2013	7060	6760	95.75
2014	4772	4667	97.80
2015	4072	3991	98.01
2016	6239	5948	95.34
2017	6297	5901	93.71
2018	6851	6495	94.80
Source: Flood Forecasting Management Directorate, CWC			

Flood forecasting is one of the most important non-structural methods of flood control in which there has been significant contribution by CWC. Network performance for the flood season 2018 (6495 accurate forecasts out of 6851 issued) has been successful. 94.80% of forecasts were correct within +/-15cm or +/-20% cumec. Over the years, the percentage of forecasts accuracy has been maintained at an average of 97% (Appendix table no.- 3.5).

3.3 Water Requirement

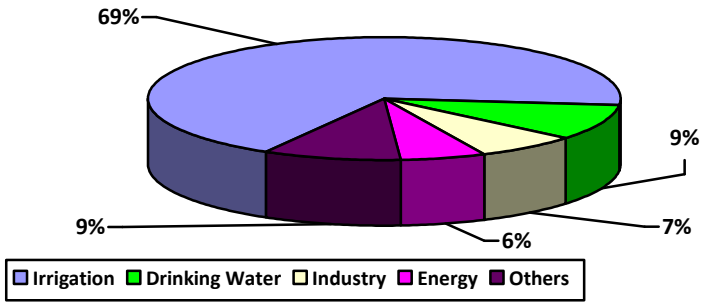
The requirement of fresh water both for irrigation and other uses is growing continuously. The requirement of water for various sectors has been assessed by the National Commission on Integrated Water Resources Development (NCIWRD) in the year 2000. This requirement is based on the assumption that irrigation efficiency will increase to 60% from the current level of 35-40%. The following table T5 indicates the projected water demand in India for different sectors.

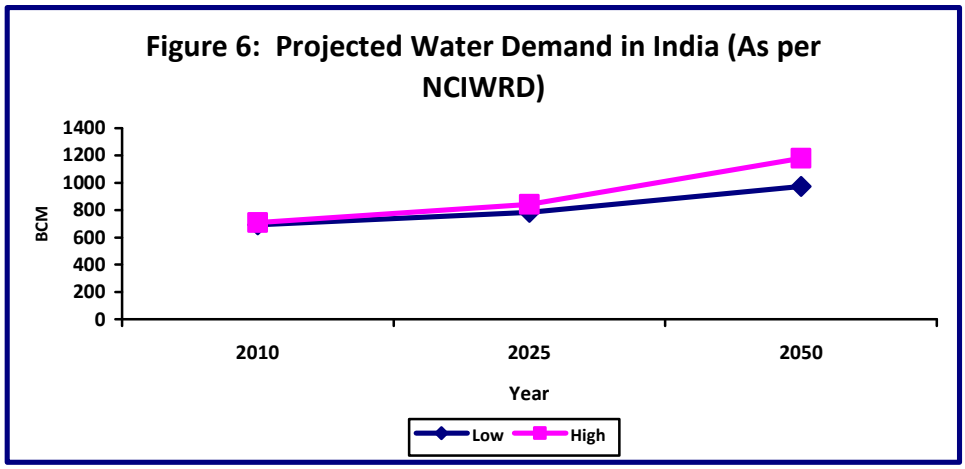
Table T5: Projected Water Demand in India (By Different Use)

Sector	Water Demand in Km^3 (or BCM)								
	Standing Sub-Committee of M/o Jal Shakti			NCIWRD					
	2010	2025	2050	2010		2025		2050	
				Low	High	Low	High	Low	High
Irrigation	688	910	1072	543	557	561	611	628	807
Drinking Water	56	73	102	42	43	55	62	90	111
Industry	12	23	6	37	37	67	67	81	81
Energy	5	15	130	18	19	31	33	63	70
Other	52	72	8	54	54	70	70	111	111
Total	**813**	**1093**	**1447**	**694**	**710**	**784**	**843**	**973**	**1180**

Source: Basin Planning Directorate, CWC, XI Plan Document.
Report of the Standing Sub-Committee on "Assessment of Availability & Requirement of Water for Diverse uses in the Country-2000"
Note: NCIWRD: National Commission on Integrated Water Resources Development (NCIWRD-1999)

Figure 5: Estimated Sector wise High Demand in India during 2050 (As per NCIWRD)





The Standing Committee of M/o Jal Shakti also assesses it periodically. The total water demand for all the uses is likely to be 1,180 BCM by 2050 as per NCIWRD. Though major share of this would be consumed for irrigation purposes, this in no way undermines importance of providing portable drinking water. Infact, it may be presumed that drinking water provision would have to be given an added thrust since the lack of such facility is likely to entail serious social, economic and health impact.

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Appendix

Table 3.1 : Flood Damage during 1953 to 2018

Sl. No.	Year	Area affected in Mha	Population affected in Million	Damage to Crops		Damage to Houses		Cattle Lost	Human live Lost	Damage to Public Utilities in Rs. Crore	Total damages Crops, Houses & Public utilities in Rs. Crore (Col.6+8+11)
				Area in Mha	Value in Rs. Crore	Nos.	Value in Rs. Crore	Nos.	Nos.		
1	2	3	4	5	6	7	8	9	10	11	12
1	1953	2.29	24.28	0.93	42.08	264924	7.42	47034	37	2.90	52.40
2	1954	7.49	12.92	2.61	40.52	199984	6.56	22552	279	10.15	57.23
3	1955	9.44	25.27	5.31	77.80	1666789	20.95	72010	865	3.98	102.73
4	1956	9.24	14.57	1.11	44.44	725776	8.05	16108	462	1.14	53.63
5	1957	4.86	6.76	0.45	14.12	318149	4.98	7433	352	4.27	23.37
6	1958	6.26	10.98	1.40	38.28	382251	3.90	18439	389	1.79	43.97
7	1959	5.77	14.52	1.54	56.76	648821	9.42	72691	619	20.02	86.20
8	1960	7.53	8.35	2.27	42.55	609884	14.31	13908	510	6.31	63.17
9	1961	6.56	9.26	1.97	24.04	533465	0.89	15916	1374	6.44	31.37
10	1962	6.12	15.46	3.39	83.18	513785	10.66	37633	348	1.05	94.89
11	1963	3.49	10.93	2.05	30.17	420554	3.70	4572	432	2.74	36.61
12	1964	4.90	13.78	2.49	56.87	255558	4.59	4956	690	5.15	66.61
13	1965	1.46	3.61	0.27	5.87	112957	0.20	7286	79	1.07	7.14
14	1966	4.74	14.40	2.16	80.15	217269	2.54	9071	180	5.74	88.43
15	1967	7.12	20.46	3.27	133.31	567995	14.26	5827	355	7.86	155.43
16	1968	7.15	21.17	2.62	144.61	682704	41.11	130305	3497	25.37	211.10
17	1969	6.20	33.22	2.91	281.90	1268660	54.42	270328	1408	68.11	404.44
18	1970	8.46	31.83	4.91	162.78	1434030	48.61	19198	1076	76.44	287.83
19	1971	13.25	59.74	6.24	423.13	2428031	80.24	12866	994	129.11	632.48
20	1972	4.10	26.69	2.45	98.56	897301	12.46	58231	544	47.17	158.19
21	1973	11.79	64.08	3.73	428.03	869797	52.48	261016	1349	88.49	569.00
22	1974	6.70	29.45	3.33	411.64	746709	72.43	16846	387	84.94	569.02
23	1975	6.17	31.36	3.85	271.49	803705	34.10	17345	686	166.05	471.64
24	1976	11.91	50.46	6.04	595.03	1745501	92.16	80062	1373	201.50	888.69
25	1977	11.46	49.43	6.84	720.61	1661625	152.29	556326	11316	328.95	1201.85
26	1978	17.50	70.45	9.96	911.09	3507542	167.57	239174	3396	376.10	1454.76

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Table 3.1 : Flood Damage during 1953 to 2018

Sl. No.	Year	Area affected in Mha	Population affected in Million	Damage to Crops		Damage to Houses		Cattle Lost	Human live Lost	Damage to Public Utilities in Rs. Crore	Total damages Crops, Houses & Public utilities in Rs. Crore (Col.6+8+11)
				Area in Mha	Value in Rs. Crore	Nos.	Value in Rs. Crore	Nos.	Nos.		
1	2	3	4	5	6	7	8	9	10	11	12
27	1979	3.99	19.52	2.17	169.97	1328712	210.61	618248	3637	233.63	614.20
28	1980	11.46	54.12	5.55	366.37	2533142	170.85	59173	1913	303.28	840.50
29	1981	6.12	32.49	3.27	524.56	912557	159.63	82248	1376	512.31	1196.50
30	1982	8.87	56.01	5.00	589.40	2397365	383.87	246750	1573	671.61	1644.88
31	1983	9.02	61.03	3.29	1285.85	2393722	332.33	153095	2378	873.43	2491.61
32	1984	10.71	54.55	5.19	906.09	1763603	181.31	141314	1661	818.16	1905.56
33	1985	8.38	59.59	4.65	1425.37	2449878	583.86	43008	1804	2050.04	4059.27
34	1986	8.81	55.50	4.58	1231.58	2049277	534.41	60450	1200	1982.54	3748.53
35	1987	8.89	48.34	4.94	1154.64	2919380	464.49	128638	1835	950.59	2569.72
36	1988	16.29	59.55	10.15	2510.90	2276533	741.60	150996	4252	1377.80	4630.30
37	1989	8.06	34.15	3.01	956.74	782340	149.82	75176	1718	1298.77	2405.33
38	1990	9.30	40.26	3.18	695.61	1019930	213.73	134154	1855	455.27	1364.61
39	1991	6.36	33.89	2.70	579.02	1134410	180.42	41090	1187	728.89	1488.33
40	1992	2.65	19.26	1.75	1027.58	687489	306.28	78669	1533	2010.67	3344.53
41	1993	11.44	30.41	3.21	1308.63	1926049	528.32	211193	2864	1445.53	3282.49
42	1994	4.81	27.55	3.96	888.62	914664	165.21	52315	2078	740.76	1794.59
43	1995	5.25	35.93	3.25	1714.79	2001898	1307.89	62438	1814	679.63	3702.31
44	1996	8.05	44.73	3.83	1124.49	726799	176.59	73208	1803	861.39	2162.47
45	1997	4.57	29.66	2.26	692.74	505128	152.50	27754	1402	1985.93	2831.18
46	1998	10.85	47.44	7.50	2594.17	1932874	1108.78	107098	2889	5157.77	8860.72
47	1999	7.77	27.99	1.75	1850.87	1613260	1299.06	91289	745	462.83	3612.76
48	2000	5.38	45.01	3.58	4246.62	2628855	680.94	123252	2606	3936.98	8864.54
49	2001	6.18	26.46	3.96	688.48	716187	816.47	32704	1444	5604.46	7109.42
50	2002	7.09	26.32	2.19	913.09	762492	599.37	21533	1001	1062.08	2574.54
51	2003	6.12	43.20	4.27	7307.23	775379	756.48	15161	2166	3262.15	11325.87
52	2004	5.31	43.73	2.89	778.69	1664388	879.60	134106	1813	1656.09	3314.38

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Table 3.1 : Flood Damage during 1953 to 2018

Sl. No.	Year	Area affected in Mha	Population affected in Million	Damage to Crops		Damage to Houses		Cattle Lost	Human live Lost	Damage to Public Utilities in Rs. Crore	Total damages Crops, Houses & Public utilities in Rs. Crore (Col.6+8+11)
				Area in Mha	Value in Rs. Crore	Nos.	Value in Rs. Crore	Nos.	Nos.		
1	2	3	4	5	6	7	8	9	10	11	12
53	**2005**	12.56	22.93	12.30	2370.92	715749	380.53	119674	1455	4688.22	7439.67
54	**2006**	1.10	25.22	1.82	2850.67	1497428	3636.85	266945	1431	13303.93	19791.44
55	**2007**	7.14	41.40	8.79	3121.53	3280233	2113.11	89337	3389	8049.04	13283.68
56	**2008**	3.43	29.91	3.19	3401.56	1566809	1141.89	101780	2876	5046.48	9589.94
57	**2009**	3.84	29.54	3.59	4232.61	1235628	10809.80	63383	1513	17509.35	32551.76
58	**2010**	2.62	18.30	4.99	5887.38	293830	875.95	39706	1582	12757.25	19520.59
59	**2011**	1.90	15.97	2.72	1393.85	1152518	410.48	35982	1761	6053.57	7857.89
60	**2012**	2.14	14.69	1.95	1534.11	174526	240.57	31558	933	9169.97	10944.65
61	**2013**	7.55	25.93	7.48	6378.08	699525	2032.83	163958	2180	38937.84	47348.75
62	**2014**	12.78	26.51	8.01	7255.15	311325	581.98	60196	1968	7710.95	15548.08
63	**2015**	4.48	33.20	3.37	17043.95	3959191	8046.97	45597	1420	32200.18	57291.10
64	**2016**	7.06	26.55	6.66	4052.72	278240	114.68	22367	1420	1507.93	5675.33
65	**2017**	6.19	47.01	5.09	8761.40	1221214	9271.94	23820	2060	8362.49	26395.82
66	**2018***	4.92	79.74	2.13	3241.96	500894	2134.59	57904	1880	91430.20	96806.75
	Total	**471.37**	**2167.01**	**258.26**	**114277.00**	**81187187**	**55796.87**	**6104400**	**109412**	**299522.84**	**469596.71**
	Avg.	7.14	32.83	3.91	1731.47	1230109	845.41	92491	1658	4538.22	7115.10
	Max	17.50	79.74	12.30	17043.95	3959191	10809.80	618248	11316	91430.20	96806.75
	Year	1978	2018	2005	2015	2015	2009	1979	1977	2018	2018

Source : FFM Directorate, CWC

Note : * Tentative

Table 3.2 : State-wise Damage due to Flood during 2018*

Sl. No.	Name of State	Area affected in Mha	Population affected in Million	Damage to Crops		Damage to Houses		Cattle lost Nos.	Human lives lost Nos.	Damage to Public Utilities (Rs. In Crore)	Total Damages Crops,House, & Public Utilities (Rs. In Crore)
				Area in Mha	Value in Rs. Crore	Nos.	Value in Rs. Crore				
1	2	3	4	5	6	7	8	9	10	11	12
1	Andhra Pradesh										0.00
2	Arunachal Pradesh	0.74		0.74	462.92	1647.00	589.95	47.00	33.00	86096.33	87149.19
3	Assam	0.04	1.32	0.04		6277.00		193.00	53.00		0.00
4	Bihar		0.17			1049.00					0.00
5	Chattisgarh										0.00
6	Goa										0.00
7	Gujarat					4994.00		349.00	59.00		0.00
8	Haryana										0.00
9	Himachal Pradesh	0.01	68.65	0.41	12.57	6023.00	43.03	1285.00	343.00	10.30	65.90
10	Jammu & Kashmir					17.00		38.00	6.00		0.00
11	Jharkhand	0.00	0.00	nil	nil	nil	nil	nil	5.00	0.20	0.20
12	Karnataka	0.33	0.35	0.23	2220.70	14955.00	367.51	1207.00	215.00	2032.57	4620.78
13	Kerala	3.15	5.41	0.09	168.48	324386.00	998.13	47953.00	450.00	2154.15	3320.76
14	Madhya Pradesh	Nil	Nil	Nil	Nil	315.00	Nil	36.00	31.00	Nil	0.00
15	Maharashtra							65.00	68.00		0.00
16	Manipur	0.01	0.13	0.00		17846.00		400.00	9.00		0.00
17	Meghalaya	0.00	0.00	0.00	0.04	0.00	0.03	0.00	0.00	0.00	0.07
18	Mizoram					968.00		3.00	18.00		0.00
19	Nagaland	0.00	0.26	0.00		5209.00		794.00	13.00		0.00

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Table 3.2 : State-wise Damage due to Flood during 2018*

Sl. No.	Name of State	Area affected in Mha	Population affected in Million	Damage to Crops		Damage to Houses		Cattle lost Nos.	Human lives lost Nos.	Damage to Public Utilities (Rs. In Crore)	Total Damages Crops,House, & Public Utilities (Rs. In Crore)
				Area in Mha	Value in Rs. Crore	Nos.	Value in Rs. Crore				
1	2	3	4	5	6	7	8	9	10	11	12
20	Odisha	0.09	2.27	0.09		19110.00		122.00	31.00		0.00
21	Punjab	0.06		0.06	120.41	1477.00	4.11	29.00	26.00		124.52
22	Rajasthan	0.00	0.02	0.00	2.20	2159.00	2.16	341.00	26.00	27.37	31.73
23	Sikkim										0.00
24	Tamil Nadu										0.00
25	Tripura	0.00	0.25	0.02	24.28	40897.00	115.94	3905.00	22.00	805.95	946.18
26	Uttar Pradesh	0.45	0.59	0.38	230.36	28063.00	13.72	149.00	105.00	303.34	547.42
27	Uttarakhand	0.00		0.00		2062.00		895.00	101.00		0.00
28	West Bengal	0.05	0.32	0.05		23440.00		93.00	266.00		0.00
29	A & N Island	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.00
30	Chandigarh										0.00
31	D & N Haveli	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	Delhi										0.00
34	Lakshadweep	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.00
35	Puduchcherry										0.00
	Total	**4.92**	**79.74**	**2.12**	**3241.96**	**500894.00**	**2134.59**	**57904.00**	**1880.00**	**91430.20**	**96806.75**

Source : FFM Directorate, CWC

Note : * Tenative

Table 3.3 : Flood Forecasting Information in India during Flood Season 2017

Sl.No.	Name of the River	Name of FF Site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2017		No.of Forecasts issued	No.of Forecasts within limits	Percent-age of Accuracy
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)			
1	2	3	4	5	6	7	8	9	10	11	12	13
	1. Indus Basin											
1	Jhelum	Rammunshibagh	Jammu & Kashmir	1585.53	1586.45	1589.65	08-09-2014	1585.31	01-Jul-17 17	1	0	-
2	Jhelum	Sangam	Jammu & Kashmir	1590.30	1591.20	1595.70	09-06-2014	1589.44	22-Jun-17 08	0	0	-
3	Jhelum	Safapora	Jammu & Kashmir	1580.00	1580.50	1580.69	25-06-2015	1579.75	08-Jun-17 12	0	0	-
	2 a. Ganga Basin											
4	Alaknanda	Srinagar	Uttarakhand	535.00	536.00	537.90	17-06-2013	534.75	13-Jul-17 02	0	0	-
5	Ganga	Rishikesh	Uttarakhand	339.50	340.50	341.72	05/09/1995	339.90	05-Aug-17 06	5	3	60.00
6	Ganga	Haridwar	Uttarakhand	293.00	294.00	296.30	19/09/2010	294.00	05-Aug-17 08	7	5	71.43
7	Ganga	Narora Barrage	Uttar Pradesh			180.61	23/09/2010	179.07	24-Aug-17 00	50	49	98.00
8	Ganga	Kannauj	Uttar Pradesh	124.97	125.97	126.78	27/09/2010	125.10	17-Aug-17 03	6	6	100.00
9	Ganga	Ankinghat	Uttar Pradesh	123.00	124.00	124.49	28/09/2010	123.25	17-Aug-17 01	10	10	100.00
10	Ganga	Kanpur	Uttar Pradesh	113.00	114.00	114.08	29/09/2010	112.21	18-Aug-17 02	7	7	100.00
11	Ganga	Dalmau	Uttar Pradesh	98.36	99.36	99.84	03/08/1973	97.85	18-Aug-17 18	0	0	-
12	Ganga	Phphamau	Uttar Pradesh	83.73	84.73	87.98	08/09/1978	79.31	19-Aug-17 00	0	0	-
13	Ganga	Allahabad Chhatnag	Uttar Pradesh	83.73	84.73	88.03	08/09/1978	76.22	17-Aug-17 07	0	0	-
14	Ganga	Mirzapur	Uttar Pradesh	76.72	77.72	80.34	09/09/1978	69.33	18-Aug-17 11	0	0	-
15	Ganga	Varanasi	Uttar Pradesh	70.26	71.26	73.90	09/09/1978	64.44	18-Aug-17 06	0	0	-
16	Ganga	Ghazipur	Uttar Pradesh	62.11	63.11	65.22	09/09/1978	57.90	19-Aug-17 17	0	0	-
17	Ganga	Buxar	Bihar	59.32	60.32	62.09	1948	55.82	19-Aug-17 23	0	0	-
18	Ganga	Ballia	Uttar Pradesh	56.62	57.62	60.25	14/09/2003	55.52	21-Aug-17 17	0	0	-
19	Ganga	Patna Dighaghat	Bihar	49.45	50.45	52.52	23/08/1975	49.47	21-Aug-17 23	1	1	100.00
20	Ganga	Patna Gandhighat	Bihar	47.60	48.60	50.27	14/08/1994	48.43	21-Aug-17 09	25	25	100.00
21	Ganga	Hathidah	Bihar	40.76	41.76	43.15	07/08/1971	41.41	22-Aug-17 06	19	19	100.00

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Table 3.3 : Flood Forecasting Information in India during Flood Season 2017

Sl.No.	Name of the River	Name of FF Site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2017		No.of Forecasts issued	No.of Forecasts within limits	Percent-age of Accuracy
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)			
1	2	3	4	5	6	7	8	9	10	11	12	13
22	Ganga	Munger	Bihar	38.33	39.33	40.99	19/09/1976	37.95	22-Aug-17 11	0	0	-
23	Ganga	Bhagalpur	Bihar	32.68	33.68	34.20	17/09/2003	33.10	23-Jul-17 04	10	10	100.00
24	Ganga	Kahalgaon	Bihar	30.09	31.09	32.87	17/09/2003	31.06	23-Aug-17 14	32	31	96.88
25	Ganga	Sahibgunj	Jharkhand	26.25	27.25	30.91	1998	27.94	22-Aug-17 20	42	42	100.00
26	Ganga	Farakka	West Bengal	21.25	22.25	25.14	07/09/1998	23.19	23-Aug-17 11	83	81	97.59
27	Ramganga	Moradabad	Uttar Pradesh	189.60	190.60	192.88	21/09/2010	190.54	05-Sep-17 09	13	13	100.00
28	Ramganga	Bareilly	Uttar Pradesh	162.70	163.70	162.88	06/8/1978	160.55	04-Sep-17 21	0	0	-
29	Banas	Bisalpur Dam	Rajasthan	FRL 315.5				472.61	21-May-17 18	0	0	-
30	Yamuna	Tajewala Weir	Haryana			338.90	17/06/1013	335.00	12-Jul-17 16	0	0	
31	Yamuna	Mawi	Uttar Pradesh	230.00	230.85	232.45	26/09/1988	230.46	03-Sep-17 18	10	9	90.00
32	Yamuna	Delhi Rly Bridge	NCT Delhi	204.00	204.83	207.49	06/09/1978	204.81	04-Sep-17 14	10	10	100.00
33	Yamuna	Mathura	Uttar Pradesh	164.20	165.20	169.73	08/09/1978	165.06	06-Sep-17 19	7	7	100.00
34	Yamuna	Agra	Uttar Pradesh	151.40	152.40	154.76	09/09/1978	149.40	07-Sep-17 12	0	0	-
35	Yamuna	Etawa	Uttar Pradesh	120.92	121.92	126.13	11/09/1978	118.38	08-Aug-17 08	0	0	-
36	Yamuna	Auraiya	Uttar Pradesh	112.00	113.00	118.19	25/08/1996	104.58	02-Aug-17 09	0	0	-
37	Yamuna	Kalpi	Uttar Pradesh	107.00	108.00	112.98	25/08/1996	99.77	03-Aug-17 06	0	0	-
38	Yamuna	Hamirpur	Uttar Pradesh	102.63	103.63	108.59	12/09/1983	92.72	16-Aug-17 02	0	0	-
39	Yamuna	Chilaghat	Uttar Pradesh	99.00	100.00	105.16	06-09-1978	88.60	15-Aug-17 18	0	0	-
40	Yamuna	Naini	Uttar Pradesh	83.74	84.74	87.99	08-09-1978	76.80	17-Aug-17 20	0	0	-
41	Sahibi	Dhansa	NCT Delhi	211.44	212.44	213.58	06-08-1977	209.60	10-Aug-17 09	0	0	-
42	Chambal	Gandhisagar Dam	Madhya Pradesh	399.99				396.95	27-Sep-17 17	1	1	100.00
43	Betwa	Mohana	Uttar Pradesh	121.66	122.66	133.69	11/09/1983	113.46	23-Sep-17 11	0	0	-
44	Betwa	Sahjina	Uttar Pradesh	103.54	104.54	108.67	12/09/1983	90.85	24-Sep-17 22	0	0	-

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Table 3.3 : Flood Forecasting Information in India during Flood Season 2017

Sl.No.	Name of the River	Name of FF Site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2017		No.of Forecasts issued	No.of Forecasts within limits	Percent-age of Accuracy
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)			
1	2	3	4	5	6	7	8	9	10	11	12	13
45	Ken	Banda	Uttar Pradesh	103.00	104.00	113.29	07/07/2009	99.75	23-Sep-17 04	0	0	-
46	Gomati	Lucknow	Uttar Pradesh	108.50	109.50	110.85	10/09/1971	105.85	23-Oct-17 02	0	0	-
47	Gomati	Jaunpur	Uttar Pradesh	73.07	74.07	77.74	22/09/1971	69.15	02-Sep-17 05	0	0	-
48	SAI	Raibareli	Uttar Pradesh	100.00	101.00	104.81	17/09/1982	99.22	12-Jul-17 20	0	0	-
49	Sharda	Banbasa	Uttarakhand					220.60	05-Aug-17 01	4	3	75.00
50	Ghaghra	Elgin Bridge	Uttar Pradesh	105.07	106.07	107.56	10-10-2009	107.32	16-Aug-17 11	73	72	98.63
51	Ghaghra	Ayodhya	Uttar Pradesh	91.73	92.73	94.01	11-10-2009	93.72	17-Aug-17 19	65	64	98.46
52	Ghaghra	Turtipar	Uttar Pradesh	63.01	64.01	66.00	28/08/1998	65.03	21-Aug-17 05	69	69	100.00
53	Ghaghra	Darauli	Bihar	59.82	60.82	61.74	29/08/1998	61.21	21-Aug-17 10	45	44	97.78
54	Ghaghra	Gangpur Siswan	Bihar	56.04	57.04	58.01	18/09/1983	57.64	22-Aug-17 07	44	44	100.00
55	Ghaghra	Chhapra	Bihar	52.68	53.68	54.59	03/09/1982	50.75	21-Aug-17 11	0	0	-
56	Rapti	Balrampur	Uttar Pradesh	103.62	104.62	105.25	11/09/2000	105.54	15-Aug-17 15	35	34	97.14
57	Rapti	Bansi	Uttar Pradesh	83.90	84.90	85.82	21/08/1998	85.88	20-Aug-17 21	22	21	95.45
58	Rapti	Gorakpur_Birdghat	Uttar Pradesh	73.98	74.98	77.54	23/08/1998	77.23	21-Aug-17 14	25	25	100.00
59	Sone	Inderpuri	Bihar	107.20	108.20	108.85	23/08/1975	106.14	27-Jul-17 16	0	0	-
60	Sone	Koelwar	Bihar	54.52	55.52	58.88	20/07/1971	53.26	28-Jul-17 23	0	0	-
61	Sone	Maner	Bihar	51.00	52.00	53.79	10/09/1976	50.19	22-Aug-17 02	0	0	-
62	Sone	Bansagar Dam	Madhya Pradesh		FRL 341.65			338.97	25-Sep-17 08	26	3	11.54
63	PunPun	Sripalpur	Bihar	49.60	50.60	53.91	18/09/1976	52.50	09-Aug-17 05	24	23	95.83
64	Gandak	Khadda	Uttar Pradesh	95.00	96.00	97.50	23/07/2002	96.51	14-Aug-17 07	80	79	98.75
65	Ganga	Fathegarh	Uttar Pradesh	136.6	137.6	138.14	26-09-2010	137.52	12-Aug-17 07	46	46	100.00
66	Ganga	Dabri	Uttar Pradesh	136.3	137.3	139.695	28-09-1983	136.77	28-Sep-17 19	12	12	100.00
67	Ganga	Garhmuktheswar	Uttar Pradesh	198.33	199.33	199.9	23-09-2010	198.80	07-Aug-17 06	14	2	14.29

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Table 3.3 : Flood Forecasting Information in India during Flood Season 2017

Sl.No.	Name of the River	Name of FF Site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2017		No.of Forecasts issued	No.of Forecasts within limits	Percent-age of Accuracy
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)			
1	2	3	4	5	6	7	8	9	10	11	12	13
68	Ganga	Kachla Bridge	Uttar Pradesh	161	162	162.79	24-09-2010	162.61	09-Aug-17 02	81	80	98.77
69	Gandak	Chatia	Bihar	68.15	69.15	70.04	26/07/2002	68.80	15-Aug-17 09	6	6	100.00
70	Gandak	Rewaghat	Bihar	53.41	54.41	55.41	17/09/1986	54.60	18-Aug-17 02	13	13	100.00
71	Gandak	Hazipur	Bihar	49.32	50.32	50.93	1948	48.88	18-Aug-17 04	0	0	-
72	Rihand	Rihand Dam	Uttar Pradesh		FRL=268.22			264.02	03-Sep-17 08	25	8	32.00
73	Burhi Gandak	Lalbeghiaghat	Bihar	62.20	63.20	67.09	30/07/1975	64.96	19-Aug-17 09	16	16	100.00
74	Burhi Gandak	Muzaffarpur	Bihar	51.53	52.53	54.29	15/08/1987	53.74	23-Aug-17 23	19	19	100.00
75	Burhi Gandak	Samastipur	Bihar	45.02	46.02	49.38	15/08/1987	48.10	26-Aug-17 21	20	20	100.00
76	Burhi Gandak	Rosera	Bihar	41.63	42.63	46.35	16/08/1987	45.63	28-Aug-17 08	25	24	96.00
77	Burhi Gandak	Khagaria	Bihar	35.58	36.58	39.22	1976	37.03	26-Aug-17 15	30	30	100.00
78	Bagmati	Benibad	Bihar	47.68	48.68	50.01	12/07/2004	49.60	17-Aug-17 08	74	74	100.00
79	Bagmati	Hayaghat	Bihar	44.72	45.72	48.96	14/08/1987	46.13	25-Aug-17 01	35	35	100.00
80	Adhwara Group	Kamtaul	Bihar	49.00	50.00	52.99	12/08/1987	51.90	15-Aug-17 06	35	34	97.14
81	Adhwara Group	Ekmighat	Bihar	45.94	46.94	49.52	12/07/2004	48.33	19-Aug-17 02	40	40	100.00
82	Kamla Balan	Jhanjharpur	Bihar	49.00	50.00	53.01	10/07/2004	52.69	14-Aug-17 13	227	224	98.68
83	Kosi	Basua	Bihar	46.75	47.75	49.17	25/08/2010	49.24	13-Aug-17 10	141	139	98.58
84	Kosi	Baltara	Bihar	32.85	33.85	36.40	15/08/1987	36.10	17-Aug-17 05	99	99	100.00
85	Kosi	Kursela	Bihar	29.00	30.00	32.04	06/09/1998	30.54	23-Aug-17 05	38	38	100.00
86	Mahananda	Dhengraghat	Bihar	34.65	35.65	38.09	1968	38.20	14-Aug-17 09	47	46	97.87
87	Mahananda	Jhawa	Bihar	30.40	31.40	33.51	14/08/1987	34.07	14-Aug-17 10	46	44	95.65
88	Gandak	Dumariaghat	Bihar	61.22	62.22	63.6	18-08-2014	64.10	17-Aug-17 03	98	98	100.00
89	Burhigandak	Ahirwalia	Bihar	58.62	59.62	61.17		60.39	21-Aug-17 14	13	13	100.00
90	Mayurakshi	Massanjore Dam	Jharkhand	121.31		122.87	25/09/1999	120.78	01-Nov-17 08	11	8	72.73

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Table 3.3 : Flood Forecasting Information in India during Flood Season 2017

Sl.No.	Name of the River	Name of FF Site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2017		No.of Forecasts issued	No.of Forecasts within limits	Percent-age of Accuracy
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)			
1	2	3	4	5	6	7	8	9	10	11	12	13
91	Mayurakshi	Tilpara Barrage	West Bengal	62.79		67.05	27/09/1978	62.93	31-Oct-17 18	6	5	83.33
92	Mayurakshi	Narayanpur	West Bengal	26.99	27.99	29.69	27/09/1995	26.60	12-Oct-17 09	0	0	-
93	Ajoy	Gheropara	West Bengal	38.42	39.42	43.94	27/09/1978	39.84	11-Oct-17 18	2	2	100.00
94	Damodar	Tenughat Dam	Jharkhand	268.83		265.56	17/09/1985	264.37	27-Jul-17 00	46	45	97.83
95	Damodar	Panchet Dam	Jharkhand	132.59		132.89	02/10/1959	131.35	26-Jul-17 12	67	67	100.00
96	Damodar	Durgapur Barrage	West Bengal	64.47		64.47	31/10/2002	64.48	14-Jul-17 21	47	45	95.74
97	Barakar	Maithon Dam	Jharkhand	150.88		151.79	02/10/1959	149.72	05-Nov-17 06	29	27	93.10
98	Mundeshwari	Harinkhola	West Bengal	11.80	12.80	14.58	29/09/1978	14.60	28-Jul-17 07	6	6	100.00
99	Kangsabati	Kangsabati Dam	West Bengal	134.11		134.71	02/09/1978	132.77	26-Oct-17 05	28	28	100.00
100	Kangsabati	Mohanpur	West Bengal	24.73	25.73	29.87	02/09/1978	24.42	23-Jul-17 23	0	0	-
	2 b Brahmaputra Basin											
101	siang	Passighat	Arunachal Pradesh	152.96	153.96	157.54	11-06-2000	155.04	09-Jul-17 06	72	71	98.61
102	Noa-Dehing	Namsai	Arunachal Pradesh	140.6	141.1	145.03	31-08-1974	140.45	10-Aug-17 21	0	0	-
103	Brahmaputra	Dibrugrah	Assam	104.70	105.70	106.48	03/09/1998	106.4	11-Aug-17 18	99	99	100.00
104	Brahmaputra	Neamatighat	Assam	84.04	85.04	87.37	11/07/1991	87.27	12-Aug-17 08	135	135	100.00
105	Brahmaputra	Tezpur	Assam	64.23	65.23	66.59	27/08/1988	66.31	13-Aug-17 17	69	69	100.00
106	Brahmaputra	Guwahati	Assam	48.68	49.68	51.46	21/07/2004	50.38	14-Aug-17 17	36	35	97.22
107	Brahmaputra	Goalpara	Assam	35.27	36.27	37.43	31/07/1954	37.02	15-Aug-17 04	40	39	97.50
108	Brahmaputra	Dhubri	Assam	27.62	28.62	30.36	28/08/1988	29.87	15-Aug-17 14	204	201	98.53
109	Burhidihing	Naharkatia	Assam	119.40	120.40	122.69	17/06/1973	118.89	11-Jul-17 04	0	0	-
110	Burhidihing	Khwong	Assam	101.11	102.11	104.16	02-09-2015	102.87	12-Jul-17 14	21	21	100.00
111	Desang	Nanglamoraghat	Assam	93.46	94.46	96.49	06/09/1998	94.82	06-Jul-17 08	43	42	97.67
112	Dikhow	Shivsagar	Assam	91.40	92.40	95.62	08/07/1974	93.85	11-Jul-17 04	62	62	100.00

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Table 3.3 : Flood Forecasting Information in India during Flood Season 2017

Sl.No.	Name of the River	Name of FF Site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2017		No.of Forecasts issued	No.of Forecasts within limits	Percent-age of Accuracy
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)			
1	2	3	4	5	6	7	8	9	10	11	12	13
113	Subansiri	Badatighat	Assam	81.53	82.53	86.84	28/06/1972	83.01	11-Jul-17 10	48	48	100.00
114	Dhansiri (S)	Golaghat	Assam	88.50	89.50	91.30	11/10/1986	89.96	22-Jul-17 10	97	97	100.00
115	Dhansiri (S)	Numaligarh	Assam	76.42	77.42	79.87	24/09/1985	79.33	03-Jul-17 09	307	306	99.67
116	Jiabharali	Jiabharali_NTX	Assam	76.00	77.00	78.50	26/07/2007	78.25	02-Jul-17 07	476	472	99.16
117	Kopilli	Kampur	Assam	59.50	60.50	61.86	16/06/1973	61.07	24-Oct-17 00	19	19	100.00
118	Kopilli	Dharmatul	Assam	55.00	56.00	58.09	21/07/2004	56.21	18-Aug-17 07	63	63	100.00
119	Puthimari	Puthimari _NHX	Assam	50.81	51.81	55.08	31/08/2008	53.50	12-Aug-17 04	190	183	96.32
120	Pagladiya	Pagladia_NTX	Assam	51.75	52.75	55.45	08/07/2004	52.77	12-Aug-17 12	24	22	91.67
121	Beki	Beki NHX	Assam	44.10	45.10	46.20	04/08/2000	45.97	11-Aug-17 06	230	230	100.00
122	Manas	Manas NHX	Assam	47.81	48.42	50.08	15/09/1984	49.43	12-Aug-17 07	17	17	100.00
123	Subansiri	Choldhowaghat	Assam	99.02	100.02	101.31	27-07-1972	97.95	09-Jul-17 14	0	0	-
124	Ranganadi	N H Crossing Ranganadi	Assam	93.81	94.81	94.96	13-08-2009	95.4	09-Jul-17 19	44	41	93.18
125	Lohit	Dholla Bazaar	Assam	127.27	128.27	130.07	22-09-2012	128.33	11-Aug-17 05	9	9	100.00
126	Gaurang	Kokrajhar	Assam	41.85	42.85	43.6	20-08-2015	43.22	12-Aug-17 04	40	36	90.00
127	Sankosh	Golakganj	Assam	28.94	29.94	30.95	08/09/2007	30.82	13-Aug-17 03	47	42	89.36
128	Raidak-I	Tufanganj	West Bengal	34.22	35.30	36.36	21/07/1993	36.50	12-Aug-17 20	21	18	85.71
129	Torsa	Ghughumari	West Bengal	39.80	40.41	41.46	03/08/2000	41.36	12-Aug-17 10	18	14	77.78
130	Jaldhaka	NH-31	West Bengal	80.00	80.90	82.33	28-07-1972	80.40	12-Aug-17 14	5	5	100.00
131	Jaldhaka	Mathabhanga	West Bengal	47.70	48.20	49.85	07/09/2007	49.25	12-Aug-17 21	10	6	60.00
132	Tista	Domohani	West Bengal	85.65	85.95	89.30	14/10/1968	86.02	12-Aug-17 19	8	7	87.50
133	Tista	Mekhliganj	West Bengal	65.45	65.95	66.45	13/07/1996	65.95	13-Aug-17 06	35	31	88.57
	2 c Barak & Others											
134	Barak	APGhat	Assam	18.83	19.83	21.84	01/08/1989	20.30	28-Jun-17 11	98	98	100.00

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Table 3.3 : Flood Forecasting Information in India during Flood Season 2017

Sl.No.	Name of the River	Name of FF Site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2017		No.of Forecasts issued	No.of Forecasts within limits	Percent-age of Accuracy
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)			
1	2	3	4	5	6	7	8	9	10	11	12	13
135	Katakhal	Matizuri	Assam	19.27	20.27	22.73	10/09/2007	22.34	15-Jun-17 19	82	81	98.78
136	Kushiyara	Karimganj	Assam	13.94	14.94	16.57	10/06/2010	16.07	28-Jun-17 14	178	178	100.00
137	Barak	Badarpurghat	Assam	15.85	16.85	18.48	11-09-2007	17.56	28-Jun-17 10	146	144	98.63
138	Manu	Kailashar	Tripura	24.34	25.34	25.79	07/06/1993	25.12	05-Jun-17 06	2	2	100.00
139	Gumti	Sonamura	Tripura	11.50	12.50	14.42	23/07/1993	12.38	23-Oct-17 06	6	6	100.00
	3. Godavari Basin											
140	Godavari	Kopergaon	Maharashtra	490.90	493.68	499.17	1969	491.40	24-Jul-17 12	5	5	100.00
141	Godavari	Jaikwadi Dam	Maharashtra	463.91		464.69	12/10/1990	463.91	25-Oct-17 14	5	4	80.00
142	Godavari	Gangakhed	Maharashtra	374.00	375.00	377.57	1947	368.26	11-Oct-17 18	0	0	0.00
143	Godavari	Nanded	Maharashtra	353.00	354.00	357.10	06/08/2006	345.40	10-Sep-17 01	0	0	0.00
144	Manjira	Singur Dam	Telangana	523.60		523.60	15/10/1999	524.54	27-Oct-17 16	0	0	-
145	Manjira	Nizamsagar Dam	Telangana	428.24		428.24	15/10/1999	424.00	03-Oct-17 10	0	0	-
146	Godavari	Sriram Sagar	Telangana	332.54		332.72	13/10/1990	329.49	24-Oct-17 06	0	0	-
147	Wainganga	Bhandara	Maharashtra	244.00	244.50	250.90	16/09/2005	242.30	30-Aug-17 10	0	0	-
148	Wainganga	Pauni	Maharashtra	226.73	227.73	232.35	07/09/1994	223.80	30-Aug-17 10	0	0	-
149	Wainganga	Goshikhurd Dam	Maharashtra	FRL=245.5				242.00	16-Oct-17 08	0	0	-
150	Wardha	Balharsha	Maharashtra	171.50	174.00	176.00	15/08/1986	162.74	20-Jul-17 06	0	0	-
151	Godavari	Kaleswaram	Telangana	103.50	104.75	107.05	15/08/1986	98.94	20-Jul-17 11	0	0	-
152	Indravati	Jagdalpur	Chhattisgarh	539.50	540.80	544.68	09/07/1973	542.47	20-Jul-17 10	15	14	93.33
153	Godavari	Eturunagaram	Telangana	73.29	75.79	77.66	24/08/1990	72.04	20-Jul-17 01	0	0	-
154	Godavari	Dummagudam	Telangana	53.00	55.00	60.25	16/08/1986	50.50	20-Jul-17 06	0	0	-
155	Godavari	Bhadrachalam	Telangana	45.72	48.77	55.66	16/08/1986	43.80	20-Jul-17 17	0	0	-
156	Godavari	Kunavaram	Andhra Pradesh	37.74	39.24	51.30	16/08/1986	33.28	21-Jul-17 05	0	0	-

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Table 3.3 : Flood Forecasting Information in India during Flood Season 2017

Sl.No.	Name of the River	Name of FF Site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2017		No.of Forecasts issued	No.of Forecasts within limits	Percent-age of Accuracy
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)			
1	2	3	4	5	6	7	8	9	10	11	12	13
157	Godavari	Rajamundry	Andhra Pradesh	17.68	19.51	20.48	16/08/1986	15.24	21-Jul-17 11	0	0	-
158	Godavari	Sripada Yellampally Dam	Telangana	FRL 148				147.87	01-Nov-17 08	0	0	-
159	Godavari	Dowalaiswaram	Andhra Pradesh	14.25	16.08	18.36	16/08/1986	14.96	06-Oct-17 23	0	0	-
160	Kaddamvagu	Kaddam Dam	Telangana	FRL 213.21				212.98	03-Sep-17 06	0	0	-
	4. Krishna Basin											
161	Krishna	Dr K L R S Pulichintala Dam	Andhra Pradesh	FRL 53.34				46.10	22-Oct-17 07	0	0	-
162	Krishna	Arjunwad	Maharashtra	542.07	543.29	543.69	05-08-2005	533.61	21-Jul-17 19	0	0	-
163	Krishna	Alamati Dam	Karnataka	519.60		519.60	18-09-2002	519.60	09-Aug-17 12	26	24	92.31
164	Krishna	Narayanpur Dam	Karnataka	492.25		492.22	26-09-2008	492.25	22-Oct-17 13	29	26	89.66
165	Krishna	Priyadarshini	Telangana	318.52		318.50	09-10-2012	318.51	10-Oct-17 16	72	23	31.94
166	Krishna	Srisailam Dam	Andhra Pradesh	269.75		273.25	03-10-2009	269.69	12-Oct-17 06	72	68	94.44
167	Krishna	Prakasham Barrage	Andhra Pradesh	18.30		21.50	07-10-1903	17.39	19-Jul-17 14	0	0	-
168	Bhima	Deongaon	Karnataka	402.00	404.50	407.34	13-08-2006	402.30	17-Sep-17 12	2	1	50.00
169	Tungabhadra	Tungabhadra Dam	Karnataka	497.74		497.74	08-10-1994	496.89	19-Oct-17 13	59	58	98.31
170	Tungabhadra	Sunkesula Barrage	Andhra Pradesh	FRL 292				292.00	22-Oct-17 09	40	32	80.00
171	Tungabhadra	Kurnool	Andhra Pradesh	276	278	285.22	02-10-2009	274.52	16-Sep-17 06	0	0	-
172	Tunga	Upper Tunga	Karnataka	FRL 588.24				588.24	25-Jul-17 08	33	18	18
173	Bhadra	Bhadra Dam	Karnataka	FRL 657.75				653.53	10-Nov-17 08	18	3	3
174	Tungabhadra	Mantralayam	Andhra Pradesh	310.00	312.00	318.77	02-10-2009	310.51	16-Sep-17 03	3	1	33.33
	5. Cauvery Basin											
175	Cauvery	Krishnarajasagar	Karnataka	FRL 752.49				749.30	23-Oct-17 08	62	36	58.06
176	Cauvery	Mettur Dam	Tamilnadu	FRL=240.79				234.09	16-Oct-17 06	63	54	85.71
177	Bhavani	Bhavanisagar Dam	Tamilnadu	FRL=280.42				273.49	05-Oct-17 06	20	12	60.00

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Table 3.3 : Flood Forecasting Information in India during Flood Season 2017

Sl.No.	Name of the River	Name of FF Site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2017		No.of Forecasts issued	No.of Forecasts within limits	Percent-age of Accuracy
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)			
1	2	3	4	5	6	7	8	9	10	11	12	13
178	Cauvery	Grand Anicut	Tamilnadu					64.31	24-Nov-17 08	43	38	88.37
179	Cauvery	Upper Anicut	Tamilnadu					82.04	20-Oct-17 08	49	40	81.63
180	Harangi	Harangi Dam	Karnataka	FRL 871.42				871.30	08-Aug-17 08	21	8	38.10
181	Hemavathy	Hemavathy Dam	Karnataka	FRL 890.63				890.63	11-Aug-17 08	34	13	38.24
182	Kabini	Kabini Dam	Karnataka	FRL 696.16				696.16	21-Sep-17 08	49	29	59.18
	6. Subarnarekha											
183	Subernarekna	Jamshedpur	Jharkhand	122.5	123.5	129.82	12-10-1973	123.65	27-Jul-17 03	10	6	60.00
184	Subernarekna	Chandil Dam	Jharkhand	FRL 192				182.70	27-Jul-17 08	5	5	100.00
185	Subernarekna	Rajghat	Odisha	9.45	10.36	12.69	19/06/2008	11.33	28-Jul-17 07	11	10	90.91
186	Burhabalang	NH_5 _Road Bridge	Odisha	7.21	8.13	9.50	12/10/1973	7.94	21-Oct-17 13	4	4	100.00
	7. Brahmani and Baitarani											
187	Baitarni	Anandpur	Odisha	37.44	38.36	41.35	23-09-2011	39.12	25-Jul-17 04	6	4	66.67
188	Baitarni	Akhuapada	Odisha		17.83	21.95	16/08/1960	18.62	25-Jul-17 13	23	23	100.00
189	Brahmani	Jenapur	Odisha	22.00	23.00	24.78	20/08/1975	22.64	29-Jul-17 18	5	5	-
190	Brahmani	Rengali Dam	Odisha	FRL 123.5				123.79	12-Oct-17 23	0	0	-
	8. Mahanadi Basin											
191	Mahanadi	Hirakud Dam	Odisha	192.02		192.30	30/01/1998	192.18	13-Oct-17 22	41	40	97.56
192	Mahanadi	Naraj	Odisha	25.41	26.41	27.61	31/08/1982	24.79	19-Jul-17 21	0	0	-
193	Mahanadi	Alipingal Devi	Odisha	10.85	11.76	13.11	11-09-2011	5.14	31-Jul-17 14	0	0	-
194	Mahanadi	Nimapara	Odisha	9.85	10.76	11.60	31/08/1982	4.46	20-Oct-17 23	0	0	-
	9. Pennar Basin											
195	North Pennar	Somasila Dam	Andhra Pradesh	FRL 100.58				96.45	07-Nov-17 08	14	9	64.29
196	Pennar	Nellore	Andhra Pradesh	15.91	17.28	18.70	30-11-1882	13.38	27-Nov-17 06	0	0	-

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Sl.No.	Name of the River	Name of FF Site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2017		No.of Forecasts issued	No.of Forecasts within limits	Percent-age of Accuracy
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)			
1	2	3	4	5	6	7	8	9	10	11	12	13
	10. Mahi Basin											
197	Mahi	Mahi Bajajsagar Dam	Rajasthan	FRL 281.5				281.5	12-Sep-17 07	0	0	-
198	Som Kamla	Som Kamla Amba Dam	Rajasthan	FRL 212.5				213.55	26-Oct-17 12	0	0	-
199	Mahi	Kadana Dam	Gujarat	126.19	127.71	127.74	09/09/1989	127.71	25-Sep-17 08	0	0	-
200	Mahi	Wanakbori	Gujarat	71.93	74.98	76.10	12/08/2006	70.18	27-Jul-17 14	0	0	-
201	Panam	Panam Dam	Gujarat	FRL 121.41						0	0	-
	11. Sabarmati Basin											
202	Sabarmati	Dharoi Dam	Gujarat	187.45	192.25	189.63	03/09/1990	189.58	05-Oct-17 00	24	22	91.67
203	Sabarmati	Ahmedabad Shubhash Bridge	Gujarat	44.09	45.34	47.45	19/08/2006	44.80	25-Jul-17 18	1	0	0.00
	12. Narmada Basin											
204	Naramada	Mandla	Madhya Pradesh	437.20	437.80	439.41	18/08/1974	436.20	16-Jul-17 19	0	0	-
205	Naramada	Hoshangabad	Madhya Pradesh	292.83	293.83	300.90	30/08/1973	286.50	22-Jul-17 03	0	0	-
206	Naramada	Garudeswar	Gujarat	30.48	31.09	41.65	06/09/1970	15.78	25-Jun-17 00	0	0	-
207	Naramada	Bharuch	Gujarat	6.71	7.31	12.65	07/09/1970	5.50	27-Jun-17 22	0	0	-
	13. Tapi Basin											
208	Tapi	Hatnur Dam	Maharashtra	212.00	214.00	214.00	12/10/1989	214.04	27-Oct-17 08	23	9	39.13
209	Tapi	Ukai Dam	Gujarat	102.41	105.16	105.51	08/10/1990	98.83	15-Oct-17 17	0	0	-
210	Tapi	Surat	Gujarat	8.50	9.50	12.50	09/08/2006	4.40	23-Aug-17 15	0	0	-
	14. West Flowing rivers from Tapi to Tadri											
211	Damanganga	Madhuban Dam	Gujarat	79.86	82.40	80.60	27/09/1993	80.05	20-Oct-17 13	18	18	100.00
212	Damanganga	Vapi Town	Gujarat	18.20	19.20	23.76	03/08/2004	17.55	29-Aug-17 00	0	0	-
213	Damanganga	Daman	Dadra & Nagar Haveli	2.60	3.40	4.00	03/08/2004	2.30	26-Jun-17 16	0	0	-

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Sl.No.	Name of the River	Name of FF Site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2017		No.of Forecasts issued	No.of Forecasts within limits	Percent-age of Accuracy
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)			
1	2	3	4	5	6	7	8	9	10	11	12	13
	16. East flowing rivers between Mahanadi and Pennar											
214	Rushikuluya	Purushottampur	Odisha	15.83	16.83	19.65	04/11/1990	14.85	21-Oct-17 06	0	0	-
215	Vamsadhara	Gunupur	Odisha	83.00	84.00	88.75	17/09/1980	84.15	20-Oct-17 19	7	4	-
216	Vamsadhara	Kashinagar	Odisha	53.60	54.60	58.93	18/09/1980	56.70	20-Oct-17 22	36	33	91.67
217	Vamsadhara	Gotta Barrage	Andhra Pradesh	34.84	34.84	39.92	07/10/1999	38.10	28-Sep-17 00	7	7	-
218	Nagavali	Srikakulam	Andhra Pradesh	10.17	10.8	14.53	12-05-1990	11.4	17-Jul-17 11	3	2	66.67
219	Nagavali	Thottapalli Reservoir Scheme	Andhra Pradesh	FRL 105.00				103.81	17-Jul-17 17	0	0	-
	17. East flowing rivers between Pennar and Kanyakumari											
220	Vaigai	Vaigai Dam	Tamil Nadu	FRL=279.2				360.89	24-Aug-17 06	5	4	80.00
221	Kosasthaliyar	Poondi Satyamurthy reservoir	Tamil Nadu	FRL=42.67				40.10	06-Dec-17 06	3	3	100.00
222	South Pennar	Sathnur Dam	Tamil Nadu	FRL=222.2				222.20	17-Dec-17 06	4	3	75.00
223	Gomukhinadi	Gomukhi Dam	Tamil Nadu					182.58	11-Oct-17 06	0	0	-
224	Periyar Odai	Wellington Dam	Tamil Nadu	FRL=72.54				68.33	05-Dec-17 06	0	0	-
225	Adyar	Chembarampakkam	Tamil Nadu	FRL=26.03				23.87	04-Dec-17 06	0	0	-
	18. West flowing rivers of Kutch and Saurashtra including Luni											
226	Banas	Dantiwada Dam	Gujarat	182.88	185.06	186.04	01/09/1973	184.10	08-Oct-17 02	33	31	93.94
								Total Forecasts		**6297**	**5901**	93.71
								Level Forecasts		5085	4975	97.84
								Inflow Forecast		1212	926	76.40

Source : FFM Directorate, CWC

Table 3.4 : Flood Forecasting Information in India during Flood Season 2018

Sl.No.	Name of the River	Name of FF Site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level		No.of Forecasts issued	No.of Forecasts within limits	Percent-age of Accuracy
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)			
1	2	3	4	5	6	7	8	9	10	11	12	13
	1. Indus Basin											
1	Jhelum	Rammunshibagh	Jammu & Kashmir	1585.53	1586.45	1589.65	08-09-2014	1587.09	30-Jun-18 16	5	5	100.00
2	Jhelum	Sangam	Jammu & Kashmir	1590.30	1591.20	1595.70	09-06-2014	1592.77	30-Jun-18 02	4	4	100.00
3	Jhelum	Safapora	Jammu & Kashmir	1580.00	1580.50	1580.69	25-06-2015	1580.63	01-Jul-18 11	6	6	100.00
	2 a. Ganga Basin											
4	Mandakini	Ganganagar	Uttarakhand	803.00	804.00	808.00		801.10	12-Aug-18 20	0	0	-
5	Alaknanda	Srinagar	Uttarakhand	535.00	536.00	537.90	17-06-2013	535.45	17-Jul-18 11	3	1	33.33
6	Ganga	Rishikesh	Uttarakhand	339.50	340.50	341.72	05/09/1995	340.00	25-Aug-18 17	13	12	92.31
7	Ganga	Haridwar	Uttarakhand	293.00	294.00	296.30	19/09/2010	293.92	30-Aug-18 18	18	17	94.44
8	Ganga	Narora Barrage	Uttar Pradesh			180.61	23/09/2010	179.07	25-Sep-18 00	57	56	98.25
9	Ganga	Kannauj	Uttar Pradesh	124.97	125.97	126.78	27/09/2010	125.85	02-Sep-18 22	32	32	100.00
10	Ganga	Ankinghat	Uttar Pradesh	123.00	124.00	124.49	28/09/2010	124.05	03-Sep-18 18	42	42	100.00
11	Ganga	Kanpur	Uttar Pradesh	113.00	114.00	114.08	29/09/2010	113.19	06-Sep-18 00	39	39	100.00
12	Ganga	Dalmau	Uttar Pradesh	98.36	99.36	99.84	03/08/1973	98.83	06-Sep-18 03	13	13	100.00
13	Ganga	Phphamau	Uttar Pradesh	83.73	84.73	87.98	08/09/1978	83.12	12-Sep-18 04	0	0	-
14	Ganga	Allahabad Chhatnag	Uttar Pradesh	83.73	84.73	88.03	08/09/1978	82.24	12-Sep-18 01	0	0	-
15	Ganga	Mirzapur	Uttar Pradesh	76.72	77.72	80.34	09/09/1978	75.52	12-Sep-18 08	0	0	-
16	Ganga	Varanasi	Uttar Pradesh	70.26	71.26	73.90	09/09/1978	70.18	12-Sep-18 04	0	0	-
17	Ganga	Ghazipur	Uttar Pradesh	62.11	63.11	65.22	09/09/1978	63.19	12-Sep-18 18	10	10	100.00
18	Ganga	Buxar	Bihar	59.32	60.32	62.09	1948	60.01	13-Sep-18 00	10	10	100.00
19	Ganga	Ballia	Uttar Pradesh	56.62	57.62	60.25	14/09/2003	59.05	13-Sep-18 01	20	20	100.00
20	Ganga	Patna Dighaghat	Bihar	49.45	50.45	52.52	23/08/1975	50.72	14-Sep-18 00	20	20	100.00
21	Ganga	Patna Gandhighat	Bihar	47.60	48.60	50.27	14/08/1994	49.60	14-Sep-18 01	50	50	100.00
22	Ganga	Hathidah	Bihar	40.76	41.76	43.15	07/08/1971	42.56	14-Sep-18 19	45	45	100.00
23	Ganga	Munger	Bihar	38.33	39.33	40.99	19/09/1976	39.20	16-Sep-18 00	13	13	100.00
24	Ganga	Bhagalpur	Bihar	32.68	33.68	34.20	17/09/2003	33.86	16-Sep-18 07	20	20	100.00
25	Ganga	Kahalgaon	Bihar	30.09	31.09	32.87	17/09/2003	31.85	16-Sep-18 17	51	50	98.04
26	Ganga	Sahibgunj	Jharkhand	26.25	27.25	30.91	1998	28.50	16-Sep-18 17	56	56	100.00
27	Ganga	Farakka	West Bengal	21.25	22.25	25.14	07/09/1998	23.47	17-Sep-18 08	106	105	99.06
28	Ramganga	Moradabad	Uttar Pradesh	189.60	190.60	192.88	21/09/2010	191.40	28-Aug-18 22	21	21	100.00
29	Ramganga	Bareilly	Uttar Pradesh	162.70	163.70	162.88	06/8/1978	161.34	01-Sep-18 06	0	0	-
30	Banas	Bisalpur Dam	Rajasthan		FRL 315.5			310.23	10-Oct-18 00	0	0	-
31	Kalisindh	Kalisindh Dam	Rajasthan					315.87	17-Sep-18 08	0	0	-
32	Parwan	Parwan Dam	Rajasthan					305.57	07-Jul-18 10	0	0	-
33	Gambhiri	Gambhiri Dam	Rajasthan					431.91	29-Sep-18 08	0	0	-
34	Gambhiri	Panchana Dam	Rajasthan					269.50	04-Jul-18 13	0	0	-

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						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)			
1	2	3	4	5	6	7	8	9	10	11	12	13
35	Mej	Gudha Dam	Rajasthan					300.50	25-Sep-18 08	0	0	-
36	Parwati	Parwati Dam	Rajasthan					305.70	24-Aug-18 08	0	0	-
37	Chambal	Kota Barrage	Rajasthan					260.42	01-Nov-18 05	0	0	-
38	Yamuna	Tajewala Weir	Haryana			338.90	17/06/1013	336.80	28-Jul-18 18	0	0	-
39	Yamuna	Mawi	Uttar Pradesh	230.00	230.85	232.45	26/09/1988	231.52	30-Jul-18 12	21	21	100.00
40	Yamuna	Delhi Rly Bridge	NCT Delhi	204.00	204.83	207.49	06/09/1978	206.05	31-Jul-18 15	35	33	94.29
41	Yamuna	Mathura	Uttar Pradesh	164.20	165.20	169.73	08/09/1978	165.70	02-Aug-18 17	13	13	100.00
42	Yamuna	Agra	Uttar Pradesh	151.40	152.40	154.76	09/09/1978	150.42	03-Aug-18 07	0	0	-
43	Yamuna	Etawa	Uttar Pradesh	120.92	121.92	126.13	11/09/1978	120.02	04-Aug-18 13	0	0	-
44	Yamuna	Auraiya	Uttar Pradesh	112.00	113.00	118.19	25/08/1996	111.21	10-Sep-18 23	0	0	-
45	Yamuna	Kalpi	Uttar Pradesh	107.00	108.00	112.98	25/08/1996	105.52	10-Sep-18 22	0	0	-
46	Yamuna	Hamirpur	Uttar Pradesh	102.63	103.63	108.59	12/09/1983	101.37	11-Sep-18 00	0	0	-
47	Yamuna	Chilaghat	Uttar Pradesh	99.00	100.00	105.16	06-09-1978	97.44	11-Sep-18 06	0	0	-
48	Yamuna	Naini	Uttar Pradesh	83.74	84.74	87.99	08-09-1978	82.96	12-Sep-18 06	0	0	-
49	Sahibi	Dhansa	NCT Delhi	211.44	212.44	213.58	06-08-1977	210.33	02-Oct-18 17	0	0	-
50	Chambal	Gandhisagar Dam	Madhya Pradesh	399.99				392.67	30-Sep-18 17	3	0	0.00
51	Betwa	Mohana	Uttar Pradesh	121.66	122.66	133.69	11/09/1983	121.16	03-Sep-18 03	2	0	0.00
52	Betwa	Sahjina	Uttar Pradesh	103.54	104.54	108.67	12/09/1983	100.42	10-Sep-18 13	0	0	-
53	Ken	Banda	Uttar Pradesh	103.00	104.00	113.29	07/07/2009	104.15	09-Sep-18 06	4	3	75.00
54	Gomati	Lucknow	Uttar Pradesh	108.50	109.50	110.85	10/09/1971	106.27	05-Sep-18 08	0	0	-
55	Gomati	Jaunpur	Uttar Pradesh	73.07	74.07	77.74	22/09/1971	71.70	04-Aug-18 00	0	0	-
56	SAI	Raibareli	Uttar Pradesh	100.00	101.00	104.81	17/09/1982	101.86	05-Aug-18 17	22	22	100.00
57	Sharda	Banbasa	Uttarakhand	222.30	223.30	223.3		220.80	26-Aug-18 00	11	7	63.64
58	Ghaghra	Elgin Bridge	Uttar Pradesh	105.07	106.07	107.56	10-10-2009	106.95	28-Aug-18 06	79	73	92.41
59	Ghaghra	Ayodhya	Uttar Pradesh	91.73	92.73	94.01	11-10-2009	93.38	18-Aug-18 16	70	70	100.00
60	Ghaghra	Turtipar	Uttar Pradesh	63.01	64.01	66.00	28/08/1998	64.67	30-Aug-18 17	67	67	100.00
61	Ghaghra	Darauli	Bihar	59.82	60.82	61.74	29/08/1998	61.08	07-Sep-18 00	62	62	100.00
62	Ghaghra	Gangpur Siswan	Bihar	56.04	57.04	58.01	18/09/1983	57.38	07-Sep-18 23	50	50	100.00
63	Ghaghra	Chhapra	Bihar	52.68	53.68	54.59	03/09/1982	52.36	13-Sep-18 01	0	0	-
64	Rapti	Balrampur	Uttar Pradesh	103.62	104.62	105.25	11/09/2000	104.91	07-Aug-18 16	32	31	96.88
65	Rapti	Bansi	Uttar Pradesh	83.90	84.90	85.82	21/08/1998	84.37	18-Aug-18 21	13	13	100.00
66	Rapti	Gorakpur_Birdghat	Uttar Pradesh	73.98	74.98	77.54	23/08/1998	74.16	16-Aug-18 01	5	5	100.00
67	Sone	Inderpuri	Bihar	107.20	108.20	108.85	23/08/1975	106.10	09-Sep-18 15	0	0	-
68	Sone	Koelwar	Bihar	54.52	55.52	58.88	20/07/1971	53.48	10-Sep-18 14	0	0	-
69	Sone	Maner	Bihar	51.00	52.00	53.79	10/09/1976	52.32	14-Sep-18 02	15	15	100.00
70	Sone	Bansagar Dam	Madhya Pradesh		FRL 341.65			341.64	14-Sep-18 08	21	8	38.10

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						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)			
1	2	3	4	5	6	7	8	9	10	11	12	13
71	PunPun	Sripalpur	Bihar	49.60	50.60	53.91	18/09/1976	52.25	06-Sep-18 16	23	21	91.30
72	Yamuna	Karnal Bridge	Haryana	248.80	249.50	250.07	17-06-2013	248.67	30-Jul-18 04	1	1	100.00
73	Yamuna	Paonta Sahib	Himachal Pradesh	383.50	384.50	384.60	05-09-1995	382.90	29-Jul-18 07	0	0	-
74	Gandak	Khadda	Uttar Pradesh	95.00	96.00	97.50	23/07/2002	95.35	10-Jul-18 22	84	83	98.81
75	Ganga	Fathegarh	Uttar Pradesh	136.60	137.60	138.14	26-09-2010	137.72	09-Sep-18 01	54	54	100.00
76	Ganga	Dabri	Uttar Pradesh	136.30	137.30	139.70	28-09-1983	137.83	03-Sep-18 01	37	37	100.00
77	Ganga	Garhmuktheswar	Uttar Pradesh	198.33	199.33	199.90	23-09-2010	198.76	27-Aug-18 09	35	35	100.00
78	Ganga	Kachla Bridge	Uttar Pradesh	161.00	162.00	162.79	24-09-2010	162.27	06-Sep-18 06	75	75	100.00
79	Gandak	Chatia	Bihar	68.15	69.15	70.04	26/07/2002	67.35	08-Aug-18 23	0	0	-
80	Gandak	Rewaghat	Bihar	53.41	54.41	55.41	17/09/1986	53.66	04-Sep-18 07	16	16	100.00
81	Gandak	Hazipur	Bihar	49.32	50.32	50.93	1948	49.72	13-Sep-18 14	12	12	100.00
82	Rihand	Rihand Dam	Uttar Pradesh			FRL=268.22		264.44	13-Sep-18 08	19	5	26.32
83	Ganga	Dharmanagri Barrage	Uttar Pradesh	Bijnor				219.30	31-Aug-18 02	0	0	-
84	Ramganga	Kalagarh Dam	Uttarakhand	uri Garhwal	366.2	365.3		257.27	20-Jun-18 13	0	0	-
85	Burhi Gandak	Lalbeghiaghat	Bihar	62.20	63.20	67.09	30/07/1975	61.83	02-Sep-18 12	0	0	-
86	Burhi Gandak	Muzaffarpur	Bihar	51.53	52.53	54.29	15/08/1987	50.38	05-Sep-18 04	0	0	-
87	Burhi Gandak	Samastipur	Bihar	45.02	46.02	49.38	15/08/1987	43.86	07-Sep-18 02	0	0	-
88	Burhi Gandak	Rosera	Bihar	41.63	42.63	46.35	16/08/1987	41.58	07-Sep-18 09	0	0	-
89	Burhi Gandak	Khagaria	Bihar	35.58	36.58	39.22	1976	37.68	15-Sep-18 08	48	48	100.00
90	Bagmati	Benibad	Bihar	47.68	48.68	50.01	12/07/2004	49.47	16-Aug-18 12	76	75	98.68
91	Bagmati	Hayaghat	Bihar	44.72	45.72	48.96	14/08/1987	45.13	19-Aug-18 13	12	12	100.00
92	Adhwara Group	Kamtaul	Bihar	49.00	50.00	52.99	12/08/1987	50.00	18-Aug-18 07	23	23	100.00
93	Adhwara Group	Ekmighat	Bihar	45.94	46.94	49.52	12/07/2004	46.30	26-May-18 18	6	6	100.00
94	Kamla Balan	Jhanjharpur	Bihar	49.00	50.00	53.01	10/07/2004	51.36	05-Jul-18 23	217	212	97.70
95	Kosi	Basua	Bihar	46.75	47.75	49.17	25/08/2010	48.69	15-Aug-18 06	142	140	98.59
96	Kosi	Baltara	Bihar	32.85	33.85	36.40	15/08/1987	35.01	18-Aug-18 06	87	86	98.85
97	Kosi	Kursela	Bihar	29.00	30.00	32.04	06/09/1998	30.90	16-Sep-18 12	50	50	100.00
98	Mahananda	Dhengraghat	Bihar	34.65	35.65	38.09	1968	36.58	06-Jul-18 13	35	35	100.00
99	Mahananda	Jhawa	Bihar	30.40	31.40	33.51	14/08/1987	31.68	06-Jul-18 21	47	47	100.00
100	Gandak	Dumariaghat	Bihar	61.22	62.22	63.60	18-08-2014	62.82	08-Aug-18 17	95	95	100.00
101	Burhigandak	Ahirwalia	Bihar	58.62	59.62	61.17		56.65	03-Sep-18 12	0	0	-
102	Mayurakshi	Massanjore Dam	Jharkhand	121.31		122.87	25/09/1999	116.40	18-Sep-18 00	0	0	-
103	Mayurakshi	Tilpara Barrage	West Bengal	62.79		67.05	27/09/1978	62.79	27-Oct-18 12	0	0	-
104	Mayurakshi	Narayanpur	West Bengal	26.99	27.99	29.69	27/09/1995	21.70	22-Aug-18 15	0	0	-
105	Ajoy	Gheropara	West Bengal	38.42	39.42	43.94	27/09/1978	35.94	29-Jun-18 18	0	0	-
106	Damodar	Tenughat Dam	Jharkhand	268.83		265.56	17/09/1985	260.97	26-Aug-18 12	33	33	100.00

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						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)			
1	2	3	4	5	6	7	8	9	10	11	12	13
107	Damodar	Panchet Dam	Jharkhand	132.59		132.89	02/10/1959	125.69	15-Sep-18 00	42	42	100.00
108	Damodar	Durgapur Barrage	West Bengal	64.47		64.47	31/10/2002	64.46	26-May-18 03	40	37	92.50
109	Barakar	Maithon Dam	Jharkhand	150.88		151.79	02/10/1959	147.11	12-Sep-18 15	22	21	95.45
110	Barakar	Tilaiya Dam	Jharkhand					368.52	21-Sep-18 06	0	0	-
111	Ashra nadi	Sikatia Barrage	Jharkhand		165.22	169.24		169.85	23-Aug-18 12	0	0	-
112	Konar	Konar Dam	Jharkhand					424.34	23-Sep-18 09	0	0	-
113	Mundeshwari	Harinkhola	West Bengal	11.80	12.80	14.58	29/09/1978	8.00	29-Jul-18 18	0	0	-
114	Kangsabati	Kangsabati Dam	West Bengal	134.11		134.71	02/09/1978	129.40	18-Sep-18 18	14	13	92.86
115	Kangsabati	Mohanpur	West Bengal	24.73	25.73	29.87	02/09/1978	23.48	30-May-18 08	0	0	-
	2 b Brahmaputra Basin											
116	siang	Passighat	Arunachal Pradesh	152.96	153.96	157.54	11-06-2000	154.28	14-Sep-18 12	73	72	98.63
117	Noa-Dehing	Namsai	Arunachal Pradesh	140.6	141.1	145.03	31-08-1974	139.75	03-Jul-18 06	0	0	-
118	Brahmaputra	Dibrugrah	Assam	104.70	105.70	106.48	03/09/1998	105.75	14-Sep-18 13	173	173	100.00
119	Brahmaputra	Neamatighat	Assam	84.04	85.04	87.37	11/07/1991	86.60	15-Sep-18 00	121	121	100.00
120	Brahmaputra	Tezpur	Assam	64.23	65.23	66.59	27/08/1988	65.76	16-Sep-18 12	78	78	100.00
121	Brahmaputra	Guwahati	Assam	48.68	49.68	51.46	21/07/2004	49.70	17-Sep-18 08	20	20	100.00
122	Brahmaputra	Goalpara	Assam	35.27	36.27	37.43	31/07/1954	36.17	18-Sep-18 04	38	38	100.00
123	Brahmaputra	Dhubri	Assam	27.62	28.62	30.36	28/08/1988	28.93	19-Sep-18 01	175	175	100.00
124	Burhidihing	Naharkatia	Assam	119.40	120.40	122.69	17/06/1973	117.70	10-May-18 06	0	0	-
125	Burhidihing	Khwong	Assam	101.11	102.11	104.16	02-09-2015	101.56	01-Aug-18 12	13	13	100.00
126	Desang	Nanglamoraghat	Assam	93.46	94.46	96.49	06/09/1998	95.76	01-Jul-18 13	40	39	97.50
127	Dikhow	Shivsagar	Assam	91.40	92.40	94.19	25/06/1998	94.23	31-Jul-18 23	54	54	100.00
128	Subansiri	Badatighat	Assam	81.53	82.53	86.84	28/06/1972	82.45	15-Sep-18 22	33	33	100.00
129	Dhansiri (S)	Golaghat	Assam	88.50	89.50	91.30	11/10/1986	91.24	02-Aug-18 09	53	53	100.00
130	Dhansiri (S)	Numaligarh	Assam	76.42	77.42	79.87	24/09/1985	80.16	02-Aug-18 06	246	244	99.19
131	Jiabharali	Jiabharali_NTX	Assam	76.00	77.00	78.50	26/07/2007	78.05	02-Aug-18 12	402	398	99.00
132	Kopilli	Kampur	Assam	59.50	60.50	61.86	16/06/1973	61.55	16-Jun-18 10	6	6	100.00
133	Kopilli	Dharmatul	Assam	55.00	56.00	58.09	21/07/2004	55.46	16-Jun-18 16	14	14	100.00
134	Puthimari	Puthimari _NHX	Assam	50.81	51.81	55.08	31/08/2008	53.11	04-Jul-18 22	117	116	99.15
135	Pagladiya	Pagladia_NTX	Assam	51.75	52.75	55.45	08/07/2004	53.03	27-Sep-18 05	36	35	97.22
136	Beki	Beki NHX	Assam	44.10	45.10	46.20	04/08/2000	45.56	01-Aug-18 18	215	215	100.00
137	Manas	Manas NHX	Assam	47.81	48.42	50.08	15/09/1984	48.11	26-Sep-18 18	8	8	100.00
138	Subansiri	Choldhowaghat	Assam	99.02	100.02	101.31	27-07-1972	96.69	14-Sep-18 08	0	0	-
139	Ranganadi	N H Crossing Ranganadi	Assam	93.81	94.81	94.96	13-08-2009	94.85	14-Sep-18 06	18	18	100.00
140	Lohit	Dholla Bazaar	Assam	127.27	128.27	130.07	22-09-2012	126.62	04-Jul-18 05	0	0	-
141	Gaurang	Kokrajhar	Assam	41.85	42.85	43.6	20-08-2015	42.82	04-Jul-18 16	32	32	100.00

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						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)			
1	2	3	4	5	6	7	8	9	10	11	12	13
142	Sankosh	Golakganj	Assam	28.94	29.94	30.95	08/09/2007	30.06	04-Jul-18 18	135	132	97.78
143	Raidak-I	Tufanganj	West Bengal	34.22	35.30	36.36	21/07/1993	35.60	05-Jul-18 06	9	6	66.67
144	Torsa	Ghughumari	West Bengal	39.80	40.41	41.46	03/08/2000	40.25	04-Jul-18 13	31	28	90.32
145	Jaldhaka	NH-31	West Bengal	80.00	80.90	82.33	28-07-1972	80.30	10-Sep-18 10	9	8	88.89
146	Jaldhaka	Mathabhanga	West Bengal	47.70	48.20	49.85	07/09/2007	48.57	10-Sep-18 17	7	6	85.71
147	Tista	Domohani	West Bengal	85.65	85.95	89.30	14/10/1968	86.00	10-Sep-18 14	38	37	97.37
148	Tista	Mekhliganj	West Bengal	65.45	65.95	66.45	13/07/1996	66.04	05-Jul-18 13	54	47	87.04
149	Rangit	Rangit-III HEP Dam	Sikkim					639.20	07-Sep-18 00	0	0	-
	2 c Barak & Others											
150	Barak	APGhat	Assam	18.83	19.83	21.84	01/08/1989	21.33	16-Jun-18 16	19	19	100.00
151	Katakhal	Matizuri	Assam	19.27	20.27	22.73	10/09/2007	22.62	14-Jun-18 06	30	28	93.33
152	Kushiyara	Karimganj	Assam	13.94	14.94	16.57	10/06/2010	16.44	17-Jun-18 00	65	65	100.00
153	Barak	Badarpurghat	Assam	15.85	16.85	18.48	11-09-2007	18.09	16-Jun-18 22	29	29	100.00
154	Manu	Kailashar	Tripura	24.34	25.34	25.79	07/06/1993	25.95	13-Jun-18 18	10	9	90.00
155	Gumti	Sonamura	Tripura	11.50	12.50	14.42	23/07/1993	11.72	21-May-18 06	2	2	100.00
	3. Godavari Basin											
156	Godavari	Atreyapuram	Andhra Pradesh	14.00	15.00			12.85	22-Aug-18 21	0	0	-
157	Godavari	Kopergaon	Maharashtra	490.90	493.68	499.17	1969	490.10	18-Jul-18 07	0	0	-
158	Godavari	Jaikwadi Dam	Maharashtra	463.91		464.69	12/10/1990	460.51	01-Sep-18 15	1	0	0.00
159	Godavari	Gangakhed	Maharashtra	374.00	375.00	377.57	1947	365.13	21-Aug-18 12	0	0	0.00
160	Godavari	Nanded	Maharashtra	353.00	354.00	357.10	06/08/2006	346.95	21-Aug-18 08	0	0	0.00
161	Manjira	Singur Dam	Telangana	523.60		523.60	15/10/1999	517.47	17-Jul-18 07	0	0	-
162	Manjira	Nizamsagar Dam	Telangana	428.24		428.24	15/10/1999	422.64	02-May-18 18	0	0	-
163	Godavari	Sriram Sagar	Telangana	332.54		332.72	13/10/1990	331.26	03-Sep-18 03	4	1	25.00
164	Wainganga	Bhandara	Maharashtra	244.00	244.50	250.90	16/09/2005	244.40	29-Aug-18 08	0	0	-
165	Wainganga	Pauni	Maharashtra	226.73	227.73	232.35	07/09/1994	226.12	18-Jul-18 19	0	0	-
166	Wainganga	Goshikhurd Dam	Maharashtra		FRL=245.50			243.88	20-Oct-18 08	0	0	-
167	Wardha	Balharsha	Maharashtra	171.50	174.00	176.00	15/08/1986	171.25	18-Aug-18 07	0	0	-
168	Godavari	Kaleswaram	Telangana	103.50	104.75	107.05	15/08/1986	101.79	21-Aug-18 11	0	0	-
169	Indravati	Jagdalpur	Chhattisgarh	539.50	540.80	544.68	09/07/1973	541.42	16-Aug-18 19	13	10	76.92
170	Godavari	Eturunagaram	Telangana	73.29	75.79	77.66	24/08/1990	74.19	21-Aug-18 21	7	4	57.14
171	Godavari	Dummagudam	Telangana	53.00	55.00	60.25	16/08/1986	53.53	22-Aug-18 06	5	2	40.00
172	Godavari	Bhadrachalam	Telangana	45.72	48.77	55.66	16/08/1986	47.85	22-Aug-18 10	11	3	27.27
173	Wardha	Sirpur Town	Telangana	160.90	161.90	161.95		161.34	18-Aug-18 14	0	0	
174	Godavari	Kunavaram	Andhra Pradesh	37.74	39.24	51.30	16/08/1986	39.55	22-Aug-18 09	11	8	72.73
175	Godavari	Rajamundry	Andhra Pradesh	17.68	19.51	20.48	16/08/1986	17.44	22-Aug-18 21	0	0	-

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Table 3.4 : Flood Forecasting Information in India during Flood Season 2018

Sl.No.	Name of the River	Name of FF Site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level		No.of Forecasts issued	No.of Forecasts within limits	Percent-age of Accuracy
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)			
1	2	3	4	5	6	7	8	9	10	11	12	13
176	Godavari	Sripada Yellampally Dam	Telangana	FRL 148				148.00	29-Sep-18 12	0	0	-
177	Godavari	Dowalaiswaram	Andhra Pradesh	14.25	16.08	18.36	16/08/1986	15.35	22-Aug-18 20	15	13	86.67
178	Kaddamvagu	Kaddam Dam	Telangana		FRL 213.21			213.10	16-Aug-18 17	0	0	-
	4. Krishna Basin											
179	Krishna	Dr K L R S Pulichintala Dam	Andhra Pradesh	FRL 53.34				46.63	06-Sep-18 00	8	7	87.50
180	Krishna	Arjunwad	Maharashtra	542.07	543.29	543.69	05-08-2005	536.40	20-Jul-18 16	0	0	-
181	Krishna	Alamati Dam	Karnataka	519.60		519.60	18-09-2002	519.60	08-Aug-18 12	42	41	97.62
182	Krishna	Narayanpur Dam	Karnataka	492.25		492.22	26-09-2008	492.25	10-Sep-18 23	60	56	93.33
183	Krishna	Priyadarshini	Telangana	318.52		318.50	09-10-2012	318.57	16-Aug-18 20	59	53	89.83
184	Krishna	Srisailam Dam	Andhra Pradesh	269.75		273.25	03-10-2009	269.47	28-Aug-18 22	70	66	94.29
185	Krishna	Prakasham Barrage	Andhra Pradesh	18.30		21.50	07-10-1903	17.39	25-Jul-18 00	12	11	91.67
186	Bhima	Deongaon	Karnataka	402.00	404.50	407.34	13-08-2006	397.50	29-Aug-18 17	0	0	-
187	Tungabhadra	Tungabhadra Dam	Karnataka	497.74		497.74	08-10-1994	497.72	31-Aug-18 12	137	132	96.35
188	Tungabhadra	Sunkesula Barrage	Andhra Pradesh	FRL 292				292.00	26-Sep-18 20	63	54	85.71
189	Tungabhadra	Kurnool	Andhra Pradesh	276.00	278.00	285.22	02-10-2009	273.77	18-Aug-18 07	6	2	33.33
190	Tunga	Upper Tunga	Karnataka		FRL 588.24			588.24	25-Nov-18 08	89	77	86.52
191	Bhadra	Bhadra Dam	Karnataka		FRL 657.75			657.76	15-Sep-18 08	86	73	84.88
192	Tungabhadra	Mantralayam	Andhra Pradesh	310.00	312.00	318.77	02-10-2009	312.48	17-Aug-18 22	16	10	62.50
	5. Cauvery Basin											
193	Cauvery	Krishnarajasagar	Karnataka		FRL 752.49			752.49	22-Oct-18 08	108	89	82.41
194	Cauvery	Mettur Dam	Tamil Nadu		FRL=240.79			240.91	24-Jul-18 08	153	128	83.66
195	Bhavani	Bhavanisagar Dam	Tamil Nadu		FRL=280.42			279.50	28-Aug-18 08	87	70	80.46
196	Cauvery	Grand Anicut	Tamil Nadu					64.31	25-Sep-18 08	105	88	83.81
197	Cauvery	Upper Anicut	Tamil Nadu					81.32	12-Jun-18 08	110	79	71.82
198	Harangi	Harangi Dam	Karnataka		FRL 871.42			871.25	09-Aug-18 08	60	47	78.33
199	Hemavathy	Hemavathy Dam	Karnataka		FRL 890.63			890.72	06-Nov-18 08	88	76	86.36
200	Kabini	Kabini Dam	Karnataka		FRL 696.16			696.16	21-Oct-18 08	90	73	81.11
201	Cauvery	Musiri	Tamil Nadu	84.50	85.50	86.18	13-11-1977	84.52	18-Aug-18 04	25	25	100.00
202	Cauvery	Kodumudi	Tamil Nadu	125.50	126.50	127.83	25-10-2005	128.12	17-Aug-18 08	31	31	100.00
203	Bhavani	Savandapur	Tamil Nadu	184.50	185.50	186.88	11-02-1979	187.75	17-Aug-18 01	6	6	100.00
	6. Subarnarekha											
204	Subernarekna	Jamshedpur	Jharkhand	122.50	123.50	129.82	12-10-1973	120.50	07-Aug-18 00	0	0	-
205	Subernarekna	Chandil Dam	Jharkhand		FRL 192			181.30	29-Sep-18 11	0	0	-
206	Subernarekna	Rajghat	Odisha	9.45	10.36	12.69	19/06/2008	10.20	07-Aug-18 21	2	2	100.00
207	Burhabalang	NH_5 _Road Bridge	Odisha	7.21	8.13	9.50	12/10/1973	8.24	13-Oct-18 18	7	7	100.00

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Table 3.4 : Flood Forecasting Information in India during Flood Season 2018

Sl.No.	Name of the River	Name of FF Site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level		No.of Forecasts issued	No.of Forecasts within limits	Percent-age of Accuracy
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)			
1	2	3	4	5	6	7	8	9	10	11	12	13
	7. Brahmani and Baitarani											
208	Baitarni	Anandpur	Odisha	37.44	38.36	41.35	23-09-2011	38.40	07-Sep-18 20	3	3	100.00
209	Baitarni	Akhuapada	Odisha		17.83	21.95	16/08/1960	18.50	08-Sep-18 07	42	42	100.00
210	Brahmani	Jenapur	Odisha	22.00	23.00	24.78	20/08/1975	21.24	06-Sep-18 04	0	0	-
211	Brahmani	Rengali Dam	Odisha		FRL 123.5			124.01	10-Sep-18 06	0	0	-
	8. Mahanadi Basin											
212	Mahanadi	Hirakud Dam	Odisha		192.02	192.30	30/01/1998	191.89	01-Oct-18 07	54	53	98.15
213	Mahanadi	Naraj	Odisha	25.41	26.41	27.61	31/08/1982	26.22	23-Jul-18 10	9	9	100.00
214	Mahanadi	Alipingal Devi	Odisha	10.85	11.76	13.11	11-09-2011	9.44	24-Jul-18 03	0	0	-
215	Mahanadi	Nimapara	Odisha	9.85	10.76	11.60	31/08/1982	8.36	24-Jul-18 11	0	0	-
	9. Pennar Basin											
216	North Pennar	Somasila Dam	Andhra Pradesh		FRL 100.58			95.50	16-Oct-18 08	6	5	83.33
217	Pennar	Nellore	Andhra Pradesh	15.91	17.28	18.70	30-11-1882	13.38	22-Nov-18 03	0	0	-
	10. Mahi Basin											
218	Mahi	Mahi Bajajsagar Dam	Rajasthan		FRL 281.5			280.95	19-Oct-18 12	0	0	-
219	Som Kamla	Som Kamla Amba Dam	Rajasthan		FRL 212.5			213.50	24-Sep-18 08	0	0	-
220	Mahi	Kadana Dam	Gujarat	126.19	127.71	127.74	09/09/1989	127.32	30-Sep-18 12	1	0	-
221	Mahi	Wanakbori	Gujarat	71.93	74.98	76.10	12/08/2006	67.97	13-Aug-18 18	0	0	-
222	Panam	Panam Dam	Gujarat		FRL 121.41			127.41	27-Sep-18 19	0	0	-
	11. Sabarmati Basin											
223	Sabarmati	Dharoi Dam	Gujarat	187.45	192.25	189.63	03/09/1990	182.69	30-Sep-18 17	0	0	-
224	Sabarmati	Ahmedabad Shubhash Bridge	Gujarat	44.09	45.34	47.45	19/08/2006	41.30	02-Oct-18 23	0	0	-
	12. Narmada Basin											
225	Naramada	Mandla	Madhya Pradesh	437.20	437.80	439.41	18/08/1974	437.37	23-Jul-18 19	5	4	80.00
226	Naramada	Hoshangabad	Madhya Pradesh	292.83	293.83	300.90	30/08/1973	288.40	01-Sep-18 19	0	0	-
227	Naramada	Garudeswar	Gujarat	30.48	31.09	41.65	06/09/1970	14.55	17-Aug-18 13	0	0	-
228	Naramada	Bharuch	Gujarat	6.71	7.31	12.65	07/09/1970	5.06	14-Jul-18 19	0	0	-
	13. Tapi Basin											
229	Tapi	Hatnur Dam	Maharashtra	212.00	214.00	214.00	12/10/1989	214.00	19-Oct-18 05	30	30	100.00
230	Tapi	Ukai Dam	Gujarat	102.41	105.16	105.51	08/10/1990	97.25	24-Sep-18 18	5	4	80.00
231	Tapi	Surat	Gujarat	8.50	9.50	12.50	09/08/2006	4.60	09-Oct-18 15	0	0	-
	14. West Flowing rivers from Tapi to Tadri											
232	Damanganga	Madhuban Dam	Gujarat	79.86	82.40	80.60	27/09/1993	78.20	28-Sep-18 00	13	13	100.00
233	Damanganga	Vapi Town	Gujarat	18.20	19.20	23.76	03/08/2004	17.50	16-Jul-18 19	0	0	-
234	Damanganga	Daman	Dadra & Nagar Haveli	2.60	3.40	4.00	03/08/2004	2.20	15-Jun-18 15	0	0	-

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Table 3.4 : Flood Forecasting Information in India during Flood Season 2018

Sl.No.	Name of the River	Name of FF Site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level		No.of Forecasts issued	No.of Forecasts within limits	Percent-age of Accuracy
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)			
1	2	3	4	5	6	7	8	9	10	11	12	13
	16. East flowing rivers between Mahanadi and Pennar											
235	Rushikuluya	Purushottampur	Odisha	15.83	16.83	19.65	04/11/1990	18.60	12-Oct-18 08	6	5	83.33
236	Vamsadhara	Gunupur	Odisha	83.00	84.00	88.75	17/09/1980	85.22	12-Oct-18 02	11	10	90.91
237	Vamsadhara	Kashinagar	Odisha	53.60	54.60	58.93	18/09/1980	56.30	12-Oct-18 09	69	68	98.55
238	Vamsadhara	Gotta Barrage	Andhra Pradesh	34.84	34.84	39.92	07/10/1999	38.10	02-Oct-18 10	12	12	100.00
239	Nagavali	Srikakulam	Andhra Pradesh	10.17	10.8	14.53	12-05-1990	11.21	16-Aug-18 09	4	4	100.00
240	Nagavali	Thottapalli Reservoir Scheme	Andhra Pradesh		FRL 105.00			103.57	20-Sep-18 06	1	1	100.00
241	Nagavali	Narayanapuram Anicut	Andhra Pradesh		32.77			28.97	20-Sep-18 06	1	1	100.00
242	Suwarnamukhi	Madduvalasa Reservoir	Andhra Pradesh					64.59	20-Sep-18 06	1	1	100.00
	17. East flowing rivers between Pennar and Kanyakumari											
243	Vaigai	Vaigai Dam	Tamilnadu		FRL=279.2			278.68	29-Aug-18 06	64	61	95.31
244	Kosasthaliyar	Poondi Satyamurthy reservoir	Tamilnadu		FRL=42.67			39.54	27-Oct-18 06	0	0	-
245	South Pennar	Sathnur Dam	Tamilnadu		FRL=222.2			215.36	07-Dec-18 06	0	0	-
246	Gomukhinadi	Gomukhi Dam	Tamilnadu					181.17	27-Nov-18 06	0	0	-
247	Periyar Odai	Wellington Dam	Tamilnadu		FRL=72.54			65.80	25-Nov-18 06	0	0	-
248	Adyar	Chembarampakkam	Tamilnadu		FRL=26.03			22.94	21-May-18 06	0	0	-
	18. West flowing rivers of Kutch and Saurashtra including Luni											
249	Banas	Dantiwada Dam	Gujarat	182.88	185.06	186.04	01/09/1973	172.46	27-Jul-18 15	0	0	-
							Total Forecasts			***6851***	***6495***	**94.80**
							Level Forecasts			**4969**	**4871**	**98.03**
							Inflow Forecast			**1882**	**1624**	**86.29**

Source : FFM Dte., Central Water Commission

Table 3.5 : Comparative Flood Forecasting Performance from 2000 to 2018

Year	No.of Level Forecasts Issued			No.of Inflow Forecasts Issued			Total No.of Forecasts Issued		
	Total	Within +/-15 cm of deviation from actual	Accuracy (%)	Total	Within +/-20% cumec of deviation from actual	Accuracy (%)	Total	Within +/-15 cm or +/-20% cumec of deviation from actual	Accuracy (%)
1	2	3	4	5	6	7	8	9	10
2000	5622	5504	97.90	821	747	90.99	6443	6251	97.02
2001	4606	4533	98.42	857	809	94.40	5463	5342	97.79
2002	3618	3549	98.09	623	602	96.63	4241	4151	97.88
2003	5989	5789	96.66	611	586	95.91	6600	6375	96.59
2004	4184	4042	96.61	705	654	92.77	4889	4696	96.05
2005	4323	4162	96.28	1295	1261	97.37	5618	5423	96.53
2006	5070	4827	95.21	1593	1550	97.30	6663	6377	95.71
2007	6516	6339	97.28	1707	1651	96.72	8223	7990	97.17
2008	5670	5551	97.90	1021	1003	98.24	6691	6554	97.95
2009	3343	3298	98.65	667	629	94.30	4010	3927	97.93
2010	6491	6390	98.44	1028	988	96.11	7519	7378	98.12
2011	4848	4795	98.91	1143	1109	97.03	5991	5904	98.55
2012	4200	4136	98.47	831	803	96.63	5031	4939	98.17
2013	5741	5471	95.30	1319	1289	97.73	7060	6760	95.75
2014	3884	3804	97.94	888	863	97.18	4772	4667	97.80
2015	3500	3429	97.97	572	562	98.25	4072	3991	98.01
2016	4969	4891	98.43	1270	1057	83.23	6239	5948	95.34
2017	5085	4975	97.84	1212	926	76.40	6297	5901	93.71
2018	4969	4871	98.03	1882	1624	86.29	6851	6495	94.80
Average	**4875**	**4756**	**97.56**	**1055**	**985**	**93.36**	**5930**	**5740**	**96.80**

Source : FFM Directorate, CWC

Table 3.6 : Site-wise "Forecast Performance" of Flood Forecasting sites of CWC in Flood Season, 2017

Sl. No.	Details of sites within different range of permissible limit of accuracy (±15cm,±20%cumec)	Flood Season 2017	
		No. of Sites	% age
1	2	3	4
1	Sites with performance accuracy between 0.0 % to 25.0%	8	5.63
2	Sites with performance accuracy between 25.1 % to 50.0%	7	4.92
3	Sites with performance accuracy between 50.1 % to 75.0%	13	9.15
4	Sites with performance accuracy between 75.1 % to 99.99%	56	39.43
5	Sites with 100% performance accuracy i.e. where all forecasts issued were within permissible limit of accuracy	58	40.84
	Total sites where forecasts were issued	**142**	**100**

Source : FFM Directorate, Central Water Commission

Table 3.7 : Extreme Flood Events in India under CWC, FF & W Network - 2018 Flood Season

Sl. No	River	Station	State	Danger level in metres	Existing Highest Flood Level (HFL)		New HFL			Duration	
					Level in metres	Date of Occurrence	Level	Date and Time of Occurrence		From	To
1	2	3	4	5	6	7	8	9	10	11	12
1	Manu	Kailashar	Tripura	25.34	25.79	07/06/1993	25.95	13/06/2018 0900		13/06/2018 09	14/06/2018 00
2	Dikhow	Shivsagar	Assam	92.40	94.19	25/06/1998	94.23	01/08/2018 0400		31/07/2018 23	01/08/2018 10
3	Dhansiri (S)	Numaligarh	Assam	77.42	79.87	24/09/1985	80.16	02/08/2018 0600		02/08/2018 06	04/08/2018 17
4	Cauvery	Kodumudi	Tamil Nadu	126.5	127.83	25-10-2005	128.12	17/08/2018 0800		17/08/2018 08	19/08/2018 03
5	Bhavani	Savandapur	Tamil Nadu	185.5	186.87	11-02-1979	187.75	17/08/2018 0100		17/08/2018 01	18/08/2018 04

Source : FFM Directorate, Central Water Commission

Table 3.8 : Above Normal and Severe Flood Events on Main Ganga and its tributaries- 2018 Flood Season

Sl. No.	River	Station	State	Warning level in metres	Danger level in metres	Peak level in 2018		Flood period above warning level			Flood period above Danger level		
						Level in metres	Date/Time	From	To	No.of days	From	To	No.of days
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Alaknanda	Srinagar	Uttarakhand	535.00	536.00	535.45	17-Jul-18 11	17/07/2018 08	17/07/2018 12	1	-	-	-
								26/07/2018 07	26/07/2018 08	1	-	-	-
								30/08/2018 07	30/08/2018 10	1	-	-	-
2	Ganga	Rishikesh	Uttarakhand	339.50	340.50	340.00	25-Aug-18 17	06/08/2018 08	06/08/2018 11	1	-	-	-
								13/08/2018 05	13/08/2018 07	1	-	-	-
								24/08/2018 04	24/08/2018 15	1	-	-	-
								25/08/2018 04	26/08/2018 15	2	-	-	-
								27/08/2018 04	27/08/2018 12	1	-	-	-
								27/08/2018 23	28/08/2018 05	1	-	-	-
								29/08/2018 13	29/08/2018 20	1	-	-	-
								30/08/2018 09	30/08/2018 19	1	-	-	-
3	Ganga	Haridwar	Uttarakhand	293.00	294.00	293.92	30-Aug-18 18	06/08/2018 05	06/08/2018 15	1	-	-	-
								08/08/2018 04	08/08/2018 05	1	-	-	-
								13/08/2018 03	13/08/2018 15	1	-	-	-
								24/08/2018 06	24/08/2018 17	1			
								25/08/2018 05	26/08/2018 18	2			
								27/08/2018 05	27/08/2018 16	1	-	-	-
								28/08/2018 03	28/08/2018 07	1	-	-	-
								29/08/2018 13	30/08/2018 01	2	-	-	-
								30/08/2018 08	30/08/2018 21	1	-	-	-
								01/09/2018 13	01/09/2018 17	1	-	-	-
4	Mandakini	Ganganagar	Uttarakhand	803.00	804.00	801.10	12-Aug-18 20	-	-	-	-	-	-
5	Ganga	Kannauj	Uttar Pradesh	124.97	125.97	125.85	02-Sep-18 22	10/08/2018 01	15/08/2018 05	6	-	-	-
								17/08/2018 01	12/09/2018 11	27	-	-	-
6	Ganga	Ankinghat	Uttar Pradesh	123.00	124.00	123.25	17-Aug-17 01	02/08/2018 13	05/08/2018 08	4	01/09/2018 05	05/09/2018 13	5
								08/08/2018 14	13/09/2018 21	6	05/09/2018 17	06/09/2018 09	1
								29/09/2018 07	30/09/2018 19	2			
7	Ganga	Kanpur	Uttar Pradesh	113.00	114.00	112.21	18-Aug-17 02	03/08/2018 13	05/08/2018 10	3			
								09/08/2018 11	14/09/2018 06	6	-	-	-
8	Ganga	Dalmau	Uttar Pradesh	98.36	99.36	98.83	06-Sep-18 03	30/08/2018 19	12/09/2018 11	14	-	-	-
9	Ganga	Phphamau	Uttar Pradesh	83.73	84.73	83.12	12-Sep-18 04	-	-	-	-	-	-
10	Ganga	Allahabad Chhatnag	Uttar Pradesh	83.73	84.73	82.24	12-Sep-18 01	-	-	-	-	-	-
11	Ganga	Mirzapur	Uttar Pradesh	76.72	77.72	75.52	12-Sep-18 08	-	-	-	-	-	-
12	Ganga	Varanasi	Uttar Pradesh	70.26	71.26	70.18	12-Sep-18 04	-	-	-	-	-	-
13	Ganga	Ghazipur	Uttar Pradesh	62.11	63.11	63.19	12-Sep-18 18	05/09/201810	15/09/2018 10	11	12/09/2018 05	13/09/2018 13	2
14	Ganga	Buxar	Bihar	59.32	60.32	60.01	13-Sep-18 00	05/09/2018 13	15/09/2018 04	11	-	-	-
15	Ganga	Ballia	Uttar Pradesh	56.62	57.62	59.05	13-Sep-18 01	30/08/2018 06	18/09/2018 23	20	04/09/2018 10	16/09/2018 14	13
16	Ganga	Patna Dighaghat	Bihar	49.45	50.45	50.72	14-Sep-18 00	29/08/2018 23	17/09/2018 16	20	05/09/2018 200	15/09/2018 16	11
17	Ganga	Patna Gandhighat	Bihar	47.60	48.60	49.60	14-Sep-18 01	01/08/2018 22	20/09/2018 03	51	31/08/2018 14	17/09/2018 02	18
18	Ganga	Hathidah	Bihar	40.76	41.76	42.56	14-Sep-18 19	05/08/2018 19	14/08/2018 19	10	03/09/2018 03	18/09/2018 09	15
								17/08/2018 06	21/09/2018 03	36			
19	Ganga	Munger	Bihar	38.33	39.33	39.20	16-Sep-18 00	05/09/2018 09	18/09/2018 05	14	-	-	-
20	Ganga	Bhagalpur	Bihar	32.68	33.68	33.86	16-Sep-18 07	31/08/2018 19	20/09/2018 06	21	10/09/2018 19	18/09/2018 01	9
21	Ganga	Colgong/ Kahalgaon	Bihar	30.09	31.09	31.85	16-Sep-18 17	03/08/2018 06	21/09/2018 22	50	06/09/2018 16	19/06/2018 17	14

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Table 3.8 : Above Normal and Severe Flood Events on Main Ganga and its tributaries- 2018 Flood Season

Sl. No.	River	Station	State	Warning level in metres	Danger level in metres	Peak level in 2018		Flood period above warning level			Flood period above Danger level		
						Level in metres	Date/Time	From	To	No.of days	From	To	No.of days
1	2	3	4	5	6	7	8	9	10	11	12	13	14
22	Ganga	Sahibgunj	Jharkhand	26.25	27.25	28.50	16-Sep-18 17	01/08/2018 05	25/09/2018 04	56	06/08/2018 23	11/08/2018 13	6
											02/09/2018 08	22/09/2018 02	21
23	Ganga	Farakka	West Bengal	21.25	22.25	23.47	17-Sep-18 08	02/08/2018 10	24/09/2018 13	54	08/08/2018 07	15/08/2018 05	8
											20/08/2018 01	23/08/2018 17	4
											26/08/2018 07	21/09/2018 20	27
24	Ramganga	Moradabad	Uttar Pradesh	189.60	190.60	191.40	28-Aug-18 22	01/08/2018 12	02/08/2018 08	2			
								14/08/2018 06	18/08/2018 19	5			
								25/08/2018 20	06/09/2018 10	13			
								25/09/2018 21	28/09/2018 16	4			
25	Ramganga	Bareilly	Uttar Pradesh	162.70	163.70	161.34	01-Sep-18 06	-	-	-	-	-	-
26	Yamuna	Mawi	Uttar Pradesh	230.00	230.85	231.52	30-Jul-18 12	27/07/2018 11	01/08/2018 22	6	29/07/2018 12	31/07/2018 12	3
								06/08/2018 22	09/08/2018 18	4			
								13/08/2018 21	15/08/2018 23	3			
								04/09/2018 10	04/09/2018 15	1			
								25/09/2018 00	28/09/2018 01	4			
27	Yamuna	Delhi Rly Bridge	NCT Delhi	204.00	204.83	206.05	31-Jul-18 15	27/07/2018 18	03/08/2018 11	8	28/07/2018 06	01/08/2018 14	5
								07/08/2018 16	11/08/2018 12	5	09/08/2018 04	09/08/2018 18	1
								14/08/2018 09	17/08/2018 09	4	14/08/2018 13	16/08/2018 08	3
								05/09/2018 00	07/09/2018 19	3	25/09/2018 09	28/09/2018 09	4
								24/09/2018 18	02/10/2018 02	9			
28	Yamuna	Mathura	Uttar Pradesh	164.20	165.20	165.70	02-Aug-18 17	31/07/2018 06	03/08/2018 16	4			
								16/08/2018 12	16/08/2018 15	1			
								16/08/2018 17	18/08/2018 03	2			
								27/09/2018 00	27/09/2018 03	1			
								27/09/2018 10	27/09/2018 21	0			
								28/09/2018 01	29/09/2018 17	2			
29	Yamuna	Agra	Uttar Pradesh	151.40	152.40	150.42	03-Aug-18 07	-	-	-	-	-	-
30	Yamuna	Etawa	Uttar Pradesh	120.92	121.92	120.02	04-Aug-18 13	-	-	-	-	-	-
31	Yamuna	Auraiya	Uttar Pradesh	112.00	113.00	111.21	10-Sep-18 23	-	-	-	-	-	-
32	Yamuna	Kalpi	Uttar Pradesh	107.00	108.00	105.52	10-Sep-18 22	-	-	-	-	-	-
33	Yamuna	Hamirpur	Uttar Pradesh	102.63	103.63	101.37	11-Sep-18 00	-	-	-	-	-	-
34	Yamuna	Chilaghat	Uttar Pradesh	99.00	100.00	97.44	11-Sep-18 06	-	-	-	-	-	-
35	Yamuna	Naini	Uttar Pradesh	83.74	84.74	82.96	12-Sep-18 06	-	-	-	-	-	-
36	Sahibi	Dhansa	NCT Delhi	211.44	212.44	210.33	02-Oct-18 17	-	-	-	-	-	-
37	Betwa	Mohana	Uttar Pradesh	121.66	122.66	121.16	03-Sep-18 03	-	-	-	-	-	-
38	Betwa	Sahjina	Uttar Pradesh	103.54	104.54	100.42	10-Sep-18 13	-	-	-	-	-	-
39	Ken	Banda	Uttar Pradesh	103.00	104.00	104.15	09-Sep-18 06	08/09/2018 20	09/09/2018 17	2	09/09/2018 03	09/09/2018 09	1
40	Gomati	Lucknow	Uttar Pradesh	108.50	109.50	106.27	05-Sep-18 08	-	-	-	-	-	-
41	Gomati	Jaunpur	Uttar Pradesh	73.07	74.07	71.70	04-Aug-18 00	-	-	-	-	-	-
42	SAI	Raibareli	Uttar Pradesh	100.00	101.00	101.86	05-Aug-18 17	01/08/2018 11	18/08/2018 18	18	03/08/2018 07	10/08/2018 07	8
								08/09/2018 00	12/09/2018 08	5			
43	Ghaghra	Elginbridge	Uttar Pradesh	105.07	106.07	106.95	28-Aug-18 06	03/07/2018 20	06/07/2018 17	4	15/07/2018 17	16/07/2018 09	2
								11/07/2018 22	21/09/2018 12	11	24/07/2018 17	01/08/2018 12	9
								26/09/2018 05	29/09/2018 07	4	01/08/2018 22	10/09/2018 09	41

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Table 3.8 : Above Normal and Severe Flood Events on Main Ganga and its tributaries- 2018 Flood Season

Sl. No.	River	Station	State	Warning level in metres	Danger level in metres	Peak level in 2018		Flood period above warning level			Flood period above Danger level		
						Level in metres	Date/Time	From	To	No.of days	From	To	No.of days
1	2	3	4	5	6	7	8	9	10	11	12	13	14
44	Ghaghra	Ayodhya	Uttar Pradesh	91.73	92.73	93.38	18-Aug-18 16	04/07/2018 17	06/07/2018 22	3	29/07/2018 01	31/07/2018 07	3
								13/07/2018 15	18/09/2018 08	6	31/07/2018 10	01/08/2018 11	1
											03/08/2018 03	09/09/2018 17	38
45	Ghaghra	Turtipar	Uttar Pradesh	63.01	64.01	64.67	30-Aug-18 17	06/07/2018 07	08/07/2018 09	3	05/08/2018 14	11/09/2018 00	38
								15/07/2018 17	19/07/2018 15	5	-	-	-
								21/07/2018 08	23/07/2018 19	3	-	-	-
								26/07/2018 03	20/09/2018 05	57	-	-	-
46	Ghaghra	Darauli	Bihar	59.82	60.82	61.08	07-Sep-18 00	06/07/2018 12	09/07/2018 12	4	20/08/2018 13	24/08/2018 21	5
								15/07/2018 15	20/07/2018 00	6	28/08/2018 01	09/09/2018 17	13
								28/07/2018 03	20/09/2018 07	55			
47	Ghaghra	Gangpur Siswan	Bihar	56.04	57.04	57.38	07-Sep-18 23	31/07/2018 06	19/09/2018 03	51	29/08/2018 23	10/09/2018 21	13
48	Ghaghra	Chhapra	Bihar	52.68	53.68	52.36	13-Sep-18 01	-	-	-	-	-	-
49	Rapti	Balrampur	Uttar Pradesh	103.62	104.62	104.91	07-Aug-18 16	03/07/2018 12	05/07/2018 03	3	06/08/2018 13	08/08/2018 16	3
								04/08/2018 04	23/08/2018 06	20	14/08/2018 01	15/08/2018 22	2
								23/08/2018 19	24/08/2018 07	1	17/08/2018 03	17/08/2018 07	1
								24/08/2018 09	01/09/2018 10	8	-	-	-
								01/09/2018 20	03/09/2018 10	3	-	-	-
								04/09/2018 16	05/09/2018 01	2	-	-	-
50	Rapti	Bansi	Uttar Pradesh	83.90	84.90	84.37	18-Aug-18 21	08/08/2018 05	12/08/2018 02	5	-	-	-
								13/08/2018 06	22/08/2018 01	10	-	-	-
51	Rapti	Birdghat	Uttar Pradesh	73.98	74.98	74.16	16-Aug-18 01	08/08/2018 19	09/08/2018 07	2	-	-	-
								14/08/2018 13	19/08/2018 07	6	-	-	-
52	Sone	Inderpuri	Bihar	107.20	108.20	106.10	09-Sep-18 15	-	-	-	-	-	-
53	Sone	Koelwar	Bihar	54.52	55.52	53.48	10-Sep-18 14	-	-	-	-	-	-
54	Sone	Maner	Bihar	51.00	52.00	52.32	14-Sep-18 02	03/09/2018 09	17/09/2018 20	15	10/09/2018 12	15/09/2018 14	6
55	PunPun	Sripalpur	Bihar	49.60	50.60	52.25	06-Sep-18 16	31/07/2018 04	02/08/2018 10	3	31/07/2018 17	01/08/2018 18	2
								05/08/2018 02	10/08/2018 17	6	05/08/2018 15	09/08/2018 13	5
								26/08/2018 18	29/08/2018 16	4	04/09/201819	09/09/2018 11	6
								02/09/2018 15	12/09/2018 16	11			
56	Yamuna	Karnal Bridge	Haryana	248.80	249.50	248.67	30-Jul-18 04	-	-				
57	Yamuna	Paonta Sahib	Himachal Pradesh	383.50	384.50	382.90	29-Jul-18 07	-	-				
58	Gandak	Khadda	Uttar Pradesh	95.00	96.00	95.35	10-Jul-18 22	08/07/2018 22	09/07/2018 07	2			
								10/07/2018 07	12/07/2018 13	3			
								13/07/2018 08	18/07/2018 09	6			
								01/08/2018 15	02/08/2018 08	2			
								02/08/2018 15	04/08/2018 13	2			
								05/08/2018 23	08/08/2018 08	4			
								16/08/2018 07	18/08/2018 14	3			
								24/08/2018 22	30/08/2018 22	7			
								31/08/2018 15	02/09/2018 08	3			
								03/09/2018 15	04/09/2018 13	1			
								05/09/2018 16	06/09/2018 10	2			
								11/09/2018 15	14/09/2018 17	4			

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Table 3.8 : Above Normal and Severe Flood Events on Main Ganga and its tributaries- 2018 Flood Season

Sl. No.	River	Station	State	Warning level in metres	Danger level in metres	Peak level in 2018		Flood period above warning level			Flood period above Danger level		
						Level in metres	Date/Time	From	To	No.of days	From	To	No.of days
1	2	3	4	5	6	7	8	9	10	11	12	13	14
59	Ganga	Fathegarh	Uttar Pradesh	136.60	137.60	137.72	09-Sep-18 01	29/07/2018 13	05/08/2018 09	8	30/08/2018 13	10/09/2018 15	12
								06/08/2018 12	16/09/2018 11	42			
								18/09/2018 02	18/09/2018 10	1			
								27/09/2018 10	29/09/2018 17	3			
60	Ganga	Dabri	Uttar Pradesh	136.30	137.30	137.83	03-Sep-18 01	05/08/2018 17	12/08/2018 21	8	28/08/2018 08	09/09/2018 04	13
								16/08/2018 04	22/08/2018 19	7			
								26/08/2018 23	12/09/2018 21	18			
								28/09/2018 14	02/10/2018 23	5			
61	Ganga	Garhmuktheswar	Uttar Pradesh	198.33	199.33	198.76	27-Aug-18 09	27/07/2018 18	31/07/2018 15	5			
								06/08/2018 23	11/08/2018 16	6			
								12/08/2018 10	23/08/2018 23	12			
								24/08/2018 08	06/09/2018 15	14			
62	Ganga	Kachla Bridge	Uttar Pradesh	161.00	162.00	162.27	06-Sep-18 06	14/07/2018 23	15/07/2018 15	2	09/08/2018 12	11/08/2018 02	3
								17/07/2018 07	18/07/2018 21	2	16/08/2018 00	16/08/2018 17	1
								19/07/2018 08	22/07/2018 06	4	28/08/2018 16	08/09/2018 18	12
								25/07/2018 13	20/09/2018 18	58	26/09/2018 12	28/09/2018 04	3
								25/09/2018 10	02/10/2018 15	8			
								31/10/2018 22	01/11/2018 01	2			
								01/11/2018 08	01/11/2018 09	0			
								01/11/2018 13	01/11/2018 14	0			
								01/11/2018 18	01/11/2018 19	0			
								03/11/2018 08	03/11/2018 09	1			
								03/11/2018 13	03/11/2018 14	0			
								03/11/2018 18	03/11/2018 19	0			
								04/11/2018 00	04/11/2018 01	1			
								04/11/2018 08	04/11/2018 09	0			
								04/11/2018 13	04/11/2018 14	0			
63	Gandak	Chatia	Bihar	68.15	69.15	67.35	08-Aug-18 23						
64	Gandak	Rewaghat	Bihar	53.41	54.41	53.66	04-Sep-18 07	07/08/2018 14	10/08/2018 13	4	-	-	-
								18/08/2018 11	19/08/2018 07	2	-	-	-
								30/08/2018 14	01/09/2018 19	3	-	-	-
								02/09/2018 07	08/09/2018 21	7	-	-	-
65	Gandak	Hazipur	Bihar	49.32	50.32	49.72	13-Sep-18 14	05/09/2018 10	16/09/2018 11	12	-	-	-
66	Burhi Gandak	Lalbeghiaghat	Bihar	62.20	63.20	61.83	02-Sep-18 12	-	-	-	-	-	-
67	Burhi Gandak	Muzaffarpur (Sikandarpur)	Bihar	51.53	52.53	50.38	05-Sep-18 04	-	-	-	-	-	-
68	Burhi Gandak	Samastipur	Bihar	45.02	46.02	43.86	07-Sep-18 02	-	-	-	-	-	-
69	Burhi Gandak	Rosera	Bihar	41.63	42.63	41.58	07-Sep-18 09	-	-	-	-	-	-
70	Burhi Gandak	Khagaria	Bihar	35.58	36.58	37.68	15-Sep-18 08	05/08/2018 19	15/08/2018 17	11	02/09/2018 05	19/09/2018 12	18
								17/08/2018 03	21/09/2018 22	36			
71	Bagmati	Benibad	Bihar	47.68	48.68	49.47	16-Aug-18 12	27/06/2018 03	28/06/2018 19	2	03/07/2018 11	07/07/2018 20	5
								03/07/2018 04	19/07/2018 06	17	09/07/2018 20	10/07/2018 14	2
								26/07/2018 02	21/09/2018 22	58	13/07/2018 19	14/07/2018 20	2
											29/07/2018 03	01/08/2018 02	4
											01/08/2018 09	12/08/2018 11	11
											13/08/2018 20	20/08/2018 08	8
											24/08/2018 21	04/09/2018 10	12
											17/09/2018 19	18/09/2018 06	2

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Table 3.8 : Above Normal and Severe Flood Events on Main Ganga and its tributaries- 2018 Flood Season

Sl. No.	River	Station	State	Warning level in metres	Danger level in metres	Peak level in 2018		Flood period above warning level			Flood period above Danger level		
						Level in metres	Date/Time	From	To	No.of days	From	To	No.of days
1	2	3	4	5	6	7	8	9	10	11	12	13	14
72	Bagmati	Hayaghat	Bihar	44.72	45.72	45.13	19-Aug-18 13	16/08/2018 02	23/08/2018 06	8			
								28/08/2018 09	31/08/2018 16	4			
								17/09/2018 15	19/09/2018 00	3			
73	Adhwara Group	Kamtaul	Bihar	49.00	50.00	50.00	18-Aug-18 07	05/07/2018 09	13/07/2018 03	9	17/08/2018 04	18/08/2018 13	2
								07/08/2018 09	12/08/2018 12	6			
								14/08/2018 10	23/08/2018 01	10			
74	Adhwara Group	Ekmighat	Bihar	45.94	46.94	46.30	26-May-18 18	26/05/2018 18	26/05/2018 19	1			
								17/08/2018 17	22/08/2018 13	6			
75	Kamla Balan	Jhanjharpur	Bihar	49.00	50.00	51.36	05-Jul-18 23	15/06/2018 02	15/06/2018 08	1	26/06/2018 18	26/06/2018 22	1
								18/06/2018 01	20/06/2018 13	3	01/07/2018 20	02/07/2018 06	2
								23/06/2018 20	25/06/2018 03	3	03/07/2018 04	07/07/2018 21	5
								25/06/2018 11	29/06/2018 07	4	06/08/2018 13	07/08/2018 10	2
								01/07/2018 02	19/07/2018 08	19	13/08/2018 13	16/08/2018 17	4
								29/07/2018 07	31/07/2018 08	3	28/08/2018 11	28/08/2018 19	1
								05/08/2018 10	21/08/2018 14	17	30/08/2018 12	31/08/2018 10	2
								25/08/2018 10	08/09/2018 17	15	11/09/2018 10	12/09/2018 20	2
								10/09/2018 09	24/09/2018 16	15	14/09/2018 09	16/09/2018 23	3
76	Kosi	Basua	Bihar	46.75	47.75	48.69	15-Aug-18 06	02/07/2018 20	11/09/2018 12	72	11/07/2018 13	12/07/2018 15	2
											13/07/2018 21	20/07/2018 20	8
											30/07/2018 09	31/07/2018 01	2
											31/07/2018 13	04/08/2018 02	4
											07/08/2018 08	22/08/2018 20	16
											27/08/2018 04	28/08/2018 02	2
											28/08/2018 10	07/09/2018 00	10
77	Kosi	Baltara	Bihar	32.85	33.85	35.01	18-Aug-18 06	03/07/2018 12	28/09/2018 05	88	14/07/2018 22	19/07/2018 19	6
											28/07/2018 06	22/09/2018 04	57
78	Kosi	Kursela	Bihar	29.00	30.00	30.90	16-Sep-18 12	04/08/2018 12	23/09/2018 02	51	08/08/2018 20	13/08/2018 06	6
											30/08/2018 17	20/09/2018 12	22
79	Mahananda	Dhengraghat	Bihar	34.65	35.65	36.58	06-Jul-18 13	02/07/2018 12	10/07/2018 21	9	03/07/2018 18	08/07/2018 04	6
								01/08/2018 08	05/08/2018 05	5	11/09/2018 09	17/09/2018 08	7
								12/08/2018 12	15/08/2018 06	4			
								24/08/2018 07	28/08/2018 00	5			
								31/08/2018 12	02/09/2018 05	3			
								03/09/2018 07	06/09/2018 01	4			
								10/09/2018 22	19/09/2018 13	10			
80	Mahananda	Jhawa	Bihar	30.40	31.40	31.68	06-Jul-18 21	03/07/2018 17	09/07/2018 12	7	05/07/2018 17	07/07/2018 22	3
								01/08/2018 20	05/08/2018 03	5			
								13/08/2018 17	15/08/2018 11	3			
								25/08/2018 06	27/08/2018 09	3			
								03/09/2018 20	05/09/2018 00	3			
								11/09/2018 10	18/09/2018 16	8			

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Table 3.8 : Above Normal and Severe Flood Events on Main Ganga and its tributaries- 2018 Flood Season

Sl. No.	River	Station	State	Warning level in metres	Danger level in metres	Peak level in 2018		Flood period above warning level			Flood period above Danger level		
						Level in metres	Date/Time	From	To	No.of days	From	To	No.of days
1	2	3	4	5	6	7	8	9	10	11	12	13	14
81	Gandak	Dumariaghat	Bihar	61.22	62.22	62.82	08-Aug-18 17	28/06/2018 10	30/09/2018 10	95	04/07/2018 08	05/07/2018 10	2
											16/07/2018 10	19/07/2018 03	4
											28/07/2018 10	29/07/2018 12	2
											02/08/2018 12	11/08/2018 23	10
											13/08/2018 08	21/08/2018 13	9
											24/08/2018 02	08/09/2018 07	16
											12/09/2018 10	15/09/2018 23	4
82	Burhigandak	Ahirwalia	Bihar	58.62	59.62	56.65	03-Sep-18 12						
83	Mayurakshi	Narayanpur	West Bengal	26.99	27.99	21.70	22-Aug-18 15						
84	Ajoy	Gheropara	West Bengal	38.42	39.42	35.94	29-Jun-18 18						
85	Mundeshwari	Harinkhola	West Bengal	11.80	12.80	8.00	29-Jul-18 18						
86	Kangsabati	Mohanpur	West Bengal	24.73	25.73	23.48	30-May-18 08						

Source : FFM Directorate, Central Water Commission

Table 3.9 : Above Normal and Severe Flood Events on Main Brahamaputra and its tributaries- 2018 Flood Season

Sl. No.	River	Station	State	Warning level in metres	Danger level in metres	Peak level in 2018		Flood period above warning level			Flood period above Danger level		
						Level in metres	From	From	To	No.of days	From	To	No.of days
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Siang	Passighat	Arunachal Pradesh	152.96	153.96	154.28	14-Sep-18 12	04/07/2018 06	05/07/2018 09	2	14/09/2018 02	15/09/2018 00	2
								17/07/2018 14	17/07/2018 19	1			
								18/07/2018 14	19/07/2018 05	2			
								19/07/2018 20	19/07/2018 22	0			
								01/08/2018 15	03/08/2018 09	3			
								04/08/2018 15	05/08/2018 10	2			
								13/08/2018 02	13/08/2018 11	1			
								29/08/2018 04	29/08/2018 12	1			
								29/08/2018 17	16/09/2018 05	18			
								20/10/2018 14	20/10/2018 15	1			
2	Noa-Dehing	Namsai	Arunachal Pradesh	140.60	141.10	139.75	03-Jul-18 06						
3	Brahmaputra	Dibrugarh	Assam	104.70	105.70	105.75	14-Sep-18 13	01/07/2018 23	20/09/2018 22	82	14/09/2018 07	14/09/2018 17	1
								22/09/2018 23	24/09/2018 03	3			
								25/09/2018 21	26/09/2018 05	2			
4	Brahmaputra	Neamatighat	Assam	84.04	85.04	86.60	15-Sep-18 00	26/05/2018 11	01/06/2018 05	7	30/05/2018 00	30/05/2018 11	1
								14/06/2018 19	06/10/2018 11	115	15/06/2018 23	17/06/2018 20	3
											02/07/2018 17	08/07/2018 12	7
											08/07/2018 23	19/08/2018 20	43
											24/08/2018 15	20/09/2018 02	28
5	Brahmaputra	Tezpur	Assam	64.23	65.23	65.76	16-Sep-18 12	17/06/2018 09	18/06/2018 17	2	05/07/2018 15	07/07/2018 04	3
								03/07/2018 17	28/07/2018 07	26	14/09/2018 04	18/09/2018 00	5
								28/07/2018 13	21/08/2018 05	24			
								25/08/2018 06	21/09/2018 07	28			
6	Brahmaputra	Guwahati	Assam	48.68	49.68	49.70	17-Sep-18 08	05/07/2018 18	09/07/2018 04	5	17/09/2018 03	18/09/2018 01	2
								03/08/2018 09	07/08/2018 12	5			
								03/09/2018 07	06/09/2018 03	4			
								13/09/2018 12	20/09/2018 11	8			
7	Brahmaputra	Goalpara	Assam	35.27	36.27	36.17	18-Sep-18 04	06/07/2018 03	10/07/2018 21	5			
								15/07/2018 01	19/07/2018 04	5			
								02/08/2018 04	11/08/2018 06	10			
								16/08/2018 09	18/08/2018 04	3			
								02/09/2018 05	09/09/2018 02	8			
								12/09/2018 12	21/09/2018 22	10			
8	Brahmaputra	Dhubri	Assam	27.62	28.62	28.93	19-Sep-18 01	02/07/2018 22	24/09/2018 12	85	08/07/2018 17	09/07/2018 10	2
								26/09/2018 18	30/09/2018 04	5	16/09/2018 00	20/09/2018 17	5
9	Buridehing	Naharkatia	Assam	119.40	120.40	117.70	10-May-18 06						
10	Buridehing	Chenimari/Khwong	Assam	101.11	102.11	101.56	01-Aug-18 12	28/06/2018 08	29/06/2018 14	2			
								02/07/2018 11	04/07/2018 19	3			
								11/07/2018 11	15/07/2018 09	5			
								30/07/2018 16	02/08/2018 12	4			

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Table 3.9 : Above Normal and Severe Flood Events on Main Brahamaputra and its tributaries- 2018 Flood Season

Sl. No.	River	Station	State	Warning level in metres	Danger level in metres	Peak level in 2018		Flood period above warning level			Flood period above Danger level		
						Level in metres	From	From	To	No.of days	From	To	No.of days
1	2	3	4	5	6	7	8	9	10	11	12	13	14
11	Subansiri	Badatighat	Assam	81.53	82.53	82.45	15-Sep-18 22	04/07/2018 04	08/07/2018 02	5			
								12/07/2018 09	15/07/2018 06	4			
								01/08/2018 21	05/08/2018 01	5			
								12/09/2018 13	18/09/2018 05	7			
12	Dikhow	Sivasagar	Assam	91.40	92.40	94.23	31-Jul-18 23	14/06/2018 15	16/06/2018 02	3	14/06/2018 19	15/06/2018 07	2
								07/07/2018 19	15/07/2018 22	9	08/07/2018 15	10/07/2018 02	3
								29/07/2018 06	04/08/2018 16	7	10/07/2018 17	11/07/2018 06	02
								01/09/2018 22	03/09/2018 18	3	12/07/2018 11	14/07/2018 23	03
											29/07/2018 09	03/08/2018 09	06
13	Desang	Nanglamoraghat	Assam	93.46	94.46	95.76	01-Jul-18 13	27/06/2018 01	04/07/2018 21	8	27/06/2018 12	04/07/2018 04	8
								13/07/2018 03	16/07/2018 06	4			
								18/07/2018 13	18/07/2018 20	1			
								28/07/2018 09	03/08/2018 14	7			
								03/09/2018 10	04/09/2018 11	2			
14	Dhansiri(S)	Golaghat	Assam	88.50	89.50	91.24	02-Aug-18 09	14/06/2018 03	15/06/2018 16	2	28/07/2018 16	05/08/2018 01	9
								14/07/2018 05	14/07/2018 06	1	27/08/2018 06	30/08/2018 14	4
								27/07/2018 00	07/08/2018 02	12			
								10/08/2018 11	11/08/2018 04	2			
								13/08/2018 19	16/08/2018 01	4			
								17/08/2018 06	19/08/2018 11	3			
								26/08/2018 03	02/09/2018 13	8			
15	Dhansiri(S)	Numaligarh	Assam	76.42	77.42	80.16	02-Aug-18 06	07/05/2018 18	11/05/2018 14	5	08/06/2018 17	09/06/2018 06	2
								07/06/2018 07	03/10/2018 01	119	13/06/2018 11	19/06/2018 16	7
											27/06/2018 15	01/07/2018 23	5
											05/07/2018 17	06/07/2018 01	2
											08/07/2018 09	10/07/2018 20	3
											12/07/2018 14	21/07/2018 05	10
											22/07/2018 19	22/07/2018 23	1
											23/07/2018 10	23/07/2018 15	1
											25/07/2018 05	24/08/2018 10	31
											25/08/2018 05	17/09/2018 17	24
											23/09/2018 17	24/09/2018 17	02
16	Kopili	Kampur	Assam	59.50	60.50	61.55	16-Jun-18 10	14/06/2018 17	18/06/2018 05	5	15/06/2018 02	17/06/2018 12	3
								05/07/2018 09	07/07/2018 07	3			
17	Kopili	Dharamtul	Assam	55.00	56.00	55.46	16-Jun-18 16	14/06/2018 23	21/06/2018 18	8			

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Table 3.9 : Above Normal and Severe Flood Events on Main Brahamaputra and its tributaries- 2018 Flood Season

Sl. No.	River	Station	State	Warning level in metres	Danger level in metres	Peak level in 2018		Flood period above warning level			Flood period above Danger level		
						Level in metres	From	From	To	No.of days	From	To	No.of days
1	2	3	4	5	6	7	8	9	10	11	12	13	14
								24/05/2018 07	30/05/2018 17	7	15/06/2018 08	17/06/2018 21	3
								12/06/2018 16	12/10/2018 11	123	18/06/2018 11	18/06/2018 15	1
								13/10/2018 07	18/10/2018 16	6	22/06/2018 10	25/06/2018 04	4
											25/06/2018 16	26/06/2018 00	1
											26/06/2018 13	26/06/2018 21	0
											27/06/2018 08	27/06/2018 14	1
											27/06/2018 17	27/06/2018 21	0
											28/06/2018 07	28/06/2018 17	1
											29/06/2018 10	29/06/2018 20	1
											30/06/2018 08	07/07/2018 13	8
											07/07/2018 16	07/07/2018 23	0
											08/07/2018 13	09/07/2018 04	2
											09/07/2018 14	10/07/2018 00	1
											10/07/2018 09	15/07/2018 23	5
											16/07/2018 10	16/07/2018 18	1
18	Jiabharali	NT.Rd.X-ing	Assam	76.00	77.00	78.05	02-Aug-18 12				29/07/2018 08	05/08/2018 18	8
											06/08/2018 04	06/08/2018 14	1
											08/08/2018 09	08/08/2018 17	1
											08/08/2018 22	09/08/2018 09	1
											10/08/2018 15	11/08/2018 08	2
											12/08/2018 05	16/08/2018 08	5
											16/08/2018 13	16/08/2018 19	0
											17/08/2018 13	17/08/2018 22	1
											23/08/2018 07	23/08/2018 12	1
											23/08/2018 14	23/08/2018 18	0
											24/08/2018 17	25/08/2018 14	2
											26/08/2018 13	04/09/2018 00	10
											04/09/2018 10	04/09/2018 13	0
											10/09/2018 08	17/09/2018 07	8
											24/09/2018 08	27/09/2018 12	4
											02/10/2018 10	02/10/2018 12	1
											03/10/2018 10	03/10/2018 15	1
19	Subansiri	Choldhowaghat	Assam	99.02	100.02	96.69	14-Sep-18 08						
								14/06/2018 06	14/06/2018 16	1	14/09/2018 06	14/09/2018 07	1
								28/06/2018 10	28/06/2018 13	1			
								03/07/2018 19	04/07/2018 04	2			
20	Ranganadi	N H Crossing Ranga	Assam	93.81	94.81	94.85	14-Sep-18 06	04/07/2018 09	04/07/2018 16	0			
								05/07/2018 10	05/07/2018 16	1			
								29/07/2018 08	29/07/2018 14	1			
								02/08/2018 09	03/08/2018 07	2			
								13/09/2018 10	15/09/2018 02	3			
21	Lohit	Dholla Bazaar	Assam	127.27	128.27	126.62	04-Jul-18 05						

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Table 3.9 : Above Normal and Severe Flood Events on Main Brahamaputra and its tributaries- 2018 Flood Season

Sl. No.	River	Station	State	Warning level in metres	Danger level in metres	Peak level in 2018		Flood period above warning level			Flood period above Danger level		
						Level in metres	From	From	To	No.of days	From	To	No.of days
1	2	3	4	5	6	7	8	9	10	11	12	13	14
22	Puthimari	Puthimari _NHX	Assam	50.81	51.81	53.11	04-Jul-18 22	27/05/2018 00	29/05/2018 16	3	03/07/2018 17	05/07/2018 21	3
								14/06/2018 11	15/06/2018 23	2	01/08/2018 10	02/08/2018 07	2
								16/06/2018 02	21/06/2018 09	6	13/09/2018 03	14/09/2018 09	2
								03/07/2018 16	10/07/2018 17	8			
								13/07/2018 13	14/07/2018 17	2			
								17/07/2018 06	17/07/2018 13	1			
								24/07/2018 10	25/07/2018 13	2			
								26/07/2018 06	26/07/2018 14	1			
								27/07/2018 08	28/07/2018 18	2			
								29/07/2018 07	07/08/2018 18	10			
								13/08/2018 07	15/08/2018 03	3			
								22/08/2018 18	23/08/2018 06	2			
								24/08/201816	01/09/2018 06	9			
								11/09/2018 04	19/09/2018 06	9			
								24/09/2018 15	01/10/2018 18	8			
23	Pagladia	Pagladia_NTX	Assam	51.75	52.75	53.03	27-Sep-18 05	26/05/2018 15	27/05/2018 19	2	26/09/2018 14	27/09/2018 13	2
								16/06/2018 10	16/06/2018 18	1			
								17/06/2018 04	18/06/2018 15	2			
								03/07/2018 15	07/07/2018 03	5			
								01/08/2018 08	01/08/2018 15	1			
								12/09/2018 15	15/09/2018 17	4			
								24/09/2018 10	29/09/2018 18	6			
								30/09/2018 10	01/10/2018 03	2			
24	Barak	APGhat	Assam	18.83	19.83	21.33	16-Jun-18 16	13/06/2018 10	20/06/2018 14	8	14/06/2018 04	18/06/2018 22	5
								01/08/2018 16	03/08/2018 05	3			
25	Katakhal	Matizuri	Assam	19.27	20.27	22.62	14-Jun-18 06	12/06/2018 11	20/06/2018 09	9	12/06/2018 15	19/06/2018 04	8
								10/08/2018 15	11/08/2018 07	2	14/08/2018 18	15/08/2018 09	2
								14/08/2018 06	18/08/2018 23	5	17/08/2018 15	18/08/2018 09	2
26	Barak	Badarpurghat	Assam	15.85	16.85	18.09	16-Jun-18 22	13/06/2018 08	26/06/2018 02	14	13/06/2018 21	20/06/2018 14	8
								05/07/2018 09	06/074/2018 12	2			
27	Kushiyara	Karimganj	Assam	13.94	14.94	16.44	17-Jun-18 00	09/05/2018 20	13/05/2018 14	5	13/06/2018 13	21/06/2018 18	9
								13/06/2018 07	27/06/2018 04	15			
								05/07/2018 06	07/07/2018 02	3			
								31/07/2018 11	05/08/2018 17	6			
								14/08/2018 08	17/08/2018 11	4			
								01/09/2018 20	05/09/2018 05	5			
28	Manu	Kailashar	Tripura	24.34	25.34	25.95	13-Jun-18 18	12/06/2018 16	17/06/2018 05	6	13/06/2018 04	14/06/2018 09	2
29	Gumti	Sonamura	Tripura	11.50	12.50	11.72	21-May-18 06	20/05/2018 20	21/05/2018n 17	2			
30	Manas	Manas NH-Crossing	Assam	47.81	48.42	48.11	26-Sep-18 18	04/07/2018 20	05/07/2018 08	2			
								26/09/2018 06	27/09/2018 10	2			

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Table 3.9 : Above Normal and Severe Flood Events on Main Brahamaputra and its tributaries- 2018 Flood Season

Sl. No.	River	Station	State	Warning level in metres	Danger level in metres	Peak level in 2018		Flood period above warning level			Flood period above Danger level		
						Level in metres	From	From	To	No.of days	From	To	No.of days
1	2	3	4	5	6	7	8	9	10	11	12	13	14
								25/05/2018 03	25/05/2018 22	1	04/07/2018 10	05/07/2018 09	2
								13/06/2018 07	19/06/2018 03	7	13/07/2018 14	14/07/2018 00	2
								26/06/2018 11	27/06/2018 06	2	31/07/2018 12	03/08/2018 05	4
								27/06/2018 11	01/10/2018 06	96	03/08/2018 09	03/08/2018 21	0
								01/10/2018 16	02/10/2018 06	1	05/08/2018 19	05/08/2018 23	1
								02/10/2018 10	04/10/2018 14	2	06/08/2018 18	06/08/2018 22	1
											13/08/2018 08	14/08/2018 02	2
31	Beki	Beki Rd. Bridge	Assam	44.10	45.10	45.56	01-Aug-18 18				15/08/2018 14	16/08/2018 02	2
											24/08/2018 15	24/08/2018 21	1
											26/08/2018 17	27/08/2018 00	2
											27/08/2018 19	27/08/2018 21	0
											28/08/2018 17	29/08/2018 03	2
											30/08/2018 17	31/08/2018 04	2
											10/09/2018 18	11/09/2018 10	2
											12/09/2018 08	15/09/2018 14	4
								24/06/2018 14	25/06/2018 02	2			
								25/06/2018 14	26/06/2018 04	1			
								01/07/2018 09	02/07/2018 12	2			
								04/07/2018 07	06/07/2018 16	3			
32	Gaurang	Kokrajhar	Assam	41.85	42.85	42.82	04-Jul-18 16	13/08/2018 10	14/08/2018 06	2			
								30/08/2018 19	31/08/2018 05	2			
								10/09/2018 14	11/09/2018 09	2			
								12/09/2018 06	14/09/2018 06	3			
								14/09/2018 07	16/09/2018 09	2			
								25/09/2018 07	27/09/2018 16	3			
								17/06/2018 08	19/06/2018 19	3	04/07/2018 11	05/07/2018 09	2
								24/06/2018 18	27/06/2018 18	4			
								28/06/2018 08	28/06/2018 17	1			
								29/06/2018 02	08/07/2018 03	10			
								10/07/2018 08	11/07/2018 23	2			
								13/07/2018 15	15/07/2018 04	3			
								16/07/2018 02	17/07/2018 07	2			
33	Sankosh	Golokganj	Assam	28.94	29.94	30.06	04-Jul-18 18	24/07/2018 09	24/07/2018 18	1			
								26/07/2018 01	28/07/2018 22	3			
								29/07/2018 03	29/07/2018 11	1			
								30/07/2018 18	09/08/2018 23	11			
								11/08/2018 14	12/08/2018 03	2			
								12/08/2018 09	21/08/2018 17	9			
								23/08/2018 06	23/08/2018 18	1			
								24/08/2018 04	05/09/2018 21	13			
								11/09/2018 02	18/09/2018 23	8			

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Table 3.9 : Above Normal and Severe Flood Events on Main Brahamaputra and its tributaries- 2018 Flood Season

Sl. No.	River	Station	State	Warning level in metres	Danger level in metres	Peak level in 2018		Flood period above warning level			Flood period above Danger level		
						Level in metres	From	From	To	No.of days	From	To	No.of days
1	2	3	4	5	6	7	8	9	10	11	12	13	14
34	Teesta	Domohani	West Bengal	85.65	85.95	86.00	10-Sep-18 14	30/06/2018 21	30/06/2018 23	1	10/09/2018 12	10/09/2018 16	1
								01/07/2018 15	01/07/2018 17	1			
								03/07/2018 00	03/07/2018 09	1			
								04/07/2018 11	04/07/2018 16	1			
								05/07/2018 03	05/07/2018 20	1			
								10/07/2018 12	10/07/2018 14	1			
								12/07/2018 15	12/07/2018 19	1			
								31/07/2018 15	31/07/2018 21	1			
								01/08/2018 12	01/08/2018 20	1			
								07/08/2018 09	07/08/2018 15	1			
								15/08/2018 14	15/08/2018 18	1			
								24/08/2018 17	25/08/2018 22	2			
								27/08/2018 16	29/08/2018 15	3			
								30/08/2018 10	30/08/2018 14	1			
								30/08/2018 16	31/08/2018 04	1			
								02/09/2018 08	02/09/2018 14	1			
								03/09/2018 01	03/09/2018 03	1			
								07/09/2018 15	07/09/2018 17	1			
								10/09/2018 07	11/09/2018 01	2			
								13/09/2018 05	13/09/2018 08	1			
								14/09/2018 04	14/09/2018 13	1			
								15/09/2018 01	15/09/2018 04	1			
								15/09/2018 11	15/09/2018 23	0			
35	Teesta	Mekhliganj	West Bengal	65.45	65.95	66.04	05-Jul-18 13	17/06/2018 05	17/06/2018 09	1	05/07/2018 11	05/07/2018 17	1
								17/06/2018 14	18/06/2018 07	1			
								24/06/2018 05	24/06/2018 14	1			
								30/06/2018 23	02/07/2018 11	3			
								03/07/2018 02	06/07/2018 09	4			
								10/07/2018 22	11/07/2018 04	2			
								31/07/2018 23	02/08/2018 14	3			
								02/08/2018 18	04/08/2018 15	2			
								05/08/2018 04	09/08/2018 08	5			
								11/08/2018 22	12/08/2018 03	2			
								10/09/2018 16	11/09/2018 09	2			
								13/09/2018 14	13/09/2018 18	1			
								14/09/2018 12	14/09/2018 18	1			
36	Jaldhaka	N H 31	West Bengal	80.00	80.90	80.30	10-Sep-18 10	05/07/2018 00	05/07/2018 10	1			
								23/08/2018 09	23/08/2018 13	1			
								25/08/2018 06	25/08/2018 08	1			
								10/09/2018 06	11/09/2018 01	2			
								11/09/2018 09	11/09/2018 15	0			

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Table 3.9 : Above Normal and Severe Flood Events on Main Brahamaputra and its tributaries- 2018 Flood Season

Sl. No.	River	Station	State	Warning level in metres	Danger level in metres	Peak level in 2018		Flood period above warning level			Flood period above Danger level		
						Level in metres	From	From	To	No.of days	From	To	No.of days
1	2	3	4	5	6	7	8	9	10	11	12	13	14
37	Jaldhaka	Mathabhanga	West Bengal	47.70	48.20	48.57	10-Sep-18 17	04/07/2018 16	04/07/2018 23	1	05/07/2018 15	05/07/2018 17	1
								05/07/2018 09	06/07/2018 00	2	10/09/2018 14	10/09/2018 23	1
								10/09/2018 13	11/09/2018 01	2			
38	Torsa	Ghughumari	West Bengal	39.80	40.41	40.25	04-Jul-18 13	24/06/2018 13	25/06/2018 00	2			
								01/07/2018 14	01/07/2018 20	1			
								03/07/2018 15	05/07/2018 02	3			
								05/07/2018 04	05/07/2018 22	0			
								29/07/2018 16	30/07/2018 05	2			
								31/07/2018 14	02/08/2018 05	3			
								02/08/2018 10	02/08/2018 17	0			
								23/08/2018 18	24/08/2018 01	2			
								30/08/2018 12	31/08/2018 01	2			
								02/09/2018 15	03/09/2018 02	2			
								10/09/2018 09	11/09/2018 00	2			
39	Radak-I	Tufanganj	West Bengal	34.22	35.30	35.60	05-Jul-18 06	01/07/2018 17	02/07/2018 14	2	04/07/2018 23	05/07/2018 16	2
								04/07/2018 07	06/07/2018 18	3			
								14/09/2018 20	15/09/2018 11	2			

Source : FFM Directorate, Central Water Commission

Table 3.10 : Above Normal and Severe Flood Events on Various River Systems (Excluding Ganga and Brahmaputra Basins) 2018 Flood Season

Sl. No.	River	Station	State	Warning level in metres	Danger level in metres	Peak level in 2018		Flood period above warning level			Flood period above Danger level		
						Level in metres	Time	From	To	No. of days	From	To	No. of days
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Jhelum	Rammunshibagh	Jammu & Kashmir	1585.53	1586.45	1587.09	30-Jun-18 16	29/06/2018 22	02/07/2018 08	4	30/06/2018 02	01/07/2018 18	2
2	Jhelum	Sangam	Jammu & Kashmir	1590.30	1591.20	1592.77	30-Jun-18 02	29/06/2018 15	01/07/2018 16	3	29/06/2018 18	01/07/2018 06	3
3	Jhelum	Safapora	Jammu & Kashmir	1580.00	1580.50	1580.63	01-Jul-18 11	30/06/2018 09	02/07/2018 22	3	30/06/2018 23	02/07/2018 01	3
4	Subernarekna	Jamshedpur	Jharkhand	122.50	123.50	120.50	07-Aug-18 00	-	-	-	-	-	-
5	Subernarekna	Rajghat	Odisha	9.45	10.36	10.20	07-Aug-18 21	07/08/2018 10	08/08/2018 15	2			
6	Burhabalang	NH_5 _Road Bridge	Odisha	7.21	8.13	8.24	13-Oct-18 18	21/09/2018 09	23/09/2018 05	3	22/09/2018 05	22/09/2018 13	1
								12/10/2018 21	14/10/2018 15	3	13/10/2018 06	13/10/2018 23	1
7	Baitarni	Anandpur	Odisha	37.44	38.36	38.40	07-Sep-18 20	07/09/2018 12	08/09/2018 05	2	07/09/2018 17	07/09/2018 22	1
8	Baitarni	Akhuapada	Odisha	17.33	17.83	18.50	08-Sep-18 07	17/07/2018 17	17/07/2018 21	1	23/07/2018 11	24/07/2018 04	2
								22/07/2018 19	24/07/2018 17	3	01/09/2018 17	02/09/2018 14	2
								01/08/2018 09	02/08/2018 15	2	06/09/2018 14	07/09/2018 04	2
								06/08/2018 21	09/08/2018 08	4	07/09/2018 08	09/09/2018 04	2
								20/08/2018 21	22/08/2018 20	3	22/09/2018 02	23/09/2018 12	2
								01/09/2018 15	03/09/2018 20	3	13/10/2018 01	13/10/2018 17	1
								06/09/2018 04	10/09/2018 07	5	-	-	-
								11/09/2018 03	11/09/2018 07	1	-	-	-
								21/09/2018 10	24/09/2018 09	4	-	-	-
								12/10/2018 21	14/10/2018 12	3	-	-	-
9	Brahmani	Jenapur	Odisha	22.00	23.00	21.24	06-Sep-18 04	-	-	-	-	-	
10	Rushikuluya	Purushottampur	Odisha	15.83	16.83	18.60	12-Oct-18 08	11/10/2018 18	14/10/2018 06	4	11/10/2018 20	13/10/2018 13	3
11	Vamsadhara	Gunupur	Odisha	83.00	84.00	85.22	12-Oct-18 02	15/07/2018 15	16/07/2018 02	2	15/07/2018 17	15/07/2018 21	1
								21/07/2018 22	22/07/2018 05	2	11/10/2018 19	12/10/2018 11	2
								15/08/2018 12	15/08/2018 22	1	-	-	-
								11/10/2018 18	12/10/2018 17	2	-	-	-
12	Vamsadhara	Kashinagar	Odisha	53.60	54.60	56.30	12-Oct-18 09	15/07/2018 18	16/07/2018 12	2	15/07/2018 19	16/07/2018 06	2
								21/07/2018 09	24/07/2018 00	4	22/07/2018 01	22/07/2018 13	1
								14/08/2018 12	16/08/2018 20	3	15/08/2018 14	15/08/2018 16	1
								17/08/2018 13	17/08/2018 19	1	20/08/2018 16	20/08/2018 20	1
								20/08/2018 01	22/08/2018 15	3	27/08/2018 06	27/08/2018 16	1
								26/08/2018 23	28/08/2018 18	3	11/10/2018 19	12/10/2018 18	2
								30/08/2018 11	30/08/2018 21	1	-	-	-
								07/09/2018 15	07/09/2018 23	1	-	-	-
								22/09/2018 07	22/09/2018 19	1	-	-	-
								11/10/2018 18	17/10/2018 16	7	-	-	-
13	Mahanadi	Naraj	Odisha	25.41	26.41	26.22	23-Jul-18 10	23/07/2018 05	24/07/2018 05	2	-	-	-
								17/08/2018 11	17/08/2018 21	1	-	-	-
								28/08/2018 16	29/08/2018 18	2	-	-	-
								29/08/2018 23	01/09/2018 06	3	-	-	-

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Table 3.10 : Above Normal and Severe Flood Events on Various River Systems (Excluding Ganga and Brahmaputra Basins) 2018 Flood Season

Sl. No.	River	Station	State	Warning level in metres	Danger level in metres	Peak level in 2018		Flood period above warning level			Flood period above Danger level		
						Level in metres	Time	From	To	No. of days	From	To	No. of days
1	2	3	4	5	6	7	8	9	10	11	12	13	14
14	Mahanadi	Alipingal Devi	Odisha	10.85	11.76	9.44	24-Jul-18 03	-	-	-	-	-	-
15	Mahanadi	Nimapara	Odisha	9.85	10.76	8.36	24-Jul-18 11	-	-	-	-	-	-
16	Godavari	Atreyapuram	Andhra Pradesh	14.00	15.00	12.85	22-Aug-18 21	-	-	-	-	-	
17	Godavari	Kopergaon	Maharashtra	490.90	493.68	490.10	18-Jul-18 07	-	-		-	-	-
18	Godavari	Gangakhed	Maharashtra	374.00	375.00	365.13	21-Aug-18 12	-	-	-	-	-	-
19	Godavari	Nanded	Maharashtra	353.00	354.00	346.95	21-Aug-18 08	-	-	-	-	-	-
20	Godavari	Kaleswaram	Telangana	103.50	104.75	101.79	21-Aug-18 11	-	-	-	-	-	-
21	Godavari	Eturunagaram	Telangana	73.29	75.79	74.19	21-Aug-18 21	16/08/2018 14	17/08/2018 13	2			
								20/08/2018 22	22/08/2018 16	3	-	-	-
22	Godavari	Dummagudam	Telangana	53.00	55.00	53.53	22-Aug-18 06	17/08/2018 07	17/08/2018 18	1			
								21/08/2018 15	22/08/2018 17	2	-	-	
23	Godavari	Bhadrachalam	Telangana	45.72	48.77	47.85	22-Aug-18 10	17/08/2018 00	18/108/2018 23	2	-	-	
								20/08/2018 01	23/08/2018 13	4	-	-	-
24	Wardha	Sirpur Town	Telangana	159.95	160.95	161.34	18-Aug-18 14	17/08/2018 08	19/08/2018 06	3	18/08/2018 01	18/08/2018 23	1
25	Godavari	Kunavaram	Andhra Pradesh	37.74	39.24	39.55	22-Aug-18 09	17/08/2018 11	18/08/2018 14	2	21/08/2018 22	23/08/2018 00	3
								20/08/2018 04	23/08/2018 14	4	-	-	-
26	Godavari	Rajamundry	Andhra Pradesh	17.68	19.51	17.44	22-Aug-18 21	-	-	-	-	-	
27	Godavari	Dowalaiswaram	Andhra Pradesh	14.25	16.08	15.35	22-Aug-18 20	17/08/2018 12	24/08/2018 12	8			
28	Wainganga	Bhandara	Maharashtra	244.00	244.50	244.40	29-Aug-18 08	29/08/2018 06	29/08/2018 16	1			
29	Wainganga	Pauni	Maharashtra	226.73	227.73	226.12	18-Jul-18 19	-	-	-	-	-	-
30	Wardha	Balharsha	Maharashtra	171.50	174.00	171.25	18-Aug-18 07	-	-	-	-	-	-
31	Indravati	Jagdalpur	Chhattisgarh	539.50	540.80	541.42	16-Aug-18 19	15/08/2018 20	17/08/2018 20	3	16/08/2018 03	17/08/2018 11	2
								20/08/2018 10	22/08/2018 15	3	-	-	-
								27/08/2018 17	29/08/2018 14	3	-	-	-
32	Krishna	Arjunwad	Maharashtra	542.07	543.29	536.40	20-Jul-18 16	-	-	-	-	-	-
33	Bhima	Deongaon	Karnataka	402.00	404.50	397.50	29-Aug-18 17	-	-	-	-	-	-
34	Tungabhadra	Mantralayam	Andhra Pradesh	310.00	312.00	312.48	17-Aug-18 22	12/08/2018 04	13/08/2018 15	2	16/08/2018 06	18/08/2018 12	3
								15/08/2018 13	20/08/2018 12	6	-	-	-
								22/08/2018 15	23/08/2018 16	**2**	-	-	-
35	Tungabhadra	Kurnool	Andhra Pradesh	273.00	274.00	273.77	18-Aug-18 07	16/08/2018 09	18/08/2018 22	**3**	-	-	-
36	Nagavali	Srikakulam	Andhra Pradesh	10.17	10.80	11.21	16-Aug-18 09	22/07/2018 05	22/07/2018 07	**1**	15/08/2018 16	15/08/2018 17	1
								15/08/2018 16	15/08/2018 17	**1**	16/08/2018 06	16/08/2018 12	1
								16/08/2018 04	16/08/2018 15	**1**	-	-	-
								28/08/2018 13	28/08/2018 15	**1**	-	-	-
								12/10/2018 08	12/10/2018 17	**1**	-	-	-
37	Pennar	Nellore	Andhra Pradesh	15.91	17.28	13.38	22-Nov-18 03	-	-	-	-	-	-
38	Sabarmati	Ahmedabad Shubhash Bridge	Gujarat	44.09	45.34	41.30	02-Oct-18 23	-	-	-	-	-	-

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Table 3.10 : Above Normal and Severe Flood Events on Various River Systems (Excluding Ganga and Brahmaputra Basins) 2018 Flood Season

Sl. No.	River	Station	State	Warning level in metres	Danger level in metres	Peak level in 2018		Flood period above warning level			Flood period above Danger level		
						Level in metres	Time	From	To	No. of days	From	To	No. of days
1	2	3	4	5	6	7	8	9	10	11	12	13	14
39	Mahi	Wanakbori	Gujarat	71.93	74.98	67.97	13-Aug-18 18	-	-	-	-	-	-
40	Naramada	Mandla	Madhya Pradesh	437.20	437.80	437.37	23-Jul-18 19	23/07/2018 18	24/07/2018 01	**2**			
41	Naramada	Hoshangabad	Madhya Pradesh	292.83	293.83	288.40	01-Sep-18 19	-	-	-	-	-	-
42	Naramada	Garudeswar	Gujarat	30.48	31.09	14.55	17-Aug-18 13	-	-	-	-	-	-
43	Naramada	Bharuch	Gujarat	6.71	7.31	5.06	14-Jul-18 19	-	-	-	-	-	-
44	Tapi	Surat	Gujarat	8.50	9.50	4.60	09-Oct-18 15	-	-	-	-	-	-
45	Damanganga	Vapi Town	Gujarat	18.20	19.20	17.50	16-Jul-18 19	-	-	-	-	-	-
46	Damanganga	Daman	Dadra & Nagar Haveli	2.60	3.40	2.20	15-Jun-18 15	-	-	-	-	-	-
47	Cauvery	Musiri	Tamilnadu	84.50	85.50	84.52	18-Aug-18 04	24/07/2018 04	27/07/2018 03	4	12/08/2018 13	14/08/2018 04	3
								27/07/2018 10	31/07/2018 06	4	16/08/2018 01	22/08/2018 07	7
								11/08/2018 09	22/08/2018 13	12			
								22/08/2018 17	23/08/2018 14	1			
48	Cauvery	Kodumudi	Tamilnadu	125.50	126.50	128.12	17-Aug-18 08	24/07/2018 09	26/07/2018 00	3	12/08/2018 08	13/08/2018 04	**2**
								27/07/2018 08	27/07/2018 13	1	15/08/2018 21	21/08/2018 11	**7**
								27/07/2018 15	28/07/2018 02	1			
								11/08/2018 22	22/08/2018 00	12			
								22/08/2018 15	22/08/2018 21	0			
49	Bhavani	Savandapur	Tamilnadu	184.50	185.50	187.75	17-Aug-18 01	15/08/2018 18	18/08/2018 18	4	15/08/2018 18	16/08/2018 07	**2**
								-	-	-	16/08/2018 14	18/08/2018 15	**2**

Source : FFM Directorate, Central Water Commission

GLOSSARY OF TERMS

Area sown more than once	This represents the area on which crops are cultivated more than once during the agricultural year. This is obtained by deducting Net Area Sown from Total Cropped Area.
Cropping Intensity	It is the ratio of gross (total) area sown to the net area sown expressed as a percentage.
Culturable Command Area (CCA)	It is the area which can be physically irrigated from a scheme and is fit for cultivation.
Dam	Any artificial barrier which impounds or diverts water. A dam is generally considered hydrologically significant if it is 1.25 feet (0.4 metre) or more in height from the natural bed of the stream and has a storage of at least 15 acre-feet or ithas an impounding capacity of 50 acre-feet or more and is at least six feet (2 metres) above the natural bed of the stream.
Large Dam	A dam exceeding 15m in height above deepest river bed level and a dam between 10 and 15 m height provided volume of earthwork exceeds 0.75 million cubic metre and storage exceeds 1 million cubic metre or the maximum flood discharge exceeds 2000 cumecs.
Gross Sown Area	This is the sum total of the areas under all crops over the various seasons in an agriculture year (i.e. from the 1st July to 30th June next year).
Net Sown Area	It is the total area sown with crops and orchards, counting areas sown more than once in the same agricultural year only once.
Gross Reservoir Capacity	The total amount of storage capacity available in a reservoir for all purposes from the streambed to the normal water or normal water or normal pool surface level. It does not include surcharge, but does include dead storage.
Ground Water	Water within the earth that supplies wells and springs; water in the zone of saturation where all openings in rocks and soil are filled, the upper surface of which forms the water table.
Irrigated Area	The area is assumed to be irrigated for cultivation through such sources as canals (Govt. & Private), tanks, tube-wells, other wells and other sources.
Net Irrigated Area	It is the total area which is irrigated counting area irrigated more than once on the same land in an agricultural year once only.

Gross Irrigated Area	It is the total area irrigated under various crops in a year, counting the area irrigated under more than one crop during the same year as many times as the number of crops grown and irrigated.
Habitation	Habitation means a place where people have settled permanently. Temporary settlement like that of quarry workers, construction workers, farm workers, nomads etc. will not be classified as habitation.
Irrigation Potential Created (IPC)	The Irrigation potential created by a project at a given time during or after its construction is the aggregate gross area that can be irrigated annually by the quantity of water that could be made available by all the connected and completed works up to the end of the water courses or the last point in the water delivery system. It is the area that can be irrigated from a project in a design agriculture year that is from the 1st July to 30th June next year for the projected cropping pattern and accepted water allowance on its full development. Before an area is included under potential created, it has to be ensured that the water for the area to be reported upon is available and the conveyance system up to and including the irrigation outlet to serve an area up to 40 hectares in the area to be irrigated is completed.
Irrigation Potential Utilised	The Irrigation potential utilised is the total gross area actually irrigated by a project/scheme during the agricultural year under consideration.
Live Capacity	It is the total amount of storage capacity available in a reservoir for all purposes, from the dead storage level to the normal water or normal pool level/surface level. It does not include surcharge, or dead storage, but does include inactive storage, active conservation storage and exclusive flood control storage.
Major Irrigation Scheme	A scheme having Culturable Command Area (CCA) more than 10,000 hectares is classified as major irrigation scheme.
Medium Irrigation Scheme	A scheme having CCA more than 2,000 hectares and up to 10,000 hectares individually is classified as medium irrigation scheme.
Minor Irrigation Scheme	A scheme having CCA up to 2,000 hectares individually is classified as minor irrigation scheme.
Reporting Area for Land Utilisation Statistics	The Reporting area stands for the area for which data on land use classification are available.
River Basin	River Basin is the basic hydrological unit for water resources planning and management.
Run-off	Water which is not absorbed by the soil and flows to lower ground, eventually draining into a stream, river, or other body of water. It is that part of precipitation that flows toward the streams on the surface of the ground or within the ground. Runoff is composed of base flow and surface runoff.

Run-off/ Potential	Runoff/ potential of a river for a specified period at a site is the total volume of water flow/passed from/through the site during the specified period. It is the notional depth of water in mm over the catchment, equivalent to annual runoff (in cum)/Catchment Area (km^2)* 1000 and calculated at the discharge measurement station.
Surface Run-off	The runoff that travels overland to the stream channel. Rain that falls on the stream channel is often lumped with this quantity.
Surface Water	Water that flows in streams and rivers and in natural lakes, in wetlands, and in reservoirs constructed by humans
Total Cultivable Area	This consists of net area sown, current fallows, fallow lands other than current fallows, culturable waste and land under miscellaneous tree crops.
Ultimate Irrigation Potential	The ultimate irrigation potential is the gross area that can be irrigated from a project in design year for the projected cropping pattern and assumed water allowance on its full development. The gross irrigated area will be the aggregate of the areas irrigated in the different crop seasons, the areas under two seasonal and perennial crops being counted only once in the year. The Ultimate Irrigation Potential of ground water may however, be taken as the total area that can be irrigated by utilizing the Annually Rechargeable Ground Water Resource Available for Irrigation considering the gross irrigation requirement of crops grown in an unit area.

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