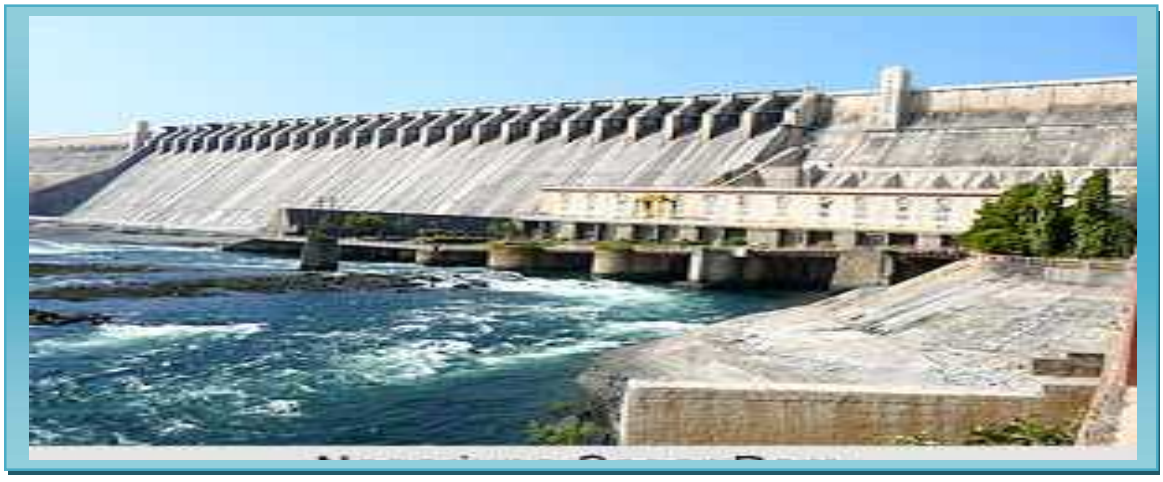
जल एवं संबन्धित सांख्यिकी

WATER AND RELATED STATISTICS



जल संसाधन सूचना प्रणाली निदेशालय
सूचना प्रणाली संगठन
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केन्द्रीय जल आयोग

WATER RESOURCES INFORMATION SYSTEM DIRECTORATE
INFORMATION SYSTEM ORGANISATION
WATER PLANNING & PROJECTS WING
CENTRAL WATER COMMISSION

अप्रैल 2015

APRIL 2015

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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 requires 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 Resources and Related Statistics" is intended to cater to the ever growing detailed data requirement 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 having concern for balanced water resources development.

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
April, 2015

(A. B. Pandya)
Chairman, CWC

PREFACE

Central Water Commission is regularly brining out the publication 'Water and Related Statistics' to cater to the growing needs of data on water resources and related aspects. The last publication was brought out in 2013 and the present issue updates up to date data received thereafter.

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.

Collection, compilation and finalisation of data for the publication were done by the Water Resources Information System Directorate of Information System Organisation in WP&P Wing of CWC. The officers and staff of the directorate have done an excellent job in giving the publication a presentable shape under the overall guidance of Shri D.C. Sharma, Advisor (ISO). Thanks are due to various Central and State Government 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. The data pertaining to other ministries in this publication is only reproduced from their sources and CWC does not endorse the authenticity of that data.

Suggestions, if any, are welcome for improvement of the publication.

New Delhi
April, 2015

(A. Mahendran)
Member (WP&P), CWC

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Acronyms

BCM	: Billion Cubic Metre
CAD	: Command Area Development
CCA	: Cultural Command Area
cm	: Centimeter
cu m	: Cubic Metre
CWC	: Central Water Commission
CUI	: Coverage under Irrigation
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
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	: Millimeter
Mha	: Million Hectare
MW	: Mega Watt
NCIWRD	: National Commission on Integrated Water Resources Development
NDP	: Net Domestic Product
NIA	: Net Irrigated Area
NRDWP	: National Rural Drinking Water Programme
NSA	: Net Sown Area
PL	: Pond Level
sq km	: Square Kilometre
TCA	: Total Cultivable Area
TMcum	: Thousand Million Cubic Metre
UIP	: Ultimate Irrigation Potential
UT	: Union Territory
%	: Percentage

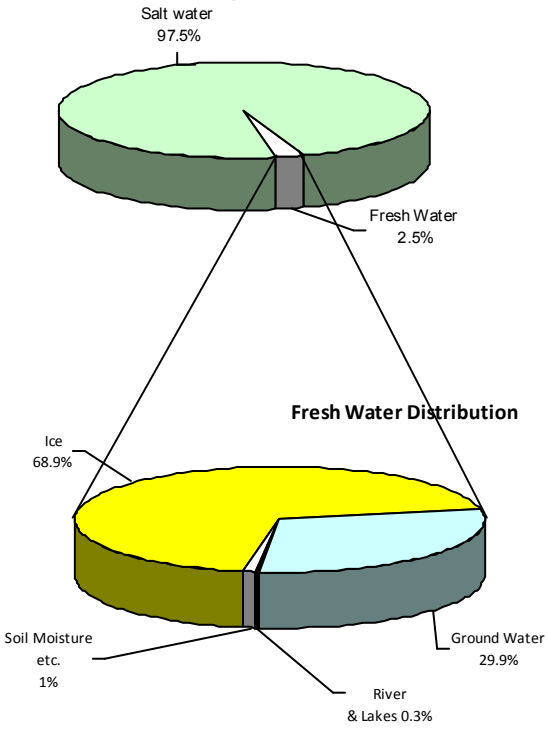
CONTENTS

Chapter 1
Introduction

Growing population coupled with sustainable developmental efforts has an increasing stress on water resources. The uneven distribution over time and space of water resources and their modification through human use and abuse are sources of water crises in many parts of the world. All these result in intensifying the pressure on water resources leading to tensions, conflict among users and excessive pressure on the environment. These demand the planners and policy makers for a proper management of water resources. This, in turn, calls for a reliable and adequate statistics on water and related aspects.

According to the United Nations Educational, Scientific and Cultural Organisation (UNESCO)[1] estimates, the total volume of water on earth is about 1.4 billion km^3, which is enough to cover the earth with a layer of 3 km depth. However, World's oceans cover about three-fourths of earth's surface while the fresh water constitutes a very small proportion of this enormous quantity available on the earth. It is only about 35 million km^3 or 2.5% of the total volume. Of these, about 24 million km^3 or 68.9% is in the form of ice and permanent snow cover in mountainous regions, the Antarctic and Arctic regions and another 29.9% is present as ground water (shallow and deep groundwater basins up to 2,000 metres). The rest 0.3% is available in lakes, rivers and 0.9% in soil moisture, swamp water and permafrost atmosphere. The distribution of global water and fresh water has been presented in adjoining Figure 1. Some useful facts and figures on world's water is presented in Box 1.

Figure 1 : World Water Distribution



The present publication is being brought out once in every two years and covers a wide range of data on water resources and its related resources in the country. The last edition of this publication was brought out in 2013. It comprises five chapters and appendix tables. Summary tables and charts have been included within the chapters to facilitate overview and better understanding. Chapter 1 presents inter-alia global water scenario etc while Chapter 2 deals with Inland Water Resources and other water bodies, river basin-wise catchment area, year-wise volume of rainfall, basin-wise flow and storage potential, State-wise UIP of M&M and MI etc. Chapter 3 gives inter-alia data on selected land-use & irrigation statistics, source wise irrigated area, Plan-wise & State-wise IPC and IPU of M&M and MI, detail about AIBP etc. Chapter 4 presents financial performance on M&M Irrigation, Flood Management, CADWM, etc. Chapter 5 gives a brief account on the extent of various kind of land degradation, detail on flood-damages, Plan-wise & State-wise expenditure on flood management work, detail on flood forecasting etc.

[1] Source: Igor A. Shiklomanov, State Hydrological Institute (SHL. St. Petersburg) and United Nations Educational, Scientific and Cultural Organisation (UNESCO, Paris), 1999.

Box 1: Some Facts and Figures on Water

Food and Agriculture Organization of the United Nations (FAO)

- The daily drinking water requirement per person is 2-4 litres, but it takes 2000 to 5000 litres of water to produce one person's daily food.
- It takes 1000-3000 litres of water to produce just one kilo of rice.
- In 2010, the estimated number of undernourished people worldwide was 925 million.
- Over the period to 2050 the world's water will have to support the agricultural systems that will feed and create livelihoods for an additional 2.7 billion people.
- The extent of land under irrigation in the world is 277 million hectares, about 20 percent of all cropland. Rainfed agriculture is practiced on the remaining 80 percent of the arable land.
- The Intergovernmental Panel on Climate Change predicts yields from rain-dependent agriculture could be down by 50 percent by 2020.
- Due to climate change, Himalayan snow and ice, which provide vast amounts of water for agriculture in Asia, are expected to decline by 20 percent by 2030.
- Irrigation increases yields of most crops by 100 to 400 percent, and irrigated agriculture currently contributes to 40 percent of the world's food production.
- Water use has been growing at more than the rate twice of population increase in the last century.
- By 2025, 1800 million people will be living in countries or regions with absolute water scarcity, and two-thirds of the world population could be under stress conditions.

World Water Assessment Programme (WWAP)

- Poor drainage and irrigation practices have led to waterlogging and salinization of approximately 10 percent of the world's irrigated lands.
- How the world uses freshwater:
  Irrigation- about 70%, Industry - about 22%, Domestic use - about 8%

Global Environment Outlook: environment for development (GEO-4)

- Water withdrawals are predicted to increase by 50 percent by 2025 in developing countries, and 18 per cent in developed countries.

Human Development Report 2006

- Over 1.4 billion people currently live in river basins where the use of water exceeds minimum recharge levels, leading to the desiccation of rivers and depletion of groundwater.

UN Water

1. The useable fresh water for ecosystem and humans is about 200000 Km^3 of water (which is less than 1% of all fresh water resources).
2. The Earth`s atmosphere contain approximately 13000 Km^3 of water.
3. Each person needs 20-50 litres of water a day to ensure their basic needs for drinking, cooking and cleaning.
4. More than one-sixth of the people worldwide does not have access to improved water sources.

Chapter 2

Water and Related Resources

Water resources have two facets – dynamic and static. The dynamic and renewable nature of the water resources and the recurrent need for its utilisation requires that water resources are measured in terms of its flow rates. The dynamic resource measured as flow is more relevant for most of 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.

***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. The area of water bodies at all-India level has been presented in Table T1. Total water bodies other than rivers and canals cover an area of about 7.3 Mha. Among these water bodies, 'reservoirs' have maximum area (2.93 Mha) followed by 'tanks, lakes and ponds' (2.43 Mha).

Table T1: Inland Water Resources of India

(1)	(2)
Rivers & Canals (length in km)	195095
Other Water Bodies (area in Mha)	
Reservoirs	2.93
Tanks & Ponds	2.43
Flood Plain Lakes & Derelict Water bodies	0.80
Brackish Water	1.15
Total	7.31

Source : Handbook on Fisheries Statistics- 2014, Department of Animal Husbandry, Dairying & Fisheries, M/o Agriculture

The total area of inland water resources (other than rivers and canals) is unevenly distributed over the States. These areas[2] are mainly distributed over twelve States as shown in Table T2.

Table T2: 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
Orissa	4500	2.56	1.23	1.80	4.30	9.89
Andhra Pradesh	11514	2.34	5.17	-	0.60	8.11
Karnataka	9000	4.40	2.90	-	0.10	7.40
Tamil Nadu	7420	5.70	0.56	0.07	0.60	6.93
West Bengal	2526	0.17	2.76	0.42	2.10	5.45
Kerala	3092	0.30	0.3	2.43	2.40	5.43
Uttar Pradesh	28500	1.38	1.61	1.33	-	4.32
Gujarat	3865	2.43	0.71	0.12	1.00	4.26
Maharashtra	16000	2.99	0.72	-	0.12	3.83
Arunachal Pradesh	2000	-	2.76	0.42	-	3.18
Rajasthan	5290	1.20	1.80	-	-	3.00

[2] Further details are available with Fisheries Division, Department of Animal Husbandry, Dairying & Fisheries, M/o Agriculture

Madhya Pradesh	17088	2.27	0.60	-	-	2.87
Others incl UTs	84300	3.52	3.21	1.39	0.33	8.45
TOTAL	195095	29.26	24.33	7.98	11.55	73.12

Source : Department of Animal Husbandry, Dairying & Fisheries, M/o Agriculture

Rivers: India is blessed with many rivers with varying catchment area 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 the States and UTs have been classified and presented in Table T3. It shows Uttar Pradesh and Jammu & Kashmir are having the highest total length of rivers and canals.

Rainfall[3]*:* 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 T4. Accordingly there is no specific trend of rainfall. In 2013, the total volume of rainfall was 4085 BCM as against 3467 BCM recorded during the previous calendar year registering a increase of about 18 %.

Table T3: States by total length of rivers and canals

Length (km) (1)	Name of States/UT (2)
<500	Andaman & Nicobar Is, 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, Orissa, 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: Department of Animal Husbandry, Dairying & Fisheries, M/o Agriculture

Table T4: Volume of Rainfall in the country

Year (1)	2003 (2)	2004 (3)	2005 (4)	2006 (5)	2007 (6)	2008 (7)	2009 (8)	2010 (9)	2011 (10)	2012 (11)	2013 (12)
Total Rainfall (mm)	1234	1086	1215	1161	1181	1117	954	1213	1116	1024	1243
Total Volume of Rainfall (BCM)	4057	3570	3996	3819	3882	3674	3136	3989	3669	3467	4085

Source: Indian Meteorological Department (IMD), M/o Science & Technology

Water Resources Potential: The water resources potential of the country which occurs as natural run off in the rivers is about 1869 BCM as per the estimates of Central Water Commission (CWC), considering both surface and ground water into account. Table T5 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 about 11 lakh sq km. The other major rivers with catchment area about one lakh sq km or more are: Indus, Godavari, Krishna, Mahanadi and Narmada.

[3] For further details please see website of IMD

The table shows total water resources potential on an average during a year is 1869 BCM and utilisable surface water is 690 BCM. The River Basin Ganga-Brahmaputra-Meghna has annual water resources potential of 1111 BCM out of total 1869 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 Rivers basins between Tapi and Tadri. In Pennar and some of the East flowing river basins between Pennar and Kanyakumari, the total surface utilization water exceeds annual availability of natural flows. This is mainly because of: (i) the utilisation can approach or even exceed the average annual availability of natural flow as the total withdrawal (and not the consumptive use) is considered as utilisation (ii) the estimates of utilisable ground and surface water have been made independently by two organisations.

Table T5: River Basins

(BCM)

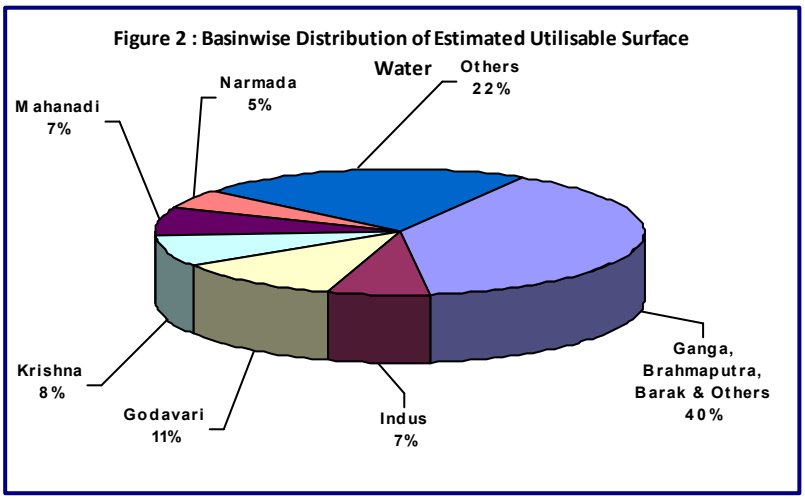
Sl. No.	River Basin	Catchment Area (Sq. Km.)	Average Water Resources Potential	Utilisable Surface Water Resources
(1)	(2)	(3)	(4)	(5)
1	Indus (up to Border)	321289	73.31	46.0
2	Ganga- Brahmaputra-Meghna			
	a) Ganga	861452	525.02	250.0
	b) Brahmaputra	194413	537.24	24.0
	c) Barak & Others	41723	48.36	
3	Godavari	312812	110.54	76.3
4	Krishna	258948	78.12	58.0
5	Cauvery	81155	21.36	19.0
6	Subernarekha*	29196	12.37	6.8
7	Brahamani & Baitarni	51822	28.48	18.3
8	Mahanadi	141589	66.88	50.0
9	Pennar	55213	6.32	6.9
10	Mahi	34842	11.02	3.1
11	Sabarmati	21674	3.81	1.9
12	Narmada	98796	45.64	34.5
13	Tapi	65145	14.88	14.5
14	West Flowing Rivers From Tapi to Tadri	55940	87.41	11.9
15	West Flowing Rivers From Tadri to Kanyakumari	56177	113.53	24.3
16	East Flowing Rivers Between Mahanadi & Pennar	86643	22.52	13.1
17	East Flowing Rivers Between Pennar and Kanyakumari	100139	16.46	16.5
18	West Flowing Rivers Of Kutch and Saurashtra including Luni	321851	15.10	15.0
19	Area of Inland drainage in Rajasthan	-	Negl.	-
20	Minor River Draining into Myanmar(Burma) &Bangladesh	36302	31.00	-
	Total		**1869.37**	**690.1**

Source: B.P. Directorate, CWC.
$: Reassessment of Water Resources Potential of India March 1993 and December 1999, CWC
 # : Report of the Standing Sub-Committee for assessment of availability and requirement of water for diverse uses in the country, August 2000
Note: * : Combining Subernarekha and other small rivers between Subernarekha and Batarni

The proportion of utilisable surface water to average water resources potential is found minimum in Brahmaputra sub-basin.

The distribution of estimated utilisable surface water in the country has been presented in Figure 2. It shows the spread of utilisable surface water resources in the country.

Ganga-Brahmaputra-Meghna system is the major contributor to total water resources potential of the country. Its share is 59% in total water resources potential of the various rivers.



Due to various constraints of topography, uneven distribution of resource over space and time, it has been estimated that only about 1123 BCM of total potential of 1869 BCM can be put to beneficial use, 690 BCM being due to surface water resources. Again about 40% of utilisable surface water resources are presently in basin Ganga-Brahmaputra-Meghna.

Table T6: Percentage of Water Resources Potential in major basins

River Basin	Water resources Potential (% to total 1869 BCM)	Utilisable surface Water (% to total 690 BCM)
(1)	(2)	(3)
Ganga-Brahmaputra-Meghna	59.4	39.7
Indus (up to Border)	3.9	6.7
Godavari	5.9	11.1
Krishna	4.2	8.4
Mahanadi	3.6	7.2
Narmada	2.4	5.0
Others	20.6	21.9

Due to increasing population in the country it is noted that the national per capita annual availability of water was 1816 cu m in 2001 while it was 1544 cu m in 2011. The estimated per capita average availability during the year 2010 in Ganga-Brahmaputra-Meghna system was 20136 cu m while it was as low as 263 cu m in Sabarmati basin. The per capita availability in the country will be 1140 cu m in the year 2050 against 1608 cu m during 2010. Any situation of availability of less than 1000 cu m per capita is considered by international agencies as scarcity conditions. Krishna, Cauvery, Subernarekha, Pennar, Mahi, Sabarmati, Tapi, 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 facing more acute water scarcity with per capita availability of water less than or around 500 cu m.

Surface Storage: A total storage capacity of about 253.4 BCM has been created in the country due to the major & medium irrigation projects since completed. The projects under construction will contribute to additional 51 BCM. Thus likely storage available will be 304.3 BCM once the projects under construction are completed against the total water availability of 1869 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.

Figure 3: Estimated Per Capita Availability of Water in Different River Basins during 2010

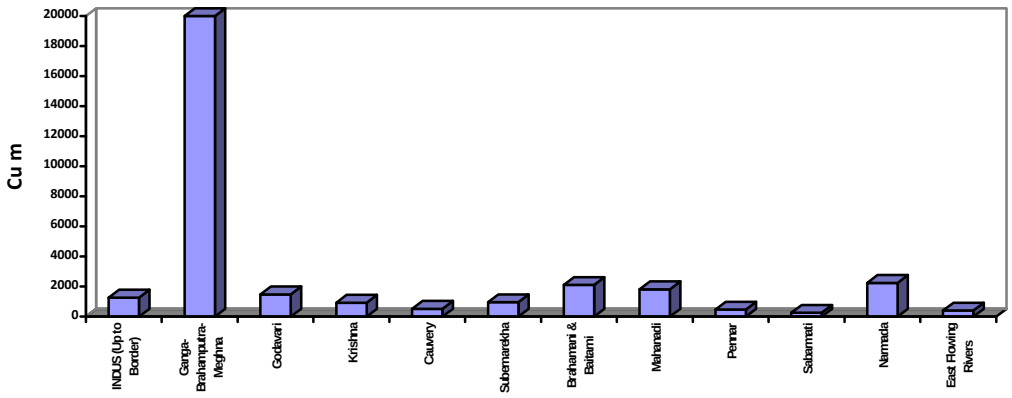
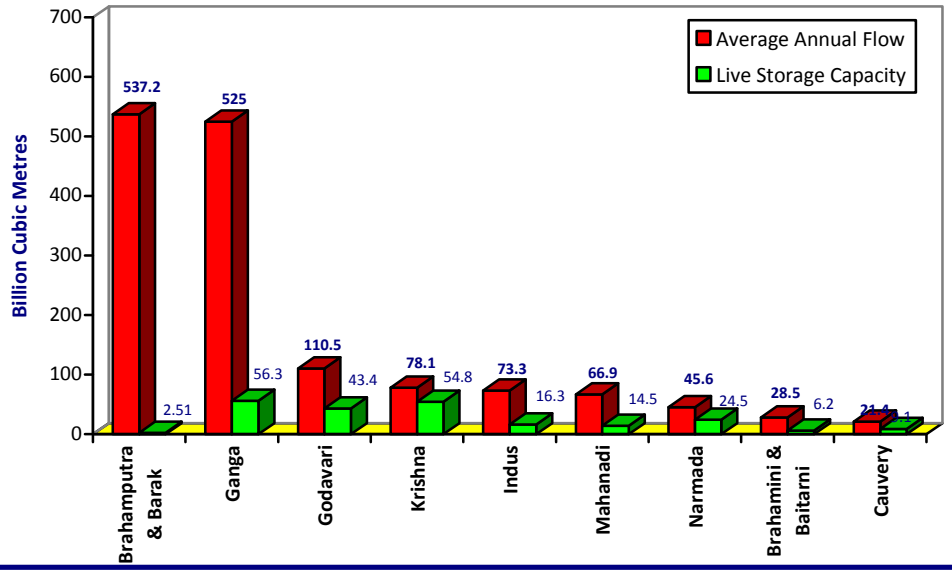


Figure 4: Basinwise Flow & Storage Potential in India



The States of erstwhile Andhra Pradesh, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Orissa and Uttar Pradesh together account for about 72 % of total live storage capacity in the country.

Month-wise storage position of important reservoirs for the years 2012-13 and 2013-14 are presented in the Appendix.

Hydrological Network of CWC

CWC maintains 878 Hydrological stations across the country for collection of hydrological data on water level and discharge observations including silt measurements and snow-melt runoff for assessment of the water resources for planning and its optimal utilisation for comprehensive and sustainable development. The basin-wise distribution of various types of hydrological stations is given in appendix tables.

Ground water

Total annual replenishable ground water potential of the country has been estimated as 433 BCM. The break-up of annual replenishable ground water resources by State with share 2.5% or more have been presented in Table T7. It shows 14 States comprise more than 90% of ground water potential. Among the States, Uttar Pradesh ranks first (17.84%) in terms of share of replenishable ground water resources followed by Andhra Pradesh (8.29%), Madhya Pradesh (8.10%) Maharashtra (7.85%), Bihar (6.78%), West Bengal (6.76%) and Assam (6.59 %).

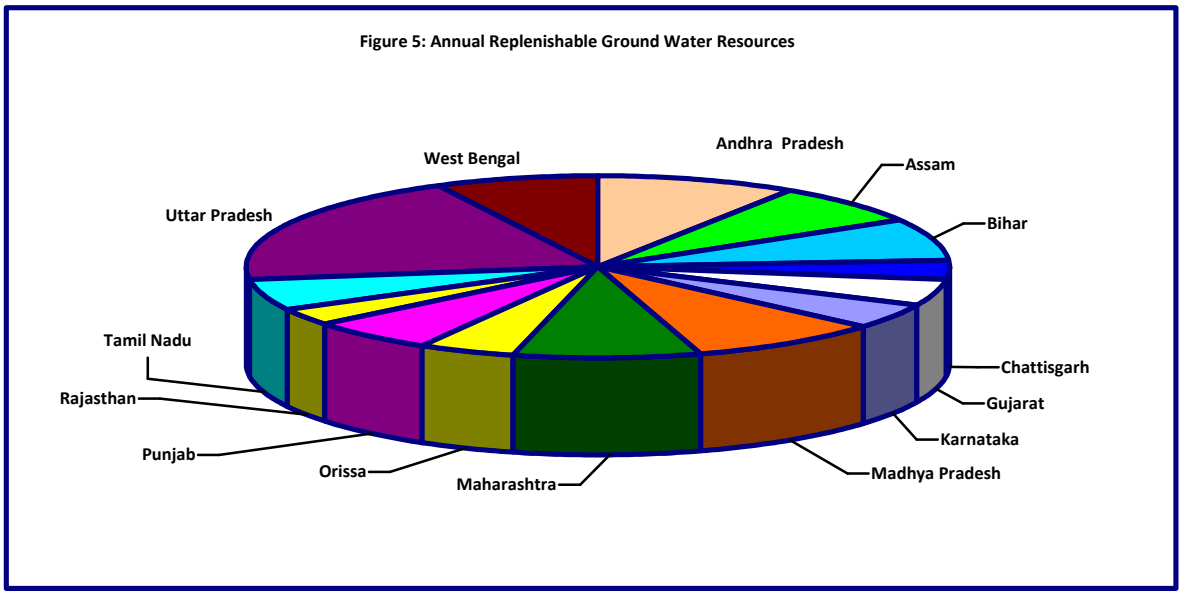
Table T7: Annual Replenishable Ground Water Resources

State	Annual Replenishable Ground Water Resources	
	(BCM / Year)	%
(1)	(2)	
Andhra Pradesh	35.89	8.29
Assam	28.52	6.59
Bihar	29.34	6.78
Chhattisgarh	12.42	2.87
Gujarat	18.57	4.29
Karnataka	17.03	3.94
Madhya Pradesh	35.04	8.10
Maharashtra	33.95	7.85
Orissa	17.78	4.11
Punjab	22.53	5.21
Rajasthan	11.94	2.76
Tamil Nadu	21.53	4.98
Uttar Pradesh	77.19	17.84
West Bengal	29.25	6.76
Others	41.74	9.65
Total	432.72	100.0

Sources : Central Ground Water Board, Min. of Water Resources

CGWB 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 March 2011[4] is presented in Table 8. It is seen that proportion of over-exploited area is highest in Delhi followed by Haryana and Daman & Diu. The number of States/UTs affected due to salinity is only 6; but among these States/UT, the problem of salinity is somewhat significant in Puducherry and Gujarat.

Figure 5: Annual Replenishable Ground Water Resources



[4] For further details please refer CGWB

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), Observation Well (OW), Slim Hole (SH), Pizo Metre (PZ) and Deposit Well (DW). The cumulative total of these structures shows that there were 33368 structures as on 31.01.2015 in the country. Out of which DW constitutes about 10.89% while the remaining 89.11.0% are other types of bore holes. Rajasthan, Orissa, Madhya Pradesh, Uttar Pradesh, Karnataka,

Table T8: Classification of area units by usage of ground water

% of units	Safe	Semi-critical	Critical	Over-exploited	Salinity affected
90+	Arunachal Pr. Assam, Bihar, Goa, J&K, Jharkhand, Maharashtra, Manipur, Meghalaya, Mizoram, Nagaland, Orissa, Sikkim, Tripura, A&N Islands, Chandigarh, D& N Haveli				
75-90	AP, Chhatishgarh, Gujarat, Kerala, WB			Punjab	
40-75	HP, Karnataka, MP, UP, Uttarakhnad, Lakshadweep, Puducherry	Daman &Diu		Delhi, Haryana, Rajashthan, Daman &Diu	
20-40	Haryana, TN	MP, TN, Uttarakhnad, WB, Lakshadweep		Karnataka, TN, Puducherry	Puducherry
5-20	Delhi, Rajashthan	AP, Chhattisgarh, Delhi, Gujarat, Haryana, Karnataka, Kerala, Maharashtra, Rajashthan, UP	Delhi, Haryana, Karnataka, Rajashthan, UP, Uttarakhand,	AP, Gujarat, HP, MP, UP	
<5		Bihar, Jharkhand, Punjab	AP, Chhattisgarh Gujarat, Kerala, MP, Maharashtra, Punjab, UP, TN	Chhattisgarh, Jharkhand, Kerala, Maharashtra	AP, Gujarat, Rajasthan, Orissa, TN

Sources : Central Ground Water Board, Min. of Water Resources

Gujarat, Maharashtra, Tamilnadu and Telangana account for 65% of the total bore holes in the country. Out of total DW schemes in the country, Chattisgarh, Andhra Pradesh, Haryana, Bihar, Other States & UTs account for 35% of total DW Schemes in the country.

Table T9: Bore Holes Drilled by Central Ground Water Board by State (as on 31.03.2011)

State	Exploratory Well	Pizo Metre	Observation Well	Slim Hole	Deposit Well	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Rajasthan	1453	446	548	93	591	3131
Orissa	1890	338	204	21	191	2644
Madhya Pradesh	1449	674	256	8	149	2536
Uttar Pradesh	1157	615	183	40	501	2496
Karnataka	1471	628	353	7	5	2464
Gujarat	1169	463	499	25	255	2411

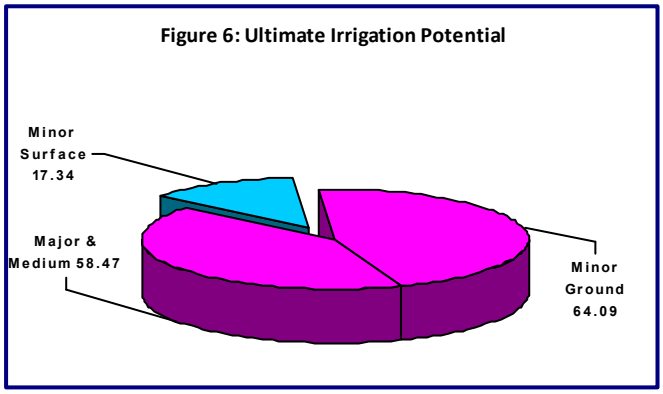
Maharashtra	1450	484	250	2	166	2352
Tamil Nadu	1129	378	449	13	93	2062
Telangana	637	471	451	5	27	1591
Chhattisgarh	963	213	266	0	28	1470
Andhra Pradesh	809	368	263	9	4	1453
Haryana	403	259	304	23	170	1159
Bihar	298	185	74	10	514	1081
Other States/Uts.	3261	1272	938	106	941	6518
All States / Uts	17539	6794	5038	362	3635	33368
Sources : Central Ground Water Board, Min. of Water Resources						

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. Ground Water contributes more than 78% of the total ultimate potential through minor irrigation. Uttar Pradesh and Bihar are two largest states in term of potential due to Major & Medium Irrigation Projects. These two states along with Andhra Pradesh, Madhya Pradesh, Maharashtra, Orissa & Gujarat account for about 65% of the total ultimate potential of Major

Table T10: Ultimate Irrigation Potential ('000 ha)

State	Major & Medium	Minor			Total
		Surface	Ground	Sub-total	
(1)	(2)	(3)	(4)	(5)	(6)
Andhra Pradesh	5000	2300	3960	6260	11260
Arunachal Pradesh	0	150	18	168	168
Assam	970	1000	900	1900	2870
Bihar	5224	1544	4120	5664	10888
Chhattisgarh	1147	81	490	571	1718
Goa	62	25	-	25	87
Gujarat	3000	347	2756	3103	6103
Haryana	3000	50	1462	1512	4512
Himachal Pradesh	50	235	68	303	353
Jammu & Kashmir	250	400	708	1108	1358
Jharkhand	1276	354	830	1184	2460
Karnataka	2500	900	2574	3474	5974
Kerala	1000	800	879	1679	2679
Madhya Pradesh	4853	2111	9250	11361	16214
Maharashtra	4100	1200	3652	4852	8952
Manipur	135	100	369	469	604
Meghalaya	20	85	63	148	168
Mizoram	0	65	5	70	70
Nagaland	10	70	5	75	85
Orissa	3600	1000	4203	5203	8803
Punjab	3000	50	2917	2967	5967
Rajasthan	2750	600	1778	2378	5128
Sikkim	20	50	0	50	70
Tamil Nadu	1500	1200	2832	4032	5532
Tripura	100	100	81	181	281
Uttar Pradesh	12154	1186	16295	17481	29635
Uttarakhand	346	14	504	518	864
West Bengal	2300	1300	3318	4618	6918
All States	58367	17317	64066	81383	139750
All UTs	98	20	26	46	144
All-India	58465	17337	64092	81429	139894



& Medium Irrigation in the country. The largest UIP for Minor Irrigation (Ground Water) exists in Uttar Pradesh. Andhra Pradesh and Madhya Pradesh are 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.

Dams Scenario : Central Water Commission maintains the National Register of Large Dams. The State-wise distribution of number of dams is presented in Table T11. It reveals that there are 5202 Dams in the country out of which 4857 are completed. The maximum number of dams completed in the country is in Maharashtra (1693) followed by Madhya Pradesh (898), Gujarat (621), Chhattisgarh (248), Karnataka (230), Rajasthan (201) Odissa (198) Telangana (162), Andhra Pradesh (129), Tamil Nadu (116), Uttar Pradesh (115). The number of dams under construction is the highest in Maharashtra (152) followed by Gujarat (45), Jharkhand (29), Andhra Pradesh (24) and Telangana (20).

The distribution of dams by time period is given in Table T12. It indicates that the maximum numbers of dams in India were completed during the decades 1971-80 (1296) and 1981-90 (1259).

Table T11: Number of Dams by State (as on 31.10.2014)

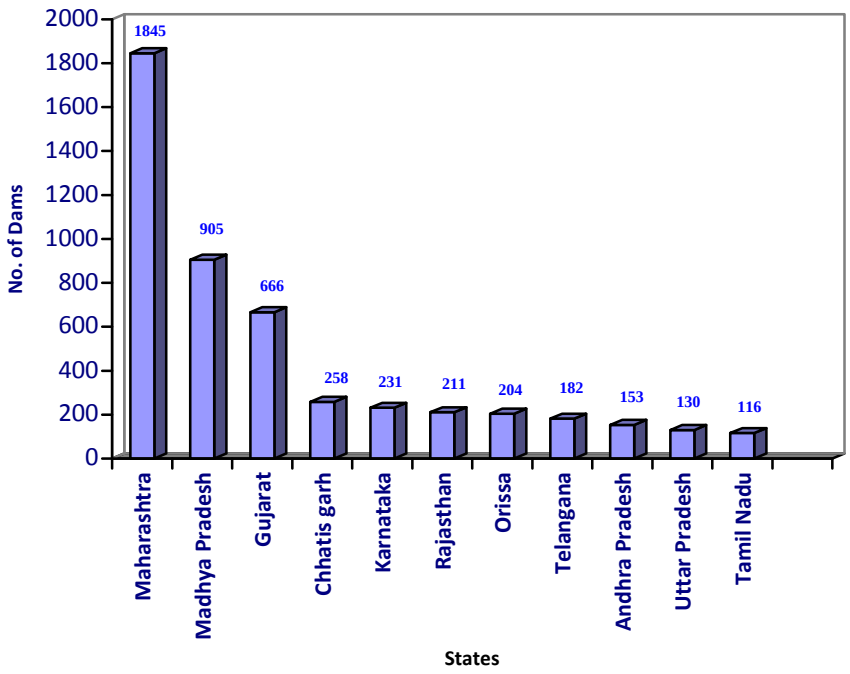
State/UT	Completed	Under Construction	Total	State/UT	Completed	Under Construction	Total
A&N Islands	2	0	2	Maharashtra	1693	152	1845
Andhra Pradesh	129	24	153	Manipur	3	1	4
Arunachal Pr.	1	3	4	Meghalaya	7	0	7
Assam	3	2	5	Mizoram	0	1	1
Bihar	23	3	26	Nagaland	1	0	1
Chhattisgarh	248	10	258	Orissa	198	6	204
Goa	5	0	5	Punjab	14	2	16
Gujarat	621	45	666	Rajasthan	201	10	211
Haryana	1	0	1	Sikkim	2	0	2
Himachal Pr.	16	3	19	Tamil Nadu	116	0	116
J& K	14	2	16	Tripura	1	0	1
Jharkhand	50	29	79	Uttar Pradesh	115	15	130
Karnataka	230	1	231	Uttarakhand	16	8	24
Kerala	58	1	59	West Bengal	29	0	29
Madhya Pradesh	898	7	905	Tengana	162	20	182
				Total	4857	345	5202

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

Table T12: Break-up of number of completed Dams by time period

Up to 1900	1901-1950	1951-1960	1961-1970	1971-1980	1981-1990	1991-2000	2001& above	Not available	Total
67	306	233	498	1296	1259	627	371	200	4857

Figure 7: Distribution of Large Dams



India-WRIS: Generation of Database & Implementation of Web enabled Water Resources Information System in the country

The national Water Policy recognizes that development and management of water resources need to be governed by national perspective and aims to develop and conserve the scarce water resources in an integrated and environmentally sound basis. The policy emphasizes the need for effective and economical management of our water resources by intensifying research efforts in use of remote sensing technology and developing an information system.

With uneven distribution of water with space and time, the management of water resources is a highly complex and tedious task. Moreover, over-exploitation and pollution hinders the availability and creates the scarcity and depletion of the resource. Hence, it calls for sustainable development of water resources across the regions in the country. Pre-requirement for optimal management of water resources are data acquisition and organization across the multidisciplinary domains including socio-economic, environmental issues including water quality aspects besides others. For this, the need is to develop Water Resources Information System dedicated for the management of water resources and to provide foundation for modeling and Spatial Decision Support System (SDSS).

Central Water Commission (CWC), MoWR, initiated the project 'Generation of Database and Implementation of Web enabled Water Resources Information System named as India –WRIS in 11th plan. The work of web enabled water resources information system (WRIS) amounting to Rs. 78.3164 crore was given to ISRO in Oct' 2008. CWC & ISRO signed MOU on 3rd December 2008 to develop web enabled GIS based Water Resources Information System for the entire country during the 11th plan to be completed in 4 years. The information system will be on 1:50000 scale. WRIS was jointly formulated by CWC and ISRO to generate nationally

consistent water resources database to be completed by December 2012 which has now been extended to up to December 2015.

India-WRIS will have 30 layers (appendix table) of information both spatial and non-spatial having 108 sub layers. Main group of database are as under:

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

This results in the development of decision support system as per the requirement of various departments of different states of the country. This would also establish mechanisms for the exchange of knowledge among different agencies/ stakeholders for sustainable water resources in India.

The vision of INDIA-WRIS is to provide a comprehensive, credible and contextual view of India's water resources data along with allied natural resources data and information. The goal of the project is a 'Single Window solution' for all water resources and related data in a standardized GIS format in national framework for water resources assessment and monitoring, planning and development, integrated water resources management (IWRM) and provide foundation for advanced modeling purposes to all departments, organizations, professionals and other stakeholders. It will allow users to Search, Access, Visualize, Understand and Analyze water resources data for planning, development and finally IWRM.

1) **Status of Project upto March 2015**:

- The four version of website of INDIA WARIS has been launched so far. The URL of the website is www.india-wris.nrsc.gov.in.
- The ver 4.0 was launched in March 2014 and is available in public domain at 1:250000 scale. The work of updation/refinement of GIS layers is under progress.
- Further the project has been co-located from ISRO, Jodhpur to CWC Hq Sewa Bhawan in February 2015.

Further, the following works are ongoing in the centre:

- Updation and refinement of existing GIS layers
- Generation of new GIS layers
- Generation of new Modules for different application's being used in CWC
- Providing support to different directorates of CWC and MoWR, RD &GR

2) National Water Informatics Centre (NWIC)

Draft EFC including Memorandum of Agreement (MoA) and byelaws has been prepared and submitted to MOWR, RD & GR in March 2015.

NATIONAL PROJECTS

Government of India has approved a scheme of National Projects with a view to expedite completion of identified National Projects for the benefit of people. Such projects are provided financial assistance by the Government of India in the form of Central Grant which is 90% of the cost of the irrigation & drinking water component of such projects for their completion in a time bound manner. The criterion for selection of National Projects is as under:

(i) 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.

(ii) 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.

(iii) Intra-State Projects with additional potential of more than 2 lac hectare and with no dispute regarding sharing of water and where hydrology is established.

(iv) Extension, Renovation and Modernization (ERM) Projects envisaging restoration of lost potential of 2 lakh or more under the category of National Project subject to conditions.

Recently it has been decided that central assistance in XII Plan for ongoing National Projects and new National Projects of special category states would be 90% and for new National Projects of non special category states/areas it would be 75%.

Out of 16 Projects included in the scheme of National Projects, four projects namely Gosikhurd (Maharashtra), Teesta Barrage (West Bengal), ShahpurKandi (Punjab) and Saryu Nahar Pariyojna (Uttar Pradesh) are under execution. Lakhwar Vyasi Multipurpose Project has been accepted by Technical Advisory Committee of MoWR. Two projects namely Kulsi Dam Project,Nao Dehang Dam Project are under appraisal. Remaining five projects are at various stages of investigation /DPR preparation.

Chapter 3

Resources Utilisation

This section deals with data on resources utilisation such as land use, irrigated area, irrigation potential created and utilised, physical achievements under Command Area Development (CAD) Programme etc.

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. The relevant data available from Ministry of Agriculture at national level has been presented in Table T13[5] and Figure 9 for the period 2000-01 to 2011-12. Over this period the table shows that Net Sown Area and Gross Sown Area are undulating while Total Cultivable Area has a declining trend but Forest Area, Gross Irrigated Area, Net Irrigated Area have a slow increasing trend. However, it indicates only about 45% of area cropped in the country is irrigated during the period 2006-07 to 2010-11 thereby indicating that 55% of the sown area – gross or net – doesn't have irrigation facility.

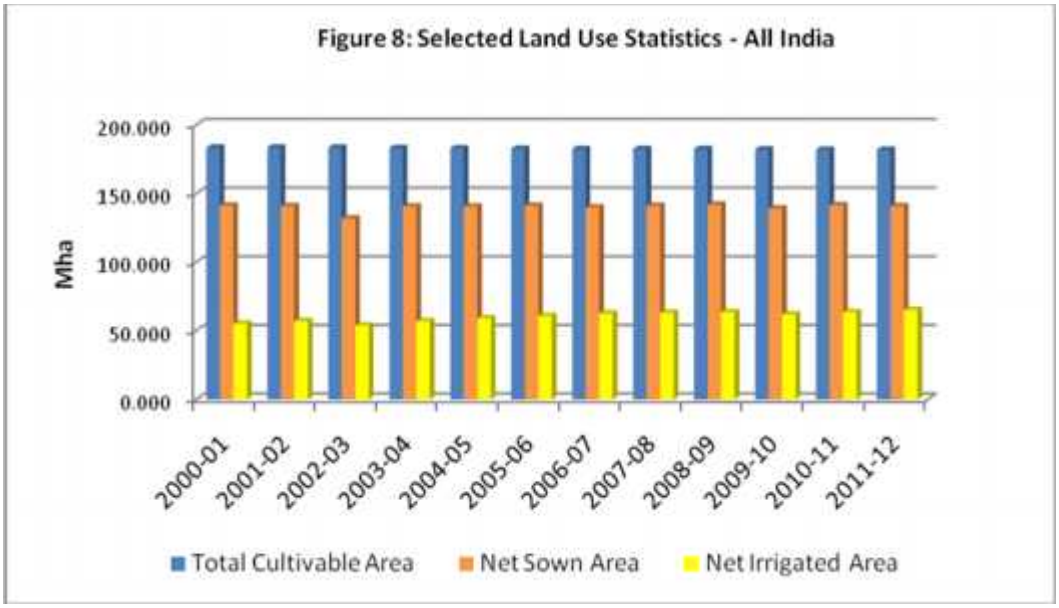
Table 13: Land Use and Irrigation Statistics-All India

('000 hect)

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)
2000-01	328726	69843	141336	183455	185340	76187	55205
2001-02	328726	69720	140734	183552	188014	78371	56936
2002-03	328726	69821	131943	183450	173889	73055	53897
2003-04	328726	69968	140708	183132	189661	78042	57057
2004-05	328726	69960	140642	182946	191103	81078	59229
2005-06	328726	69994	141162	182686	192737	84280	60837
2006-07	328726	70025	139823	182476	192381	86753	62744
2007-08(P)	328726	69965	141016	182438	195223	88058	63189
2008-09(P)	328726	69978	141899	182459	195314	88896	63638
2009-10(P)	328726	69990	139173	182179	188992	85085	61936
2010-11(P)	328726	70009	141559	182018	197323	88630	63598
2011-12(P)	328726	70015	140801	181983	195246	91530	65263

Source : Ministry of Agriculture, Directorate of Economics & Statistics
(P) Provisional

[5] For further details at State or district level one may visit website of Ministry of Agriculture.



Irrigated Area under Principal Crops

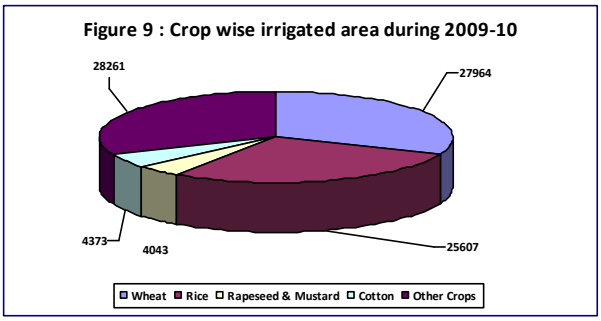
For having an idea about the quantum of water used for irrigation it is important to know irrigated area under different crops as requirement of water varies from crop to crop. The gross irrigated area for a few selected crops has been presented in the following Table T14. It shows that gross irrigated area during 2011-12 was 91.5 Mha of which food-grain crops contributed about 67.15%.

Table T14: Gross Irrigated Area for a Few Selected Crops – All India **('000 ha)**

Crop / Year	1950-51	1960-61	1970-71	1980-81	1990-91	2000-01	2007-08	2008-09	2009-10	2010-11	2011-12
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Wheat	3402	4233	9924	15553	19511	22798	26094	25694	26195	27472	27964
Rice	9844	12523	14339	16364	19470	24337	25218	26584	24221	25371	25607
Rapeseed & Mustard	N.A.	138	356	990	3076	2759	4203	4448	3846	3891	4043
Food grains	18317	22065	30117	37851	44866	53609	59512	60415	58122	60708	61466
Cotton	465	967	1358	2115	2487	2766	3534	3362	3590	3699	4373
Total Gross Irrigated Area	**22563**	**27980**	**38195**	**49775**	**63204**	**76187**	**88058**	**88896**	**85085**	**88630**	**91530**

Source : Ministry of Agriculture, Directorate of Economics & Statistics

Among the cereals, it is observed that irrigated area under rice varied between 24.2 Mha to 26.6 Mha during the period 2000-01 to 2011-12. The irrigated area under wheat remained between 25.7 Mha to 28.0 Mha during the same period.



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. However, Planning Commission collects data on Irrigation Potential Created (IPC) and Utilised (IPU) for major and medium irrigation projects[6]. For minor irrigation schemes, Ministry of Water Resources conducts a census once in 5 years. These censuses provide IPC and IPU by source of irrigation. The last census was conducted in 2006-07.

Analysing the data relating to net area irrigated by source for the year 2011-12[7], it is observed that the major source of irrigation is ground water. It was found that wells (considering all types of wells viz. dug well, shallow tube-well, deep tube-well) provided about 61.6% irrigation followed by canals with 24.5% at all- India level during 2011-12.

Table T15: Source-wise Net Irrigated Area in India

('000 hect.)

Year	Canal	Tank	Wells	Other Sources	Total (All Sources)
(1)	(2)	(3)	(4)	(5)	(6)
2000-01	16012	2466	33818	2909	55205
2001-02	15202	2196	35197	4342	56937
2002-03	14073	1811	34354	3658	53896
2003-04	14458	1916	36384	4299	57057
2004-05	14766	1734	35191	7538	59229
2005-06	16718	2083	36070	5966	60837
2006-07	17027	2078	37640	5999	62744
2007-08(P)	16748	1973	38361	6107	63189
2008-09(P)	16881	1981	38756	6020	63638
2009-10(P)	14978	1587	38363	7008	61936
2010-11(P)	15667	2004	39061	6887	63619
2011-12(P)	16017	1937	40187	7123	65264

Source : Ministry of Agriculture, Directorate of Economics & Statistics; Office of the Registrar General of India
P : Provisional

Irrigation development in the country

[6] Irrigation projects are classified on the basis of culturable command area (CCA) of the project. A project having CCA of more than 10,000 ha is termed as major irrigation project while CCA more than 2,000 ha and upto 20,000 ha is medium irrigation project. A project/scheme having CCA upto 2,000 ha is termed as minor irrigation scheme.

[7] For further detailed data, please look at the website of Ministry of Agriculture.

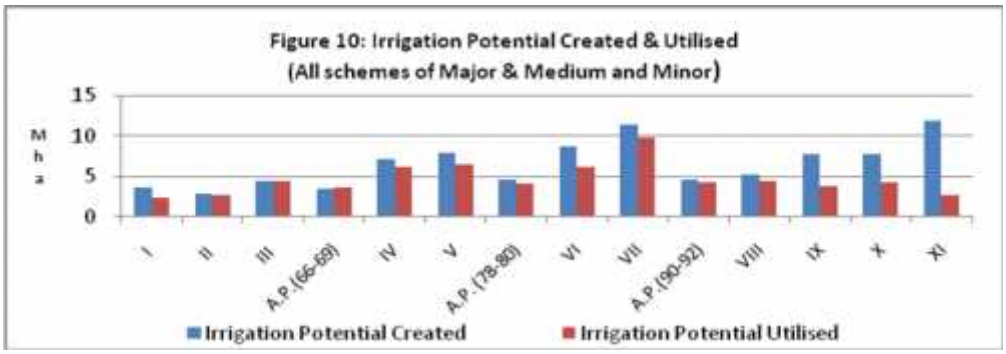
As indicated earlier irrigation projects are classified as major, medium or minor irrigation projects[8]. The minor irrigation projects (schemes) are further divided into two categories viz. Surface Water Schemes and Ground Water Schemes. Major and Medium irrigation projects are generally surface water 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 to 113.53 Mha by the end of XI Plan out of which 47.97 Mha is from major & medium projects and the remaining 65.56 Mha from minor irrigation schemes.

The percentage of potential created up to the end of XI Plan to ultimate potential through Major & Medium Irrigation projects is 82 % at national level.

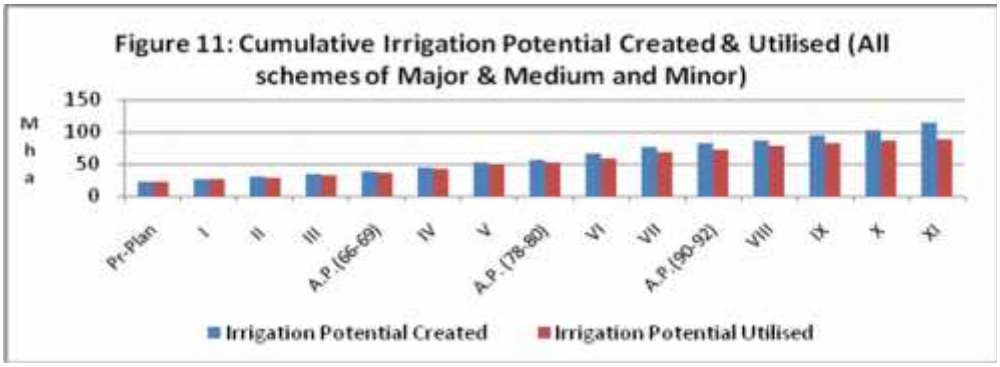
As regards irrigation potential utilised over different Plan periods, it is observed that the irrigation potential utilised was 22.60 Mha in pre-plan period which increased to 87.86 Mha by the end of XI Plan out of which 34.95 Mha is from major and medium projects and the remaining 52.91 Mha from minor irrigation schemes. The percentage of IPU to IPC up to 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. *The figures for XI Plan are still under consolidation as most of States and UTs have not furnished their figures.*

The irrigation potential created and utilised over different Plan periods are shown in the following Figure 10.



Plan-wise cumulative irrigation potential created and utilised are shown in the following Figure 11.

[8] The minor irrigation projects are often called minor irrigation schemes.



Among the States, the potential created in respect of major & medium projects at the end of XI Plan 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.

The following table T16 gives ultimate irrigation potential (UIP), IPC and IPU of the States having percentage of IPU to IPC at least 80%.

Table T16: Achievements of Irrigation Potential Created / Utilised for Major& Medium Irrigation

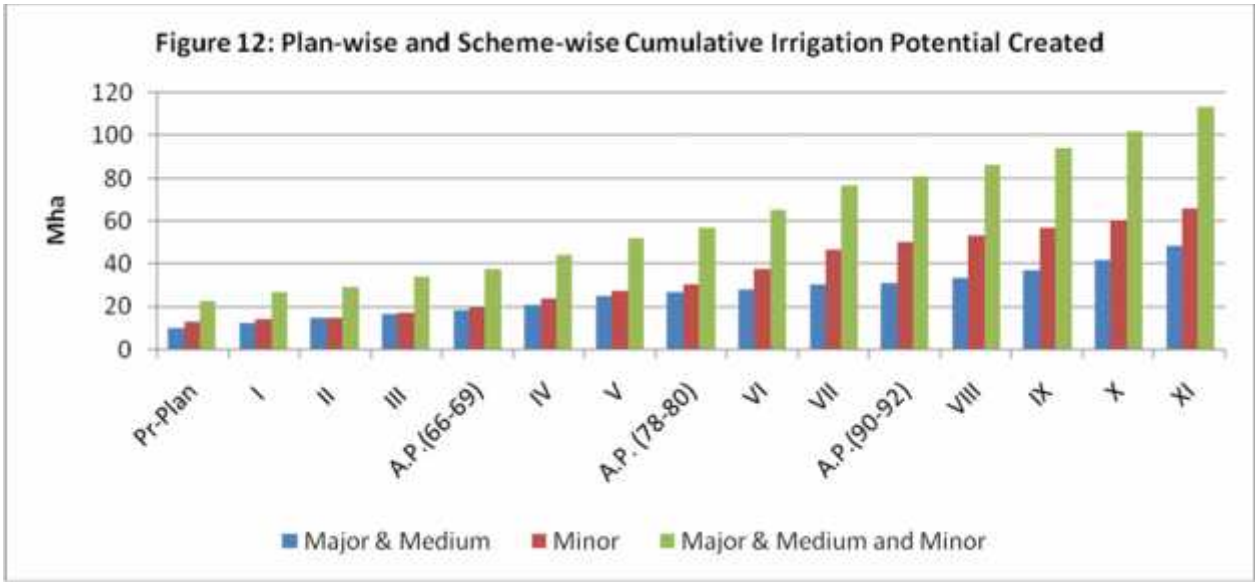
('000 ha.)

States	Ultimate Irrigation Potential (UIP)	Potential Created up to X Plan (IPC)	Potential Created up to XI Plan (IPC)	Potential Utilised * up to X Plan (IPU)	% of IPC (of XI Plan) to UIP	% of IPU to IPC (of X Plan)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Andhra Pradesh	5000	3600.2	4803.7	3244.6	96	90.1
Haryana	3000	2193.7	2206.3	1893.3	74	86.3
Jammu & Kashmir	250	187.3	138.3	174.6	130	93.2
Karnataka	2500	2637.7	328.1	2119.7	119	80.4
Orissa	3600	1974.4	2147.4	1878.7	60	95.2
Punjab	3000	2574.7	2684.4	2510.5	89	97.5
Rajasthan	2750	2861.6	3167.1	2526.1	115	88.3
Tamil Nadu	1500	1562.6	1528.3	1556.9	105	99.6
West Bengal	2300	1754.8	1901.4	1573.6	83	89.7
All India	58465	41637.9	4972.4	33739.6	82	81.0

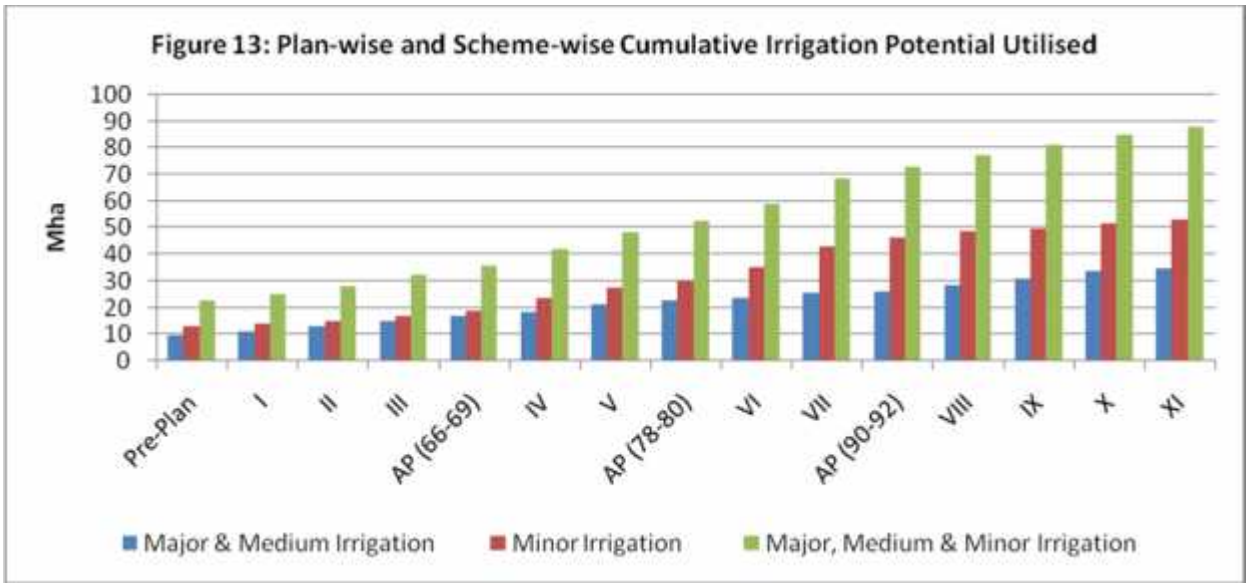
*** IPU for XI Plan is not yet available.**

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.

The following figure Figure12 shows cumulative IPC of major & medium and minor irrigation schemes over different Plan periods.



Likewise, Plan-wise cumulative IPU of major & medium and minor irrigation schemes is depicted in following Figure 13.



Number of Major, Medium Irrigation and ERM Projects

Up to the XI Plan, there were 295 completed major projects and the number of major projects spilled over in XII Plan were 148 out of which maximum number of projects are in Maharashtra (49), followed by Andhra Pradesh (29 including 13 Projects of Telengana) and M.P. (15).

Detail about 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.

AIBP Programme:

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 for 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.

Accelerated Irrigation Benefits Programme (AIBP) was launched during 1996-97 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 in advanced stage of completion. While selecting the projects, special emphasis was given to Pre-fifth and Fifth Plan projects. Priorities were also given to those projects which were benefiting Tribal and Drought Prone Areas. However, under the revised AIBP Guidelines from the year 1999-2000 onwards, CLA under AIBP could also be extended to minor surface irrigation projects of special category states (N.E. States & Hilly States of H. P., Sikkim, J&K, Uttaranchal and projects benefiting KBK districts of Orissa).

Total Central Assistance of Rs. 53047.65 Crores for Major and Medium Irrigation (MMI) Projects to various States has been released till March 2015. 297 MMI projects have been benefitted by AIBP out of which 143 projects have been completed by various States up to March, 2015, 5 have been deferred and the remaining 149 are ongoing. The total potential created under AIBP by major & medium irrigation projects is 8052.9 thousand hectare up to March 2014 (as reported by State Govts).

During the 12th Plan, the AIBP guidelines has been further re-modified and implemented from October, 2013. More emphasis has been given on the pari-passu implementation of Command Area Development (CAD) works for the potential utilization. The eligibility criteria for advanced stage of construction of new projects has been defined in terms of at least 50% of physical and financial progress on essential works like Head-Works, Earth Works, Land Acquisition, R&R etc.The central assistance in the form of central grant for new and ongoing projects which is;

(i) 90% central assistance(CA) of project cost(works Component) in case of special category States, and KBK region of Odisha

(ii) 75 % CA of project cost in Special Area i.e. Major/Medium projects benefiting drought prone area, desert prone area, tribal area and flood prone area in non special category states and

(iii) 25% CA of project cost in case of Non-special category States except for (ii) above. Could be enhanced up to 50% for new projects subject to condition that the States actually carry out water sector reforms

The balance funds are to be arranged by the State Government from its own resources.

During a financial year, the sanctioned grant is released in two instalments.

(i) For projects receiving 25% CA: - 90 %(as 1st instalment) after release of at least of 50% of State Share and balance 10% (2nd instalment) after obtaining the UC of minimum of 50% of CA released earlier and

(ii) For projects receiving higher than 50 % CA: - 50% (1st instalment) after the State Releases its full Share and 50% (2nd instalment) same as above.

Command Area Development (CAD) programme:

The Command Area Development (CAD) programme was started in 1974-75, as a centrally sponsored scheme to achieve speedy utilisation of irrigation potential created and also to improve productivity in selected irrigated commands. The important activities of this programme are development of field channels, land levelling, warabandi, and field drains etc. Land levelling has been discontinued since March 2004.

The cumulative achievement since inception of the programme shows 20.8 Mha field channels and 2.14 Mha field drains (up to March 2013) have been created. Analysing cumulative data for all the States, it is observed that the development of field channels up to March 2013 was the highest for Uttar Pradesh followed by Maharashtra and Tamil Nadu. These States accounted for 64% of the total achievement under the programme. Further details are available in Appendix.

The following table gives number of major, medium and ERM projects completed in XI Plan, spilled over in the XII Plan and new Projects taken up in XII plan.

Table T17: Number of Major, Medium & ERM Irrigation Projects in India

Type of Project	Completed up to XI Plan	Spilled over Project in XII Plan	New Project in XII Plan
(1)	(2)	(3)	(4)
Major Projects	295	148	27
Medium Projects	1018	138	32
ERM Projects	171	37	27
Total	1484	323	86

Chapter 4

Financial Performance

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

Financial Expenditure on Major and Medium Irrigation

There has been a consistent increase in the annual average financial expenditure on irrigation sector over plan periods. The Plan wise expenditure on Major and Medium Irrigation is presented in the following table. It is seen that the expenditure on Major and Medium irrigation during the XI plan has increased by more than 99% as compared to X Plan.

Table T18: Expenditure on Major & Medium Irrigation

(Rs. Crores)

Ninth Plan (1997-02)	Tenth Plan (2002-07)	Actual Exp. (2007-08)	Actual Exp (2008-09)	Revised Approved Outlay (2009-10)	Revised Approved Outlay (2010-11)	Actual Expenditure (2011-12)
49289.6	83647.1	29390.6	32341.8	34882.28	34310.11	35664.48

While analysing State wise expenditure on Major and Medium irrigation during XI Plan, it was found that the maximum expenditure was in Andhra Pradesh followed by Gujarat, Maharashtra, Karnataka, Madhya Pradesh, Uttar Pradesh, Orissa, Bihar and Haryana. The expenditure in respect of these states was more than 90% of the total expenditure in the XI Plan.

Table T19: Expenditure on Major & Medium Irrigation – contribution of selected States during IX, X & XI Plans

(Rs. Crores)

State	Ninth Plan (1997-02)	Tenth Plan (2002-07)	XI Plan (2007-12)
1	2	3	4
Andhra Pradesh	4045.8	20434.2	51525.49
Gujarat	5298.4	10496.2	25614.81
Maharashtra	14807.3	10313.3	25397.89
Karnataka	8700.5	16505.4	15410.11
Madhya Pradesh	2203.7	5429.3	9982.62
Uttar Pradesh	3014.7	4876.1	9138.35
Orissa	2331.2	2388.6	6283.78
Bihar	1621.9	1597.3	3537.35
Haryana	1154.4	1297.8	3333.98

Financial Expenditure on Flood Management:

The expenditure on flood management during the last three Plans is presented in the following table. The expenditure in XI Plan has increased significantly by more than 159% as compared to the X Plan while the increase in X Plan as compared to IX Plan was about 49%.

Table T20: Expenditure on Flood Management (Rs. Crores)					
Upto X Plan	Actual Exp. (2007-08)	Actual Exp (2008-09)	Revised Approved Outlay (2009-10)	Revised Approved Outlay (2010-11)	Actual Expenditure (2011-12)
14280.75	1624.98	2345.26	2469.58	2512.95	3465.89

While analysing State wise expenditure on flood management during XI Plan, it is found that the maximum expenditure was incurred in the State of Bihar followed by Uttar Pradesh, Assam, Andhra Pradesh, West Bengal, Orissa, Gujarat, Haryana and Manipur. These States accounted for around 79% of total expenditure on Flood Management during XI Plan.

Table T21: Expenditure on Flood Management–contribution of selected States during IX, X & XI Plan (Rs. Crores)			
State	Ninth Plan (1997-02)	Tenth Plan (2002-07)	XI Plan (2007-12)
1	2	3	4
Bihar	316.98	474.37	2186.08
Uttar Pradesh	139.88	909.64	1533.13
Assam	73.66	136.79	1310.49
Andhra Pradesh	214.64	255.04	1209.8
West Bengal	653.69	418.89	696.88
Orissa	53.50	15.39	601.33
Gujarat	15.60	7.76	530.01
Haryana	93.62	252.56	442.43
Manipur	32.14	48.55	393.86

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 expenditure on CADWM Programme during the last three plans along with expenditure on the first three years of the XII Plan is presented in the following table. It is seen that the expenditure during XI Plan has increased significantly by more than 139% as compared to the X Plan while the increase in X Plan as compared to IX Plan was about 9%.

Table T22: Expenditure on CADWM Programme (Rs. Crores)						
IX Plan (1997-02)	X Plan (2002-07)	XI Plan (2007-12)	2012-13	2013-14	2014-15	Cumulative total up to 2014-15
75165.66	81856.84	195726.42	36518.73	17998.61	19974.02	595314.11

While analysing State wise expenditure on CADWM Programme in XI Plan it is found that the maximum expenditure was incurred in the State of Uttar Pradesh followed by Haryana, Karnataka, Punjab, Orissa, Bihar, Rajasthan, Tamil Nadu & Chhatisgarh. These States accounted for more than 80% of total expenditure on Flood Management during XI Plan.

Table T23: Expenditure on CADWM Programme – contribution of selected States during IX, X & XI Plan (Rs. Crores)			
State	Ninth Plan (1997-02)	Tenth Plan (2002-07)	XI Plan (2007-12)
1	2	3	4
Uttar Pradesh	15343.50	17020.76	39317.05
Haryana	6078.03	8058.51	22762.55
Karnataka	7278.81	13140.90	21090.84
Punjab	5985.55	6277.38	18680.37
Orissa	2911.83	1860.93	12321.88
Bihar	300.00	630.11	11708.14
Rajasthan	13008.37	11598.85	11659.61
Tamil Nadu	8409.99	9054.98	10890.30
Chhattisgarh	46.32	2060.02	9677.26

Chapter 5

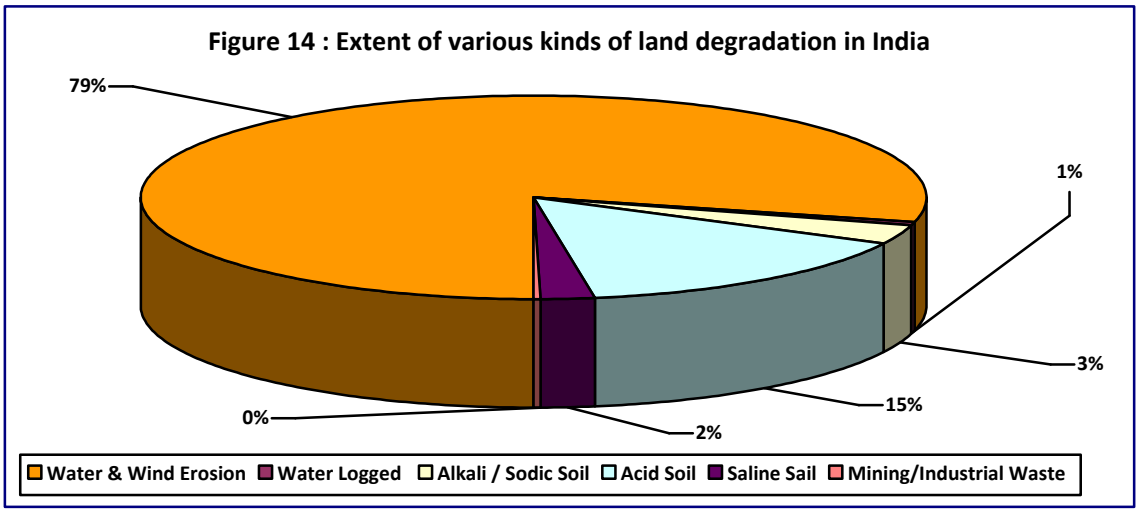
Environmental Performance

This chapter presents information regarding environmental aspects of water resources development activities. It includes data on degraded land and their distribution according to various problems, flood damages, financial expenditure on flood protection works and physical benefit thereof, performance of flood forecasting network, financial and physical progress of drinking water supply schemes in rural areas.

Table T24: Extent of various kinds of Land Degradation in India

(Lakh ha)

Water & Wind Erosion	Water Logged	Alkali / Sodic Soil	Acid Soil	Saline Soil	Mining / Industrial Waste	Total Degraded Area
948.68	9.15	37.08	179.26	27.29	2.58	1204.04



Land Resources and its Degradation[9]

As per the data available from the Ministry of Agriculture, a total of 120.40 Mha of land was estimated to be degraded in the country. Out of this, Madhya Pradesh and Chhattisgarh together accounted for 18.88 Mha while Uttar Pradesh and Uttarakhand together accounted for 15.84 Mha of degraded land. The extent of degraded land in Rajasthan, Maharashtra, Andhra Pradesh, and Karnataka was 20.43 Mha, 9.73 Mha, 9.19 Mha and 8.09Mha respectively. These eight States together accounted for about 68% of the total degraded land in the country. Cause-wise, water

[9] For further details please see website of Ministry of Agriculture (NRMD, DAC)

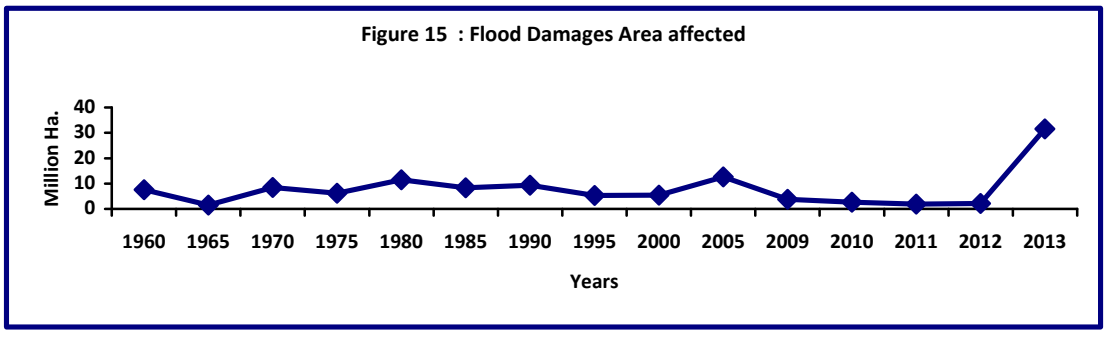
and wind erosion accounted for the major part (78.8%) of the total degraded land in the country, followed by soil acidity (14.9%) and alkali soil (3.1%). Thus, at all-India level the Water and Wind Erosion is the predominant cause for land degradation in the country. At State level also, except for Chhattisgarh, Kerala, Rajasthan and a few north-eastern states water erosion is the predominant cause for land degradation. Wind erosion is the main cause behind land degradation in Rajasthan and Gujarat whereas soil acidity is the main cause for land degradation in Kerala, Chhattisgarh, Assam, Arunachal Pradesh, Manipur, and Nagaland.

Flood

Flood is one of the most devastating natural calamities, which has been causing extensive damage to life and property besides perpetrating tremendous sufferings. 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. The area affected by floods was 2.29 Mha in 1953 and 31.58 Mha in 2013 which was at peak since 1953. The damage to crops was in the wide range varying from Rs. 5.87 crore in 1965 to Rs. 7307.23 crore in 2003. The floods also caused damage to crops worth Rs 3214.99 crore in 2013. 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.11095.14 crore during 2013.

Table T25: 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)
2013	31.58	21.15	3214.99	526.12	3938.12	157	2137	11095.14
Maximum	31.58	70.45	7307.23	10809.80	17509.35	618	11316	32551.76
Year when maximum loss/damage occurred	2013	1978	2003	2009	2009	1979	1977	2009



There has been a considerable increase in the governmental expenditure on flood management over the past years. It has gone up from Rs.13.21 crore during I Plan to Rs. 17130.20 crore during XI Plan. The central assistance in flood control work has risen from Rs.742.80 crore in X Plan to Rs 1193.50 crore in XI Plan.

Table T26: Expenditure under Flood Management Work (Rs. crores)

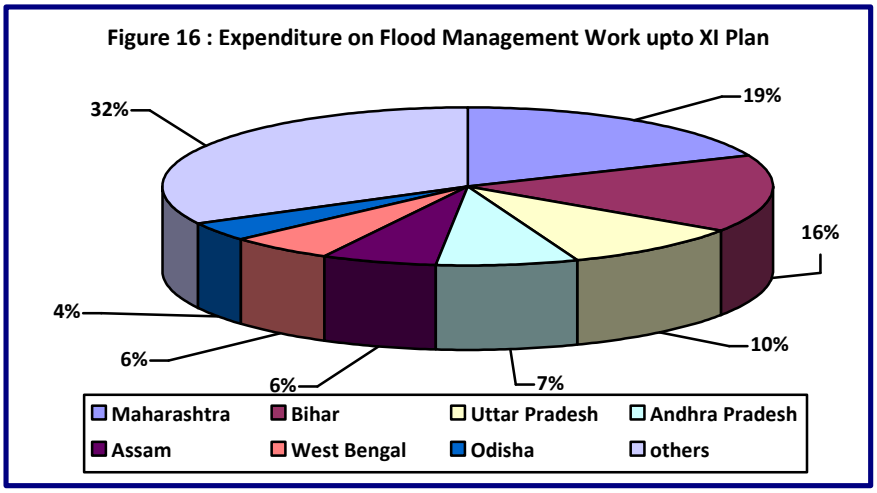
	States & UT's	Centre	Total
I Plan	13.21	-	13.21
X Plan	3601.38	742.80	4344.18
XI Plan	15936.7	1193.50	17130.20

Among the states the maximum expenditure for flood management during XI Plan is for Maharashtra followed by Bihar, Uttar Pradesh, Andhra Pradesh, Assam, West Bengal and Odisha.

Table T27: Expenditure on Flood Management Work for Selected States

(Rs. crores)

State	Expenditure (up to XI Plan)
Maharashtra	3178.03
Bihar	2703.50
Uttar Pradesh	1687.72
Andhra Pradesh	1280.21
Assam	1036.74
West Bengal	983.37
Odisha	646.55



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 2014 (4667 accurate forecasts out of 4772 issued) has been very successful 97.80% of forecasts were correct within +/-15 cms or +/- 20% cumecs. Over the years, the percentage of

Table : T28 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

forecasts accuracy has been maintained at 95.71 to 98.55% and above apparently due to improvement in methodology and acquisition of latest technology.

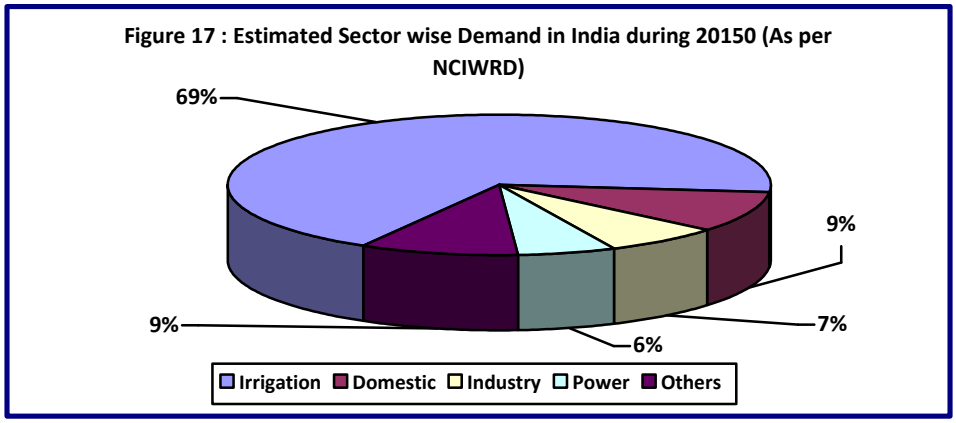
Water Requirement

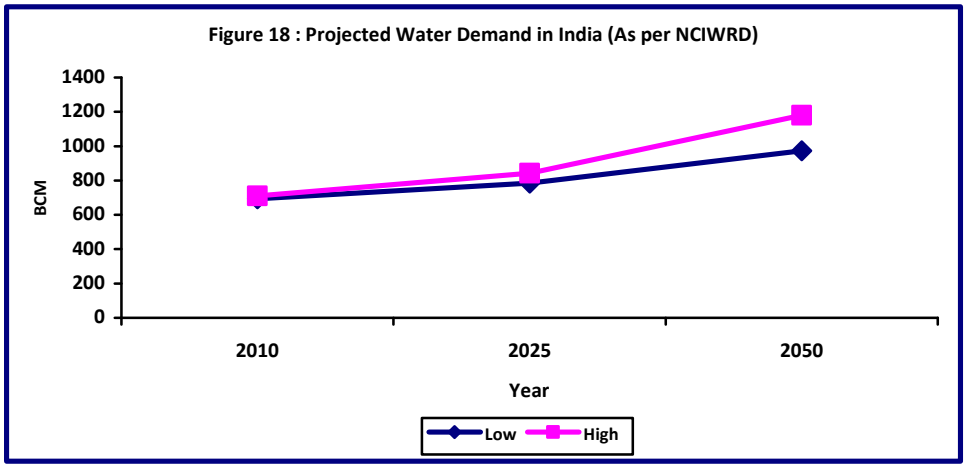
The requirement of fresh water both for irrigation and other uses is growing continuously. The requirement of water for various sectors has been assessed by the National Commission on Integrated Water Resources Development(NCIWRD) in the year 2000.This requirement is based on the assumption that irrigation efficiency will increase to 60 % from the current level of 35 -40 %. The following table T29 indicates the projected water demands in India for different sectors.

Table : T29 Projected Water Demand in India (By Different Use)

Sector	Water Demand in Km3 (or BCM)								
	Standing Sub-Committee of MoWR, RD & GR			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-2000"
Note: NCIWRD: National Commission on Integrated Water Resources Development
BCM: Billion Cubic Meters





The Standing Committee of MOWR also assesses it periodically. The total water demand for all the uses is likely to be 1180 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 potable drinking water. In fact, 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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Table 1: Per Capita Average Annual Availability of Water in India during 2010, 2025 & 2050

Sl No.	River Basin	Average Annual Water Resources Potential (BCM)$	Estimated Population (Million) #			Estimated per capita Average Annual Water Availability (M^3)		
			2010	2025	2050	2010	2025	2050
1	2	3	4	5	6	7	8	9
1	Indus (up to Border)	73.3	57.69	69.2	81.41	1270.58	1059.25	900.38
2	Ganga-Brahmputra-Meghna							
	a) Ganga	525	494.47	593.04	697.69	1061.74	885.27	752.48
	b) Brahmaputra	537.2	40.07	48.06	56.54	13406.54	11177.69	9501.24
	c)Barak & Others	48.4	8.54	10.24	12.05	5667.45	4726.56	4016.59
3	Godavari	110.5	74.36	89.18	104.92	1486.01	1239.07	1053.18
4	Krishna	78.1	83.72	100.41	118.13	932.87	777.81	661.14
5	Cauvery	21.4	40.34	48.39	56.93	530.49	442.24	375.90
6	Subernarekha	12.4	12.94	15.52	18.26	958.27	798.97	679.08
7	Brahamani & Baitarni	28.5	13.49	16.18	19.04	2112.68	1761.43	1496.85
8	Mahanadi	66.9	36.63	43.93	51.68	1826.37	1522.88	1294.51
9	Pennar	6.3	13.36	16.02	18.85	471.56	393.26	334.22
10	Mahi	11	14.46	17.34	20.40	760.72	634.37	539.22
11	Sabarmati	3.8	14.46	17.34	20.40	262.79	219.15	186.27
12	Narmada	45.6	20.24	24.28	28.56	2252.96	1878.09	1596.64
13	Tapi	14.9	20.38	24.44	28.75	731.11	609.66	518.26
14	West Flowing Rivers From Tapi to Tadri	87.4	35.53	42.61	50.13	2459.89	2051.16	1743.47
15	West Flowing Rivers From Tadri to Kanyakumari	113.5	44.89	53.84	63.34	2528.40	2108.09	1791.92
16	East Flowing Rivers Between Mahanadi & Pennar	22.5	32.5	38.97	45.85	692.31	577.37	490.73
17	East Flowing Rivers Between Pennar And Kanyakumari	16.5	61.96	74.32	87.43	266.30	222.01	188.72
18	West Flowing Rivers Of Kutch and Saurashtra including Luni	15.1	30.43	36.5	42.94	496.22	413.69	351.65
19	Area of Inland drainage in Rajasthan	Negl.	9.78	11.73	13.79	-	-	-
20	Minor River Draining into Myanmar(Burma) & Bangladesh	31	2.07	2.48	2.91	14975.85	12500.00	10652.92
	TOTAL	**1869.3**	**1162.31**	**1394.02**	**1640.00**	**1608.26**	**1340.94**	**1139.82**

Source: B.P. Directorate, CWC.

$: Reassessment of Water Resources Potential of India March 1993, CWC.

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

Table 2: Basin Wise storage in India as on 17.03.2015

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	73.3	16.223	0.1002	16.3232	22.3
2	2a	Ganga	525.0	48.677	7.649	56.326	10.7
3	2b	Brahmaputra	537.2	1.718	0.7951	2.5131	0.5
4	2c	Barak & Others	48.4	0.719	9.172	9.891	20.5
5	3	Godaveri	110.5	35.0327	8.4115	43.4442	39.3
6	4	Krishna	78.1	50.651	4.156	54.807	70.2
7	5	Cavery	21.4	9.083	0.015	9.098	42.6
8	6	Subernarekha	12.4	0.309	2.15	2.459	19.9
9	7	Brahmani & Baitarni	28.5	5.515	0.703	6.218	21.8
10	8	Mahanandi	66.9	13.006	1.4613	14.4673	21.6
11	9	Pennar	6.3	2.938	2.141	5.079	80.4
12	10	Mahi	11.0	5.017	0.15	5.167	46.9
13	11	Sabarmati	3.8	1.577	0.109	1.686	44.3
14	12	Narmada	45.6	17.622	6.8347	24.4567	53.6
15	13	Tapi	14.9	9.137	1.558	10.695	71.9
16	14	West Flowing Rivers from Tapi to Tadri	87.4	14.668	2.43	17.098	19.6
17	15	West Flowing Rivers from Tadri to Kanyakumari	113.5	11.023	1.416	12.439	11.0
18	16	East Flowing Rivers between Mahanandi & Pennar	22.5	2.676	1.181	3.857	17.1
19	17	East Flowing Rivers between Pennar & Kanyakumari	16.5	1.441	0.015	1.456	8.8
20	18	West Flowing Rivers of Saurashtra & Kuchh including Luni	15.1	6.336	0.511	6.847	45.3
21	19	Area of Inland Drainage of Rajashthan	0.0	0.000	0	0.000	
22	20	Minor Rivers Draining into Mayanmar and Bangladesh	31.0	0.019	0	0.019	0.1
23	20a	Area of North Ladakh not draining into Indus	0.0	0.000	0	0.000	
		TOTAL in BCM	**1869.4**	**253.388**	**50.959**	**304.348**	16.3

Souce : WM Directorate, CWC
BCM : Billion Cubic Metre

Table 3: Live Storage Capacities of Large Dams/Reservoirs/ Projects as on 17.3.2015

SL.NO.	STATE/ U.T.	Total Live Storage capacity (BCM)		
		Completed	Under construction	Total
1	2	3	4	5
1	ANDAMAN & NICOBAR	0.019	0.000	0.019
2	ARUNACHAL PRADESH	0.000006	0.241	0.241066
3	ANDHRA PRADESH/TELANGANA	15.129	0.000	15.129
4	ANDHRA PRADESH	7.513	6.980	14.493
5	TELANGANA	6.066	0.082	6.148
6	ASSAM	0.012	0.547	0.559
7	BIHAR	2.613	0.436	3.049
8	CHHATTISGARH	6.736	0.877	7.613
9	GOA	0.290	0.000	0.290
10	GUJARAT	18.359	8.175	26.534
11	HIMACHAL PRADESH	13.792	0.100	13.891
12	JAMMU & KASHMIR	0.029	0.0002	0.029
13	JHARKHAND	2.436	6.039	8.475
14	KARNATAKA	31.896	0.736	32.632
15	KERALA	9.768	1.264	11.032
16	MAHARASHTRA	37.358	10.736	48.094
17	MADHYA PRADESH	33.075	1.695	34.770
18	MANIPUR	0.407	8.509	8.916
19	MEGHALAYA	0.479	0.007	0.486
20	NAGALAND	1.220	0.000	1.220
21	ODISHA	23.934	0.896	24.830
22	PUNJAB	2.402	0.00002	2.402
23	RAJASTHAN	9.708	0.443	10.152
24	SIKKIM	0.007	0.000	0.007
25	TAMIL NADU	7.859	0.013	7.872
26	TRIPURA	0.312	0.000	0.312
27	UTTRAKHAND	5.670	1.613	7.283
28	UTTAR PRADESH	14.263	0.724	14.987
29	WEST BENGAL	2.027	0.184	2.212
30	MIZORAM	0.000	0.663	0.663
	TOTAL	**253.380**	**50.959**	**304.340**

Source: WM Directorate, CWC

BCM: Billion Cubic Metre

Table 4: Storage position of Important Reservoirs of India at the end of each Month During June 2012 to May 2013

S.NO	NAME OF RESERVOIR	(STATE)	LIVE CAP. AT FRL (BCM)	Jun-12			Jul-12			Aug-12		
				Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg	Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg	Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg
1	2	3	4	5	6	7	8	9	10	11	12	13
*1	SRISAILAM	(A.P)	8.288	243.68	1.137	73	242.18	0.986	32	255.68	2.853	44
*2	NAGARJUNA SAGAR	(A.P)	6.841	155.81	1.176	63	155.81	1.179	53	155.33	1.086	27
3	SRIRAMSAGAR	(A.P)	2.300	320.77	0.213	292	322.09	0.298	55	324	0.49	45
4	SOMASILA	(A.P)	1.994	92	0.678	158	91.44	0.618	172	90.46	0.53	108
5	LOWER MANAIR	(A.P)	0.621	270.27	0.138	113	270.33	0.14	114	270.36	0.141	57
6	TENUGHAT	(JHAR)	0.821	258.88	0.2	80	259.61	0.228	75	259.23	0.213	65
7	MAITHON	(JHAR)	0.471	138.16	0.099	61	140.76	0.184	75	144.63	0.349	89
*8	PANCHET HILL	(JHAR)	0.184	120.4	0.02	30	125.48	0.211	205	125.03	0.187	112
9	KONAR	(JHAR)	0.176	416.11	0.039	78	418.98	0.07	82	423.35	0.133	109
10	TILAIYA	(JHAR)	0.142	365.56	0.042	175	366.57	0.068	128	368.11	0.118	137
*11	UKAI	(GUJ)	6.615	91.67	1.383	113	97.08	2.852	113	102.3	5.134	113
12	SABARMATI(DHAROI)	(GUJ)	0.735	181.53	0.151	159	183.34	0.239	133	183.73	0.261	75
*13	KADANA	(GUJ)	1.472	121.64	0.645	126	122.4	0.705	108	126.87	1.106	136
14	SHETRUNJI	(GUJ)	0.300	47.47	0.017	23	47.31	0.016	9	47.07	0.013	6
15	BHADAR	(GUJ)	0.188	99.88	0.008	18	99.3	0.005	5	98.69	0.003	2
16	DAMANAGANGA	(GUJ)	0.502	65.35	0.041	42	74.9	0.273	160	75.95	0.311	95
17	DANTIWADA	(GUJ)	0.399	162.47	0.001	33	171.5	0.066	189	172.93	0.088	81
18	PANAM	(GUJ)	0.697	123.7	0.454	247	123.9	0.466	162	127.19	0.682	153
*19	SARDAR SAROVAR	(GUJ)	1.566	113.44	0.301	156	117.63	0.88	159	121.81	1.546	180
20	KARJAN	(GUJ)	0.523	96.03	0.117	51	97.23	0.132	43	103.23	0.226	54
*21	GOBIND SAGAR(BHAKRA)	(H.P)	6.229	467.78	1.021	56	479.79	1.834	56	497.53	3.827	78
*22	PONG DAM	(H.P)	6.157	393.9	0.745	67	396.61	1.027	47	417.36	4.467	109
23	KRISHNARAJA SAGAR	(KAR)	1.163	737.46	0.015	6	737.81	0.028	4	745.66	0.463	49
*24	TUNGABHADRA	(KAR)	3.276	481.61	0.12	28	490.21	0.909	44	497.44	2.75	98
25	GHATAPRABHA	(KAR)	1.391	630.75	0.021	9	646.14	0.43	45	657.89	1.035	80
26	BHADRA	(KAR)	1.785	641.78	0.403	79	646.18	0.689	62	652.39	1.212	80
27	LINGANAMAKKI	(KAR)	4.294	532.38	0.441	55	539.28	1.096	49	549.27	2.867	87
28	NARAYANPUR	(KAR)	0.863	485.68	0.207	46	487.37	0.337	53	491.97	0.828	109
29	MALAPRABHA(RENUKA)	(KAR)	0.972	619.26	0	0	622.54	0.089	22	626.93	0.307	47
30	KABINI	(KAR)	0.444	688.36	0	0	693.57	0.134	55	694.87	0.201	87

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Table 4: Storage position of Important Reservoirs of India at the end of each Month During June 2012 to May 2013

S.NO	NAME OF RESERVOIR	(STATE)	LIVE CAP. AT FRL (BCM)	Jun-12			Jul-12			Aug-12		
				Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg	Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg	Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg
1	2	3	4	5	6	7	8	9	10	11	12	13
31	HEMAVATHY	(KAR)	0.927	875.49	0.073	42	882.89	0.38	62	887.58	0.675	91
32	HARANGI	(KAR)	0.220	857.27	0.036	49	869.75	0.168	85	871.08	0.209	97
33	SUPA	(KAR)	4.120	515.42	0.421	56	528.25	0.994	64	544.25	2.085	84
34	VANIVILAS SAGAR	(KAR)	0.802	639.84	0.191	144	640.69	0.187	144	640.55	0.182	144
*35	ALMATTI	(KAR)	3.105	505.98	-0.062	-9	515.19	1.375	58	519.5	2.998	103
*36	GERUSOPPA	(KAR)	0.130	46.33	0.084	77	51	0.107	95	51.52	0.11	97
37	KALLADA(PARAPPAR)	(KRL)	0.507	93.9	0.116	71	93.2	0.111	41	93.6	0.113	33
*38	IDAMALAYAR	(KRL)	1.018	128.69	0.129	62	132.24	0.179	38	142.16	0.351	51
*39	IDUKKI	(KRL)	1.460	701.63	0.168	58	704.4	0.251	43	707.89	0.359	44
*40	KAKKI	(KRL)	0.447	928.04	0.027	23	944.13	0.081	37	956.65	0.155	53
*41	PERIYAR	(KRL)	0.173	859.58	0.033	51	860.43	0.046	49	861.43	0.063	79
*42	GANDHI SAGAR	(M.P.)	6.827	386.9	1.054	367	387.78	1.278	225	394.73	3.783	176
43	TAWA	(M.P.)	1.944	342.47	0.431	85	353.14	1.625	140	355.21	2.013	110
*44	BARGI	(M.P.)	3.180	406.2	0.288	97	416.85	1.71	143	422.25	3.068	129
*45	BANSAGAR	(M.P.)	5.166	335.43	2.636	1380	336.62	3.067	505	341.46	5.185	333
*46	INDIRA SAGAR	(M.P.)	9.745	243.97	0.164	134	254.83	1.792	124	260.91	8.758	231
47	BARNA	(M.P.)	0.456	340.73	0.067	87	344.3	0.197	110	348.46	0.449	161
*48	MINIMATA BANGOI	(CHH.)	3.046	350.91	1.564	141	354.8	2.102	140	357.85	2.588	123
49	MAHANADI	(CHH.)	0.767	344.38	0.406	123	344.79	0.437	93	348.79	0.776	126
50	JAYAKWADI(PAITHON)	(MAH)	2.171	455.56	0.006	2	455.54	0.002	0	455.39	-0.014	-1
*51	KOYANA	(MAH)	2.652	631.5	0.636	71	643.89	1.402	71	657.61	2.616	101
52	BHIMA(UJJANI)	(MAH)	1.517	487.86	-0.542	-502	488.04	-0.515	-87	490.17	-0.163	-15
53	ISAPUR	(MAH)	0.965	431.6	0.253	112	433.38	0.348	105	433.98	0.384	69
54	MULA	(MAH)	0.609	533.77	-0.003	-6	539.71	0.12	45	546.52	0.34	75
55	YELDARI	(MAH)	0.809	447.67	-0.001	-1	448.03	0.008	6	448.1	0.01	3
56	GIRNA	(MAH)	0.524	382.63	0.013	24	382.32	0.008	6	383.55	0.031	11
57	KHADAKVASLA	(MAH)	0.056	579.33	0.018	106	579.97	0.025	76	579.94	0.025	60
*58	UPPER VAITARNA	(MAH.)	0.331	594.38	0.078	73	597.32	0.148	70	600.79	0.242	80
59	UPPER TAPI	(MAH.)	0.255	210.93	0.099	236	211.35	0.118	166	212.44	0.169	100
*60	PENCH (TOTALADOH)	(MAH.)	1.091	473.13	0.188	176	475.8	0.274	77	488.2	0.917	136

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Table 4: Storage position of Important Reservoirs of India at the end of each Month During June 2012 to May 2013

S.NO	NAME OF RESERVOIR	(STATE)	LIVE CAP. AT FRL (BCM)	Jun-12			Jul-12			Aug-12		
				Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg	Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg	Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg
1	2	3	4	5	6	7	8	9	10	11	12	13
61	UPPER WARDHA	(MAH.)	0.564	336.51	0.155	87	336.81	0.17	62	341.46	0.474	112
*62	HIRAKUD	(ODI)	5.378	182.03	0.597	115	184.82	1.555	96	188.95	3.807	94
*63	BALIMELA	(ODI)	2.676	438.33	0	0	440.31	0.097	31	450.07	0.955	108
64	SALANADI	(ODI)	0.558	69.45	0.198	138	62.86	0.084	53	66.06	0.133	50
*65	RENGALI	(ODI)	3.432	110.84	0.16	46	109.93	0.034	4	120.86	2.595	118
*66	MACHKUND(JALPUT)	(ODI)	0.893	827.1	0.219	86	827.2	0.223	69	834.12	0.573	107
*67	UPPER KOLAB	(ODI)	0.935	845.4	0.032	25	846.91	0.8	343	853.95	0.572	138
*68	UPPER INDRAVATI	(ODI)	1.456	627.44	0.163	89	630.1	0.343	84	640.32	1.269	141
*69	THEIN	(PUN)	2.344	499.57	0.605	65	499.27	0.594	58	511.36	1.131	86
*70	MAHI BAJAJ SAGAR	(RAJ)	1.711	269.9	0.59	281	272.3	0.796	130	281.5	1.834	158
71	JHAKAM	(RAJ)	0.132	345.4	0.032	213	345.5	0.032	89	359.95	0.132	163
*72	RANA PRATAP SAGAR	(RAJ)	1.436	349.68	0.857	182	349.99	0.911	172	352	1.289	152
73	LOWER BHAWANI	(TN)	0.792	261.33	0.081	23	258.47	0.042	9	259.23	0.051	10
*74	METTUR(STANLEY)	(TN)	2.647	227.93	1.127	116	226.91	1.038	84	227.56	1.093	68
75	VAIGAI	(TN)	0.172	270.86	0.036	129	268.96	0.021	57	268.12	0.017	28
76	PARAMBIKULAM	(TN)	0.380	547.46	0.205	171	547.37	0.204	90	546.9	0.195	68
77	ALIYAR	(TN)	0.095	310.58	0.039	126	307.6	0.025	46	306.14	0.018	25
*78	SHOLAYAR	(TN)	0.143	981.37	0.054	120	988.73	0.08	78	992.89	0.096	81
79	GUMTI	(TRP)	0.312	87.95	0.09	82	88.25	0.099	63	88.8	0.117	65
80	MATATILA	(UP)	0.707	301.2	0.143	59	305.17	0.389	128	308.24	0.686	126
*81	RIHAND	(UP)	5.649	254.36	0.374	118	256.4	0.962	115	262.16	3.09	144
*82	RAMGANGA	(UTT)	2.196	329.61	0.333	162	333.65	0.469	103	345.58	0.954	105
*83	TEHRI	(UTT)	2.615	743.55	0.056	28	782.15	0.955	113	820.3	2.218	131
84	MAYURAKSHI	(WB)	0.480	112.14	0.097	84	114.16	0.153	67	114.04	0.163	62
85	KANGSABATI	(WB)	0.914	122.9	0.049	35	125.7	0.167	54	130.09	0.449	102

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S.NO	NAME OF RESERVOIR	(STATE)	LIVE CAP. AT FRL (BCM)	Sep-12			Oct-12			Nov-12		
				Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg	Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg	Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg
1	2	3	4	5	6	7	8	9	10	11	12	13
*1	SRISAILAM	(A.P)	8.288	263	4.973	73	263.73	4.76	73	263.15	5.03	84
*2	NAGARJUNA SAGAR	(A.P)	6.841	161.06	2.205	47	161.88	2.374	50	161.33	2.25	58
3	SRIRAMSAGAR	(A.P)	2.300	327.96	1.195	79	329.28	1.508	110	329.03	1.446	135
4	SOMASILA	(A.P)	1.994	91.16	0.594	80	91.69	0.645	62	91.89	0.666	57
5	LOWER MANAIR	(A.P)	0.621	270.45	0.144	41	271.32	0.171	45	271.15	0.166	41
6	TENUGHAT	(JHAR)	0.821	259.98	0.243	72	260.91	0.281	82	260.83	0.278	83
7	MAITHON	(JHAR)	0.471	147.31	0.501	109	145.42	0.391	86	144.23	0.33	73
*8	PANCHET HILL	(JHAR)	0.184	126.48	0.272	155	125.02	0.186	108	127.07	0.311	177
9	KONAR	(JHAR)	0.176	424.57	0.154	103	424.91	0.16	108	424.91	0.16	121
10	TILAIYA	(JHAR)	0.142	368.53	0.131	120	368.57	0.132	116	368.6	0.133	136
*11	UKAI	(GUJ)	6.615	104.18	6.162	109	103.37	5.699	108	102.26	5.113	105
12	SABARMATI(DHAROI)	(GUJ)	0.735	189.15	0.7	163	188.97	0.681	164	188.08	0.595	164
*13	KADANA	(GUJ)	1.472	127.71	1.192	116	126.54	1.073	112	126.26	1.045	112
14	SHETRUNJI	(GUJ)	0.300	49.77	0.047	20	49.62	0.045	19	49.37	0.041	19
15	BHADAR	(GUJ)	0.188	99.94	0.009	6	99.42	0.006	4	98.75	0.003	2
16	DAMANAGANGA	(GUJ)	0.502	78.45	0.413	88	80	0.483	99	79.1	0.442	95
17	DANTIWADA	(GUJ)	0.399	178.22	0.207	136	177.88	0.198	139	175.59	0.141	126
18	PANAM	(GUJ)	0.697	127.41	0.699	136	127.15	0.679	138	126.8	0.652	139
*19	SARDAR SAROVAR	(GUJ)	1.566	121.62	1.511	181	121.41	1.474	198	121.4	1.472	198
20	KARJAN	(GUJ)	0.523	113.8	0.485	94	113.9	0.488	95	112.6	0.444	90
*21	GOBIND SAGAR(BHAKRA)	(H.P)	6.229	505.19	4.893	93	504.12	4.739	95	500.44	4.211	95
*22	PONG DAM	(H.P)	6.157	422.58	5.656	121	420	5.018	120	415.58	4.04	114
23	KRISHNARAJA SAGAR	(KAR)	1.163	747.84	0.647	72	747	0.57	60	744.94	0.409	49
*24	TUNGABHADRA	(KAR)	3.276	497.33	2.712	99	495.36	2.084	81	494.64	1.877	90
25	GHATAPRABHA	(KAR)	1.391	660.99	1.247	96	660.12	1.145	93	656.9	0.972	99
26	BHADRA	(KAR)	1.785	653.71	1.344	88	651.63	1.183	80	651.17	1.047	74
27	LINGANAMAKKI	(KAR)	4.294	551.37	3.401	95	550.85	3.265	94	550.12	3.072	96
28	NARAYANPUR	(KAR)	0.863	491.96	0.827	109	491.79	0.806	106	491.71	0.794	101
29	MALAPRABHA(RENUKA)	(KAR)	0.972	627.81	0.37	52	628.24	0.402	57	628.14	0.395	68
30	KABINI	(KAR)	0.444	692.9	0.1	52	690	0	0	689.29	0	0

Contd..

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				Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg	Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg	Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg
1	2	3	4	5	6	7	8	9	10	11	12	13
31	HEMAVATHY	(KAR)	0.927	887.57	0.675	96	883	0.406	64	880.24	0.242	49
32	HARANGI	(KAR)	0.220	869.03	0.154	80	866	0.1	71	860.39	0.062	82
33	SUPA	(KAR)	4.120	548.55	2.456	89	548.5	2.451	92	547.72	2.381	96
34	VANIVILAS SAGAR	(KAR)	0.802	640.43	0.178	124	640.26	0.173	102	640.14	0.17	89
*35	ALMATTI	(KAR)	3.105	519.39	2.944	98	519.06	2.726	94	517.14	1.943	81
*36	GERUSOPPA	(KAR)	0.130	50.56	0.105	94	50.74	0.106	90	52.38	0.115	99
37	KALLADA(PARAPPAR)	(KRL)	0.507	94.22	0.119	30	98	0.163	37	99.75	0.189	42
*38	IDAMALAYAR	(KRL)	1.018	148.76	0.488	63	149.74	0.509	64	150.2	0.52	68
*39	IDUKKI	(KRL)	1.460	710.79	0.461	49	711.54	0.487	49	711.26	0.478	47
*40	KAKKI	(KRL)	0.447	962.72	0.206	62	967.35	0.249	70	968.86	0.266	72
*41	PERIYAR	(KRL)	0.173	861.59	0.065	87	863	0.09	92	861.34	0.061	49
*42	GANDHI SAGAR	(M.P.)	6.827	398.48	6.05	227	398.38	5.989	236	398.19	5.592	266
43	TAWA	(M.P.)	1.944	355.43	2.055	109	354.97	1.966	105	352.96	1.597	100
*44	BARGI	(M.P.)	3.180	422.76	3.18	109	422	3.01	109	421	2.73	115
*45	BANSAGAR	(M.P.)	5.166	341.63	5.415	282	340.58	4.694	289	339.65	4.276	299
*46	INDIRA SAGAR	(M.P.)	9.745	261.77	9.498	189	260.58	8.377	183	257.09	5.855	154
47	BARNA	(M.P.)	0.456	348.26	0.434	110	347.17	0.365	98	346.5	0.322	119
*48	MINIMATA BANGOI	(CHH.)	3.046	358.25	2.651	117	356.01	2.287	109	356.07	2.296	122
49	MAHANADI	(CHH.)	0.767	348.26	0.726	112	346.49	0.572	107	347.22	0.63	114
50	JAYAKWADI(PAITHON)	(MAH)	2.171	455.74	0.033	2	456.09	0.091	6	455.87	0.06	5
*51	KOYANA	(MAH)	2.652	658.72	2.75	105	658.44	2.716	109	656.9	2.532	109
52	BHIMA(UJJANI)	(MAH)	1.517	491.63	0.122	10	492.04	0.209	16	491.5	0.094	8
53	ISAPUR	(MAH)	0.965	435.86	0.509	84	436.9	0.586	95	436.55	0.559	96
54	MULA	(MAH)	0.609	546.06	0.323	62	547.19	0.367	70	545.9	0.316	65
55	YELDARI	(MAH)	0.809	449.58	0.051	11	450.26	0.07	15	450.2	0.069	16
56	GIRNA	(MAH)	0.524	386.09	0.088	26	385.88	0.083	24	385.05	0.063	20
57	KHADAKVASLA	(MAH)	0.056	580.16	0.027	63	580.19	0.027	93	580.46	0.031	103
*58	UPPER VAITARNA	(MAH.)	0.331	602.22	0.29	91	602.5	0.299	94	602.16	0.288	92
59	UPPER TAPI	(MAH.)	0.255	213.51	0.226	98	214	0.255	100	213.74	0.239	97
*60	PENCH (TOTALADOH)	(MAH.)	1.091	489.92	1.04	124	488.19	0.911	124	486.28	0.788	127

Contd..

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S.NO	NAME OF RESERVOIR	(STATE)	LIVE CAP. AT FRL (BCM)	Sep-12			Oct-12			Nov-12		
				Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg	Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg	Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg
1	2	3	4	5	6	7	8	9	10	11	12	13
61	UPPER WARDHA	(MAH.)	0.564	342.5	0.564	112	342.36	0.551	110	341.75	0.498	106
*62	HIRAKUD	(ODI)	5.378	192.01	5.378	105	192	5.37	109	191.92	5.31	114
*63	BALIMELA	(ODI)	2.676	455.49	1.626	123	458	1.967	133	459.97	2.277	154
64	SALANADI	(ODI)	0.558	67.89	0.164	46	62.4	0.08	26	57.94	0.039	14
*65	RENGALI	(ODI)	3.432	123.64	3.483	119	122.94	3.262	114	123.18	3.338	141
*66	MACHKUND(JALPUT)	(ODI)	0.893	837.44	0.822	120	838	0.874	123	837.53	0.831	125
*67	UPPER KOLAB	(ODI)	0.935	856.45	0.788	141	856.56	0.799	138	856.9	0.831	151
*68	UPPER INDRAVATI	(ODI)	1.456	640.4	1.278	115	639.61	1.195	111	639.79	1.213	123
*69	THEIN	(PUN)	2.344	521.12	1.81	132	520.92	1.799	144	520.52	1.762	159
*70	MAHI BAJAJ SAGAR	(RAJ)	1.711	281.45	1.834	136	281.35	1.808	134	280.2	1.65	139
71	JHAKAM	(RAJ)	0.132	359.75	0.132	140	359.55	0.132	140	358.2	0.119	159
*72	RANA PRATAP SAGAR	(RAJ)	1.436	352.77	1.436	160	352.02	1.287	146	349.95	0.897	127
73	LOWER BHAWANI	(TN)	0.792	259.22	0.051	11	265.45	0.168	33	265.47	0.17	28
*74	METTUR(STANLEY)	(TN)	2.647	226.95	1.041	70	224.22	0.822	57	219.08	0.483	29
75	VAIGAI	(TN)	0.172	267.54	0.014	25	274	0.074	75	273.34	0.063	49
76	PARAMBIKULAM	(TN)	0.380	545.82	0.176	59	546	0.179	58	543.08	0.129	42
77	ALIYAR	(TN)	0.095	308.9	0.031	45	313	0.05	70	313.84	0.057	78
*78	SHOLAYAR	(TN)	0.143	1,002.91	0.144	120	997.81	0.117	104	990.13	0.085	78
79	GUMTI	(TRP)	0.312	88.45	0.105	53	89.05	0.125	65	88	0.091	57
80	MATATILA	(UP)	0.707	308.46	0.706	106	306.66	0.522	86	304.86	0.362	74
*81	RIHAND	(UP)	5.649	264.14	3.893	136	263.41	3.591	133	262.74	3.314	137
*82	RAMGANGA	(UTT)	2.196	352.56	1.319	102	353.8	1.388	101	353.74	1.384	100
*83	TEHRI	(UTT)	2.615	823.7	2.357	118	824.55	2.392	123	821.05	2.247	121
84	MAYURAKSHI	(WB)	0.480	115.32	0.192	58	112.17	0.098	37	113.05	0.12	46
85	KANGSABATI	(WB)	0.914	131.92	0.607	112	127.96	0.288	65	127.77	0.279	62

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Table 4 Storage position of Important Reservoirs of India at the end of each Month During June 2012 to May 2013

S.NO	NAME OF RESERVOIR	(STATE)	LIVE CAP. AT FRL (BCM)	Dec-12			Jan-13			Feb-13		
				Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg	Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg	Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg
1	2	3	4	5	6	7	8	9	10	11	12	13
*1	SRISAILAM	(A.P)	8.288	263.29	5.083	95	262.31	3.057	66	261.18	2.752	77
*2	NAGARJUNA SAGAR	(A.P)	6.841	158.13	1.619	52	155.88	0.068	3	155.69	0.044	2
3	SRIRAMSAGAR	(A.P)	2.300	328.57	1.337	154	326.9	0.968	179	325.16	0.659	194
4	SOMASILA	(A.P)	1.994	90.94	0.573	52	88.8	0.391	40	86.46	0.224	26
5	LOWER MANAIR	(A.P)	0.621	270.98	0.16	39	273.89	0.272	79	274.75	0.312	115
6	TENUGHAT	(JHAR)	0.821	260.73	0.273	84	260.5	0.476	154	260.09	0.459	158
7	MAITHON	(JHAR)	0.471	144.19	0.328	75	144.7	0.448	109	143.45	0.388	105
*8	PANCHET HILL	(JHAR)	0.184	127.01	0.307	174	126.31	0.38	220	125.68	0.342	257
9	KONAR	(JHAR)	0.176	424.39	0.151	128	423.72	0.173	168	423.09	0.163	179
10	TILAIYA	(JHAR)	0.142	367.9	0.112	172	366.14	0.131	291	365.97	0.127	397
*11	UKAI	(GUJ)	6.615	101.17	4.576	103	100.57	4.291	109	99.18	3.679	107
12	SABARMATI(DHAROI)	(GUJ)	0.735	187.02	0.499	165	185.86	0.406	162	184.61	0.315	158
*13	KADANA	(GUJ)	1.472	126.09	1.027	113	126.06	1.025	119	126.44	1.063	132
14	SHETRUNJI	(GUJ)	0.300	49.12	0.037	19	48.77	0.031	20	48.42	0.027	22
15	BHADAR	(GUJ)	0.188	97.98	0	0	97.18	0	0	97.18	0	0
16	DAMANAGANGA	(GUJ)	0.502	77.9	0.389	91	76.3	0.325	87	75	0.276	82
17	DANTIWADA	(GUJ)	0.399	172.23	0.077	95	167.27	0.024	43	162.84	0.002	5
18	PANAM	(GUJ)	0.697	126.25	0.612	141	125.5	0.563	145	124.9	0.524	144
*19	SARDAR SAROVAR	(GUJ)	1.566	120.87	1.376	182	118.28	0.972	131	116.89	0.774	114
20	KARJAN	(GUJ)	0.523	111.51	0.411	88	109.75	0.365	84	108.51	0.336	84
*21	GOBIND SAGAR(BHAKRA)	(H.P)	6.229	495.14	3.518	97	488.64	2.754	106	485.58	2.434	124
*22	PONG DAM	(H.P)	6.157	410.93	3.192	109	406.86	2.466	97	403.83	1.982	90
23	KRISHNARAJA SAGAR	(KAR)	1.163	740.25	0.13	18	739.29	0.087	14	737.52	0.017	4
*24	TUNGABHADRA	(KAR)	3.276	492.48	1.344	85	490.24	0.914	92	488.32	0.633	105
25	GHATAPRABHA	(KAR)	1.391	653.14	0.755	113	647.63	0.491	120	643.76	0.339	143
26	BHADRA	(KAR)	1.785	651.17	1.097	77	650.11	1.001	79	646.71	0.727	71
27	LINGANAMAKKI	(KAR)	4.294	548.63	2.712	96	546.61	2.276	95	544.36	1.847	93
28	NARAYANPUR	(KAR)	0.863	491.54	0.772	98	490.77	0.763	101	488.12	0.604	94
29	MALAPRABHA(RENUKA)	(KAR)	0.972	625.11	0.198	51	623.15	0.112	49	622.89	0.103	80
30	KABINI	(KAR)	0.444	687.81	0	0	686.96	0	0	685.76	0	0

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Table 4 Storage position of Important Reservoirs of India at the end of each Month During June 2012 to May 2013

S.NO	NAME OF RESERVOIR	(STATE)	LIVE CAP. AT FRL (BCM)	Dec-12			Jan-13			Feb-13		
				Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg	Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg	Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg
1	2	3	4	5	6	7	8	9	10	11	12	13
31	HEMAVATHY	(KAR)	0.927	876.21	0.094	32	875.37	0.07	28	874.01	0.037	17
32	HARANGI	(KAR)	0.220	848.85	0	0	850.58	0.002	6	851.66	0.006	16
33	SUPA	(KAR)	4.120	545.82	2.215	101	542.8	1.97	103	539.86	1.751	109
34	VANIVILAS SAGAR	(KAR)	0.802	640	0.166	88	638.16	0.121	68	637.96	0.117	76
*35	ALMATTI	(KAR)	3.105	514.49	1.195	66	510.87	0.974	78	508.59	0.67	91
*36	GERUSOPPA	(KAR)	0.130	52.72	0.117	106	50.16	0.103	95	50.03	0.102	93
37	KALLADA(PARAPPAR)	(KRL)	0.507	99.98	0.193	45	99.4	0.185	48	95.5	0.133	42
*38	IDAMALAYAR	(KRL)	1.018	147.96	0.47	70	145.84	0.425	73	143.34	0.374	80
*39	IDUKKI	(KRL)	1.460	709.88	0.429	46	708.56	0.384	48	707.46	0.344	52
*40	KAKKI	(KRL)	0.447	966.58	0.24	71	964.9	0.225	75	963.12	0.209	79
*41	PERIYAR	(KRL)	0.173	860.61	0.049	52	860.03	0.04	67	859.89	0.038	90
*42	GANDHI SAGAR	(M.P.)	6.827	397.21	5.25	334	396.14	4.471	378	395.2	4.239	483
43	TAWA	(M.P.)	1.944	350.4	1.208	97	347.05	0.822	96	345.4	0.576	104
*44	BARGI	(M.P.)	3.180	419.8	2.394	127	418	1.95	127	417.2	1.782	147
*45	BANSAGAR	(M.P.)	5.166	338.57	3.791	300	337.46	3.368	324	336.89	3.163	358
*46	INDIRA SAGAR	(M.P.)	9.745	257.09	5.855	192	255.73	4.811	215	255.03	4.387	243
47	BARNA	(M.P.)	0.456	345.24	0.248	115	343.51	0.16	99	342.02	0.106	102
*48	MINIMATA BANGOI	(CHH.)	3.046	355.96	2.279	125	355.2	2.163	127	354.45	2.051	129
49	MAHANADI	(CHH.)	0.767	347.34	0.639	113	345.68	0.508	96	344.24	0.397	79
50	JAYAKWADI(PAITHON)	(MAH)	2.171	456.57	0.17	14	456.27	0.12	12	454.95	0.068	8
*51	KOYANA	(MAH)	2.652	654.2	2.251	106	652.2	2.085	109	649.63	1.728	102
52	BHIMA(UJJANI)	(MAH)	1.517	491.11	0.016	1	489.97	0	0	489.67	-0.252	-34
53	ISAPUR	(MAH)	0.965	435.5	0.484	94	434.77	0.432	95	433.66	0.376	98
54	MULA	(MAH)	0.609	541.8	0.178	43	540.53	0.141	41	540.15	0.131	47
55	YELDARI	(MAH)	0.809	448.85	0.031	8	448.56	0.023	8	448.42	0.019	8
56	GIRNA	(MAH)	0.524	384.57	0.053	20	383.41	0.028	13	382.8	0.016	9
57	KHADAKVASLA	(MAH)	0.056	580.13	0.027	113	580.61	0.032	178	580.34	0.029	182
*58	UPPER VAITARNA	(MAH.)	0.331	601.87	0.279	94	601.61	0.27	104	600.58	0.236	109
59	UPPER TAPI	(MAH.)	0.255	213.21	0.21	95	212.73	0.181	96	212.24	0.159	101
*60	PENCH (TOTALADOH)	(MAH.)	1.091	485.17	0.72	130	484.31	0.668	147	482.22	0.553	164

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Table 4 Storage position of Important Reservoirs of India at the end of each Month During June 2012 to May 2013

S.NO	NAME OF RESERVOIR	(STATE)	LIVE CAP. AT FRL (BCM)	Dec-12			Jan-13			Feb-13		
				Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg	Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg	Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg
1	2	3	4	5	6	7	8	9	10	11	12	13
61	UPPER WARDHA	(MAH.)	0.564	340.57	0.404	101	339.48	0.326	96	338.5	0.233	83
*62	HIRAKUD	(ODI)	5.378	191.62	5.148	118	190.54	0.757	20	189.46	3.28	98
*63	BALIMELA	(ODI)	2.676	459.91	2.267	164	459.36	2.174	186	457.99	1.966	203
64	SALANADI	(ODI)	0.558	57.56	0.035	13	56.94	0.029	13	55.18	0.019	10
*65	RENGALI	(ODI)	3.432	122.89	3.25	141	122.41	3.069	160	121.73	2.85	169
*66	MACHKUND(JALPUT)	(ODI)	0.893	836.81	0.768	120	835.95	0.706	123	834.6	0.605	121
*67	UPPER KOLAB	(ODI)	0.935	856.75	0.817	157	856.59	0.804	174	855.53	0.701	174
*68	UPPER INDRAVATI	(ODI)	1.456	639.68	1.202	131	638.69	1.106	137	637.38	0.978	142
*69	THEIN	(PUN)	2.344	517.31	1.557	176	511.72	1.216	197	509.04	1.063	192
*70	MAHI BAJAJ SAGAR	(RAJ)	1.711	278.15	1.371	144	275.75	1.123	149	273.75	0.924	162
71	JHAKAM	(RAJ)	0.132	355.75	0.097	170	353.8	0.082	216	350.25	0.056	242
*72	RANA PRATAP SAGAR	(RAJ)	1.436	348.59	0.672	94	347.84	0.558	93	346.67	0.392	69
73	LOWER BHAWANI	(TN)	0.792	261.4	0.082	15	260.87	0.078	17	258.71	0.045	12
*74	METTUR(STANLEY)	(TN)	2.647	214.27	0.248	16	214.78	0.269	23	214.25	0.247	22
75	VAIGAI	(TN)	0.172	273.12	0.06	61	272.68	0.055	86	272.08	0.048	98
76	PARAMBIKULAM	(TN)	0.380	540.01	0.079	27	538.86	0.061	25	537.9	0.047	23
77	ALIYAR	(TN)	0.095	309.51	0.033	54	302.9	0.006	14	299.94	-0.002	-6
*78	SHOLAYAR	(TN)	0.143	981.12	0.053	76	968.88	0.021	91	956.51	0.003	26
79	GUMTI	(TRP)	0.312	86.3	0.044	33	84.6	0.013	12	83.6	0	0
80	MATATILA	(UP)	0.707	302.36	0.202	53	302.36	0.124	35	303.4	0.186	64
*81	RIHAND	(UP)	5.649	261.7	2.912	139	260.06	2.263	126	259.3	1.971	131
*82	RAMGANGA	(UTT)	2.196	350.64	1.212	94	349.13	1.132	109	351.03	1.234	146
*83	TEHRI	(UTT)	2.615	811	1.865	112	796.55	1.376	101	789.55	2.615	263
84	MAYURAKSHI	(WB)	0.480	113.02	0.119	46	112.93	0.145	59	112.75	0.14	72
85	KANGSABATI	(WB)	0.914	127.77	0.279	76	127.77	0.417	151	127.76	0.416	206

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Table 4 Storage position of Important Reservoirs of India at the end of each Month During June 2012 to May 2013

S.NO	NAME OF RESERVOIR	(STATE)	LIVE CAP. AT FRL (BCM)	Mar-13			Apr-13			May-13		
				Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg	Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg	Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg
1	2	3	4	5	6	7	8	9	10	11	12	13
*1	SRISAILAM	(A.P)	8.288	257.98	2.058	88	253.2	1.423	99	248	1.034	86
*2	NAGARJUNA SAGAR	(A.P)	6.841	157.55	0.34	20	158.16	0.442	27	158.34	0.473	27
3	SRIRAMSAGAR	(A.P)	2.300	322.78	0.355	214	322.36	0.317	417	321.96	0.29	453
4	SOMASILA	(A.P)	1.994	83.9	0.076	10	83.13	0.039	6	82.96	0.031	6
5	LOWER MANAIR	(A.P)	0.621	272.57	0.216	114	269.25	0.111	80	269.02	0.105	82
6	TENUGHAT	(JHAR)	0.821	259.38	0.43	167	258.64	0.403	176	258.27	0.39	146
7	MAITHON	(JHAR)	0.471	141.09	0.291	97	139.12	0.223	127	138.24	0.197	159
*8	PANCHET HILL	(JHAR)	0.184	124.87	0.298	317	123.52	0.237	641	123.39	0.232	748
9	KONAR	(JHAR)	0.176	422.33	0.151	204	421.58	0.14	250	420.78	0.128	305
10	TILAIYA	(JHAR)	0.142	365.77	0.122	642	365.57	0.117	780	365.49	0.115	885
*11	UKAI	(GUJ)	6.615	97.8	3.126	109	96.26	2.554	117	93.98	1.852	121
12	SABARMATI(DHAROI)	(GUJ)	0.735	182.68	0.204	127	182.23	0.183	134	181.6	0.157	134
*13	KADANA	(GUJ)	1.472	126.7	1.088	144	126.6	1.078	154	125.88	1.007	162
14	SHETRUNJI	(GUJ)	0.300	47.92	0.022	29	47.47	0.017	62	46.77	0.01	78
15	BHADAR	(GUJ)	0.188	97.18	0	0	97.18	0	0	97.18	0	0
16	DAMANAGANGA	(GUJ)	0.502	72.75	0.203	70	69.6	0.119	52	65.95	0.049	46
17	DANTIWADA	(GUJ)	0.399	162.84	0.002	8	162.75	0.002	17	162.53	0.002	55
18	PANAM	(GUJ)	0.697	124.2	0.483	150	124.05	0.474	180	123.8	0.46	210
*19	SARDAR SAROVAR	(GUJ)	1.566	117.22	0.821	149	117.68	0.887	197	115.8	0.618	176
20	KARJAN	(GUJ)	0.523	106.48	0.29	81	103.82	0.237	76	100.6	0.181	73
*21	GOBIND SAGAR(BHAKRA)	(H.P)	6.229	479.69	1.876	129	479.53	1.863	153	478.87	1.808	149
*22	PONG DAM	(H.P)	6.157	399.81	1.409	75	400.34	1.483	83	399.56	1.374	103
23	KRISHNARAJA SAGAR	(KAR)	1.163	736.59	0	0	734.93	0	0	734.39	0	0
*24	TUNGABHADRA	(KAR)	3.276	483.64	0.216	106	481.06	0.098	108	479.36	0.049	41
25	GHATAPRABHA	(KAR)	1.391	640.84	0.241	162	639.42	0.197	203	632.39	0.045	116
26	BHADRA	(KAR)	1.785	643.79	0.525	67	639.83	0.301	56	635.33	0.112	33
27	LINGANAMAKKI	(KAR)	4.294	540.85	1.3	88	537.8	0.922	90	535.09	0.657	105
28	NARAYANPUR	(KAR)	0.863	487.48	0.447	92	487.23	0.428	131	486.97	0.408	129
29	MALAPRABHA(RENUKA)	(KAR)	0.972	621.81	0.066	85	620.92	0.039	61	620.59	0.03	60
30	KABINI	(KAR)	0.444	685.24	0	0	684.79	0	0	684.48	0	0

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Table 4 Storage position of Important Reservoirs of India at the end of each Month During June 2012 to May 2013

S.NO	NAME OF RESERVOIR	(STATE)	LIVE CAP. AT FRL (BCM)	Mar-13			Apr-13			May-13		
				Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg	Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg	Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg
1	2	3	4	5	6	7	8	9	10	11	12	13
31	HEMAVATHY	(KAR)	0.927	873.68	0.028	20	873.05	0.015	18	870.26	0	0
32	HARANGI	(KAR)	0.220	852.82	0.011	33	853	0.012	38	853.41	0.014	43
33	SUPA	(KAR)	4.120	534.38	1.369	109	529.1	1.042	108	526.41	0.893	122
34	VANIVILAS SAGAR	(KAR)	0.802	637.72	0.112	79	637.61	0.108	83	637.4	0.103	87
*35	ALMATTI	(KAR)	3.105	507.79	0.585	210	507.31	0.538	366	506.68	0.482	419
*36	GERUSOPPA	(KAR)	0.130	53.41	0.121	108	52.59	0.116	98	49.58	0.1	88
37	KALLADA(PARAPPAR)	(KRL)	0.507	94.3	0.12	53	89.15	0.073	45	80.86	0.031	26
*38	IDAMALAYAR	(KRL)	1.018	136.88	0.251	72	132.34	0.181	73	129.7	0.143	93
*39	IDUKKI	(KRL)	1.460	705.19	0.275	55	703.23	0.216	60	701.74	0.172	74
*40	KAKKI	(KRL)	0.447	956.09	0.151	74	945.51	0.088	58	934.14	0.044	45
*41	PERIYAR	(KRL)	0.173	860.04	0.04	93	859.86	0.037	73	859.8	0.036	68
*42	GANDHI SAGAR	(M.P.)	6.827	394.19	3.535	518	393.75	3.334	577	392.83	2.943	632
43	TAWA	(M.P.)	1.944	344.73	0.518	117	343.42	0.408	94	342.02	0.288	68
*44	BARGI	(M.P.)	3.180	415.5	1.445	156	413.1	1.071	177	410.4	0.723	212
*45	BANSAGAR	(M.P.)	5.166	336.13	2.888	395	335.28	2.584	439	334.16	2.255	508
*46	INDIRA SAGAR	(M.P.)	9.745	252.55	3.032	216	249.82	2.118	207	247.13	1.103	183
47	BARNA	(M.P.)	0.456	339.71	0.038	53	339.58	0.035	52	339.4	0.03	49
*48	MINIMATA BANGOI	(CHH.)	3.046	353.13	1.861	129	351.99	1.705	131	350.77	1.546	132
49	MAHANADI	(CHH.)	0.767	341.46	0.224	49	340.35	0.17	45	338.21	0.07	21
50	JAYAKWADI(PAITHON)	(MAH)	2.171	455.59	0.01	1	455.16	-0.051	-9	454.75	-0.107	-28
*51	KOYANA	(MAH)	2.652	644.86	1.336	93	640.94	1.02	94	634.9	0.66	86
52	BHIMA(UJJANI)	(MAH)	1.517	488.45	-0.452	-90	487.96	-0.527	-195	486.33	-0.749	-947
53	ISAPUR	(MAH)	0.965	432.8	0.327	100	431.03	0.237	92	429.26	0.156	77
54	MULA	(MAH)	0.609	539.5	0.114	53	536.89	0.055	37	535.6	0.029	56
55	YELDARI	(MAH)	0.809	448.27	0.015	8	448.12	0.01	10	444.8	-0.041	-65
56	GIRNA	(MAH)	0.524	382.42	0.01	7	380.35	-0.022	-20	379.94	-0.028	-36
57	KHADAKVASLA	(MAH)	0.056	579.94	0.025	204	580.43	0.03	274	580.1	0.026	292
*58	UPPER VAITARNA	(MAH.)	0.331	599.13	0.196	111	597.39	0.15	114	596.07	0.118	122
59	UPPER TAPI	(MAH.)	0.255	211.52	0.125	102	210.69	0.088	107	209.04	0.035	107
*60	PENCH (TOTALADOH)	(MAH.)	1.091	481.06	0.495	186	479.65	0.429	214	478.32	0.372	260

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Table 4 Storage position of Important Reservoirs of India at the end of each Month During June 2012 to May 2013

S.NO	NAME OF RESERVOIR	(STATE)	LIVE CAP. AT FRL (BCM)	Mar-13			Apr-13			May-13		
				Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg	Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg	Level (Meter)	Live Storage (BCM)	% w. r. t last 10 yr. avg
1	2	3	4	5	6	7	8	9	10	11	12	13
61	UPPER WARDHA	(MAH.)	0.564	337.3	0.165	71	336.99	0.149	71	336.56	0.127	69
*62	HIRAKUD	(ODI)	5.378	187.57	2.335	97	184.99	1.318	81	182.36	0.569	65
*63	BALIMELA	(ODI)	2.676	455.71	1.654	260	453.05	1.31	312	452.38	1.224	434
64	SALANADI	(ODI)	0.558	53.64	0.012	8	50.53	0.001	1	51.73	0.005	4
*65	RENGALI	(ODI)	3.432	119.95	2.294	176	116.09	1.224	133	111.86	0.352	99
*66	MACHKUND(JALPUT)	(ODI)	0.893	832.36	0.47	114	829.88	0.339	100	826.5	0.199	74
*67	UPPER KOLAB	(ODI)	0.935	854.36	0.604	196	853.01	0.502	228	849.99	0.276	199
*68	UPPER INDRAVATI	(ODI)	1.456	635	0.795	152	632.45	0.536	156	628.7	0.248	129
*69	THEIN	(PUN)	2.344	507.42	0.984	146	507.13	0.97	109	509.47	1.085	107
*70	MAHI BAJAJ SAGAR	(RAJ)	1.711	271.55	0.73	168	270.7	0.657	188	270.4	0.632	227
71	JHAKAM	(RAJ)	0.132	347.2	0.04	223	347	0.039	231	346.65	0.038	235
*72	RANA PRATAP SAGAR	(RAJ)	1.436	345.59	0.235	43	346.09	0.309	55	347.38	0.493	88
73	LOWER BHAWANI	(TN)	0.792	261.29	0.08	24	258.63	0.044	17	257.57	0.033	12
*74	METTUR(STANLEY)	(TN)	2.647	212.57	0.185	17	211.38	0.147	13	209.92	0.106	9
75	VAIGAI	(TN)	0.172	271.54	0.042	87	268.7	0.02	41	267.6	0.014	32
76	PARAMBIKULAM	(TN)	0.380	536.73	0.03	19	537.39	0.04	33	537.25	0.038	34
77	ALIYAR	(TN)	0.095	301.33	0.001	3	302.33	0.004	10	300.41	-0.001	-3
*78	SHOLAYAR	(TN)	0.143	960.74	0.008	130	964.04	0.013	212	959.59	0.006	53
79	GUMTI	(TRP)	0.312	83.6	0	0	83.6	0	0	88	0.091	190
80	MATATILA	(UP)	0.707	303.37	0.184	57	304.25	0.244	80	302.61	0.138	73
*81	RIHAND	(UP)	5.649	257.8	1.427	126	257.04	1.168	153	255.76	0.776	179
*82	RAMGANGA	(UTT)	2.196	347.2	1.034	166	345.74	0.962	196	342.67	0.823	261
*83	TEHRI	(UTT)	2.615	775.5	0.747	126	762.2	0.448	171	749.95	0.183	238
84	MAYURAKSHI	(WB)	0.480	112.43	0.132	99	112.08	0.124	188	111.8	0.117	183
85	KANGSABATI	(WB)	0.914	127.36	0.395	420	125.36	0.286	681	126.13	0.328	937

Source : WM Directorate, CWC

Table 5: Storage position of Important Reservoirs of India at the end of each Month During June 2013 to May 2014

S.NO	NAME OF RESERVOIR	(STATE)	LIVE CAP. AT FRL (BCM)	Jun-13			Jul-13			Aug-13		
				Level (Meter)	Live Storage (BCM)	% w.r.t. last 10 yr. avg.	Level (Meter)	Live Storage (BCM)	% w.r.t. last 10 yr. avg.	Level (Meter)	Live Storage (BCM)	%w.r.t. last 10 yr. avg.
1	2	3	4	5	6	7	8	9	10	11	12	13
*1	SRISAILAM	(A.P)	8.288	247.23	0.989	64	268.86	3.656	116	269.35	5.898	90
*2	NAGARJUNA SAGAR	(A.P)	6.841	158.44	0.489	26	160.99	0.934	42	179.77	5.091	124
3	SRIRAMSAGAR	(A.P)	2.300	322.05	0.296	406	331.93	2.402	427	332.54	2.557	242
4	SOMASILA	(A.P)	1.994	82.56	0.013	3	82.02	-0.01	-2	87.99	0.329	61
5	LOWER MANAIR	(A.P)	0.621	268.99	0.104	85	277.8	0.488	407	280.2	0.664	280
6	TENUGHAT	(JHAR)	0.821	258.94	0.414	167	259.57	0.4	134	259.99	0.416	130
7	MAITHON	(JHAR)	0.471	140.91	0.285	178	140.71	0.184	78	146.49	0.452	119
*8	PANCHET HILL	(JHAR)	0.184	124.3	0.271	399	125.14	0.193	160	125.25	0.199	119
9	KONAR	(JHAR)	0.176	419.04	0.105	214	419.59	0.077	90	426.7	0.139	109
10	TILAIYA	(JHAR)	0.142	365.38	0.112	400	364.78	0.025	48	365.91	0.05	60
*11	UKAI	(GUJ)	6.615	95.96	2.449	207	101.07	4.53	171	102.01	4.982	107
12	SABARMATI(DHAROI)	(GUJ)	0.735	181.32	0.143	135	183.61	0.254	126	185.46	0.375	102
*13	KADANA	(GUJ)	1.472	125.2	0.942	167	125.86	1.004	141	126.44	1.063	117
14	SHETRUNJI	(GUJ)	0.300	49.32	0.04	87	51.27	0.08	53	53.67	0.174	90
15	BHADAR	(GUJ)	0.188	102.14	0.03	102	103.12	0.044	49	105.05	0.087	69
16	DAMANAGANGA	(GUJ)	0.502	69.2	0.107	135	72.8	0.204	120	76.5	0.332	103
17	DANTIWADA	(GUJ)	0.399	164.24	0.007	233	165.86	0.014	35	170.35	0.051	44
18	PANAM	(GUJ)	0.697	123.75	0.457	203	125.45	0.559	171	127.1	0.614	121
*19	SARDAR SAROVAR	(GUJ)	1.566	114.85	0.482	235	124.44	2.022	316	123.51	1.854	183
20	KARJAN	(GUJ)	0.523	100.02	0.172	81	107.4	0.31	106	110.58	0.386	96
*21	GOBIND SAGAR(BHAKRA)	(H.P)	6.229	491.59	3.092	180	502.46	4.502	142	510.53	5.717	118
*22	PONG DAM	(H.P)	6.157	404.38	2.064	182	415.58	4.092	183	422.64	5.671	131
23	KRISHNARAJA SAGAR	(KAR)	1.163	742.17	0.23	102	752.31	1.139	162	752.29	1.136	121
*24	TUNGABHADRA	(KAR)	3.276	487.92	0.584	140	497.13	2.645	127	497.74	2.856	99
25	GHATAPRABHA	(KAR)	1.391	638.07	0.16	71	658.28	1.06	110	662.69	1.375	107
26	BHADRA	(KAR)	1.785	642.46	0.443	84	657.15	1.718	150	657.73	1.785	116
27	LINGANAMAKKI	(KAR)	4.294	538.61	1.017	128	553.27	3.938	175	554.43	4.297	129
28	NARAYANPUR	(KAR)	0.863	487.52	0.447	104	490.64	0.663	106	491.91	0.696	91
29	MALAPRABHA(RENUKA)	(KAR)	0.972	621.69	0.062	64	628.46	0.418	105	630.42	0.59	91
30	KABINI	(KAR)	0.444	694.7	0.192	206	695.32	0.226	97	694.82	0.198	87

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Table 5: Storage position of Important Reservoirs of India at the end of each Month During June 2013 to May 2014

S.NO	NAME OF RESERVOIR	(STATE)	LIVE CAP. AT FRL (BCM)	Jun-13			Jul-13			Aug-13		
				Level (Meter)	Live Storage (BCM)	% w.r.t. last 10 yr. avg.	Level (Meter)	Live Storage (BCM)	% w.r.t. last 10 yr. avg.	Level (Meter)	Live Storage (BCM)	%w.r.t. last 10 yr. avg.
1	2	3	4	5	6	7	8	9	10	11	12	13
31	HEMAVATHY	(KAR)	0.927	880.03	0.234	133	890.44	0.911	143	890.51	0.917	120
32	HARANGI	(KAR)	0.220	870.58	0.193	268	870.13	0.179	89	871.23	0.213	99
33	SUPA	(KAR)	4.120	528.11	0.985	131	553.23	2.909	184	560.43	3.692	146
34	VANIVILAS SAGAR	(KAR)	0.802	637.32	0.101	85	637.05	0.094	81	634.85	0.055	48
*35	ALMATTI	(KAR)	3.105	512.2	0.948	133	517.6	2.712	114	519.6	3.137	106
*36	GERUSOPPA	(KAR)	0.130	51.03	0.107	100	50.41	0.104	91	48.94	0.097	86
37	KALLADA(PARAPPAR)	(KRL)	0.507	101.25	0.207	127	115.21	0.471	175	115.69	0.484	147
*38	IDAMALAYAR	(KRL)	1.018	147.89	0.469	229	163.85	0.869	183	168.9	1.015	151
*39	IDUKKI	(KRL)	1.460	712.86	0.053	18	725.56	1.084	185	730.21	1.336	164
*40	KAKKI	(KRL)	0.447	960.77	0.189	164	976.01	0.358	160	980.26	0.425	144
*41	PERIYAR	(KRL)	0.173	863.64	0.102	157	865.65	0.143	151	864.37	0.117	144
*42	GANDHI SAGAR	(M.P.)	6.827	392.17	2.729	694	396.97	4.899	703	399.28	6.24	249
43	TAWA	(M.P.)	1.944	346.65	0.684	140	353.59	1.693	134	354.79	1.93	104
*44	BARGI	(M.P.)	3.180	409.25	0.589	195	417	1.74	129	421.25	2.8	112
*45	BANSAGAR	(M.P.)	5.166	333.91	2.184	480	337.2	3.276	358	341.45	5.172	255
*46	INDIRA SAGAR	(M.P.)	9.745	249.38	1.932	1521	258.01	6.41	435	261.29	9.052	211
47	BARNA	(M.P.)	0.456	340.9	0.071	93	347	0.354	197	348.55	0.456	148
*48	MINIMATA BANGOI	(CHH.)	3.046	351.62	1.656	140	354.05	1.992	121	358.81	2.746	122
49	MAHANADI	(CHH.)	0.767	339.77	0.142	43	344.62	0.424	90	348.4	0.739	117
50	JAYAKWADI(PAITHON)	(MAH)	2.171	454.56	-0.131	-42	456.06	0.085	14	458.32	0.499	46
*51	KOYANA	(MAH)	2.652	643.33	1.357	153	655.65	2.384	121	658.77	2.756	107
52	BHIMA(UJJANI)	(MAH)	1.517	488.69	-0.414	-384	491.45	0.085	14	496.93	1.55	145
53	ISAPUR	(MAH)	0.965	432.16	0.293	157	439.75	0.86	287	440.69	0.947	186
54	MULA	(MAH)	0.609	536.72	0.051	122	547.02	0.359	141	548.66	0.429	97
55	YELDARI	(MAH)	0.809	445.44	-0.032	-50	455	0.267	242	459.4	0.58	206
56	GIRNA	(MAH)	0.524	380.15	-0.025	-45	382.13	0.005	3	387.57	0.127	48
57	KHADAKVASLA	(MAH)	0.056	578.6	0.012	68	582.17	0.052	149	582.47	0.056	133
*58	UPPER VAITARNA	(MAH.)	0.331	596.34	0.125	125	601.22	0.258	124	602.94	0.313	106
59	UPPER TAPI	(MAH.)	0.255	208	0.008	16	208.9	0.031	41	210.97	0.101	61
*60	PENCH (TOTALADOH)	(MAH.)	1.091	479.2	0.409	347	488.35	0.927	241	489.4	1.002	143

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Table 5: Storage position of Important Reservoirs of India at the end of each Month During June 2013 to May 2014

S.NO	NAME OF RESERVOIR	(STATE)	LIVE CAP. AT FRL (BCM)	Jun-13			Jul-13			Aug-13		
				Level (Meter)	Live Storage (BCM)	% w.r.t. last 10 yr. avg.	Level (Meter)	Live Storage (BCM)	% w.r.t. last 10 yr. avg.	Level (Meter)	Live Storage (BCM)	%w.r.t. last 10 yr. avg.
1	2	3	4	5	6	7	8	9	10	11	12	13
61	UPPER WARDHA	(MAH.)	0.564	337.18	0.158	89	341.26	0.428	156	341.97	0.487	109
*62	HIRAKUD	(ODI)	5.378	181.2	0.289	55	185.82	1.633	95	189.4	3.245	84
*63	BALIMELA	(ODI)	2.676	450.71	1.026	513	455.8	1.666	508	460.03	2.285	209
64	SALANADI	(ODI)	0.558	59.05	0.049	35	65.15	0.117	75	71.55	0.242	91
*65	RENGALI	(ODI)	3.432	109.76	0.004	2	115.1	0.995	121	120.86	2.553	111
*66	MACHKUND(JALPUT)	(ODI)	0.893	825.83	0.175	70	831.65	0.429	125	836.04	0.797	141
*67	UPPER KOLAB	(ODI)	0.935	850.05	0.28	252	851.15	0.363	119	854.34	0.602	138
*68	UPPER INDRAVATI	(ODI)	1.456	632.81	0.565	299	634.9	0.738	172	640.09	1.243	127
*69	THEIN	(PUN)	2.344	513.04	1.296	134	511.78	1.212	114	523.98	2.037	148
*70	MAHI BAJAJ SAGAR	(RAJ)	1.711	270.7	0.656	244	278.4	1.817	263	281.45	1.825	139
71	JHAKAM	(RAJ)	0.132	347.3	0.041	239	359.05	0.132	348	359.85	0.132	144
*72	RANA PRATAP SAGAR	(RAJ)	1.436	689.27	348.69		351.98	1.28	214	352.35	1.352	144
73	LOWER BHAWANI	(TN)	0.792	266.83	0.21	59	271.24	0.372	79	273.77	0.494	96
*74	METTUR(STANLEY)	(TN)	2.647	215.38	0.295	28	236.83	2.101	162	238.57	2.33	142
75	VAIGAI	(TN)	0.172	269.38	0.024	81	273.02	0.059	156	274.58	0.081	139
76	PARAMBIKULAM	(TN)	0.380	538.95	0.063	47	556.23	0.379	159	556.1	0.376	129
77	ALIYAR	(TN)	0.095	305.71	0.017	49	318.21	0.084	149	320.01	0.095	130
*78	SHOLAYAR	(TN)	0.143	1,003.27	0.146	303	1,002.87	0.143	131	1,003.00	0.144	122
79	GUMTI	(TRP)	0.312	88.95	0.122	111	89.2	0.13	89	90	0.158	93
80	MATATILA	(UP)	0.707	305.96	0.385	154	306.69	0.455	135	308.27	0.621	112
*81	RIHAND	(UP)	5.649	254.69	0.469	151	256.77	1.075	120	260.18	2.312	103
*82	RAMGANGA	(UTT)	2.196	347.26	1.037	449	354.48	1.428	293	358.91	1.72	177
*83	TEHRI	(UTT)	2.615	780.75	0.911	509	812.55	1.92	223	820.25	2.214	125
84	MAYURAKSHI	(WB)	0.480	112.82	0.142	120	113.36	0.157	69	115.57	0.229	93
85	KANGSABATI	(WB)	0.914	129.43	0.537	433	130.9	0.649	209	132.57	0.81	181

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Table 5: Storage position of Important Reservoirs of India at the end of each Month During June 2013 to May 2014

S.NO	NAME OF RESERVOIR	(STATE)	LIVE CAP. AT FRL (BCM)	Sep-13			Oct-13			Nov-13		
				Level (Meter)	Live Storage (BCM)	% w.r.t. last 10 yr. avg.	Level (Meter)	Live Storage (BCM)	% w.r.t. last 10 yr. avg.	Level (Meter)	Live Storage (BCM)	%w.r.t. last 10 yr. avg.
1	2	3	4	5	6	7	8	9	10	11	12	13
*1	SRISAILAM	(A.P)	8.288	269.63	6.042	84	269.75	6.111	91	269.13	3.426	54
*2	NAGARJUNA SAGAR	(A.P)	6.841	179.83	5.108	106	179.71	5.074	104	175.44	3.935	98
3	SRIRAMSAGAR	(A.P)	2.300	332.54	2.557	182	332.54	2.557	186	332.54	2.557	220
4	SOMASILA	(A.P)	1.994	94.78	0.994	124	98.65	1.604	147	97.95	1.687	140
5	LOWER MANAIR	(A.P)	0.621	280.36	0.676	195	280.42	0.68	180	280.42	0.68	173
6	TENUGHAT	(JHAR)	0.821	260.13	0.422	127	260.51	0.438	130	260.63	0.443	133
7	MAITHON	(JHAR)	0.471	145.44	0.393	85	149.38	0.647	145	148.81	0.605	139
*8	PANCHET HILL	(JHAR)	0.184	127.08	0.312	178	128.45	0.413	240	128.79	0.44	250
9	KONAR	(JHAR)	0.176	424.14	0.146	95	425.96	0.178	117	425.41	0.169	123
10	TILAIYA	(JHAR)	0.142	366.47	0.065	59	368.51	0.131	116	368.5	0.132	132
*11	UKAI	(GUJ)	6.615	104.48	6.335	112	104.77	6.503	122	104.01	6.062	123
12	SABARMATI(DHAROI)	(GUJ)	0.735	185.92	0.409	83	187.11	0.506	106	186.76	0.476	114
*13	KADANA	(GUJ)	1.472	127.38	1.158	105	127.71	1.192	117	127.66	1.186	119
14	SHETRUNJI	(GUJ)	0.300	55.53	0.3	139	55.53	0.3	141	55.37	0.287	147
15	BHADAR	(GUJ)	0.188	107.9	0.188	132	107.87	0.187	136	107.62	0.176	148
16	DAMANAGANGA	(GUJ)	0.502	79.65	0.468	100	80	0.483	97	79.6	0.466	99
17	DANTIWADA	(GUJ)	0.399	173.93	0.104	60	175.73	0.149	93	174.5	0.123	98
18	PANAM	(GUJ)	0.697	127.2	0.683	119	127.4	0.698	126	127.25	0.542	103
*19	SARDAR SAROVAR	(GUJ)	1.566	122.36	1.646	167	121.34	1.461	164	121	1.399	157
20	KARJAN	(GUJ)	0.523	114.96	0.516	101	115.34	0.525	103	114.67	0.51	104
*21	GOBIND SAGAR(BHAKRA)	(H.P)	6.229	511.15	5.813	110	510.92	5.779	116	508.08	5.334	119
*22	PONG DAM	(H.P)	6.157	422.93	5.738	116	420.24	5.104	116	417.1	4.412	118
23	KRISHNARAJA SAGAR	(KAR)	1.163	752.29	1.136	122	751.86	1.081	114	750.79	0.953	114
*24	TUNGABHADRA	(KAR)	3.276	497.7	2.844	101	497.25	2.685	103	495.7	2.183	101
25	GHATAPRABHA	(KAR)	1.391	660.85	1.237	93	658.03	1.044	84	653.51	0.774	78
26	BHADRA	(KAR)	1.785	657.73	1.785	114	657.42	1.749	115	656.29	1.615	111
27	LINGANAMAKKI	(KAR)	4.294	554.37	4.278	115	553.67	4.061	113	552.45	3.704	112
28	NARAYANPUR	(KAR)	0.863	492.18	0.731	94	491.96	1.044	137	491.52	0.646	82
29	MALAPRABHA(RENUKA)	(KAR)	0.972	630.57	0.604	84	629.81	0.534	75	627.82	0.37	62
30	KABINI	(KAR)	0.444	695.93	0.261	134	695.2	0.219	129	693.26	0.118	97

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Table 5: Storage position of Important Reservoirs of India at the end of each Month During June 2013 to May 2014

S.NO	NAME OF RESERVOIR	(STATE)	LIVE CAP. AT FRL (BCM)	Sep-13			Oct-13			Nov-13		
				Level (Meter)	Live Storage (BCM)	% w.r.t. last 10 yr. avg.	Level (Meter)	Live Storage (BCM)	% w.r.t. last 10 yr. avg.	Level (Meter)	Live Storage (BCM)	%w.r.t. last 10 yr. avg.
1	2	3	4	5	6	7	8	9	10	11	12	13
31	HEMAVATHY	(KAR)	0.927	890.32	0.9	121	888.55	0.75	116	885.01	0.502	101
32	HARANGI	(KAR)	0.220	871.14	0.211	110	869.07	0.148	106	862.28	0.072	93
33	SUPA	(KAR)	4.120	561.84	3.856	136	561.87	3.859	140	560.25	3.671	142
34	VANIVILAS SAGAR	(KAR)	0.802	635	0.058	44	634.88	0.055	35	634.7	0.053	29
*35	ALMATTI	(KAR)	3.105	519.6	3.105	104	519.17	3.412	119	518.03	2.433	104
*36	GERUSOPPA	(KAR)	0.130	53.11	0.119	108	51.46	0.11	94	49.39	0.099	86
37	KALLADA(PARAPPAR)	(KRL)	0.507	115.1	0.468	122	114.92	0.464	107	115.33	0.474	109
*38	IDAMALAYAR	(KRL)	1.018	169.18	1.023	132	166.19	0.937	118	162.49	0.83	109
*39	IDUKKI	(KRL)	1.460	731.43	1.402	147	729.58	1.302	130	728.1	1.222	121
*40	KAKKI	(KRL)	0.447	981.28	0.443	130	979.43	0.41	111	977.82	0.384	101
*41	PERIYAR	(KRL)	0.173	863.55	0.1	130	861.48	0.063	63	861.9	0.07	57
*42	GANDHI SAGAR	(M.P.)	6.827	399.86	6.586	203	399.67	6.475	212	399.24	6.22	233
43	TAWA	(M.P.)	1.944	355.43	2.055	109	355.28	2.025	108	353.6	1.708	107
*44	BARGI	(M.P.)	3.180	422.76	3.185	109	422.7	3.171	113	422.3	3.079	127
*45	BANSAGAR	(M.P.)	5.166	341.45	5.172	216	341.58	5.343	256	341.23	4.989	269
*46	INDIRA SAGAR	(M.P.)	9.745	261.83	9.566	175	261.67	9.375	189	259.95	7.968	198
47	BARNA	(M.P.)	0.456	347.82	0.405	103	347.86	0.407	112	347.35	0.376	134
*48	MINIMATA BANGOI	(CHH.)	3.046	357.67	2.554	108	358.16	2.636	129	358.22	2.646	132
49	MAHANADI	(CHH.)	0.767	347.57	0.659	99	348.71	0.768	138	348.7	0.767	131
50	JAYAKWADI(PAITHON)	(MAH)	2.171	458.95	0.637	46	459.21	0.701	50	459.08	0.668	51
*51	KOYANA	(MAH)	2.652	658.67	2.744	104	658.06	2.67	105	654.99	2.172	91
52	BHIMA(UJJANI)	(MAH)	1.517	497.32	1.686	143	497.3	1.679	136	496.87	1.531	132
53	ISAPUR	(MAH)	0.965	440.95	0.971	171	441	0.976	167	440.7	0.947	172
54	MULA	(MAH)	0.609	549.4	0.463	92	550.47	0.514	99	550.17	0.499	102
55	YELDARI	(MAH)	0.809	461.38	0.77	198	461.77	0.809	202	461.7	0.802	225
56	GIRNA	(MAH)	0.524	390.38	0.206	63	391.22	0.232	70	391.03	0.226	74
57	KHADAKVASLA	(MAH)	0.056	582.47	0.056	127	580.61	0.032	107	581.13	0.039	128
*58	UPPER VAITARNA	(MAH.)	0.331	603.5	0.331	105	603.47	0.33	104	603.29	0.325	105
59	UPPER TAPI	(MAH.)	0.255	213.57	0.229	101	214	0.255	100	214	0.255	104
*60	PENCH (TOTALADOH)	(MAH.)	1.091	489.97	1.043	124	489.94	1.041	141	488.79	0.958	151

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Table 5: Storage position of Important Reservoirs of India at the end of each Month During June 2013 to May 2014

S.NO	NAME OF RESERVOIR	(STATE)	LIVE CAP. AT FRL (BCM)	Sep-13			Oct-13			Nov-13		
				Level (Meter)	Live Storage (BCM)	% w.r.t. last 10 yr. avg.	Level (Meter)	Live Storage (BCM)	% w.r.t. last 10 yr. avg.	Level (Meter)	Live Storage (BCM)	%w.r.t. last 10 yr. avg.
1	2	3	4	5	6	7	8	9	10	11	12	13
61	UPPER WARDHA	(MAH.)	0.564	342.49	0.533	103	342.5	0.564	110	342.08	0.526	109
*62	HIRAKUD	(ODI)	5.378	192.01	4.818	94	192.01	4.818	96	191.91	4.753	99
*63	BALIMELA	(ODI)	2.676	460.77	2.42	168	462.23	2.676	165	461.62	2.587	155
64	SALANADI	(ODI)	0.558	75.59	0.345	99	81.2	0.516	171	80.55	0.495	175
*65	RENGALI	(ODI)	3.432	121.71	2.827	96	123.86	2.571	89	123.3	3.38	128
*66	MACHKUND(JALPUT)	(ODI)	0.893	837.15	0.796	105	837.76	0.863	110	837.79	0.854	110
*67	UPPER KOLAB	(ODI)	0.935	854.91	0.644	105	856.35	0.779	122	856.24	0.768	126
*68	UPPER INDRAVATI	(ODI)	1.456	640.38	1.276	109	641.49	1.399	124	641.72	1.425	135
*69	THEIN	(PUN)	2.344	518.95	1.657	115	518.31	1.618	122	514.88	1.409	119
*70	MAHI BAJAJ SAGAR	(RAJ)	1.711	281.5	1.833	124	281.3	1.8	122	280.3	1.666	125
71	JHAKAM	(RAJ)	0.132	365.9	0.132	127	359.6	0.132	126	358.15	0.119	139
*72	RANA PRATAP SAGAR	(RAJ)	1.436	352.81	1.436	143	352.41	1.364	141	350.45	0.993	117
73	LOWER BHAWANI	(TN)	0.792	271.92	0.402	83	269.86	0.315	62	268.98	0.281	46
*74	METTUR(STANLEY)	(TN)	2.647	235.05	1.879	120	229.62	1.285	86	230.21	1.342	81
75	VAIGAI	(TN)	0.172	275.19	0.091	165	271.47	0.045	45	271.68	0.044	35
76	PARAMBIKULAM	(TN)	0.380	556.15	0.377	125	555.39	0.361	116	553.68	0.326	107
77	ALIYAR	(TN)	0.095	320.01	0.095	132	318.55	0.086	114	319.07	0.089	116
*78	SHOLAYAR	(TN)	0.143	1,002.94	0.144	113	1,002.81	0.143	121	999.42	0.126	113
79	GUMTI	(TRP)	0.312	91.1	0.203	111	91.1	0.203	113	90.15	0.164	112
80	MATATILA	(UP)	0.707	308.46	0.641	96	308.46	0.641	106	307.88	0.579	118
*81	RIHAND	(UP)	5.649	260.7	2.517	87	261.98	3.019	112	261.58	2.865	118
*82	RAMGANGA	(UTT)	2.196	361.1	1.882	140	362.36	1.976	137	362.33	1.973	136
*83	TEHRI	(UTT)	2.615	824.65	2.394	117	824.35	2.382	118	820.25	2.214	116
84	MAYURAKSHI	(WB)	0.480	116.18	0.252	82	120	0.433	183	120.15	0.441	188
85	KANGSABATI	(WB)	0.914	132.91	0.843	161	133.38	0.889	219	133.44	0.895	218

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Table 5: Storage position of Important Reservoirs of India at the end of each Month During June 2013 to May 2014

S.NO	NAME OF RESERVOIR	(STATE)	LIVE CAP. AT FRL (BCM)	Dec-13			Jan-14			Feb-14		
				Level (Meter)	Live Storage (BCM)	% w.r.t. last 10 yr. avg.	Level (Meter)	Live Storage (BCM)	% w.r.t. last 10 yr. avg.	Level (Meter)	Live Storage (BCM)	%w.r.t. last 10 yr. avg.
1	2	3	4	5	6	7	8	9	10	11	12	13
*1	SRISAILAM	(A.P)	8.288	268.63	3.168	55	267.38	2.557	53	264.58	1.366	37
*2	NAGARJUNA SAGAR	(A.P)	6.841	170.54	2.819	87	164.32	1.552	67	160.96	0.929	48
3	SRIRAMSAGAR	(A.P)	2.300	332.26	2.417	251	331.07	2.001	354	329.49	1.564	385
4	SOMASILA	(A.P)	1.994	97.09	1.539	134	95.22	1.277	125	94.31	1.149	132
5	LOWER MANAIR	(A.P)	0.621	280.31	0.672	169	279	0.572	166	277.22	0.451	158
6	TENUGHAT	(JHAR)	0.821	260.74	0.447	139	260.7	0.446	136	260.41	0.433	141
7	MAITHON	(JHAR)	0.471	148.59	0.59	139	148.52	0.585	143	147.53	0.517	144
*8	PANCHET HILL	(JHAR)	0.184	128.32	0.403	229	127.77	0.361	209	126.3	0.26	184
9	KONAR	(JHAR)	0.176	424.91	0.16	131	424.3	0.149	133	423.76	0.14	141
10	TILAIYA	(JHAR)	0.142	368.23	0.122	172	367.49	0.097	170	367.24	0.089	202
*11	UKAI	(GUJ)	6.615	103.33	5.637	126	102.93	5.466	136	101.68	4.823	138
12	SABARMATI(DHAROI)	(GUJ)	0.735	185.77	0.397	114	184.75	0.325	112	183.44	0.244	106
*13	KADANA	(GUJ)	1.472	127.36	1.155	119	127.36	1.155	125	127.53	1.174	134
14	SHETRUNJI	(GUJ)	0.300	55.17	0.271	151	54.77	0.242	167	54.17	0.203	178
15	BHADAR	(GUJ)	0.188	107.03	150.193		106.34	0.128	199	105.65	0.106	235
16	DAMANAGANGA	(GUJ)	0.502	78.35	0.409	94	76.9	0.348	92	75.25	0.285	84
17	DANTIWADA	(GUJ)	0.399	171.6	0.074	84	166.1	0.022	38	164.33	0.014	33
18	PANAM	(GUJ)	0.697	126.75	0.509	104	126.7	0.505	115	126.65	0.501	122
*19	SARDAR SAROVAR	(GUJ)	1.566	120.13	1.242	139	121.15	1.426	170	117.92	0.921	121
20	KARJAN	(GUJ)	0.523	113	0.457	99	112.01	0.426	100	110.83	0.393	100
*21	GOBIND SAGAR(BHAKRA)	(H.P)	6.229	502.36	4.487	121	496.32	3.671	136	490.33	2.947	139
*22	PONG DAM	(H.P)	6.157	412.18	3.417	111	408.48	2.744	104	405.87	2.297	101
23	KRISHNARAJA SAGAR	(KAR)	1.163	749.92	0.856	117	748.68	0.84	138	746.6	0.651	147
*24	TUNGABHADRA	(KAR)	3.276	493.98	1.701	103	490.74	1	96	487.65	0.553	88
25	GHATAPRABHA	(KAR)	1.391	648.17	0.501	72	640.38	0.227	52	638.02	0.159	64
26	BHADRA	(KAR)	1.785	656.3	1.622	111	654.42	1.417	108	652.13	1.187	112
27	LINGANAMAKKI	(KAR)	4.294	550.29	3.117	106	547.89	2.55	103	545.06	1.976	96
28	NARAYANPUR	(KAR)	0.863	491.25	0.614	79	491.64	0.661	88	490.08	0.485	76
29	MALAPRABHA(RENUKA)	(KAR)	0.972	624.17	0.154	39	622.94	0.104	45	622.59	0.084	63
30	KABINI	(KAR)	0.444	693.49	0.13	113	693.68	0.308	239	693.48	0.298	327

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Table 5: Storage position of Important Reservoirs of India at the end of each Month During June 2013 to May 2014

S.NO	NAME OF RESERVOIR	(STATE)	LIVE CAP. AT FRL (BCM)	Dec-13			Jan-14			Feb-14		
				Level (Meter)	Live Storage (BCM)	% w.r.t. last 10 yr. avg.	Level (Meter)	Live Storage (BCM)	% w.r.t. last 10 yr. avg.	Level (Meter)	Live Storage (BCM)	%w.r.t. last 10 yr. avg.
1	2	3	4	5	6	7	8	9	10	11	12	13
31	HEMAVATHY	(KAR)	0.927	879.5	0.214	71	875.8	0.167	66	875.43	0.157	72
32	HARANGI	(KAR)	0.220	853.58	0.015	56	855.21	0.032	104	855.86	0.036	107
33	SUPA	(KAR)	4.120	557.58	3.372	146	555.07	3.101	153	551.15	2.702	158
34	VANIVILAS SAGAR	(KAR)	0.802	634.55	0.05	28	634.38	0.047	29	634.18	0.043	31
*35	ALMATTI	(KAR)	3.105	516.05	1.735	99	512.93	0.984	80	509.55	0.44	62
*36	GERUSOPPA	(KAR)	0.130	51.34	0.109	100	50.9	0.107	101	48.24	0.093	86
37	KALLADA(PARAPPAR)	(KRL)	0.507	111.8	0.399	96	108.82	0.339	91	106.6	0.295	95
*38	IDAMALAYAR	(KRL)	1.018	159.94	0.758	112	156.58	0.67	114	152.29	0.568	118
*39	IDUKKI	(KRL)	1.460	726.22	1.119	121	722.68	0.949	118	719.52	0.801	121
*40	KAKKI	(KRL)	0.447	974.24	0.333	96	970.72	0.288	93	966.94	0.245	89
*41	PERIYAR	(KRL)	0.173	860.68	0.05	53	859.49	0.032	52	859.25	0.028	65
*42	GANDHI SAGAR	(M.P.)	6.827	398.49	5.769	275	397.69	5.308	325	397.11	4.974	382
43	TAWA	(M.P.)	1.944	351.31	1.344	108	348.87	1.026	119	346.16	0.747	136
*44	BARGI	(M.P.)	3.180	420.95	2.716	137	419.65	2.352	145	417.75	1.898	144
*45	BANSAGAR	(M.P.)	5.166	340.49	4.652	283	340.05	4.452	323	339.47	4.194	349
*46	INDIRA SAGAR	(M.P.)	9.745	258	6.402	192	255.99	5.142	206	254.02	3.799	184
47	BARNA	(M.P.)	0.456	346.21	0.304	138	345.42	0.258	159	344.18	0.19	183
*48	MINIMATA BANGOI	(CHH.)	3.046	358.1	2.625	136	357.8	2.576	142	357.42	2.513	148
49	MAHANADI	(CHH.)	0.767	348.61	0.758	126	347.26	0.633	114	347.43	0.646	125
50	JAYAKWADI(PAITHON)	(MAH)	2.171	458.71	0.577	49	458.13	0.462	45	457.75	0.383	44
*51	KOYANA	(MAH)	2.652	651.66	2.041	94	647.95	1.59	81	644.02	1.267	73
52	BHIMA(UJJANI)	(MAH)	1.517	496.09	1.275	120	495.84	1.199	132	494.19	0.724	97
53	ISAPUR	(MAH)	0.965	439.76	0.861	178	438.88	0.783	183	438.01	0.685	189
54	MULA	(MAH)	0.609	549.56	0.47	115	546.92	0.356	104	545.04	0.285	101
55	YELDARI	(MAH)	0.809	461.15	0.747	239	460.25	0.656	257	459.35	0.575	287
56	GIRNA	(MAH)	0.524	390.56	0.211	82	387.53	0.126	60	386.94	0.109	66
57	KHADAKVASLA	(MAH)	0.056	582.32	0.054	234	581.04	0.037	187	581.56	0.044	243
*58	UPPER VAITARNA	(MAH.)	0.331	603.14	0.321	108	602.99	0.315	120	602.83	0.31	141
59	UPPER TAPI	(MAH.)	0.255	213.89	0.247	113	213.44	0.221	118	213.2	0.209	134
*60	PENCH (TOTALADOH)	(MAH.)	1.091	487.2	0.851	150	486.08	0.778	161	484.67	0.69	192

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Table 5: Storage position of Important Reservoirs of India at the end of each Month During June 2013 to May 2014

S.NO	NAME OF RESERVOIR	(STATE)	LIVE CAP. AT FRL (BCM)	Dec-13			Jan-14			Feb-14		
				Level (Meter)	Live Storage (BCM)	% w.r.t. last 10 yr. avg.	Level (Meter)	Live Storage (BCM)	% w.r.t. last 10 yr. avg.	Level (Meter)	Live Storage (BCM)	%w.r.t. last 10 yr. avg.
1	2	3	4	5	6	7	8	9	10	11	12	13
61	UPPER WARDHA	(MAH.)	0.564	340.83	0.423	103	339.8	0.347	101	338.57	0.267	95
*62	HIRAKUD	(ODI)	5.378	191.55	4.487	100	190.75	4.024	102	189.85	3.491	102
*63	BALIMELA	(ODI)	2.676	460.67	2.405	153	459.06	2.124	155	458.39	2.022	173
64	SALANADI	(ODI)	0.558	80.55	0.495	189	79.65	0.466	204	79.5	0.461	238
*65	RENGALI	(ODI)	3.432	122.47	3.075	131	122.18	2.994	152	121.83	2.877	163
*66	MACHKUND(JALPUT)	(ODI)	0.893	837.48	0.896	125	836.28	0.729	112	835.46	0.67	119
*67	UPPER KOLAB	(ODI)	0.935	856.03	0.749	129	855.2	0.67	128	854.32	0.601	130
*68	UPPER INDRAVATI	(ODI)	1.456	642.01	1.457	148	641.35	1.384	160	639.78	1.212	164
*69	THEIN	(PUN)	2.344	511.65	1.211	126	509.05	1.064	157	508.57	1.041	173
*70	MAHI BAJAJ SAGAR	(RAJ)	1.711	278.25	1.381	129	276.9	1.235	143	275.05	1.105	168
71	JHAKAM	(RAJ)	0.132	356.1	0.099	155	353.75	0.081	185	350.8	0.06	221
*72	RANA PRATAP SAGAR	(RAJ)	1.436	348.91	0.727	101	349.51	0.827	139	348.48	0.655	120
73	LOWER BHAWANI	(TN)	0.792	265.18	0.163	30	261.29	0.08	18	261.99	0.092	24
*74	METTUR(STANLEY)	(TN)	2.647	224.81	0.868	55	219.95	0.533	45	219.32	0.496	44
75	VAIGAI	(TN)	0.172	270.16	0.03	30	268.4	0.018	28	267.72	0.015	29
76	PARAMBIKULAM	(TN)	0.380	552.29	0.298	105	547.67	0.209	86	544.4	0.151	76
77	ALIYAR	(TN)	0.095	315.32	0.066	101	309.07	0.032	73	305.7	0.016	46
*78	SHOLAYAR	(TN)	0.143	977.94	0.044	61	971.69	0.028	120	961.71	0.009	91
79	GUMTI	(TRP)	0.312	89	0.123	104	87.75	0.084	91	86.05	0.038	54
80	MATATILA	(UP)	0.707	307.63	0.553	145	307.91	0.583	168	307.33	0.521	179
*81	RIHAND	(UP)	5.649	260.82	2.566	122	260.06	2.263	129	259.48	2.039	138
*82	RAMGANGA	(UTT)	2.196	358.84	1.715	128	357.97	1.651	150	357.32	1.607	174
*83	TEHRI	(UTT)	2.615	812.7	1.927	114	801	1.52	112	791.25	1.211	99
84	MAYURAKSHI	(WB)	0.480	120.11	0.439	189	119.73	0.418	187	118.2	0.34	189
85	KANGSABATI	(WB)	0.914	133.5	0.901	268	132.43	0.796	293	131.14	0.668	321

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Table 5: Storage position of Important Reservoirs of India at the end of each Month During June 2013 to May 2014

S.NO	NAME OF RESERVOIR	(STATE)	LIVE CAP. AT FRL (BCM)	Mar-14			Apr-14			May-14		
				Level (Meter)	Live Storage (BCM)	% w.r.t. last 10 yr. avg.	Level (Meter)	Live Storage (BCM)	% w.r.t. last 10 yr. avg.	Level (Meter)	Live Storage (BCM)	%w.r.t. last 10 yr. avg.
1	2	3	4	5	6	7	8	9	10	11	12	13
*1	SRISAILAM	(A.P)	8.288	259.58	-0.211	-9	253.93	-1.313	-85	254.7	-1.193	-95
*2	NAGARJUNA SAGAR	(A.P)	6.841	157.49	0.33	20	157.92	0.401	25	157.73	0.41	24
3	SRIRAMSAGAR	(A.P)	2.300	327.72	1.138	566	326.01	0.796	737	325.71	0.745	801
4	SOMASILA	(A.P)	1.994	93.22	1.023	136	92.45	0.94	140	90.8	0.775	148
5	LOWER MANAIR	(A.P)	0.621	276.2	0.389	197	274.38	0.294	209	274.29	2.826	2191
6	TENUGHAT	(JHAR)	0.821	260.39	0.433	160	259.78	0.408	169	259.99	0.416	148
7	MAITHON	(JHAR)	0.471	145.46	0.394	139	142.84	0.268	158	143.36	0.29	212
*8	PANCHET HILL	(JHAR)	0.184	126	0.242	216	124.39	0.156	289	124.96	0.184	376
9	KONAR	(JHAR)	0.176	422.86	0.125	152	421.75	0.109	168	420.72	0.093	186
10	TILAIYA	(JHAR)	0.142	366.61	0.069	230	366.08	0.055	212	366.19	0.058	242
*11	UKAI	(GUJ)	6.615	100.33	4.185	144	97.77	3.111	140	95.46	2.277	146
12	SABARMATI(DHAROI)	(GUJ)	0.735	181.76	0.162	90	181.31	0.143	93	180.85	0.125	94
*13	KADANA	(GUJ)	1.472	127.56	1.176	140	127.2	1.14	146	126.49	1.068	153
14	SHETRUNJI	(GUJ)	0.300	52.92	0.136	197	50.97	0.072	256	49.87	0.049	349
15	BHADAR	(GUJ)	0.188	105.31	0.095	257	104.94	0.084	264	103.99	0.062	240
16	DAMANAGANGA	(GUJ)	0.502	73.15	0.215	74	70.7	0.146	64	67.7	0.079	75
17	DANTIWADA	(GUJ)	0.399	164.33	0.136	468	164.16	0.013	99	163.71	0.011	379
18	PANAM	(GUJ)	0.697	126.05	0.463	127	125.35	0.421	137	124.7	0.385	146
*19	SARDAR SAROVAR	(GUJ)	1.566	114.41	0.425	67	116.04	0.652	119	114.75	0.468	113
20	KARJAN	(GUJ)	0.523	108.94	0.346	98	106.7	0.295	97	102.96	0.221	90
*21	GOBIND SAGAR(BHAKRA)	(H.P)	6.229	482.41	2.117	129	483.13	2.189	164	479.82	1.887	150
*22	PONG DAM	(H.P)	6.157	402.62	1.802	95	402.55	1.791	97	402.73	1.819	128
23	KRISHNARAJA SAGAR	(KAR)	1.163	743.8	0.442	155	740.19	0.24	129	736.56	0.098	104
*24	TUNGABHADRA	(KAR)	3.276	482.35	0.15	70	480.09	0.676	704	483.76	0.223	181
25	GHATAPRABHA	(KAR)	1.391	635.8	0.107	69	631.21	0.028	26	630.25	0.015	37
26	BHADRA	(KAR)	1.785	647.85	0.814	101	644.29	0.558	100	641.3	0.379	108
27	LINGANAMAKKI	(KAR)	4.294	541.4	1.377	90	537.65	0.908	86	533.46	0.521	78
28	NARAYANPUR	(KAR)	0.863	487.52	0.247	54	487.31	0.231	80	487.98	0.488	170
29	MALAPRABHA(RENUKA)	(KAR)	0.972	621.41	0.053	66	620.86	0.037	58	620.64	0.032	62
30	KABINI	(KAR)	0.444	691.93	0.223	620	690.41	0.158	2628	689.99	0.141	2814

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Table 5: Storage position of Important Reservoirs of India at the end of each Month During June 2013 to May 2014

S.NO	NAME OF RESERVOIR	(STATE)	LIVE CAP. AT FRL (BCM)	Mar-14			Apr-14			May-14		
				Level (Meter)	Live Storage (BCM)	% w.r.t. last 10 yr. avg.	Level (Meter)	Live Storage (BCM)	% w.r.t. last 10 yr. avg.	Level (Meter)	Live Storage (BCM)	%w.r.t. last 10 yr. avg.
1	2	3	4	5	6	7	8	9	10	11	12	13
31	HEMAVATHY	(KAR)	0.927	874.44	0.137	93	873.72	0.115	137	874.75	0.142	316
32	HARANGI	(KAR)	0.220	856.09	0.038	114	856.22	0.039	125	856.99	0.044	136
33	SUPA	(KAR)	4.120	546.48	2.272	170	539.19	1.703	166	532.38	1.239	156
34	VANIVILAS SAGAR	(KAR)	0.802	633.98	0.039	30	633.65	0.035	29	633.37	0.032	29
*35	ALMATTI	(KAR)	3.105	508.37	0.3	98	507.74	0.233	116	507.42	0.549	337
*36	GERUSOPPA	(KAR)	0.130	49.01	0.097	86	48.92	0.096	81	49.15	0.098	86
37	KALLADA(PARAPPAR)	(KRL)	0.507	100.72	0.2	92	93.27	0.11	73	92.82	0.105	93
*38	IDAMALAYAR	(KRL)	1.018	146.49	0.438	121	140.03	0.31	120	133.4	0.196	119
*39	IDUKKI	(KRL)	1.460	715.98	0.657	131	711.45	0.484	132	706.4	0.311	132
*40	KAKKI	(KRL)	0.447	958.32	0.168	80	943.27	0.078	52	925.72	0.022	23
*41	PERIYAR	(KRL)	0.173	859.19	0.027	62	858.95	0.024	47	860.26	0.043	83
*42	GANDHI SAGAR	(M.P.)	6.827	396.47	4.64	446	396.05	4.418	474	396.03	4.418	501
43	TAWA	(M.P.)	1.944	345.52	0.691	156	342.57	0.439	104	339.52	0.243	60
*44	BARGI	(M.P.)	3.180	415.5	1.445	143	412.25	0.955	143	409.45	0.612	159
*45	BANSAGAR	(M.P.)	5.166	338.77	3.88	401	337.95	3.546	408	336.75	3.112	462
*46	INDIRA SAGAR	(M.P.)	9.745	252.02	2.765	176	248.87	1.727	152	247.31	1.158	178
47	BARNA	(M.P.)	0.456	343.92	0.177	233	343.7	0.168	267	343.74	0.17	258
*48	MINIMATA BANGOI	(CHH.)	3.046	357.4	2.51	163	356.94	2.436	175	356.18	2.314	186
49	MAHANADI	(CHH.)	0.767	346.03	0.535	119	343.12	0.328	87	341.55	0.23	72
50	JAYAKWADI(PAITHON)	(MAH)	2.171	457.49	0.331	47	457.12	0.259	48	456.42	0.144	38
*51	KOYANA	(MAH)	2.652	639.57	0.918	63	630.66	0.452	41	623.77	0.176	23
52	BHIMA(UJJANI)	(MAH)	1.517	493.91	0.652	129	491.54	0.103	38	490.42	-0.117	-148
53	ISAPUR	(MAH)	0.965	437.81	0.669	217	436.77	0.588	245	435.82	0.518	278
54	MULA	(MAH)	0.609	544.44	0.263	121	542.88	0.211	143	536.98	0.056	106
55	YELDARI	(MAH)	0.809	458.7	0.517	357	457.12	0.422	503	456.62	0.365	702
56	GIRNA	(MAH)	0.524	386.84	0.107	81	385.84	0.082	80	384.47	0.05	68
57	KHADAKVASLA	(MAH)	0.056	580.89	0.036	254	581.19	0.039	302	581.13	0.039	350
*58	UPPER VAITARNA	(MAH.)	0.331	601.83	0.278	155	599.02	0.193	143	596.39	0.126	124
59	UPPER TAPI	(MAH.)	0.255	213.49	0.224	184	212.86	0.188	227	211.54	0.126	382
*60	PENCH (TOTALADOH)	(MAH.)	1.091	483.55	0.625	214	482.53	0.569	250	481.44	0.512	293

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Table 5: Storage position of Important Reservoirs of India at the end of each Month During June 2013 to May 2014

S.NO	NAME OF RESERVOIR	(STATE)	LIVE CAP. AT FRL (BCM)	Mar-14			Apr-14			May-14		
				Level (Meter)	Live Storage (BCM)	% w.r.t. last 10 yr. avg.	Level (Meter)	Live Storage (BCM)	% w.r.t. last 10 yr. avg.	Level (Meter)	Live Storage (BCM)	%w.r.t. last 10 yr. avg.
1	2	3	4	5	6	7	8	9	10	11	12	13
61	UPPER WARDHA	(MAH.)	0.564	338.36	0.254	110	337.96	0.231	111	337.61	0.211	115
*62	HIRAKUD	(ODI)	5.378	189	3.06	117	186.71	1.981	120	184.91	1.316	149
*63	BALIMELA	(ODI)	2.676	456.9	1.814	207	454.79	1.537	268	453.52	1.372	339
64	SALANADI	(ODI)	0.558	79.36	0.457	315	78.83	0.439	385	78.84	0.44	403
*65	RENGALI	(ODI)	3.432	121.32	2.733	192	118.52	1.835	205	115.8	1.157	339
*66	MACHKUND(JALPUT)	(ODI)	0.893	834.33	0.589	124	832.26	0.464	124	831.43	0.417	143
*67	UPPER KOLAB	(ODI)	0.935	853.44	0.534	146	851.43	0.384	150	850.05	0.281	177
*68	UPPER INDRAVATI	(ODI)	1.456	637.65	1.004	179	633.99	0.663	181	630.99	0.417	200
*69	THEIN	(PUN)	2.344	512	1.233	183	516.55	1.51	181	520.41	1.752	172
*70	MAHI BAJAJ SAGAR	(RAJ)	1.711	272.45	0.81	160	217.55	0.731	176	271.2	0.702	205
71	JHAKAM	(RAJ)	0.132	349.05	0.049	259	348.75	0.048	251	348.4	0.046	255
*72	RANA PRATAP SAGAR	(RAJ)	1.436	347.41	0.496	97	348	0.58	107	348.26	0.617	107
73	LOWER BHAWANI	(TN)	0.792	264.44	0.144	42	261.39	0.082	31	262.83	0.108	38
*74	METTUR(STANLEY)	(TN)	2.647	218.97	0.476	43	214.56	0.26	24	216.06	0.326	28
75	VAIGAI	(TN)	0.172	266.47	0.01	19	264.43	0.004	9	267.39	0.013	31
76	PARAMBIKULAM	(TN)	0.380	540.48	0.086	56	539.23	0.067	54	538.36	0.054	49
77	ALIYAR	(TN)	0.095	307.24	0.023	61	308.26	0.028	66	306.49	0.02	53
*78	SHOLAYAR	(TN)	0.143	957.94	0.004	60	954.79	0.001	10	960.19	0.007	54
79	GUMTI	(TRP)	0.312	84.3	0.009	20	83.15	0	0	85.35	0.024	48
80	MATATILA	(UP)	0.707	305.38	0.333	103	305.29	0.327	107	304.43	0.258	138
*81	RIHAND	(UP)	5.649	258.99	1.858	167	258.41	1.642	215	257.25	1.241	256
*82	RAMGANGA	(UTT)	2.196	356.84	1.574	226	356.67	1.563	280	351.97	1.286	343
*83	TEHRI	(UTT)	2.615	777.4	0.822	134	758.8	0.371	128	742.95	0.045	50
84	MAYURAKSHI	(WB)	0.480	115.76	0.236	183	112.17	0.126	170	112.84	0.142	200
85	KANGSABATI	(WB)	0.914	129.28	0.526	483	126.92	0.371	618	126.51	0.349	612

Souce : WM Directorate, CWC

Table 6: Basin-wise Number of Hydrological Observation Stations by type as on 31.3.2014

S. No.	River/Basin	STATE	G	GD	GDQ	GDS	GDSQ	GQ	Sub Total	Sg
1	2	3	4	5	6	7	8	9	10	11
1	Brahmani-Baitarni	Jharkhand	0	0	0	0	1	0	1	0
	Basin	Orissa	6	1	0	0	7	0	14	0
		SubTotal	6	1	0	0	8	0	15	0
2	Cauvery Basin	Karnataka	0	0	8	0	5	0	13	0
		Kerala	0	0	0	0	1	0	1	0
		Puducherry	0	0	2	0	0	0	2	0
		Tamil Nadu	0	0	9	0	9	0	18	0
		SubTotal	0	0	19	0	15	0	34	0
3	East flowing rivers	Andhra Pradesh	1	1	0	0	2	0	4	0
	between Mahanadi and	Orissa	6	1	0	0	2	0	9	0
	Pennar	SubTotal	7	2	0	0	4	0	13	0
4	East flowing rivers	Andhra pradesh	0	0	2	0	0	0	2	0
	between Pennar and	Puducherry	0	0	1	0	0	0	1	0
	Kanyakumari	Tamil Nadu	0	0	9	0	5	0	14	0
		SubTotal	0	0	12	0	5	0	17	0
5	Ganga/	Arunachal Pradesh	12	4	2	2	0	4	24	1
	Brahamputra/	Assam	28	2	7	3	16	17	73	0
	Meghna/ Barak Basin	Bihar	34	4	4	1	14	0	57	0
		Chhattisgarh	1	0	0	0	0	0	1	0
		Delhi	0	1	1	0	1	0	3	0
		Haryana	1	3	0	0	1	0	5	0
		Himanchal Pradesh	1	0	2	0	0	0	3	3
		Jharkhand	8	11	2	0	2	1	24	0
		Madhya Pradesh	0	10	3	0	7	0	20	0
		Manipur	1	0	0	0	0	0	1	0
		Meghalaya	1	0	5	1	0	0	7	0
		Mizoram	0	2	0	0	0	0	2	0
		Rajasthan	0	6	1	0	6	0	13	0
		Sikkim	6	2	0	7	0	0	15	2
		Tripura	4	4	0	5	0	0	13	0
		Uttar Pradesh	36	10	13	0	32	2	93	0
		Uttarakhand	12	10	3	5	4	0	34	5
		West Bengal	19	12	6	2	18	0	57	0
		SubTotal	164	81	49	26	101	24	445	11

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Table 6: Basin-wise Number of Hydrological Observation Stations by type as on 31.3.2014

S. No.	River/Basin	STATE	G	GD	GDQ	GDS	GDSQ	GQ	Sub Total	Sg
1	2	3	4	5	6	7	8	9	10	11
6	Godavari Basin	Andhra Pradesh	11	3	1	0	5	0	20	0
		Chhattisgarh	1	6	0	0	3	0	10	0
		Karnataka	0	0	0	0	1	0	1	0
		Madhya Pradesh	1	4	0	0	0	0	5	0
		Marharashtra	12	9	1	1	12	1	36	0
		Orissa	0	4	0	0	1	0	5	0
		SubTotal	25	26	2	1	22	1	77	0
7	Indus Basin	Himachal Pradesh	4	4	0	1	2	0	11	6
		Jammu & Kashmir	3	4	3	1	4	0	15	19
		SubTotal	7	8	3	2	6	0	26	25
8	Krishna Basin	Andhra Pradesh	7	2	4	0	2	1	16	0
		Karnataka	8	4	5	0	8	0	25	0
		Maharashtra	1	7	1	0	3	0	12	0
		SubTotal	16	13	10	0	13	1	53	0
9	Mahanadi Basin	Chhattisgarh	6	2	1	0	12	0	21	0
		Orissa	12	1	0	0	5	0	18	0
		SubTotal	18	3	1	0	17	0	39	0
10	Mahi Basin	Gujarat	3	1	0	0	1	0	5	0
		Madhya Pradesh	0	0	0	0	1	0	1	0
		Rajasthan	3	1	1	0	1	0	6	0
		SubTotal	6	2	1	0	3	0	12	0
11	Narmada Basin	Gujarat	3	0	0	0	2	0	5	0
		Madhya Pradesh	5	0	7	0	9	0	21	0
		SubTotal	8	0	7	0	11	0	26	0
12	Pennar Basin	Andhra pradesh	0	0	6	0	2	0	8	0
		SubTotal	0	0	6	0	2	0	8	0
13	Sabarmati Basin	Gujarat	6	3	2	0	1	0	12	0
		Rajasthan	1	0	0	0	0	0	1	0
		SubTotal	7	3	2	0	1	0	13	0
14	Subarnarekha Basin	Jharkhand	0	0	1	0	3	0	4	0
		Orissa	5	1	0	0	1	0	7	0
		West Bengal	0	1	0	0	0	0	1	0
		SubTotal	5	2	1	0	4	0	12	0
15	Tapi Basin	Gujarat	3	0	1	0	0	0	4	0
		Madhya Pradesh	2	0	0	0	1	0	3	0
		Maharashtra	7	1	0	1	2	0	11	0
		SubTotal	12	1	1	1	3	0	18	0

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Table 6: Basin-wise Number of Hydrological Observation Stations by type as on 31.3.2014

S. No.	River/Basin	STATE	G	GD	GDQ	GDS	GDSQ	GQ	Sub Total	Sg
1	2	3	4	5	6	7	8	9	10	11
	from Tapi to Tadri	Goa	0	2	0	0	0	0	2	0
		Gujarat	2	1	1	0	2	0	6	0
		Maharashtra	2	4	3	0	1	0	10	0
		SubTotal	8	7	4	0	3	0	22	0
17	West flowing rivers	Karanataka	0	0	5	0	1	0	6	0
	from Tadri to Kanyakumari	Kerala	0	0	4	0	16	0	20	0
		Tamil Nadu	0	0	2	0	1	0	3	0
		SubTotal	0	0	11	0	18	0	29	0
18	West flowing rivers	Gujarat	3	3	1	0	3	0	10	0
	of Kutchh & Saurashtra	Rajasthan	1	2	1	0	0	0	4	0
		SubTotal	4	5	2	0	3	0	14	0
19	Area of Inland Drainage in Rajasthan Desert		0	0	0	0	0	0	0	0
		Sub Total	0	0	0	0	0	0	0	0
20	Minor Rivers draining Myanmar (Burma) and		2	0	0	3	0	0	5	0
	Bangladesh	Sub Total	2	0	0	3	0	0	5	0
Grand Total			295	154	131	33	239	26	878	36

Source : R.D. Dte.,CWC

Table 7: Detail of layers under India-WRIS

S.No	Name of GIS layer
1	2
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
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

Source: Remote Sensing Directorate, CWC.

Table 8: List of Water Resources Projects declared as National Projects

Sl. No.	Name of the Project	State	1) Irrigation (ha.) 2) Power (MW) 3) Storage (MAF)	Status	Central Assistance Released (Rs crores)
1	2	3	4	5	6
1	Gosikhurd	Maharashtra	1) 2.50 lakh 2) 3 MW 3) 0.93 MAF	Under Execution	450 (2008-09), 720 (2009-10), 1412.94 (2010-11), 405 (2012-13) = 2987.94 + 225.19 fo 2014-15 under process at MoWR.
2	Shahpur Kandi	Punjab	1) 0.37 lakh 2) 168 MW 3) 0.012MAF	Under Execution	10.80 (2009-10), 15.836 (2010-11) = 26.036
3	Teesta Barrage	West Bengal	1) 9.23 lakh 2) 1000 MW 3) Barrage	Under Execution	81 (2010-11), 97.2 (2011-12) = 178.20
4.	Renuka	HP	1) Drinking water 2) 40 MW 3) 0.44 MAF	DPR prepared Forest Clearance awaited	-
5.	Lakhwar Vyasi	Uttarakhand	1) 0.49 lakh 2) 420 MW 3) 0.325 MAF	Accepted by TAC, Investment clearance from Planning Commission awaited.	-
6.	Kishau	HP/ Uttarakhand	1) 0.97 Lakh 2) 600 MW 3) 1.04 MAF	DPR prepared, Environment & forest clearance awaited.	-
7	Ken Betwa	Madhya Pradesh	1) 6.46 lakh 2) 72 MW 3) 2.25 MAF	DPR of Phase-I under appraisal. DPR of Phase-II under preparation..	-
8	Bursar	J&K	1) 1 lakh (indirect) 2) 1230 MW 3) 1 MAF	DPR under preparation by NHPC	-
9.	Gyspa project	HP	1) 0.50 lakh ha 2) 240 MW 3) 0.6 MAF	DPR under preparation by Govt. of Himachal Pradesh	-
10	2nd Ravi Vyas Link	Punjab	Harness water flowing across border of about 3 MAF	Under conceptual stage	-
11.	Ujh multipurpose project	J&K	1) 0.32 lakh 2) 280 MW 3) 0.66 MAF	DPR prepared and appraisal in CWC/CEA.	-
12.	Kulsi Dam Project	Assam	1) 23,900 ha. 2) 29 MW 3) 0.28 MAF	Under appraisal in CWC/CEA	-
13.	Noa-Dehang Dam Project	Arunanchal Pradesh	1) 8000 ha. 2) 75 MW 3) 0.26 MAF	Under appraisal in CWC/CEA	-
14.	Upper Siang	Arunanchal Pradesh	1) Indirect 2) 9500 MW 3) 17.50 MAF 4) Flood moderation	Under conceptual stage	-
15	Saryu Nahar Pariyojna	Uttar Pradesh	1) 4.86 lakh (additional) 2) – 3) Barrage	Under execution	67.98 (2012-13), 380.75 (2013-14), 210.85 (2014-15) = 659.58 + 248.355 for 2014-15 is under process at MoWR.
16.	Indira Sagar Polavaram Project	Andhra Pradesh	1)2.91 Lakh ha 2)960 MW 3)23.44 TMC of water to Vizag city for drinking and industrial purpose and Diversion of 84.70 TMC to Krishna	Govt. of India in the Gazette Published on 01.03.2014 stated that The Polavaram Irrigation Project is hereby declared to be a National Project.	

Source: National Projects-II Directorate, Central Water Commission

MAF—Million Acre Feet MW—Mega Watt

Table 9: State-Wise distribution of Large Dams completed as on 31st October 2014

Sl. No.	State	Year of completion											TOTAL
		UPTO 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	10	10	23	13	9	10	47	129	24	153
3	Arunachal Pradesh								1		1	3	4
4	Assam						2		1		3	2	5
5	Bihar	1		1	8	5	5	1	2		23	3	26
6	Chhattisgarh		11	1	18	51	99	37	30	1	248	10	258
7	Goa						3	2			5		5
8	Gujarat	6	59	57	86	154	151	56	46	6	621	45	666
9	Himachal Pradesh				1	2	2	1	8	2	16	3	19
10	Haryana								1		1		1
11	Jammu & Kashmir					2	2	1	6	3	14	2	16
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	10	10	9	3	0	58	1	59
15	Madhya Pradesh	3	86	35	66	220	301	93	66	28	898	7	905
16	Maharashtra	20	40	23	152	622	416	304	113	3	1693	152	1845
17	Manipur					1		1	1		3	1	4
18	Meghalaya			1	1	2		1	2		7		7
19	Mizoram											1	1
20	Nagaland							1			1		1
21	Odisha	2	2	4	8	55	77	33	13	4	198	6	204
22	Punjab			1			4	6	3		14	2	16
23	Rajasthan*	17	14	33	23	29	36	26	15	8	201	10	211
24	Sikkim							1	1		2		2

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Table 9: State-Wise distribution of Large Dams completed as on 31st October 2014

Sl. No.	State	Year of completion											TOTAL
		UPTO 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
25	Tamil Nadu	0	10	10	26	26	17	8	19		116	0	116
26	Telangana	6	29	6	12	8	13	6	3	79	162	20	182
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	8	24
30	West Bengal			1	1	4	16	2	5		29		29
	GRAND TOTAL	**67**	**306**	**233**	**498**	**1296**	**1259**	**627**	**371**	**200**	**4857**	**345**	**5202**

Source:- Dam Safety Monitorung Directorate, CWC

* Out of 15 nos. of large dams (where year of completion was not available and State time/Old Dam/Old Tank was mentioned against them), on availability of year of completion, 6 nos. large dams shifted to column(4) , 1 large dam retained in column(3) and remaining 8 nos. of large dams shifted to Column (11) as year of completion still not available.

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 10: State-wise Ultimate Irrigation Potential

('000 Hactares)

Sl. No.	State/U.T.	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	Chattisgarh	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	Jarkhand	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	Orissa	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 11: Plan-wise and State-wise Cumulative Irrigation Potential Created/Utilized in respect of Major & Medium Irrigation Projects

('000 Hectare)

Sl. No.	State/UTs.	Ultimate Potential	Sixth Plan 1980-85		Seventh Plan 1985-90		Annual Plan 1990-92		Eighth Plan 1992-97		Ninth Plan 1997-2002		Tenth Plan 2002-07		% of IPC to UIP	% of IPU to IPC
			IPC	IPU	IPC	IPU	IPC	IPU	IPC	IPU	IPC	IPU	IPC	IPU		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Andhra Pradesh	5000	2902.0	2695.0	2991.0	2836.0	2999.0	2847.0	3045.1	2883.8	3303.2	3051.6	3600.2	3244.6	72.0	90.1
2	Arunachal Pradesh	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.8	0.0	65.0
3	Assam	970	98.0	55.0	144.0	97.0	176.0	111.0	196.7	138.2	243.9	174.4	302.7	211.0	31.2	69.7
4	Bihar	5224	2556.0	2009.0	2743.0	2259.0	2766.0	2295.0	2802.5	2324.2	2680.0	1714.8	2879.0	1814.9	55.1	63.0
5	Chattisgarh	1147	Included in M.P.								922.5	760.7	1137.0	948.2	99.1	83.4
6	Goa	62	1.0	0.0	13.0	5.0	13.0	12.0	13.0	12.1	21.2	15.3	33.8	23.3	54.4	69.1
7	Gujarat	3000	1055.0	646.0	1199.0	855.0	1246.0	986.0	1350.0	1200.0	1430.4	1300.8	2230.5	1835.4	74.4	82.3
8	Haryana	3000	1923.0	1745.0	2021.0	1791.0	2035.0	1791.0	2078.8	1833.6	2099.5	1850.0	2193.7	1893.3	73.1	86.3
9	Himachal Pradesh	50	6.0	5.0	8.0	6.0	8.0	4.0	10.6	5.6	13.4	7.5	15.5	8.2	30.9	53.3
10	Jammu & Kashmir	250	153.0	112.0	158.0	117.0	158.0	136.0	173.7	147.6	179.7	168.8	187.3	174.6	74.9	93.2
11	Jharkhand	1277	Included in Bihar								354.5	230.5	397.8	245.8	31.2	61.8
12	Karnataka	2500	1165.0	1053.0	1308.0	1183.0	1377.0	1192.0	1666.0	1471.7	2121.1	1844.8	2637.7	2119.7	105.5	80.4
13	Kerala	1000	375.0	342.0	402.0	355.0	416.0	367.0	513.3	464.3	609.5	558.9	669.5	591.4	66.9	88.3
14	Madhya Pradesh	4853	1592.0	1072.0	1815.0	1269.0	1962.0	1395.0	2317.6	1621.0	1386.9	875.6	1931.9	1173.3	39.8	60.7
15	Maharashtra	4100	1722.0	754.0	1986.0	976.0	2030.0	1036.0	2313.0	1287.7	3239.0	2147.2	3494.2	2313.1	85.2	66.2
16	Manipur	135	40.0	25.0	59.0	46.0	59.0	50.0	63.0	52.0	91.2	72.9	106.6	81.4	78.9	76.4
17	Meghalaya	20	-	-	-	-	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	0.0
19	Nagaland	10	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	Orissa	3600	1236.0	1178.0	1356.0	1254.0	1409.0	1326.0	1557.8	1442.7	1826.6	1794.2	1974.4	1878.7	54.8	95.2
21	Punjab	3000	2252.0	2234.0	2344.0	2303.0	2367.0	2309.0	2512.9	2452.3	2542.5	2486.0	2574.7	2510.5	85.8	97.5
22	Rajasthan	2750	1712.0	1551.0	1913.0	1740.0	1999.0	1887.0	2273.9	2088.4	2482.2	2313.9	2861.6	2526.1	104.1	88.3
23	Sikkim	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	Tamil Nadu	1500	1499.0	1506.0	1539.0	1536.0	1545.0	1541.0	1545.5	1545.5	1549.3	1549.3	1562.6	1556.9	104.2	99.6

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Table 11: Plan-wise and State-wise Cumulative Irrigation Potential Created/Utilized in respect of Major & Medium Irrigation Projects

('000 Hectare)

Sl. No.	State/UTs.	Ultimate Potential	Sixth Plan 1980-85		Seventh Plan 1985-90		Annual Plan 1990-92		Eighth Plan 1992-97		Ninth Plan 1997-2002		Tenth Plan 2002-07		% of IPC to UIP	% of IPU to IPC
			IPC	IPU	IPC	IPU	IPC	IPU	IPC	IPU	IPC	IPU	IPC	IPU		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
25	**Tripura**	100	-	-	2.0	2.0	2.0	2.0	2.3	2.3	4.9	4.5	14.1	10.5	14.1	74.4
26	**Uttar Pradesh**	12154	6223.0	5523.0	6667.0	5705.0	6806.0	5763.0	7059.0	6126.0	7910.1	6334.0	8782.0	6809.4	72.3	77.5
27	**Uttarakhand**	346	Inlcuded in U.P.								280.3	185.4	289.0	191.1	83.5	66.1
28	**West Bengal**	2300	1185.0	1069.0	1244.0	1132.0	1353.0	1258.0	1444.1	1332.5	1683.3	1527.1	1754.8	1573.6	76.3	89.7
Total States		**58367**	**27695.0**	**23574.0**	**29912.0**	**25467.0**	**30726.0**	**26308.0**	**32938.6**	**28431.4**	**36974.9**	**30968.2**	**41631.4**	**33735.7**	**71.3**	**81.0**
Total U.Ts.		98	-	-	8.0	0.0	15.0	7.0	18.5	9.3	6.5	3.9	6.5	3.9	6.6	60.5
All India Total		**58465**	**27695.0**	**23574.0**	**29920.0**	**25467.0**	**30741.0**	**26315.0**	**32957.1**	**28440.7**	**36981.4**	**30972.1**	**41637.9**	**33739.6**	**71.2**	**81.0**

Source : Planning and Progress Directorate, CWC

Note : IPC : Irrigation Potential Created IPU : Irrigation Potential Utilised

Table 12: Plan-wise Irrigation Potential Created and Utilized

(Million ha)

Sl.No.	Plan		Potential created					Potential Utilized				
				Minor					Minor			
			Major & Medium	Surface Water	Ground Water	Total	Total	Major & Medium	Surface Water	Ground Water	Total	Total
1	2		3	4	5	6	7	8	9	10	11	12
1	Upto 1951 (Pre-Plan)	Cumulative	9.7	6.4	6.5	12.9	22.6	9.7	6.4	6.5	12.9	22.6
2	I Plan	During	2.5	0.03	1.13	1.16	3.66	1.28	0.03	1.13	1.16	2.44
	(1951-56)	Cumulative	12.2	6.43	7.63	14.06	26.26	10.98	6.43	7.63	14.06	25.04
3	II Plan	During	2.13	0.02	0.67	0.69	2.82	2.07	0.02	0.67	0.69	2.76
	(1956-61)	Cumulative	14.33	6.45	8.3	14.75	29.08	13.05	6.45	8.3	14.75	27.8
4	III Plan	During	2.24	0.03	2.22	2.25	4.49	2.12	3.03	2.22	2.25	4.37
	(1961-66)	Cumulative	16.57	6.48	10.52	17	33.57	15.17	6.48	10.52	17	32.17
5	Annual Plans	During	1.53	0.02	1.98	2	3.53	1.58	0.02	1.98	2	3.58
	(1966-69)	Cumulat ive	18.1	6.5	12.5	19	37.1	16.75	6.5	12.5	19	35.75
6	IV Plan	During	2.6	0.5	4	4.5	7.1	1.64	0.5	4	4.5	6.14
	(1969-1974)	Cumulative	20.7	7	16.5	23.5	44.2	18.39	7	16.5	23.5	41.89
7	V Plan	During	4.02	0.5	3.3	3.8	7.82	2.7	0.5	3.3	3.8	6.5
	(1974-1978)	Cumulative	24.72	7.5	19.8	27.3	52.02	21.09	7.5	19.8	27.3	48.39
8	Annual Plans	During	1.89	0.5	2.2	2.7	4.59	1.48	0.5	2.2	2.7	4.18
	(1978-1980)	Cumulat ive	26.61	8	22	30	56.61	22.57	8	22	30	52.57
9	VI Plan	During	1.09	1.7	5.82	7.52	8.61	0.93	1.01	4.24	5.25	6.18
	(1980-1985)	Cumulative	27.7	9.7	27.82	37.52	65.22	23.5	9.01	26.24	35.25	58.75
10	VII Plan	During	2.22	1.29	7.8	9.09	11.31	1.9	0.96	6.91	7.87	9.77
	(1985-1990)	Cumulat ive	29.92	10.9	35.62	46.52	76.44	25.4	9.97	33.15	43.12	68.52
11	Annual Plan	During	0.82	0.47	3.27	3.74	4.56	0.85	0.32	3.1	3.42	4.27
	(1990-1992)	Cumulat ive	30.74	11.46	38.89	50.35	81.09	26.25	10.29	36.25	46.54	72.79
12	VIII Plan	During	2.21	1.05	1.91	2.96	5.17	2.13	0.78	1.45	2.23	4.36
	(1992-1997)	Cumulat ive	32.95	12.51	40.8	53.31	86.26	28.38	11.07	37.7	48.77	77.15
13	IX Plan	During	4.1	1.09	2.5	3.59	7.69	2.57	0.37	0.85	1.22	3.79
	(1997-2002)	Cumulative	37.05	13.6	43.3	56.9	93.95	30.95	11.44	38.55	49.99	80.94
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	N.A	N.A	5.45	11.79	1.27	N.A	N.A	1.43	2.7
	(2007-2012)	Cumulative	47.97	N.A	N.A	65.56	113.53	34.95	N.A	N.A	52.91	87.86

Source : Planning and Progress Directorate, CWC

* still under consolidation

Table 13: State-wise and Year-wise Achievements of Irrigation Potential Created/Utilised in respect of Major & Medium Irrigation during XI Plan*

('000 Hectare)

Sl. No.	Name of State/ UT	Ultimate Irrigation Potential	XI Plan									
			Achievement 2007-08		Achievement 2008-09		Achievement 2009-10		Achievement 2010-11		Likely achievement 2011-12	
			IPC	IPU	IPC	IPU	IPC	IPU	IPC	IPU	IPC	IPU
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Andhra Pradesh	5000	142.06	NF	177.25	NF	47.21	NF	320	NF	517	NF
2	Arunachal Pradesh	0	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
3	Assam	970	2.15	NF	8.85	NF	35.69	NF	13.12	NF	93.46	NF
4	Bihar	5223.5	NF	NF	10	NF	7	NF	93.46	NF	65	NF
5	Chhattisgarh	1146.93	6.62	NF	19.6	NF	36.1	NF	35	NF	35	NF
6	Goa	62	8	0.22	3.27	0.31	0.76	0.29	3.82	NF	5.95	NF
7	Gujarat	3000	401.49	NF	428.52	NF	34.58	7.3	270	20	314	10
8	Haryana	3000	2.37	NF	7.16	NF	2.31	NF	0.75	NF	NF	NF
9	Himachal Pradesh	50	2.5	NF	2	NF	3	NF	3.5	NF	4	NF
10	Jharkhand	1276.5	NF	NF	12.55	NF	0.5	NF	57.19	NF	62.7	NF
11	Jammu Kashmir	250	5.99	6.01	11.89	NF	NF	NF	10.43	NF	110	NF
12	Karnataka	2500	82.5	63.25	47.2	18.88	42.02	22.99	61.9	17.3	94.5	90
13	Kerala	1000	8	NF	3.2	NF	12	NF	23	NF	NF	NF
14	Madhya Pradesh	4853.07	104.03	NF	93.24	NF	67.41	NF	103.7	NF	206.15	NF
15	Maharashtra	4100	107.56	NF	118	NF	60	NF	140	NF	209	NF
16	Manipur	135	10.92	NF	4.14	NF	1.8	NF	15	NF	20.09	NF
17	Meghayala	20	-	-	-	-	-	-	-	-	-	-
18	Mizoram	0	-	-	-	-	-	-	-	-	-	-
19	Nagaland	10	-	-	-	-	-	-	-	-	-	-
20	Orissa	3600	10.4	NF	25.03	NF	36.06	NF	51	NF	50.51	NF
21	Punjab	3000	43.51	NF	29.25	NF	NF	NF	36.96	NF	NF	NF
22	Rajasthan	2750	124.2	NF	54.2	NF	59.85	NF	32.8	NF	34.5	NF
23	Sikkim	20	-	-	-	-	-	-	-	-	-	-
24	TamilNadu	1500	4.23	NF	3.48	NF	4	NF	4	NF	NF	NF
25	Tripura	100	1.01	NF	1.27	NF	3.85	NF	6.05	NF	3.03	NF
26	Uttar Pradesh	12154	85.82	165	49.53	200	29	150	177.8	250	163.97	250
27	Uttarakhand	346	-	-	-	-	-	-	-	-	-	-
28	West Bengal	2300	NF	NF	5	NF	5.34	NF	60.08	NF	76.18	NF
29	Union Territories	98	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Total		**58465**	**1153.35**	**234.48**	**1114.63**	**219.19**	**488.49**	**180.58**	**1519.55**	**287.3**	**2065.04**	**350**

Source : Planning and Progress Directorate, CWC

*** : Figures under reconciliation with states** **NF: Not furnished by the State**

Table 14: State-wise and Year-wise Achievements of Irrigation Potential Created/Utilised in respect of Minor Irrigation Projects of XI plan*

('000 Hectare)

Sl. No.	Name of State/ UT	Ultimate Irrigation Potential	Cumulative achievement Up to X Plan		XI Plan											
					Target		Achievement 2007-08		Achievement 2008-09		Achievement 2009-10		Achievement 2010-11		Likely Achievement 2011-12	
			IPC	IPU	IPC	IPU	IPC	IPU	IPC	IPU	IPC	IPU	IPC	IPU	IPC	IPU
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Andhra Pradesh	6260	3092.42	2843.92	222.7	NF	58.4	NF	60.01	NF	33.84	NF	40.42	NF	55.46	NF
2	Arunachal Pradesh	168	114.37	86.61	42	NF	7	NF	4.35	NF	1.57	NF	2.46	NF	2.5	NF
3	Assam	1900	631.98	508.56	137.86	NF	11.45	NF	25.65	NF	45.46	NF	147.72	NF	154.57	NF
4	Bihar	5663.5	4758.78	3793.33	1384	NF	NF	NF	366	NF	NF	NF	400	NF	400	NF
5	Chhattisgarh	571	556.76	378.11	604	NF	20.39	NF	60.4	NF	4.75	NF	120	NF	80	NF
6	Goa	54	24.39	20.92	2.7	2.3	0.27	0.23	0.31	0.26	0.11	0.09	0.55	0.46	0.3	0.25
7	Gujarat	3103	2019.42	1892.54	60	NF	1.98	2.94	16.27	NF	9.3	4.79	20	10	5	5
8	Haryana	1512	1637.67	1583.5	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
9	Himachal Pradesh	303	171.09	144.77	15	NF	2.7	NF	2.8	NF	3.63	NF	3	NF	3	NF
10	Jharkhand	1183.5	661.09	500.83	120	NF	15.52	NF	17.73	NF	10.32	NF	14.14	NF	26.87	NF
11	Jammu Kashmir	1108	390.35	367.63	3.34	3.34	23.76	20.53	31.09	NF	NF	NF	21	NF	68	NF
12	Karnataka	3474	1641.89	1592.22	50	50	8.94	8.94	16.04	16.04	17.3	17.3	10	NF	10	10
13	Kerala	1679	687.02	629.36	200	NF	20	NF	8.63	NF	26	NF	22	NF	NF	NF
14	Madhya Pradesh	11361	2340.88	2217.28	267	NF	22.68	NF	49.48	NF	28.7	NF	46.3	NF	46.3	NF
15	Maharastra	4852	3055.6	2648.12	276	NF		NF		NF	43	NF	35	NF	52	NF
16	Manipur	469	92.69	73.3	22.3	NF		NF	7.5	NF	NF	NF	9	NF	11.5	NF
17	Meghayala	148	61.57	53.89	16.5	NF	1.8	NF	2.03	NF	3.28	NF	4.33	NF	4.76	NF
18	Mizoram	70	21.26	14.95	21.26	NF	9	NF	9	NF	3.87	2.3	4.93	NF	3.68	2.2
19	Nagaland	75	93.17	72.2	22	NF	0.78	NF	3.5	NF	9.61	NF	8.95	NF	8.5	NF
20	Orissa	5203	1648.91	1441.97	147.27	NF	33.4	NF	35.79	NF	53.25	NF	53.88	NF	62.2	NF
21	Punjab	2967	3430.08	3368.2	108.68	NF	26.67	NF	17.92	NF	NF	NF	23.04	NF	NF	NF
22	Rajasthan	2378	2467.9	2374.44	70.47	NF	5	NF	5.87	NF	2.99	NF	3	NF	3	NF

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Table 14: State-wise and Year-wise Achievements of Irrigation Potential Created/Utilised in respect of Minor Irrigation Projects of XI plan*

('000 Hectare)

Sl. No.	Name of State/ UT	Ultimate Irrigation Potential	Cumulative achievement Up to X Plan		XI Plan											
					Target		Achievement 2007-08		Achievement 2008-09		Achievement 2009-10		Achievement 2010-11		Likely Achievement 2011-12	
			IPC	IPU	IPC	IPU	IPC	IPU	IPC	IPU	IPC	IPU	IPC	IPU	IPC	IPU
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
23	Sikkim	50	34.47	25.62	10	NF	1.5	NF	1.13	NF	1.14	NF	3	NF	1.5	NF
24	TamilNadu	4032	2137.33	2128.4	NF	NF	4.83	NF	52.83	NF	69	NF	68	NF	NF	NF
25	Tripura	181	134.98	116.35	30	NF	2.13	NF	1.83	NF	1.97	NF	9.33	NF	11.63	NF
26	Uttar Pradesh	17481	23603.67	18871.32	2990.36	2218.39	520.05	406.1	407.96	312.53	275.9	208.3	251.05	183.58	261.5	179.2
27	Uttarakhand	518	518.75	408.84	187.36	NF	17.49	NF	23	NF	NF	NF	12.14	NF	13.97	NF
28	West Bengal	4618	4022.68	3282.25	174	NF		NF	47	38	NF	NF	90	NF	NF	NF
Total(States)		**81382**	**60051.17**	**51443.44**	**7184.8**	**2274.03**	**815.72**	**438.74**	**1274.12**	**366.83**	**611.14**	**232.78**	**1382.81**	**194.05**	**1230.78**	**196.65**
29	A&N Islands		2.1	1.88	1.5	NF	0.35	NF	0.07	NF	0.07	NF	0.11	NF	0.04	NF
30	Chandigarh		0.3	0.28	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
31	D&N Haveli		1.35	1.07	0.45	NF	NF	NF	0.06	NF	0.03	NF	0.03	NF	0.06	NF
32	Daman&Diu		17.76	10.44	2	NF	2	NF	2	NF	2	NF	2	NF	2	NF
33	Delhi		21.64	18.52	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
34	Lakshadweep		Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	NF	Nil	Nil
35	Puducherry		7.97	6.06	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	NF	Nil	Nil
Total(UT"s)		**46**	**51.12**	**38.26**	**3.95**	**0**	**2.35**	**0**	**2.13**	**0**	**2.1**	**0**	**2.14**	**0**	**2.1**	**0**
Total(States&UT's)		**81428**	**60102.29**	**51481.7**	**7188.75**	**2274.03**	**818.07**	**438.74**	**1276.24**	**366.83**	**613.24**	**232.78**	**1384.95**	**194.05**	**1232.88**	**196.65**

Source : Planning and Progress Directorate, CWC

*** : Figures under reconciliation with states** **NF: Not furnished by the State**

Table 15 : State-wise Number of Major, Medium and ERM Projects

Sl. No.	Name of the State/UTs.	Major Project						Medium Project					
		Completed in Pre-plan Period	Completed in Plan Period upto IX Plan	Completed in X Plan	Completed in XI Plan	Spilled over projects in XII Plan*	New projects in XII Plan*	Completed in Pre-plan Period	Completed in Plan Period upto IX Plan	Completed in X Plan	Completed in 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
1	Andhra Pradesh	11	5	6	13	29^	1	45	69	7	14	10#	0
2	Arunachal Pradesh	0	0	0	NR	NR	NR	0	0	0	NR	NR	NR
3	Assam	0	2	2	0	2	0	0	8	1	1	1	0
4	Bihar	2	14	1	1	8	2	2	17	1	1	2	1
5	Chhatisgarh	4	3	1	3	2	3	4	22	2	1	4	1
6	Goa	0	0	1	0	1	0	0	1	0	0	0	0
7	Gujarat	2	17	0	0	1	0	0	114	1	6	4	0
8	Haryana	1	5	1	4	2	0	0	0	0	1	1	0
9	Himachal Pradesh	0	0	0	1	0	0	0	4	0	2	0	0
10	Jammu & Kashmir	1	1	0	NR	NR	NR	6	10	2	NR	NR	NR
11	Jharkhand	0	1	0	0	6	0	0	35	3	6	4	0
12	Karnataka	4	4	0	5	11	0	8	30	1	13	11	2
13	Kerala	0	10	1	1	1	0	0	7	0	0	3	0
14	Madhya Pradesh	2	9	4	2	15	16	10	91	1	2	13	13
15	Maharashtra	5	16	5	2	49	4	16	171	12	10	71	12
16	Manipur	0	1	0	0	1	0	0	4	0	1	1	2
17	Meghalaya	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
19	Nagaland	0	0	0	0	0	0	0	0	0	0	0	0
20	Orissa	3	6	3	0	11	0	3	37	6	1	13	1
21	Punjab	3	5	0	0	1	0	0	2	0	0	0	0
22	Rajasthan	1	5	2	3	0	0	42	55	3	2	0	0
23	Sikkim	0	0	0	NR	NR	NR	0	0	0	NR	NR	NR
24	Tamil Nadu	17	5	0	NR	NR	NR	7	39	0	NR	NR	NR
25	Tripura	0	0	0	NR	NR	NR	0	0	0	NR	NR	NR
26	Uttarakhand	0	0	5	NR	NR	NR	0	0	0	NR	NR	NR
27	Uttar Pradesh	15	42	0	0	6	1	0	40	0	0	0	0
28	West Bengal	3	3	0	0	2	0	0	17	0	1	0	0
	TOTAL	**74**	**154**	**32**	**35**	**148**	**27**	**143**	**773**	**40**	**62**	**138**	**32**

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Table 15 : State-wise Number of Major, Medium and ERM Projects

Sl. No.	Name of the State/UTs.	ERM					Total						
		Completed in Plan Period upto IX Plan	Completed in X Plan	Completed in XI Plan	Spilled over projects in XII Plan*	New projects in XII Plan*	Completed in Pre-plan Period	Completed in Plan Period upto IX Plan	Completed in X Plan	Completed in XI Plan*	Completed upto XI Plan	Spilled over projects in XII Plan*	New projects in XII Plan*
1	2	15	16	17	18	19	20	21	22	23	24	25	26
1	Andhra Pradesh	0	6	1	3 $	0	56	74	19	28	177	42**	1
2	Arunachal Pradesh	0	0	NR	NR	NR	0	0	0	NR	0	NR	NR
3	Assam	1	0	0	0	0	0	11	3	1	15	3	0
4	Bihar	2	0	1	3	0	4	33	2	3	42	13	3
5	Chhatisgarh	2	0	0	1	0	8	27	3	4	42	7	4
6	Goa	0	0	0	0	0	0	1	1	0	2	1	0
7	Gujarat	12	0	0	13	0	2	143	1	6	152	18	0
8	Haryana	12	1	1	0	0	1	17	2	6	26	3	0
9	Himachal Pradesh	0	0	0	0	0	0	4	0	3	7	0	0
10	Jammu & Kashmir	4	2	NR	NR	NR	7	15	4	NR	26	0	NR
11	Jharkhand	1	0	0	4	0	0	37	3	6	46	14	0
12	Karnataka	0	0	3	0	0	12	34	1	21	68	22	2
13	Kerala	1	0	1	0	0	0	18	1	2	21	4	0
14	Madhya Pradesh	1	0	6	2	4	12	101	5	10	128	30	33
15	Maharashtra	1	3	1	4	0	21	188	20	13	242	124	16
16	Manipur	0	0	0	0	0	0	5	0	1	6	2	2
17	Meghalaya	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
19	Nagaland	0	0	0	0	0	0	0	0	0	0	0	0
20	Orissa	7	13	5	5	21	6	50	22	6	84	29	22
21	Punjab	8	3	0	2	2	3	15	3	0	21	3	2
22	Rajasthan	7	0	0	0	0	43	67	5	5	120	0	0
23	Sikkim	0	0	NR	NR	NR	0	0	0	NR	0	NR	NR
24	Tamil Nadu	11	1	NR	NR	NR	24	55	1	NR	80	0	NR
25	Tripura	0	0	NR	NR	NR	0	0	0	NR	0	NR	NR
26	Uttarakhand	0	1	NR	NR	NR	0	0	6	NR	6	0	NR
27	Uttar Pradesh	20	0	0	3	0	15	102	0	0	117	9	1
28	West Bengal	0	0	0	0	0	3	20	0	1	24	2	0
	TOTAL	**90**	**30**	**19**	**37**	**27**	**217**	**1017**	**102**	**116**	**1452**	**326**	**86**

Source : Planning and Progress Directorate, CWC

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

Note1.: ^: 16 in new AP and 13 in Telangana, #: 5 in new AP and 5 in Telangana, $: 3 in new AP and 0 in Telangana and **: 24 in new AP and 18 in Telangana

Note 2.: * : As reported by the States for XII Plan formulation, also many projects which were ongoing during XIth Plan are not reported by the States for XII plan formulation.
NR : Non availability

Table 16 : State-wise & Project-wise financial status of Major, Medium and ERM projects as reported completed in XI plan

STATE	Project Name	Type of Project	Status	Approval Status	Un approved Cost	Original Cost	Latest Estimated Cost	Start Year	Upto X Plan	2007-08	2008-09	2009-10	2010-11	2011-12	Liability in XII Plan	Beyond XII plan	Cumm. Cost
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
ANDHRA PRADESH	**Alisagar Lift Irrigation Scheme**	Major	Completed in XI Plan	APD	0.00	107.87	261.30	2005.00	210.67	34.61	3.74	10.17	5.64	20.00	0	0	284.83
ANDHRA PRADESH	**Arugula Raja Ram Guthpa Lift Irrigation Scheme**	Major	Completed in XI Plan	APD	0.00	145.00	198.02	2005.00	130.06	32.39	8.39	20.39	21.42	25.00	0	0	237.65
ANDHRA PRADESH	**Chagalandu Lift Irrigation Scheme**	Major	Completed in XI Plan	APD	0.00	61.23	70.77	1999.00	70.44	1.59	1.17	0.23	8.07	5.00	0	0	86.50
ANDHRA PRADESH	**Guru Raghavendra Project**	Major	Completed in XI Plan	UA	130.42	0.00	0.00	2004.00	71.78	40.58	17.76	6.46	12.40	21.00	0	0	169.98
ANDHRA PRADESH	**Kandula Obula Reddy Gundlakamma Reservoir project**	Major	Completed in XI Plan	UA	592.18	0.00	0.00	2004.00	308.24	133.25	34.79	28.78	10.76	76.36	0	0	592.18
ANDHRA PRADESH	**Kunool Cuddapah Canal Modernisation Project**	Major	Completed in XI Plan	UA	0.00	0.00	0.00	1998.00	718.93	6.54	18.14	7.67	13.49	39.00	0	0	803.77
ANDHRA PRADESH	**Lendi Interstate Project**	Major	Completed in XI Plan	UA	0.00	0.00	263.89	2007.00	96.19	25.79	7.94	36.48	30.07	60.00	0	0	256.47
ANDHRA PRADESH	**Modernisation of Godavari Delta System and Drainage System including lining in Vulnerable**	Major	Completed in XI Plan	UA	0.00	0.00	1690.00	2008.00	0.00	0.00	57.00	37.89	15.65	166.54	0	0	277.08
ANDHRA PRADESH	**Siddapuram Lift Irrigation Scheme**	Major	Completed in XI Plan	UA	89.72	0.00	0.00	2008.00	0.00	0.00	7.42	18.00	13.48	33.73	0	0	72.63
ANDHRA PRADESH	**Somasila Project**	Major	Completed in XI Plan	UA	1196.00	0.00	0.00	1978.00	736.74	129.11	92.71	62.61	55.10	140.00	0	0	1216.27
ANDHRA PRADESH	**Sri Magunta Subbarami Reddy Ramatheertham Balancing Reservoir**	Major	Completed in XI Plan	UA	52.00	0.00	0.00	2005.00	17.22	18.27	10.26	1.04	0.28	4.93	0	0	52.00
ANDHRA PRADESH	**Thota Venkatachalam Pushkara Lift Irrigation Scheme**	Major	Completed in XI Plan	UA	1196.00	0.00	608.04	2004.00	342.11	76.48	44.92	74.59	31.50	45.00	0	0	614.60

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Table 16 : State-wise & Project-wise financial status of Major, Medium and ERM projects as reported completed in XI plan

STATE	Project Name	Type of Project	Status	Approval Status	Un approved Cost	Original Cost	Latest Estimated Cost	Start Year	Upto X Plan	2007-08	2008-09	2009-10	2010-11	2011-12	Liability in XII Plan	Beyond XII plan	Cumm. Cost
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
ANDHRA PRADESH	**Thotapalli Barrage Project**	Major	Completed in XI Plan	UA	1196.00	0.00	0.00	2004.00	190.94	114.26	63.30	30.38	43.11	40.00	0	0	481.99
ANDHRA PRADESH	**Tungabhadra Project High Level Stage Two**	Major	Completed in XI Plan	UA	1196.00	0.00	467.26	1967.00	377.09	7.39	5.34	8.00	7.32	8.00	0	0	413.14
ANDHRA PRADESH	**Bhupatipalem Reservoir Scheme Final**	Medium	Completed in XI Plan	UA	0.00	0.00	187.91	2004.00	1.54	15.00	81.34	26.79	26.01	30.00	0	0	180.68
ANDHRA PRADESH	**Choutpally Hanumanth Reddy Lift Irrigation Scheme**	Medium	Completed in XI Plan	UA	0.00	0.00	55.50	2005.00	18.87	15.50	12.01	1.45	3.19	5.00	0	0	56.02
ANDHRA PRADESH	**Gollavagu Project**	Medium	Completed in XI Plan	UA	1196.00	0.00	0.00	2004.00	71.62	3.24	1.49	0.45	3.35	5.60	0	0	85.75
ANDHRA PRADESH	**Kovvadakalva Reservoir Scheme**	Medium	Completed in XI Plan	UA	0.00	0.00	68.09	2000.00	60.56	0.38	0.10	0.10	0.05	1.06	0	0	62.25
ANDHRA PRADESH	**Madduvalasa Reservoir Project**	Medium	Completed in XI Plan	UA	0.00	0.00	132.00	1976.00	130.21	0.60	0.03	27.42	5.23	0.00	0	0	163.49
ANDHRA PRADESH	**Madduvalasa Reservoir Project Stage two**	Medium	Completed in XI Plan	APD	0.00	39.03	57.87	2009.00	0.00	0.00	0.00	0.00	3.03	20.00	0	0	23.03
ANDHRA PRADESH	**Mathadivagu Project**	Medium	Completed in XI Plan	UA	0.00	0.00	0.00	2004.00	29.31	12.04	12.95	1.94	0.19	1.50	0	0	57.93
ANDHRA PRADESH	**Musurumilli Reservoir Scheme**	Medium	Completed in XI Plan	APD	0.00	207.00	218.65	2005.00	53.54	31.45	25.86	38.12	31.47	20.00	0	0	200.44
ANDHRA PRADESH	**Neelwai Project**	Medium	Completed in XI Plan	APD	0.00	90.50	0.00	2004.00	8.71	10.92	2.65	3.95	2.94	8.50	0	0	37.67
ANDHRA PRADESH	**Peddagedda Reservoir Project Final**	Medium	Completed in XI Plan	APD	0.00	26.52	0.00	2004.00	85.65	11.48	5.57	0.79	0.21	0.00	0	0	103.70
ANDHRA PRADESH	**Ralivagu Project**	Medium	Completed in XI Plan	APD	0.00	33.30	0.00	2004.00	41.51	2.52	3.23	0.57	0.00	0.00	0	0	47.83
ANDHRA PRADESH	**Sri K.V.Rama Krishna Surampalem Reservoir Project**	Medium	Completed in XI Plan	APD	0.00	44.38	78.70	1999.00	48.80	2.33	1.14	0.44	1.54	0.25	0	0	54.50
ANDHRA PRADESH	**Swarnamukhi Barrage**	Medium	Completed in XI Plan	UA	52.04	0.00	0.00	2005.00	32.08	11.49	0.24	6.95	6.41	9.00	0	0	66.17

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Table 16 : State-wise & Project-wise financial status of Major, Medium and ERM projects as reported completed in XI plan

STATE	Project Name	Type of Project	Status	Approval Status	Un approved Cost	Original Cost	Latest Estimated Cost	Start Year	Upto X Plan	2007-08	2008-09	2009-10	2010-11	2011-12	Liability in XII Plan	Beyond XII plan	Cumm. Cost
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
ANDHRA PRADESH	**Vasireddy Krishna Murthy Naidu Janjhavathi Reservoir Project**	Medium	Completed in XI Plan	UA	0.00	0.00	0.00	1976.00	98.41	13.10	4.44	2.35	2.39	10.00	0	0	130.69
			28		**6896.36**	**754.83**	**4358.00**		**3951.22**	**750.31**	**523.93**	**454.01**	**354.30**	**795.47**	**0**	**0**	**6829.24**
ASSAM	**Buridehing**	Medium	Completed in XI Plan	APD	0.00	17.27	0.00	1980.00	0.00	0.00	0.00	0.00	18.28	5.73	0	0	24.01
			1		**0.00**	**17.27**	**0.00**		**0.00**	**0.00**	**0.00**	**0.00**	**18.28**	**5.73**	**0**	**0**	**24.01**
BIHAR	**Western Kosi Canal Project**	Major	Completed in XI Plan	APD	0.00	13.49	1307.21	1971.00	759.12	234.94	76.61	84.67	50.67	101.20	0	0	1307.21
BIHAR	**Mandai Wier Scheme**	Medium	Completed in XI Plan	UA	89.05	0.00	0.00	2007.00	0.00	7.79	18.00	9.16	5.00	0.00	0	0	39.95
BIHAR	**Restoration of Lt. and Rt. Main Canal Under Kulti Irrigation Scheme**	Medium	Completed in XI Plan	UA	0.81	0.00	0.00	2009.00	0.00	0.00	0.00	0.11	0.32	0.38	0	0	0.81
			3		**89.86**	**13.49**	**1307.21**		**759.12**	**242.73**	**94.61**	**93.94**	**55.99**	**101.58**	**0**	**0**	**1347.97**
CHHATTISGARH	**MAHANADI RESERVIOR PROJECT**	Major	Completed in XI Plan	APD	0.00	566.88	845.00	2000.00	656.52	51.97	56.14	63.77	74.67	20.00	0	0	923.07
CHHATTISGARH	**Minimata (Hasdeo) Bango Project Bilaspur**	Major	Completed in XI Plan	APD	0.00	115.30	1660.88	1962.00	1380.13	79.80	95.37	83.92	75.56	36.48	0	0	1751.26
CHHATTISGARH	**RAJIV SAMODA NISDA DIVERSION SCHEME PHASE II**	Major	Completed in XI Plan	UA	114.45	0.00	0.00	2006.00	0.00	10.54	7.25	3.07	5.40	1.17	0	0	27.43
CHHATTISGARH	**KOSARTEDA MEDIUM IRRIGATION PROJECT**	Medium	Completed in XI Plan	APD	0.00	6.01	154.65	1981.00	17.54	58.57	11.06	10.77	17.74	7.00	0	0	122.68
			4		**114.45**	**688.19**	**2660.53**		**2054.19**	**200.88**	**169.82**	**161.53**	**173.37**	**64.65**	**0**	**0**	**2824.44**
GUJARAT	**Bhadar II**	Medium	Completed in XI Plan	APD	0.00	138.56	138.56	1998.00	96.12	7.87	9.13	11.76	4.21	9.46	0	0	138.55
GUJARAT	**Demi III**	Medium	Completed in XI Plan	APD	0.00	39.04	75.16	1998.00	32.76	0.83	2.20	2.80	0.14	0.10	0	0	38.83
GUJARAT	**Umrecha**	Medium	Completed in XI Plan	APD	0.00	22.43	14.97	2004.00	4.48	5.35	0.00	0.00	0.00	0.00	0	0	9.83

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Table 16 : State-wise & Project-wise financial status of Major, Medium and ERM projects as reported completed in XI plan

STATE	Project Name	Type of Project	Status	Approval Status	Un approved Cost	Original Cost	Latest Estimated Cost	Start Year	Upto X Plan	2007-08	2008-09	2009-10	2010-11	2011-12	Liability in XII Plan	Beyond XII plan	Cumm. Cost
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
GUJARAT	**Und II**	Medium	Completed in XI Plan	APD	0.00	19.48	68.40	1986.00	6.55	0.22	0.58	0.39	0.54	0.96	0	0	9.24
GUJARAT	**Varansi**	Medium	Completed in XI Plan	APD	0.00	0.13	16.80	2001.00	6.19	0.47	0.20	0.40	0.50	0.32	0	0	8.08
GUJARAT	**Vartu II**	Medium	Completed in XI Plan	APD	0.00	24.28	57.15	1991.00	0.13	2.21	3.13	3.96	8.30	6.45	0	0	24.18
			6		**0.00**	**243.91**	**371.04**		**146.23**	**16.94**	**15.24**	**19.31**	**13.69**	**17.29**	**0**	**0**	**228.70**
HARYANA	**Augmentation of Irrigation Potential of Ottu Lake in Sirsa District under RIDF XIII**	Major	Completed in XI Plan	UA	69.68	0.00	0.00	2007.00	0.00	14.65	4.83	25.05	0.42	24.74	0	0	69.69
HARYANA	**haryana irrigation project for better water management**	Major	Completed in XI Plan	UA	171.62	0.00	0.00	2009.00	0.00	0.00	27.59	33.43	20.00	62.30	0	0	143.32
HARYANA	**Irrigation Project for better water Management under RIDF XIV**	Major	Completed in XI Plan	UA	143.34	0.00	0.00	2009.00	0.00	0.00	27.59	33.43	20.02	62.30	0	0	143.34
HARYANA	**NCR WATER SUPPLY CHANNEL**	Major	Completed in XI Plan	UA	322.00	0.00	0.00	2008.00	322.00	0.00	145.27	109.94	19.60	8.50	0	0	605.31
HARYANA	**Rehabilitation Modernisation of canal and Renovation of drains rechargeground water**	Major	Completed in XI Plan	UA	322.00	0.00	0.00	2008.00	47.70	7.70	20.00	20.00	0.00	19.58	0	0	114.98
HARYANA	**Irrigation Project for better Water Management under RIDF XIII**	Medium	Completed in XI Plan	UA	114.62	0.00	0.00	2007.00	0.00	63.57	25.38	10.70	4.87	10.09	0	0	114.61
			6		**1143.26**	**0.00**	**0.00**		**369.70**	**85.92**	**250.66**	**232.55**	**64.91**	**187.51**	**0**	**0**	**1191.25**

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Table 16 : State-wise & Project-wise financial status of Major, Medium and ERM projects as reported completed in XI plan

STATE	Project Name	Type of Project	Status	Approval Status	Un approved Cost	Original Cost	Latest Estimated Cost	Start Year	Upto X Plan	2007-08	2008-09	2009-10	2010-11	2011-12	Liability in XII Plan	Beyond XII plan	Cumm. Cost
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
HIMACHAL PRADESH	**Shahnehar Major Irrigation Project in Dist. Kangra (H P)**	Major	Completed in XI Plan	APD	0.00	143.32	310.89	1997.00	158.49	53.34	33.83	46.40	22.87	70.46	0	0	385.39
HIMACHAL PRADESH	**Balh valley (Left Bank) Medium Irrigation project**	Medium	Completed in XI Plan	APD	0.00	41.64	103.78	2004.00	3.51	3.01	4.00	40.00	20.00	33.26	0	0	103.78
HIMACHAL PRADESH	**Sidhatha Irrigation Project District Kangra (HP)**	Medium	Completed in XI Plan	APD	0.00	33.62	95.29	1997.00	34.02	13.73	10.78	9.08	7.76	19.92	0	0	95.29
			3		**0.00**	**218.58**	**509.96**		**196.02**	**70.08**	**48.61**	**95.48**	**50.63**	**123.64**	**0**	**0**	**584.46**
JHARKHAND	**DHANSINGHTOLI RESERVOIR SCHEME**	Medium	Completed in XI Plan	UA	29.52	0.00	0.00	1986.00	29.52	0.33	0.50	0.00	0.00	0.00	0	0	30.35
JHARKHAND	**KANSJORE RESERVOIR SCHEME**	Medium	Completed in XI Plan	UA	52.97	0.00	0.00	1986.00	48.20	2.00	1.00	2.78	1.03	0.00	0	0	55.01
JHARKHAND	**NAKTI RESERVOIR SCHEME**	Medium	Completed in XI Plan	UA	35.16	0.00	0.00	1987.00	14.97	12.00	7.42	1.97	3.25	0.00	0	0	39.61
JHARKHAND	**SONUA RESERVOIR SCHEME**	Medium	Completed in XI Plan	UA	82.65	0.00	0.00	1987.00	64.89	1.89	5.77	2.41	1.21	0.02	0	0	76.19
JHARKHAND	**SURANGI RESERVOIR SCHEME**	Medium	Completed in XI Plan	UA	41.17	0.00	0.00	1987.00	36.41	3.28	0.51	2.96	1.05	0.00	0	0	44.21
JHARKHAND	**UPPERSANKH RESERVOIR SCHEME**	Medium	Completed in XI Plan	UA	141.19	0.00	0.00	1986.00	92.43	11.72	11.69	5.63	5.93	11.24	0	0	138.64
			6		**382.66**	**0.00**	**0.00**		**286.42**	**31.22**	**26.89**	**15.75**	**12.47**	**11.26**	**0**	**0**	**384.01**
KARNATAKA	**DD Urs Canal Project**	Major	Completed in XI Plan	UA	18.50	0.00	0.00	1979.00	408.21	29.29	12.14	16.67	21.06	1.00	0	0	488.38
KARNATAKA	**Ghataprabha project third stage**	Major	Completed in XI Plan	UA	18.50	0.00	1210.51	1972.00	990.45	76.25	55.68	83.67	108.35	85.00	0	0	1399.40
KARNATAKA	**Harangi**	Major	Completed in XI Plan	UA	11.00	0.00	0.00	1969.00	443.73	48.68	36.12	29.21	16.01	7.00	0	0	580.74
KARNATAKA	**Kabini**	Major	Completed in XI Plan	UA	3.20	0.00	0.00	1959.00	522.90	38.90	17.02	66.94	96.06	90.00	0	0	831.82

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Table 16 : State-wise & Project-wise financial status of Major, Medium and ERM projects as reported completed in XI plan

STATE	Project Name	Type of Project	Status	Approval Status	Un approved Cost	Original Cost	Latest Estimated Cost	Start Year	Upto X Plan	2007-08	2008-09	2009-10	2010-11	2011-12	Liability in XII Plan	Beyond XII plan	Cumm. Cost
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
KARNATAKA	**Malaprabha**	Major	Completed in XI Plan	UA	20.00	0.00	1383.48	1962.00	883.25	57.74	55.07	69.08	96.44	168.10	0	0	1329.68
KARNATAKA	**Mulwad Lift Irrigation Scheme A**	Major	Completed in XI Plan	UA	20.00	0.00	0.00	1992.00	275.58	9.41	7.57	2.91	9.85	3.02	0	0	308.34
KARNATAKA	**Timmapur Lift Irrigation Scheme**	Major	Completed in XI Plan	UA	95.00	0.00	0.00	2006.00	0.00	12.13	3.10	3.21	9.34	75.00	0	0	102.78
KARNATAKA	**Arkavathy**	Medium	Completed in XI Plan	UA	22.25	0.00	0.00	1984.00	116.21	23.15	11.35	23.74	15.59	10.00	0	0	200.04
KARNATAKA	**Bannahallihundi LIS**	Medium	Completed in XI Plan	UA	16.25	0.00	0.00	2006.00	5.01	3.27	5.66	4.06	1.06	2.50	0	0	21.56
KARNATAKA	**CONSTRUCTION OF SONNA LIS**	Medium	Completed in XI Plan	UA	20.00	0.00	0.00	2006.00	8.95	3.00	2.50	2.50	0.00	0.95	0	0	17.90
KARNATAKA	**Gandorinala Project**	Medium	Completed in XI Plan	UA	18.50	0.00	240.00	1992.00	178.71	15.95	18.07	26.72	14.52	0.00	0	0	253.97
KARNATAKA	**Hirehalla**	Medium	Completed in XI Plan	UA	6.35	0.00	0.00	1979.00	291.33	2.21	3.76	7.81	12.69	40.51	0	0	358.31
KARNATAKA	**Iggalur**	Medium	Completed in XI Plan	UA	3.42	0.00	0.00	1986.00	68.91	8.13	2.31	2.48	1.78	3.00	0	0	86.62
KARNATAKA	**JAVALAHALLA LIS**	Medium	Completed in XI Plan	UA	3.33	0.00	0.00	2005.00	0.39	0.00	0.00	0.00	0.00	0.05	0	0	0.44
KARNATAKA	**KAMASAMUDRA LIS**	Medium	Completed in XI Plan	UA	70.00	0.00	0.00	1984.00	38.34	6.49	3.10	3.71	2.12	1.60	0	0	55.36
KARNATAKA	**MALALURU LIS**	Medium	Completed in XI Plan	UA	5.95	0.00	0.00	1997.00	0.00	0.00	0.00	0.00	0.10	4.10	0	0	4.20
KARNATAKA	**Manchanbele**	Medium	Completed in XI Plan	UA	2.37	0.00	0.00	1969.00	78.19	6.11	0.63	1.53	1.97	0.50	0	0	88.93
KARNATAKA	**Taraka**	Medium	Completed in XI Plan	UA	1.70	0.00	0.00	1970.00	52.33	4.77	2.17	3.21	3.60	1.00	0	0	67.08
KARNATAKA	**TEGGISIDDAPUR LIS**	Medium	Completed in XI Plan	UA	20.00	0.00	0.00	2009.00	12.60	0.00	0.00	0.00	12.60	23.05	0	0	48.25
KARNATAKA	**Uduthorehalla**	Medium	Completed in XI Plan	UA	7.55	0.00	0.00	1982.00	192.06	28.76	4.89	1.20	1.24	0.50	0	0	228.65
KARNATAKA	**VOTEHOLE**	Medium	Completed in XI Plan	UA	2.05	0.00	0.00	1976.00	53.18	1.38	0.66	0.78	0.52	1.18	0	0	57.70
			21		**385.92**	**0.00**	**2833.99**		**4620.34**	**375.63**	**241.78**	**349.44**	**424.90**	**518.06**	**0**	**0**	**6530.15**
KERALA	**Idamalayar Irrigation Project**	Major	Completed in XI Plan	APD	0.00	107.00	1.00	1992.00	423.00	229.76	47.89	35.62	14.21	15.00	0	0	765.48

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Table 16 : State-wise & Project-wise financial status of Major, Medium and ERM projects as reported completed in XI plan

STATE	Project Name	Type of Project	Status	Approval Status	Un approved Cost	Original Cost	Latest Estimated Cost	Start Year	Upto X Plan	2007-08	2008-09	2009-10	2010-11	2011-12	Liability in XII Plan	Beyond XII plan	Cumm. Cost
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
KERALA	**Regulator cum Bridge at Chamravattom**	Medium	Completed in XI Plan	APD	0.00	134.03	134.03	2009.00	0.00	0.00	0.00	40.20	80.78	0.00	0	0	120.98
			2		**0.00**	**241.03**	**135.03**		**423.00**	**229.76**	**47.89**	**75.82**	**94.99**	**15.00**	**0**	**0**	**886.46**
MADHYA PRADESH	**Bariyapur Lft Bank Canal**	Major	Completed in XI Plan	UA	20.93	0.00	477.00	1979.00	236.00	30.00	26.00	20.00	46.00	100.00	0	0	458.00
MADHYA PRADESH	**HARSI PROJECT**	Major	Completed in XI Plan	UA	135.87	0.00	0.00	2006.00	40.96	45.61	20.49	37.49	12.54	0.45	0	0	157.54
MADHYA PRADESH	**mahi project**	Major	Completed in XI Plan	UA	20.93	0.00	490.39	1981.00	237.89	35.21	26.78	44.88	67.75	60.00	0	0	472.51
MADHYA PRADESH	**Rehabilitation of ABC Km 0 upto 143.40**	Major	Completed in XI Plan	UA	99.78	0.00	0.00	2007.00	0.00	10.85	39.99	37.96	8.91	2.07	0	0	99.78
MADHYA PRADESH	**Rehabilitation of CRMC km 93 upto km169**	Major	Completed in XI Plan	UA	63.94	0.00	0.00	2008.00	0.00	3.19	4.99	13.02	7.92	34.81	0	0	63.93
MADHYA PRADESH	**Rehabilitation of LMC km 0 upto 50**	Major	Completed in XI Plan	UA	64.41	0.00	0.00	2008.00	0.00	0.00	3.99	20.00	36.22	4.20	0	0	64.41
MADHYA PRADESH	**Rehabilitation of MBC Km 0 upto 36.10**	Major	Completed in XI Plan	UA	34.16	0.00	0.00	2008.00	0.00	1.49	14.85	12.83	3.71	1.29	0	0	34.16
MADHYA PRADESH	**BANETA MEDIUM L.I.S.**	Medium	Completed in XI Plan	UA	20.93	0.00	0.00	2008.00	0.00	5.95	10.23	8.47	3.99	9.30	0	0	37.94
MADHYA PRADESH	**Retam Barrage Project**	Medium	Completed in XI Plan	APD	0.00	22.75	49.64	2006.00	7.85	27.19	1.75	7.84	4.88	0.00	0	0	49.51
MADHYA PRADESH	**Sindh Ramowa Link Canal Project**	Medium	Completed in XI Plan	UA	5.96	0.00	0.00	1980.00	6.68	0.43	1.05	1.19	1.56	8.60	0	0	19.51
			10		**466.91**	**22.75**	**1017.03**		**529.38**	**159.92**	**150.12**	**203.68**	**193.48**	**220.72**	**0**	**0**	**1457.29**
MAHARASHTRA	**Sangola Branch Canal**	Major	Completed in XI Plan	UA	95.39	0.00	662.54	2007.00	19.74	6.82	7.72	27.49	53.45	106.00	0	0	221.22
MAHARASHTRA	**Sangola Lift Irrigation Scheme**	Major	Completed in XI Plan	UA	73.59	0.00	0.00	2011.00	0.00	0.00	0.00	0.00	0.00	1.00	0	0	1.00
MAHARASHTRA	**Uper Wardha**	Major	Completed in XI Plan	UA	73.59	0.00	1376.63	1976.00	709.68	84.61	96.72	34.64	33.30	20.00	0	0	978.95

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Table 16 : State-wise & Project-wise financial status of Major, Medium and ERM projects as reported completed in XI plan

STATE	Project Name	Type of Project	Status	Approval Status	Un approved Cost	Original Cost	Latest Estimated Cost	Start Year	Upto X Plan	2007-08	2008-09	2009-10	2010-11	2011-12	Liability in XII Plan	Beyond XII plan	Cumm. Cost
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
MAHARASHTRA	**Dhapewada Lift Irrigation Scheme Stage 1**	Medium	Completed in XI Plan	APD	0.00	24.01	185.68	1996.00	70.42	6.70	10.73	1.30	40.00	25.00	0	0	154.15
MAHARASHTRA	**Dongargaon Project**	Medium	Completed in XI Plan	APD	0.00	1.50	67.04	1979.00	33.08	3.03	4.55	1.68	13.41	16.00	0	0	71.75
MAHARASHTRA	**Haranghat L.I.S.**	Medium	Completed in XI Plan	APD	0.00	49.20	0.00	1999.00	0.00	28.00	10.00	5.00	5.70	0.50	0	0	49.20
MAHARASHTRA	**Kirmiri L.I.S.**	Medium	Completed in XI Plan	APD	0.00	27.89	0.00	1997.00	26.46	1.11	0.24	0.24	0.00	0.00	0	0	28.05
MAHARASHTRA	**Madan Tank Project**	Medium	Completed in XI Plan	UA	88.09	0.00	88.09	1997.00	74.60	3.07	2.53	0.60	1.40	9.00	0	0	91.20
MAHARASHTRA	**Pimpalgaon (Dhale) Project**	Medium	Completed in XI Plan	UA	95.39	0.00	0.00	1997.00	54.89	3.96	3.81	1.07	17.07	14.58	0	0	95.38
MAHARASHTRA	**PRAKASHA BARRAGE**	Medium	Completed in XI Plan	UA	95.39	0.00	0.00	1999.00	118.64	38.81	20.05	7.16	4.98	2.00	0	0	191.64
MAHARASHTRA	**Sondyatola Lift Irrigation Scheme**	Medium	Completed in XI Plan	UA	73.59	0.00	103.31	1995.00	46.45	4.08	13.86	1.91	25.00	0.00	0	0	91.30
MAHARASHTRA	**Wagholi Buti LIS**	Medium	Completed in XI Plan	UA	9.50	0.00	48.32	1993.00	37.27	2.04	2.16	0.57	2.15	1.50	0	0	45.69
MAHARASHTRA	**Zhansinagar Lift Irrigation Scheme**	Medium	Completed in XI Plan	UA	9.50	0.00	45.18	2004.00	12.82	1.00	6.61	1.38	20.00	15.00	0	0	56.81
			13		**614.03**	**102.60**	**2576.79**		**1204.05**	**183.23**	**178.98**	**83.04**	**216.46**	**210.58**	**0**	**0**	**2076.34**
MANIPUR	**Dolaithabi Barrage Project Manipur**	Medium	Completed in XI Plan	APD	0.00	18.86	215.52	1992.00	58.86	15.59	13.92	41.31	49.90	93.50	0	0	273.08
			1		**0.00**	**18.86**	**215.52**		**58.86**	**15.59**	**13.92**	**41.31**	**49.90**	**93.50**	**0**	**0**	**273.08**
ORISSA	**Extension of Daha Irrigation Project**	ERM	Completed in XI Plan	UA	10.24	0.00	0.00	2005.00	5.07	4.32	6.96	5.52	2.80	0.00	0	0	24.67
ORISSA	**Extension of Sumandal canal (Salia Irrigation Project)**	ERM	Completed in XI Plan	UA	2.62	0.00	0.00	2004.00	1.59	0.12	0.00	0.00	0.00	0.00	0	0	1.71

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Table 16 : State-wise & Project-wise financial status of Major, Medium and ERM projects as reported completed in XI plan

STATE	Project Name	Type of Project	Status	Approval Status	Un approved Cost	Original Cost	Latest Estimated Cost	Start Year	Upto X Plan	2007-08	2008-09	2009-10	2010-11	2011-12	Liability in XII Plan	Beyond XII plan	Cumm. Cost
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
ORISSA	**Renovation of Rampur Berkley Distributary(Hirakud Dam Project)**	ERM	Completed in XI Plan	UA	26.42	0.00	0.00	2007.00	0.00	1.08	10.00	14.94	6.00	0.00	0	0	32.02
ORISSA	**Renovation of Bahuda Irrigation Project**	ERM	Completed in XI Plan	UA	11.88	0.00	0.00	2005.00	4.11	4.89	2.27	0.45	0.11	0.00	0	0	11.83
ORISSA	**Renovation of Satiguda Irrigation Project**	ERM	Completed in XI Plan	UA	4.29	0.00	0.00	2005.00	0.86	2.47	0.98	0.00	0.00	0.00	0	0	4.31
ORISSA	**Bagh Barrage Project**	Medium	Completed in XI Plan	APD	0.00	44.72	0.00	1997.00	55.09	6.85	7.61	4.98	3.13	0.00	0	0	77.66
			6		**55.45**	**44.72**	**0.00**		**66.72**	**19.73**	**27.82**	**25.89**	**12.04**	**0.00**	**0**	**0**	**152.20**
RAJASTHAN	**Bisalpur**	Major	Completed in XI Plan	APD	0.00	309.07	657.91	1985.00	662.69	27.93	16.39	11.85	10.24	0.00	0	0	729.10
RAJASTHAN	**Mahi**	Major	Completed in XI Plan	APD	0.00	3.04	538.58	1971.00	890.97	22.01	27.14	0.00	0.00	0.00	0	0	940.12
RAJASTHAN	**Ratanpura Distributory**	Major	Completed in XI Plan	APD	0.00	27.53	0.00	2000.00	22.02	0.32	0.12	0.51	0.00	0.00	0	0	22.97
RAJASTHAN	**Bandi Sendra**	Medium	Completed in XI Plan	APD	0.00	37.02	0.00	1998.00	26.64	4.37	1.93	0.00	0.00	0.00	0	0	32.94
RAJASTHAN	**Sukali**	Medium	Completed in XI Plan	APD	0.00	42.90	0.00	1998.00	32.08	7.50	4.35	0.00	0.00	0.00	0	0	43.93
			5		**0.00**	**419.56**	**1196.49**		**1634.40**	**62.13**	**49.93**	**12.36**	**10.24**	**0.00**	**0**	**0**	**1769.06**
WEST BENGAL	**Patloi Irrigation Project (Revised)**	Medium	Completed in XI Plan	APD	0.00	0.90	17.28	1977.00	8.88	0.37	1.01	1.08	0.35	5.96	0	0	17.65
			1		**0.00**	**0.90**	**17.28**		**8.88**	**0.37**	**1.01**	**1.08**	**0.35**	**5.96**	**0**	**0**	**17.65**
																	0.00
	TOTAL	**MJ 45, MD 66, ERM 5**	**116**	**UA78, APD38**	**10148.91**	**2786.69**	**17198.87**		**16308.52**	**2444.44**	**1841.21**	**1865.19**	**1746.01**	**2370.94**	**0**	**0**	**26576.31**

Source : Planning and Progress Directorate, CWC

Table 17: State-wise & project-wise financial status of Major, Medium and EMR projects as reported completed with liabilities in XII plan

STATE	Project Name	Type of Project	Special Classification	Status	Approval Status	Un approved Cost	Original Cost	Latest Estimated Cost	Start Year	Upto X Plan	2007-08	2008-09	2009-10	2010-11	2011-12	Liability in XII Plan	Beyond XII plan	Cumm. Cost
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
ANDHRA PRADESH	**Sri Tenneti Viswanatham Pedderu Reservoir Project Final**	Medium	Improvement of Water Management	Completed with liabilities in XII plan	APD	0	26.27	38.41	1999	40.07	3.22	0.25	0.02	1.15	4.42	5.4	0	54.53
				1		**0**	**26.27**	**38.41**		**40.07**	**3.22**	**0.25**	**0.02**	**1.15**	**4.42**	**5.4**	**0**	**54.53**
GUJARAT	**Guhai**	ERM	Not Applicable	Completed with liabilities in XII plan	APD	0	0.029	0.057	2007	0	0.35	1.32	0.22	0.61	0.7	2.5	0	5.7
GUJARAT	**Panam High Level Canal**	Medium	Improvement of Water Management	Completed with liabilities in XII plan	APD	0	130.71	260	2004	16.25	27.98	42.5	33.18	27.95	34	94.39	0	276.25
				2		**0**	**130.73**	**260.05**		**16.25**	**28.33**	**43.82**	**33.4**	**28.56**	**34.7**	**96.89**	**0**	**281.95**
HIMACHAL PRADESH	**Changer Area Medium Lift Irrigation Project in Distt. Bilaspur (HP)**	Medium	Not Applicable	Completed with liabilities in XII plan	APD	0	28.37	88.09	1999	16.23	30.98	20.94	9.14	5.96	2	2	2	89.25
				1		**0**	**28.37**	**88.09**		**16.23**	**30.98**	**20.94**	**9.14**	**5.96**	**2**	**2**	**2**	**89.25**
JHARKHAND	**AJAY BARRAGE PROJECT**	Major	Not Applicable	Completed with liabilities in XII plan	UA	351.84	0	0	1975	255.01	10.7	12.32	7.15	12.42	20	5	0	322.6
JHARKHAND	**GUMANI BARRAGE PROJECT**	Major	Not Applicable	Completed with liabilities in XII plan	APD	0	3.8389	185.76	1976	110.88	18.48	15.45	4.236	3.352	33.35	5	0	190.76
JHARKHAND	**BATANE RESERVOIR SCHEME**	Medium	Not Applicable	Completed with liabilities in XII plan	UA	116.02	0	0	1984	30	5.16	0.5	4.75	2.96	3.6	3	0	49.97
JHARKHAND	**BHAIRWA RESERVOIR SCHEME**	Medium	Not Applicable	Completed with liabilities in XII plan	UA	122.64	0	0	1987	61.98	15.99	2.75	5.96	0	28	8	0	122.68
JHARKHAND	**KATRI RESERVOIR SCHEME**	Medium	Not Applicable	Completed with liabilities in XII plan	UA	47.97	0	0	1986	54.18	0.73	0.34	0	0	0	0	0	55.25
JHARKHAND	**Kesho Reservoir Scheme**	Medium	Not Applicable	Completed with liabilities in XII plan	UA	102.88	0	0	1988	4	24.98	20	4.5	14.05	30	5	0	102.53
JHARKHAND	**PANCHKHERO RESERVOIR SCHEME**	Medium	Not Applicable	Completed with liabilities in XII plan	APD	0	9.55	75.69	1990	40.28	17.16	8.25	2	0.59	11	5	0	84.28
JHARKHAND	**RAMREKHA RESERVOIR SCHEME**	Medium	Not Applicable	Completed with liabilities in XII plan	UA	53.86	0	0	1982	25.63	12.92	8.48	0.8	1.39	4	0.5	0	53.72
JHARKHAND	**TAJNA RESERVOIR SCHEME**	Medium	Not Applicable	Completed with liabilities in XII plan	APD	0	87.76	0	2011	0	0	0	0	0	25.23	62.53	0	87.76
				9		**795.21**	**101.14**	**261.45**		**581.96**	**106.12**	**68.09**	**29.39**	**34.76**	**155.18**	**94.03**	**0**	**1069.55**
KARNATAKA	**Almatti Left Bank Canal**	Major	Not Applicable	Completed with liabilities in XII plan	APD	0	79.42	182.26	1993	137.75	2.31	3.42	0.53	1.35	4	5.82	0	155.18
KARNATAKA	**TLBC**	Major	Not Applicable	Completed with liabilities in XII plan	UA	17.74	0	0	1950	294.57	21.42	18.45	191.7	360.12	354.57	350	0	1590.83
KARNATAKA	**Maskinala Project**	Medium	Not Applicable	Completed with liabilities in XII plan	UA	3.11	0	0	1976	47.42	1.23	1.03	1.33	1	1.45	5	0	58.46
				3		20.85	79.42	182.26		479.74	24.96	22.9	193.56	362.47	360.02	360.82	0	1804.47
MADHYA PRADESH	**Barchar Project**	Medium	Improvement of Water Management	Completed with liabilities in XII plan	UA	3.5	0	0	1981	18.14	0.53	0.924	0.149	0.11	0.17	0.23	0	20.253

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Table 17: State-wise & project-wise financial status of Major, Medium and EMR projects as reported completed with liabilities in XII plan

STATE	Project Name	Type of Project	Special Classification	Status	Approval Status	Un approved Cost	Original Cost	Latest Estimated Cost	Start Year	Upto X Plan	2007-08	2008-09	2009-10	2010-11	2011-12	Liability in XII Plan	Beyond XII plan	Cumm. Cost
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
MADHYA PRADESH	**MACHAK DISTRIBUTORY EXT PROJECT**	Medium	Not Applicable	Completed with liabilities in XII plan	UA	44.28	0	0	2003	15.31	7.28	0.78	0.1	0.3	0.54	6.34	0	30.65
MADHYA PRADESH	**Mahan Gulab sagar Medium Project**	Medium	Not Applicable	Completed with liabilities in XII plan	UA	3.11	0	486.96	1983	110.43	24.14	29.24	21.92	66.87	104	103.23	0	459.83
MADHYA PRADESH	**Mardan pur (LIS)**	Medium	Not Applicable	Completed with liabilities in XII plan	UA	16.28	0	0	2008	8.4	0	0	0	0	0	7.88	0	16.28
				4		**67.17**	**0**	**486.96**		**152.28**	**31.95**	**30.944**	**22.169**	**67.28**	**104.71**	**117.68**	**0**	**527.013**
MAHARASHTRA	**Bhima(Ujani)Project**	Major	Not Applicable	Completed with liabilities in XII plan	UA	1992.78	0	0	1965	1092.37	29.84	19	50.57	58.29	50	692.71	0	1992.78
MAHARASHTRA	**Pench Project**	Major	Not Applicable	Completed with liabilities in XII plan	UA	168.93	0	0	2008	0	0	8.129	1.7852	8.3418	20	168.33	0	206.586
MAHARASHTRA	**Amba**	Medium	Improvement of Water Management	Completed with liabilities in XII plan	UA	3.11	0	0	1970	16.96	0.186	0.228	0.43	0.235	0.625	25	0	43.664
MAHARASHTRA	**AMRAWATI PROJECT**	Medium	Not Applicable	Completed with liabilities in XII plan	APD	0	4.63	0	1985	46.76	1.58	0.74	1.41	0.8	10	18	0	79.29
MAHARASHTRA	**Benitura Medium Project**	Medium	Not Applicable	Completed with liabilities in XII plan	UA	45.56	0	0	1986	26.41	0.15	0.38	0.22	1	1	0	0	29.16
MAHARASHTRA	**Borghat L.I.S.**	Medium	Not Applicable	Completed with liabilities in XII plan	UA	121.46	0	0	2009	0	0	12.071	5.144	8.24	35	67.19	0	127.645
MAHARASHTRA	**Pothara Nalla Project**	Medium	Not Applicable	Completed with liabilities in XII plan	APD	0	63.08	0	1982	19.32	14.04	8.39	22.12	9.79	3	76.34	0	153
MAHARASHTRA	**Ruti Medium Project**	Medium	Not Applicable	Completed with liabilities in XII plan	UA	5.04	0	0	1999	1.77	0.53	0	0.07	0	1.52	1.15	0	5.04
				8		**2336.88**	**67.71**	**0**		**1203.59**	**46.32**	**48.93**	**81.74**	**86.69**	**121.14**	**1048.72**	**0**	**2637.165**
ORISSA	**Titilagarh Irrigation Project**	Medium	Not Applicable	Completed with liabilities in XII plan	APD	0	21.13	0	1995	44.09	24.67	19.86	30.46	2.24	2	10	0	133.32
				1		**0**	**21.13**	**0**		**44.09**	**24.67**	**19.86**	**30.46**	**2.24**	**2**	**10**	**0**	**133.32**
RAJASTHAN	**Gang Canal Modernization**	Major	Improvement of Water Management	Completed with liabilities in XII plan	APD	0	445.79	621.42	2000	339.6	41.52	24.94	16.57	10	50	138.79	0	621.42
RAJASTHAN	**Rajasthan Water Sector Restructuring Project (RWSRP)**	Major	Special Repairs not covered under ERM	Completed with liabilities in XII plan	APD	0	733.59	0	2002	433.47	85.09	66.8	99.18	55	100	137.46	0	977
RAJASTHAN	**Gagrin**	Medium	Improvement of Water Management	Completed with liabilities in XII plan	APD	0	80.12	0	2006	1.96	16.92	6.52	11.97	25	10	7.75	0	80.12
RAJASTHAN	**Gardada**	Medium	Improvement of Water Management	Completed with liabilities in XII plan	UA	3.11	0	0	2003	47.68	26.41	27.08	9.29	2.65	2.4	31.53	0	147.04
RAJASTHAN	**Lhasi**	Medium	Improvement of Water Management	Completed with liabilities in XII plan	APD	0	44.73	0	2007	0	21.97	9.25	10	10.25	15	25.53	0	92
RAJASTHAN	**Piplad**	Medium	Improvement of Water Management	Completed with liabilities in XII plan	APD	0	33.64	0	2006	2	4.32	9.55	15	21	10	3.31	0	65.18

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Table 17: State-wise & project-wise financial status of Major, Medium and EMR projects as reported completed with liabilities in XII plan

STATE	Project Name	Type of Project	Special Classification	Status	Approval Status	Un approved Cost	Original Cost	Latest Estimated Cost	Start Year	Upto X Plan	2007-08	2008-09	2009-10	2010-11	2011-12	Liability in XII Plan	Beyond XII plan	Cumm. Cost
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
RAJASTHAN	**Takli**	Medium	Improvement of Water Management	Completed with liabilities in XII plan	APD	0	51.81	0	2006	2	3.26	7.64	0.8	34.48	25	58.26	0	131.44
				7		**3.11**	**1389.68**	**621.42**		**826.71**	**199.49**	**151.78**	**162.81**	**158.38**	**212.4**	**402.63**	**0**	**2114.2**
UTTAR PRADESH	**SARYU NAHAR PROJECT**	Major	Not Applicable	Completed with liabilities in XII plan	APD	0	78.68	7270.32	1978	2245.13	280.99	270.42	80.2	167.54	339	3887.04	0	7270.32
				1		**0**	**78.68**	**7270.32**		**2245.13**	**280.99**	**270.42**	**80.2**	**167.54**	**339**	**3887.04**	**0**	**7270.32**
WEST BENGAL	**Tatko Irrigation Project (Revised)**	Medium	Improvement of Water Management	Completed with liabilities in XII plan	APD	0	0.9875	19.76	1977	10.2031	0.365	1.139	0.0729	0	4.6	3.7	0	20.08
				1			**0.9875**	**19.76**		**10.2031**	**0.365**	**1.139**	**0.0729**	**0**	**4.6**	**3.7**	**0**	**20.08**
	TOTAL	**9 MJ, 28MD, 1ERM**	**11 IWM, 26 NA, 1Spl. Rep.**	**38**	**19UA, 19APD**	**3223.22**	**1924.14**	**9228.72**		**5616.25**	**777.4**	**679.09**	**642.97**	**915.039**	**1340.18**	**6028.9**	**2**	**16001.86**

Source : Planning & progress Directorate, CWC

Table 18 : State-wise and Plan-wise Financial Expenditure on Major and Medium Irrigation

(Rs.Crores)

Sl. No.	Name of the State/Uts.	Ninth Plan (1997-02)	Tenth Plan (2002-07)	Actual Expenditure (2007-08)	Actual Expenditure (2008-09)	Revised Appoved Outlay (2009-10)	Revised Appoved Outlay (2010-11)	Actual Expenditure (2011-12)
1	**2**	**3**	**4**	**5**	**6**	**7**	8	9
1	Andhra Pradesh	4045.8	20434.2	11285.5	8097.9	13635.02	9072.3	9434.77
2	Arunachal Pradesh	1.7	2.2	0.5	0.5	0	0.6	0.72
3	Assam	213	106.2	23.3	80.9	84	36.2	225.47
4	Bihar	1621.9	1597.3	559.2	519.9	544.04	561.8	1352.41
5	Chhatisgarh	160.6	1503.4	444.4	586.7	469.1	720.1	293.96
6	Goa	224.2	571.5	118.2	117.5	92.3	107.2	107.41
7	Gujarat	5298.4	10496.2	4020.4	6907.6	4523.7	4560.1	5603.01
8	Haryana	1154.4	1297.8	662.6	705.2	710	575	681.18
9	Himachal Pradesh	65.1	153.9	96	80	85	62	126.85
10	Jammu & Kashmir	128.5	262.1	49.9	62.1	118	101.8	68.55
11	Jharkhad	167	1248.2	694.5	322.9	453	408	261.11
12	Karnataka	8700.5	16505.4	2058.4	2020.9	3163.42	3600	4567.39
13	Kerala	703.3	672	121.7	117.2	234	218	111.2
14	Madhya Pradesh	2203.7	5429.3	1941.1	1691.5	1694.71	2042.7	2612.61
15	Maharashtra	14807.3	10313.3	2982.5	6196.1	3548.54	6985.3	5685.45
16	Manipur	171.7	229.8	107.4	40.7	238.1	275.2	108.4
17	Meghalaya	10.7	2.8	0	0	0	0.2	0.55
18	Mizoram	0.1	0.1	0	0	0.01	0	0.01
19	Nagaland	0.9	0.1	0.1	0.1	0	0	3.05
20	Orissa	2331.2	2388.6	1298.4	1283.4	1354.9	1189.1	1157.98
21	Punjab	334.9	500.4	91.8	77.3	94.43	187.3	89.59
22	Rajasthan	1725.1	3028.8	595.3	586.6	538.6	447.5	455.11
23	Sikkim	2.2	0	0	0	0	0	0
24	Tamil Nadu	1218.5	1091	220.4	384.1	432.36	324.4	427.07
25	Tripura	32.4	41.7	6.1	9.7	26.99	58.8	27.63
26	Uttar Pradesh	3014.7	4876.1	1695.2	1971.1	1979.78	1831.7	1660.57
27	Uttarakhand	61	316.9	127.8	216.3	310.26	399.7	256.62
28	West Bengal	667.8	293.1	98.3	118.9	362.7	362.7	149.69
Total for States		49066.7	83361.9	29298.7	32194.9	34692.96	34127.5	35468.36
Total for U.Ts.		4.2	4	0.1	1.1	0.1	1.1	6.27
Total States & U.Ts.		49070.9	83365.9	29298.8	32196	34693.06	34128.6	35474.63
Central Sector		218.7	281.2	91.8	145.8	189.2	181.5	189.85
GRAND TOTAL		**49289.6**	**83647.1**	**29390.6**	**32341.8**	**34882.28**	**34310.11**	**35664.48**

Source : Planning and Progress Directorate, CWC

Table 19: State-wise and Plan-wise Financial Expenditure on Flood Management Work

(Rs Crores)

Sl. No.	State/ UT	During IX Plan (1997-02)	Upto IX Plan (1997-02)	During X Plan (1902-07)	Upto X Plan (1902-07)	Actual Expendi-ture (2007-08)	Actual Expendi-ture (2008-09)	Revised Approved Outlay (2009-10)	Revised Approved Outlay (2010-11)	Actual Expendi-ture (2011-12)
1	2	3	4	5	6	7	8	9	10	11
1	Andhra Pradesh	214.64	676.91	255.04	931.95	252.32	209.46	242.33	202.70	302.99
2	Arunachal Pradesh	20.07	47.72	35.85	83.57	5.95	46.10	36.14	70.39	39.76
3	Assam	73.66	322.19	136.79	458.98	86.88	103.47	158.33	60.00	901.81
4	Bihar	316.98	1044.57	474.37	1518.94	232.18	670.47	408.44	412.03	462.96
5	Chhatisgarh	0.09	0.09	3.02	3.11	3.70	3.34	8.00	5.00	25.17
6	Goa	6.61	11.99	29.81	41.80	18.10	37.94	59.46	69.90	61.75
7	Gujarat	15.60	70.21	7.76	77.97	90.13	84.05	177.05	112.32	66.46
8	Haryana	93.62	390.51	252.56	643.07	69.98	86.00	86.00	73.40	127.05
9	Himachal Pradesh	31.05	51.64	79.08	130.72	22.79	27.52	46.75	105.00	46.91
10	Jammu & Kashmir	76.35	244.66	127.91	372.57	7.23	9.83	26.68	30.33	99.10
11	Jharkhand	0.00	0.00	125.97	125.97	4.11	2.12	15.00	15.00	12.14
12	Karnataka	51.81	109.35	50.68	160.03	19.37	13.70	16.70	16.30	26.50
13	Kerala	116.44	305.75	41.45	347.20	41.05	24.57	44.11	30.35	0.57
14	Madhya Pradesh	14.71	18.92	14.48	33.40	13.30	9.87	8.00	10.00	7.11
15	Maharashtra	8.01	115.85	17.44	133.29	9.78	17.36	16.76	15.85	5.68
16	Manipur	32.14	81.76	48.55	130.31	18.08	27.38	131.54	167.58	49.28
17	Meghalya	12.04	22.51	10.05	32.56	2.26	3.12	2.00	2.50	2.66
18	Mizoram	0.00	1.11	0.00	1.11	0.00	0.00	0.0	0.00	1.50
19	Nagaland	0.44	1.40	14.40	15.80	7.08	4.44	0.43	0.68	28.55
20	Orissa	53.50	160.20	15.39	175.59	53.50	38.69	142.75	154.50	211.89
21	Punjab	349.56	703.35	126.08	829.43	43.57	109.97	111.50	45.22	30.75
22	Rajasthan	28.45	132.71	28.34	161.05	1.86	1.62	1.50	2.00	2.15

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Table 19: State-wise and Plan-wise Financial Expenditure on Flood Management Work

(Rs Crores)

Sl. No.	State/ UT	During IX Plan (1997-02)	Upto IX Plan (1997-02)	During X Plan (1902-07)	Upto X Plan (1902-07)	Actual Expendi-ture (2007-08)	Actual Expendi-ture (2008-09)	Revised Approved Outlay (2009-10)	Revised Approved Outlay (2010-11)	Actual Expendi-ture (2011-12)
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**
23	Sikkim	8.36	11.61	15.89	27.50	5.95	16.88	6.83	9.20	11.86
24	Tamil Nadu	0.00	34.70	0.00	34.70	0.00	0.00		155.39	
25	Tripura	26.73	56.94	34.86	91.80	11.55	9.22	12.62	1.86	1.57
26	Uttar Pradesh	139.88	495.00	909.64	1404.64	301.13	314.97	256.50	298.45	362.08
27	Uttarakhand	3.52	3.52	83.42	86.94	23.62	18.14	6.50	5.50	
28	West Bengal	653.69	1220.57	418.89	1639.46	146.19	140.90	78.55	78.55	252.69
	Total States	**2348.73**	**6335.74**	**3357.72**	**9693.46**	**1491.66**	**2031.13**	**2099.47**	**2150.00**	**3140.94**
29	A & N Island	0.00	2.52	12.38	14.90	2.02	2.94	4.09	9.61	8.18
30	Chandigarh	0.00	0.00	0.55	0.55	0.00	0.00	0.00	0.00	0.00
31	Dadar & N. Haveli	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
32	Daman & Diu	1.36	3.21	1.33	4.54	0.36	0.16	0.25	0.30	2.30
33	Delhi	77.92	289.71	106.20	395.91	0.00	41.84	37.20	37.80	49.33
34	Lakshadweep	18.39	31.21	16.21	47.42	4.65	4.00	6.00	4.00	2.55
35	Puducherry	23.19	44.23	106.99	151.22	27.60	14.83	48.27	24.24	18.29
Total U.Ts.		120.86	370.88	243.66	614.5	35.63	63.77	95.81	75.95	80.65
Total States & Uts		2469.59	6706.62	3601.38	10308.00	1527.29	2094.90	2195.28	2225.95	3221.59
Central Sector		453.70	3229.95	742.80	3972.75	97.69	250.36	274.30	287.00	244.30
GRAND TOTAL		**2923.29**	**9936.57**	**4344.18**	**14280.75**	**1624.98**	**2345.26**	**2469.58**	**2512.95**	**3465.89**

Source: Planning & Progress Directorate, CWC

Note: - Total may not tally due to rounding off

Table 20: State-wise Abstract of New Projects under Appraisal

Sl. No.	Name of States	MAJOR	MEDIUM	TOTAL
1	2	3	4	5
1	Andhra Pradesh	1	0	1
2	Arunachal Pradesh	0	0	0
3	Assam	0	1	1
4	Bihar	3	0	3
5	Chattisgarh	2	0	2
6	Goa, Daman, Diu	0	0	0
7	Gujarat	0	0	0
8	Haryana	0	0	0
9	Himachal Pradesh	0	0	0
10	J & K	0	0	0
11	Jharkhand	0	0	0
12	Karnataka	2	1	3
13	Kerala	1	0	1
14	Madhya Pradesh	7	15	22
15	Maharashtra	4	2	6
16	Manipur	0	0	0
17	Meghalaya	0	0	0
18	Mizoram	0	0	0
19	Nagaland	0	0	0
20	Odisha	0	0	0
21	Punjab	0	0	0
22	Rajasthan	0	1	1
23	Sikkim	0	0	0
24	Tamil Nadu	1	0	1
25	Telangana	1	0	1
26	Uttar Pradesh	1	1	2
27	Uttarakhand	0	0	0
28	West Bengal	0	0	0
	Total	23	21	44

Source : Central Water Commission, PA(N), PAO

Table 21: State-wise Abstract of Revised Projects under Appraisal

Sl. No.	Name of States	MAJOR	MEDIUM	TOTAL
1	2	3	4	5
1	Andhra Pradesh	0	0	0
2	Arunachal Pradesh	0	0	0
3	Assam	0	1	1
4	Bihar	1	0	1
5	Chhattisgarh	0	0	0
6	Goa, Daman, Diu	0	0	0
7	Gujarat	0	0	0
8	Haryana	0	0	0
9	Himachal Pradesh	0	0	0
10	J & K	0	0	0
11	Jharkhand	0	0	0
12	Karnataka	1	0	1
13	Kerala	0	0	0
14	Madhya Pradesh	4	4	8
15	Maharashtra	2	0	2
16	Manipur	0	0	0
17	Meghalaya	0	0	0
18	Mizoram	0	0	0
19	Nagaland	0	0	0
20	Orissa	0	0	0
21	Punjab	0	0	0
22	Rajasthan	1	0	1
23	Sikkim	0	0	0
24	Tamil Nadu	0	0	0
25	Tripura	0	0	0
26	Uttar Pradesh	1	0	1
27	Uttarakhand	1	0	1
28	West Bengal	0	0	0
	Total	11	5	16

Source : Central Water Commission, PA(N), PAO

Table 22 Details of Projects Accepted by Advisory Committee of MoWR, RD & GR 117th Meeting to till date

Sl.No	Meeting Number	Date of Meeting	Project Name	State	Major/ Medium	Estimated Cost in Rs. crore	Benefits in ha	Date of Approval by Planning Commission
1	2	3	4	5	6	7	8	9
1	117th	21.03.2013	Protection of Brahmaputra dyke from Sissikalghar to Tekeliphuta at different reaches from Lotasur to Tekeliphuta from the erosion of river Brahmaputra (review)	Assam	Flood control	155.87 (PL 2011-12)	Area protected = 10117 ha & Population 5,00,000	
2	117th	21.03.2013	Delija Dewada Medium Irrigation project	Madhya Pradesh	NEW Medium - ERM	17.49 (PL 2009)	7200 (Restoration 3600)	
3	117th	21.03.2013	Anandapur Barrage project (Phase -II) of Odisha (Integrated Anandapur Barrage Project)	Orissa	Major - Revised	1457.63 (PL 2010-11)	56,720	
4	117th	21.03.2013	Salandi Sanskar Project of Odisha (Integrated Anandapur Barrage Project).	Orissa	Major - Revised	145.77 (PL 2010-11)	Annual irrigan=7822 ha, Area protected = 250000 ha & Population 13,50,000	
5	117th	21.03.2013	Madhya Ganga Canal project Stage -II	Uttar Pradesh	Major - Revised	2865.11 (PL 2011)	146,532	21.06.2013
6	117th	21.03.2013	River Training works (Marginal Bunds & Studs) for protection of population and Agriculture Land , situated along both banks of River Solani of villages Rampur , Ibrhimpur , Solanipuram, Jamalpur etc in district Haridwar.	Uttarakhand	Flood control	33.19 (PL 2012-13.)	Area protected = 475 ha & Population 40,000	
7	118th	30.07.2013	Scheme for Extension of Embankment from Manoubar to Phuhia with protection work at vulnerable points and brick Soling Road on top of embankment in between 96.50 km to 110.48 km of Right Kamla Balan embankment in Darbhanga, Saharsa and Samastipur Districts in Bihar.	Bihar	Flood control	56.65 (PL-Oct,2012)	Area protected = 0.46 lakh & Population 225000	18.11.2013
8	118th	30.07.2013	Bagmati Flood Management Scheme Phase-IV (a)	Bihar	Flood control	73.45 (PL-Oct,2012)	Area protected = 4.39 lakh & Population 340000	18.11.2013
9	118th	30.07.2013	Anti-Erosion work for Restoration of Spur No.2,3,4,5 & 7: Boulder Revetment at toe of embankment in upstream and downstream of Spur No.6 in a length of 800m with 4 Nos. additional Spur in Ismailpur - Bindtoli Embankment on left bank of river Ganga.	Bihar	Flood control	38.83 (PL-Oct,2012)	Area protected = 42428 ha. & Population 200000	18.11.2013

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Table 22 Details of Projects Accepted by Advisory Committee of MoWR, RD & GR 117th Meeting to till date

Sl.No	Meeting Number	Date of Meeting	Project Name	State	Major/ Medium	Estimated Cost in Rs. crore	Benefits in ha	Date of Approval by Planning Commission
1	2	3	4	5	6	7	8	9
10	118th	30.07.2013	Bagaha Town Protection scheme (Phase-II) on the left bank of river Gandak in West Champaran district of Bihar	Bihar	Flood control	59.46 (PL-Oct,2012)	Area protected = 2500 ha. & Population 100000	18.11.2013
11	118th	30.07.2013	Project for construction of studs and marginal bund for protection of population and agricultural land of villages situated at Banks of river Ganga in District Haridwar	Uttarakhand	Flood control	34.85 (PL-2012-13)	Area protected = 4344 ha. & Population 12360	07.08.2013 Planning Commission has approved for Rs.33.19 Cr.
12	118th	30.07.2013	Swan River Flood Management Project from Daulatpur bridge to Gagret bridge in main Swan river & all tributories joining main Swan river from Gagret bridge to Santokhgarh bridge	Himachal Pradesh	Flood control	922.485 (PL-March,2013)	Area protected = 7163.49 ha. & Population 235834	20.09.2013
13	118th	30.07.2013	Project for Channelisation of Chhounchh Khad in Tehsil Indora, District Kangra, Himachal Pradesh	Himachal Pradesh	Flood control	179.59 (PL-March,2013)	Area protected = 1740.30 ha. & Population 8175	14.10.2013
14	118th	30.07.2013	Flood Management of River Dikrong along with river training works on both banks Embankment in Lakhimpur Districts of Assam.	Assam	Flood control	105.96 (PL-2011-12)	Area protected = 9998 ha. & Population 210700	
15	118th	30.07.2013	Flood Management of river Ranganadi along with River Training works on both bank embankments in Lakhimpur District (Assam)	Assam	Flood control	361.42 (PL-2011-12)	Area protected = 21056 ha. & Population 398275	
16	119th	29.08.2013	Flood Protection works to be executed along Indo Pak border on river Ravi & it's tributary Ujh, to check land erosion for the safety of village Abadies, border fencing and other defense installations	Punjab	Flood control	161.05 (PL-Dec,2011)	Area protected = 55597 ha. & Population 18000	07.10.2013
17	119th	29.08.2013	Dhansiri Irrigation Project	Assam	Major - Revised	567.05 (PL-2011-12)	83366	
18	119th	29.08.2013	Singda Multipurpose Project	Manipur	Medium-ERM	34.62 (PL-2011-12)	3000	10.12.2013
19	119th	29.08.2013	Lift Canal system of Upper Indravati Irrigation Project	odisha	Major - New	986.71 (PL-2012-13)	43047	
20	119th	29.08.2013	Lower Indra Irrigation Project	odisha	Major - Revised	1624.49 (PL-2012-13)	38870	

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Table 22 Details of Projects Accepted by Advisory Committee of MoWR, RD & GR 117th Meeting to till date

Sl.No	Meeting Number	Date of Meeting	Project Name	State	Major/ Medium	Estimated Cost in Rs. crore	Benefits in ha	Date of Approval by Planning Commission
1	2	3	4	5	6	7	8	9
21	119th	29.08.2013	Ret Medium Irrigation Project	odisha	Medium - Revised	433.39 (PL-2012)	9775	
22	120th	13.09.2013	Proposed Flood Protection works along left bank of river Yamuna in district Baghpat and Ghaziabad	Uttar Pradesh	Flood control	44.89 (PL-Nov,2012)	Area protected = 5600 ha. & Population 120000	08.11.2013
23	120th	13.09.2013	Anti-Erosion Work along the bank of river Haura for protection of vulnerable locations from Chapaknagr to Baldakhal under Sadar Sub-Division of West Tripura District	Tripura	Flood control	42.96 (PL-2011)	Area protected = 1959 ha. & Population 18337	
24	120th	13.09.2013	Parwan Irrigation cum drinking water supply scheme	Rajasthan	Major - New	2435.93 (PL-2011-12)	99864	
25	121st	08.10.2013	ERM of Narayanpur Left Bank Canal System, Karnataka	Karnataka	Major-ERM	3752.18 (2012-13)	408703 (Restoration 142580)	
26	121st	08.10.2013	Upper Tunga Project	Karnataka	Major-New	2561.88 (2012-13)	94,698	
27	121st	08.10.2013	Anti- Erosion Work along the bank of river Khowai for protection of vulnerable locations from Netajinagar (Brahma Cherra) to Banglahour under Teliamura Sub Division and from South L.N.Pur to Paharmura Bridge under Khowai Sub Division of West Tripura District.	Tripura	Flood control	91.02 (2011)	Area protected = 4256 ha. & Population 38693	
28	121st	08.10.2013	Anti- Erosion Work along the bank of river Gumti for protection of vulnerable locations from Dalak Samatal Para to Durgapur under Amarpur, Udaipur and Sonamura Sub Division of South Tripura & West Tripura District	Tripura	Flood control	54.99 (2011)	Area protected = 2209 ha. & Population 25326	
29	122nd	20.12.2013	Rukura Medium Irrigation Project	Odisha	Medium-Revised	256.09 (2013)	5,750	
30	122nd	20.12.2013	Loktak Lift Irrigation Scheme	Manipur	Major-ERM	25.56 (2011)	24000 (Restoration 12600)	
31	122nd	20.12.13	Mahi Irrigation Project	Madhya Pradesh	Major-Revised	834.24 (2009)	28,127	
32	123rd	30.01.2014	Karanja Irrigation Project	Karnataka	Major-Revised	635.18 (2012-13)	29,227	
33	123rd	30.01.2014	Kanupur Irrigation Project	Odisha	Major-Revised	1801.25 (2013)	47,709	
34	123rd	30.01.2014	Rengali Irrigation Sub Project -Right Bank Canal	Odisha	Major-Revised	1962.33 (2013)	143,490	

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Table 22 Details of Projects Accepted by Advisory Committee of MoWR, RD & GR 117th Meeting to till date

Sl.No	Meeting Number	Date of Meeting	Project Name	State	Major/ Medium	Estimated Cost in Rs. crore	Benefits in ha	Date of Approval by Planning Commission
1	2	3	4	5	6	7	8	9
35	123rd	30.01.2014	Subarnarekha Irrigation Project	Odisha	Major-Revised	5561.57 (2013-14)	187,462	
36	123rd	30.01.2014	Thoubal Multipurpose Project	Manipur	Major-Revised	1694.27 (2011)	35,160	26.02.2014
37	123rd	30.01.2014	Flood Protection Scheme to Protect Villages, Canals and Roads from River Koshi in Betal ghat Block, District Nainital	Uttarakhand	Flood Control	31.21 (2011-12)	500 ha, Population-10,000	21.03.2014
38	123rd	30.01.2014	Project for Flood Protection Work along River Song and its Tributaries from D/S of the Confluence of River Jakhan and River Song upto Ganga river in Doiwala Block of District Dehradun	Uttarakhand	Flood Control	34.26 (2012-13)	181.3 ha, Population-4725	
39	123rd	30.01.2014	Project Report for River Jakhan from village Rani Pokhari to Confluence with Song River in Doiwala Block of District Dehradun	Uttarakhand	Flood Control	33.95 (2012-13)	229.50 ha, Population-4725	
40	123rd	30.01.2014	Flood Protection Work of Bindal River from Cantt. Road to Mothronwala in District Dehradun	Uttarakhand	Flood Control	46.4216 (2012-13)	57.55 ha, Population-25,000	
41	123rd	30.01.2014	Project for Flood Protection Work along Suswa River in Doiwala Block of District Dehradun	Uttarakhand	Flood Control	98.00 (2012-13)	1865 ha, People-40,000	
42	123rd	30.01.2014	Karnataka Integrated and sustainable Water Resources Management Investment Program (KISWRMIP), Tranche-1	Karnataka	Medium ERM	118.75 (2012-13)	7,500	
43	124th	16.10.2014	Integrated Flood and River Bank Erosion Management Works at Rohmoria	Assam	Flood Control	78.48 (2013-14)	36000 Population - 1,80,000	
44	124th	16.10.2014	Bagaha town protection works (Phase-I) on the left bank of river Gandak in West Champaran District	Bihar	Flood Control	90.78 (2013-14)	4000 Population - 1,00,000	
45	124th	16.10.2014	Bagaha Town Protection Scheme (Phase-III) on the left bank of river Gandak in West Champaran district	Bihar	Flood Control	75.71 (2012)	2500 Population - 1,00,000	
46	124th	16.10.2014	Modernisation of Thannermukkom Barrage	Kerala	Flood Control	255.34 (2012)	55874.38 Population - 14,00,000	
47	124th	16.10.2014	Kachhal Irrigation Project	Madhya Pradesh	Revised-Medium	91.39 (2009)	3,470	
48	124th	16.10.2014	Telengiri Irrigation Project	Odisha	Medium-Revised	613.71 (2013)	13,829	
49	124th	16.10.2014	Rengali Irrigation sub-project LBC-II (RD 29.177 Km to 141.00 Km)	Odisha	Major-Revised	3603.67 (2013)	177651	

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Table 22 Details of Projects Accepted by Advisory Committee of MoWR, RD & GR 117th Meeting to till date

Sl.No	Meeting Number	Date of Meeting	Project Name	State	Major/ Medium	Estimated Cost in Rs. crore	Benefits in ha	Date of Approval by Planning Commission
1	2	3	4	5	6	7	8	9
50	124th	16.10.2014	Kanhar Irrigation Project	Uttar Pradesh	Major-Revised	2252.29(2013-14)	35467	
51	124th	16.10.2014	Project for construction of Marginal bund in Ramraj Khadar along right bank of river Ganga in the District of Muzaffarnagar	Uttar Pradesh	Flood Control	29.39 (2012)	7500 Population-40,000	
52	124th	16.10.2014	Protection Work on both bank of Bhagirathi river at Uttarkashi in District Uttarkashi	Uttarkhand	Flood Control	48.814 (2013)	13.50 105 Houses	
53	124th	16.10.2014	River Training Works including miscellaneous associated works on both banks of Bhagirathi river as per requirement from Jhulapul to Tioth bridge execluding proposed works on left from Tiloth bridge to Switchyard of Maneri Bhali-I at Uttarkashi	Uttarkhand	Flood Control	76.71 (2013)	37.50 165 Houses	
54	124th	16.10.2014	Project for construction of Studs and Marginal Bund for protection of population and agricultural land from Banjarewala to Alawalpur villages situated at banks of River Solani in Distt. Haridwar,	Uttarkhand	Flood Control	38.898 (2014)	707 Population-23068	
55	124th	16.10.2014	Flood Protection Scheme of Villages from Dakpathar Barrage to NH-72 Kulhal Paonta Sahib Bridge from River Yamuna (Left Bank) in Vikasnagar Block Distt. Dehradun,	Uttarkhand	Flood Control	77.349 (2014)	400 Population protected 10850	
56	124th	16.10.2014	Project for Anti-Erosion & drainage work of Udmadi Rao Nala from Village-Kheda Pachhawa to Village-Fatehpur (Aasan River) in Vikasnagar Block Distt.-Dehradun,	Uttarkhand	Flood Control	34.05 (2014)	270 Population Protected 2200	
57	124th	16.10.2014	Project for Flood Protection Works from Hilly Shivalik Range Originated Nalas (Between Villages Sekhuwala to Prateetpur) in Vikasnagar Block Distt.-Dehradun,	Uttarkhand	Flood Control	31.25 (2014)	178 Population Protected 20000	
58	124th	16.10.2014	Scheme for Flood protection of the villages from River Asaan (Between Sahaspur-Sabhawala Bridge to Kunja Grant) in Vikasnagar Block, Distt-Dehradun,	Uttarkhand	Flood Control	57.74 (2014)	220 Population Protected 1850	

Source : Central Water Commission, PA(N), PAO

Table 23 Project-wise Irrigation Created (IPC) under AIBP

(Potential in Th. Ha.)

State	Sr. No	State/Project Name	Project Potential			Irrigation Potential created under AIBP during2013-14	Potential Created under AIBP upto 3/2014
			Ultimate Potential	Created before AIBP	Target for AIBP		
1	2	3	4	5	6	7	8
ANDHRA PRADESH							
	C1	Cheyyeru(Annamaya)	7.890	0.000	9.105		9.105
	C2	Somasila	38.475	0.000	38.475		39.774
	C3	Madduvalasa	99.280	0.000	10.000		10.000
	C4	Maddigedda	2.520	1.105	1.415		1.415
	x5	Kanupur Canal	7.638	7.077	0.561		0.000
	6	Yerrakalva Res.	9.996	3.035	6.961	0.000	5.060
	C7	Vamsdhara St-II Ph I	25.203	8.100	17.103		24.487
	8	Tadipudi LIS	83.609	0.000	83.609	3.423	62.138
	9	Pushkara LIS	75.235	4.051	71.184	0.381	53.980
	10	Gundlakdamma	32.400	0.000	32.400	0.000	23.440
	C11	Veligallu	9.713	0.000	9.713	0.000	9.713
	12	Thotapally Barrage	48.563	0.000	48.563	0.000	25.900
	13	Tarakarama thirtha Sagaram	10.000	0.000	10.000	0.000	0.000
	C14	Swarnamukhi	4.656	0.000	4.656		3.651
	15	Musurumilli	9.164	0.000	9.164	0.000	6.537
	16	Indira Sagar (Polavaram)	436.000	0.000	436.000	0.000	0.000
		Total	**900.342**	**23.368**	**788.909**	**3.804**	**275.200**
ASSAM							
	C1	Pahumara	12.955	1.200	11.755		10.551
	C2	Hawaipur lift	3.887	0.000	3.887		3.887
	C3.	Rupahi Lift	5.668	0.000	2.768		2.768
	4	Dhansiri	83.366	15.000	68.366		30.258
	5	Champamati	24.994	0.000	24.994		10.016
	6	Borolia	13.562	0.000	13.562		3.300
	C7	Boradikarai	34.042	25.452	7.406		7.203
	8	Burhi Dihing lift	5.054	0.564	4.490		1.861
	C9	Intg. Irr. Scheme in Kallong Basin	34.400	25.753	8.647		4.415
	C10	Kallonga	2.690	0.000	2.690		0.000
	C11	Mod. of Jamuna Irr.	42.014	28.256	13.758		12.700
		Total	**262.632**	**96.225**	**162.323**	**0.000**	**86.959**
BIHAR							
	1	Western Kosi	234.800	22.750	212.050		145.675
	C2	Upper Kiul	19.000	7.320	11.680		10.680
	3	Durgawati	36.317	16.020	20.297		3.300
		Bansagar	94.000	0.000	94.000		0.000
	C4	Orni Reservoir	9.717	0.160	9.557		9.459
	C5.	Bilasi Reservoir	4.00	0.00	4.00		4.000
	C6	Sone Modernisation	900.00	585.42	314.58		290.580
	7	Batane	12.13	7.32	4.81		0.000
	8	Punpun	13.68	0.00	13.68	3.68	3.680
	C9	Restoration of Kosi Barrage and its	0.00	792.00	0.00		0.000
		Total	**1323.64**	**1430.99**	**684.65**	**3.68**	**467.37**
CHHATTISGARH							
	C1	Hasdeo Bango	392.00	122.50	86.50		86.500
	C2	Shivnath Diversion	5.87	0.63	5.24		5.238
	C3	Jonk Diversion	14.57	5.00	9.57		7.870
	C4	Koserteda	11.12	0.00	11.12		11.120
	C5	Mahanadi Res Project	264.31	250.43	13.88		13.760
	C6	Barnai	2.82	1.31	1.51		1.508
	C7	Minimata (Hasdeo Bango Ph. IV)	40.87	2.47	38.40		38.400
	8	Kelo Project	22.81	0.00	22.81		6.431
	9	Kharung(ERM)	15.80	5.50	10.30		7.100
	10	Sutiapat	6.96	4.06	2.90		2.000
	11	Maniyari Tank (ERM)	14.52	3.04	11.48		2.478
		TOTAL	**791.65**	**394.94**	**213.71**	**0.00**	**182.41**

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Table 23 Project-wise Irrigation Created (IPC) under AIBP

(Potential in Th. Ha.)

State	Sr. No	State/Project Name	Project Potential			Irrigation Potential created under AIBP during2013-14	Potential Created under AIBP upto 3/2014
			Ultimate Potential	Created before AIBP	Target for AIBP		
1	2	3	4	5	6	7	8
GOA							
	C1	Salauli Ph-I	14.11	4.81	9.30		9.300
	2	Tillari	14.52	0.00	14.52	1.16	11.166
			28.63	**4.81**	**23.82**	**1.16**	**20.47**
GUJARAT							
	1	Sardar Sarovar	1792.00	0.00	1792.00	274.78	948.258
	C2	Jhuj	5.81	2.91	2.91		2.907
	C3	Sipu	22.08	19.67	1.02		1.016
	C4	Mukteshwar	6.19	0.57	5.07		5.066
	C5	Harnav - II	3.44	2.94	0.00		0.000
	C6	Umaria	2.37	2.06	0.16		0.162
	C7.	Damanganga	51.65	42.59	6.69		6.686
	C8	Karjan	70.38	55.73	5.99		5.989
	C9	Sukhi	25.25	21.59	3.49		3.488
	C10	Deo	8.53	7.58	0.10		0.103
	C11	Watrak	16.87	12.57	3.71		3.714
	C12	Aji-IV	3.75	0.00	3.75		3.750
	C13	Ozat-II	9.40	0.00	1.80		3.338
	C14	Brahmini-II	2.06	0.00	2.06		2.062
	C15	Bhadar-II	8.57	0.00	1.50		6.000
		Total	**2028.35**	**168.21**	**1830.24**	**274.78**	**992.54**
HARYANA							
	C1	Gurgaon Canal	81.00	61.00			0.000
	C2	WRCP	155.50	23.53	131.97		115.222
	x3	J. L. N. Lift Irr.	164.00	95.00	69.00		0.000
		Total	**400.50**	**179.53**	**200.97**	**0.00**	**115.22**
HIMACHAL PRADESH							
	1	Shahnehar Irr. Project	24.76	0.00	24.76	1.56	24.761
	2	Sidhata	5.35	0.00	5.35	2.80	5.344
	C3	Changer Lift Irr. Project	3.04	0.00	3.04		3.041
	4	Balh Vally (Left Bank)	4.35	0.00	4.35	1.18	4.355
		Total	**37.505**	**0.00**	**37.505**	**5.55**	**37.501**
JAMMU & KASHMIR							
	C1	Marwal Lift*	11.42	0.03	11.39		0.000
	C2	Lethpora Lift*	3.20	0.54	2.66		2.656
	C3	Koil Lift*	2.30	0.15	2.15		0.000
	4	Mod. of Ranbir Canal*	15.27	1.60	13.67		12.894
	5	Mod. of New Pratap Canal*	13.31	10.51	2.62		2.798
	C6	Mod. of Kathua Canal	3.30	0.09	3.21		3.207
	7	Rajpora Lift	2.43	0.00	2.43		1.714
	8	Tral Lift	6.00	0.00	6.00		2.790
	C9	Igophey Irr. Pr.	4.37	0.90	3.47		3.473
	C10	Rafiabad High Lift Irr.	2.93	0.00	2.93		2.932
	C11	Mod. of Zaingir Canal	2.14	0.00	2.14		2.140
	12	Mod. Of Dadi Canal	4.65	2.08	2.57		2.649
	C13	Mod. Of Martand Canal	6.50	4.71	1.79		1.789
	C14	Mod. Of Mav Khul	9.35	6.81	2.55		2.547
	C15	Mod. of Babul Canal	3.08	2.39	0.69		0.289
	16	Mod. Kandi Canal	3.23	0.00	3.23		0.000
	17	Prakachik Khows Canal	2.26	0.00	2.26		1.500
	18	Mod. Of Ahji Canal	8.32	6.90	1.42		1.480
	19	Restoration & Mod. Of Main Ravi Canal	50.75	12.23	38.52		8.500
		Total	**154.80**	**48.93**	**105.691**	**0.00**	**53.36**
JHARKHAND							
	1	Gumani	16.19	0.00	16.19		0.000
	x2	Torai +	8.00	0.00	8.00		0.000
	C3	Latratu	9.90	3.80	6.10		6.100

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Table 23 Project-wise Irrigation Created (IPC) under AIBP

(Potential in Th. Ha.)

State	Sr. No	State/Project Name	Project Potential			Irrigation Potential created under AIBP during2013-14	Potential Created under AIBP upto 3/2014
			Ultimate Potential	Created before AIBP	Target for AIBP		
1	2	3	4	5	6	7	8
	C4	Kansjore	6.26	0.00	6.26		6.264
	5	Sonua	8.01	0.00	8.01		0.000
	6	Surangi	2.60	0.00	2.60		0.000
	C7.	Tapkara Reservoir	1.86	0.04	1.82		1.520
	8	Upper Sankh	7.07	0.00	7.07		0.400
	9	Panchkhero	3.09	0.00	3.09		0.000
	10	Subernarekha Multipurpose	236.85	2.20	234.65		4.300
		Total	**299.83**	**6.04**	**293.79**	**0.00**	**18.58**
KARNATAKA							
	1	Upper Krishna St.I	458.89	215.00	243.90	0.00	148.799
	2	Malaprabha	196.13	151.82	44.31	0.00	44.215
	C3	Hirehalla	8.33	0.00	8.33		4.180
	C4	Ghataprabha St.III	177.82	38.10	148.80		111.574
	5	Karanja	35.61	4.67	30.94	0.00	18.119
	6	Upper Krishna St.II	197.12	18.80	178.32	0.00	165.287
	C7	Gandori Nala	8.09	0.00	8.09		7.943
	C8	Maskinallah	3.00		3.00		3.502
	C9	Votehole	7.49	7.49	0.00		0.000
	10	Varahi	15.70	0.14	15.56	0.40	0.928
	11	Dudhganga	15.17	3.80	11.37	0.00	0.000
	12	Mod. Canal System of Bhadra Reservoir	177.34	153.22	24.11	0.00	21.708
	13	Hipparagi LIS	74.74	0.00	74.74	12.29	71.066
	14	Restoration Bhimasamundra Tank	3.60	2.80	0.80	0.00	0.000
	15	Bhima LIS	24.29	0.00	24.29	5.69	11.694
	16	Guddada Malapura Lift	5.26	0.00	5.26	2.95	2.950
	17.	Upper Tunga Irrigation Project	80.49	55.04	25.45		0.000
	18.	Sri Rameswar Irrigation	13.80	12.56	1.24		0.000
	19.	NLBc System Project(New ERM)	408.70	303.70	105.00		0.000
		Total	**1911.59**	**967.15**	**953.53**	**21.33**	**611.965**
KERALA							
	C1	Kallada	80.58	43.78	9.28		9.276
	2	Muvattupuzha	37.74	4.90	32.11	1.04	27.398
	3	Karapuzha	9.87	0.00	9.87	0.00	0.608
	4	Kanhirapuzha	9.71	8.47	1.25	0.39	2.585
	5	Chitturpuzha	16.94	11.98	4.96	0.44	9.640
		Total	**154.84**	**69.121**	**57.47**	**1.87**	49.507
MADHYA PRADESH							
	1	Indira Sagar Unit II (Ph I & II)	169.00	0.00	62.20	2.75	51.950
		Indira Sagar Canal Ph. III	20.70	0.00	20.70	0.00	3.000
		Indira Sagar Unit IV	19.60	0.00	19.60	0.00	0.000
		Indira Sagar Unit V	33.14	0.00	33.14	9.39	9.387
	C2	Bansagar Unit-I	0.00	0.00	0.00		0.000
		Bansagar Unit-II	249.36	0.00	154.54	7.31	148.874
	C3	Upper Wainganga	105.30	70.00	28.26		28.255
	C	Rajghat Dam	0.00	0.00	0.00		0.000
	4	Sindh Phase II	162.10	3.05	159.05	15.18	99.575
	C5	Sindh Phase I	44.90	31.98	10.58		5.212
	6	Mahi	33.75	0.00	33.75		27.514
	7	Bariarpur LBC	43.85	0.00	43.85	3.50	42.360
	C8	Urmil RBC	7.70	4.88	2.12		2.123
	C9.	Banjar	2.40	1.33	1.10		1.095
	10	Bawanthadi	29.41	0.00	29.41	0.00	29.168
	11	Mahan	19.74	0.00	19.74	0.00	14.550
	12	Omkareshwar Ph - I	24.00	0.00	24.00	0.00	22.500
		Omkareshwar, Ph.-II	19.58	0.00	19.58	2.61	8.605
		Omkareshwar, Ph.-III	48.59	0.00	48.59	5.18	35.615
		Omkareshwar, Ph.-IV	54.63	0.00	54.63	0.00	0.000

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Table 23 Project-wise Irrigation Created (IPC) under AIBP

(Potential in Th. Ha.)

State	Sr. No	State/Project Name	Project Potential			Irrigation Potential created under AIBP during2013-14	Potential Created under AIBP upto 3/2014
			Ultimate Potential	Created before AIBP	Target for AIBP		
1	2	3	4	5	6	7	8
	13	Bargi Diversion Ph - I	245.00	0.00	21.19	1.00	18.748
		Bargi Diversion Ph -I I		0.00	31.90	1.80	24.864
		Bargi Diversion Ph -I I I		0.00	26.00	0.00	0.000
		Bargi Diversion Ph-IV		0.00	34.00	2.98	8.975
	14	Pench Div-I	96.96	0.00	28.27	0.00	0.000
	15	Upper Beda	9.92	0.00	9.92		8.694
	16	Punasa lift	35.01	0.00	35.01		29.600
	17	Lower Goi	15.69	0.00	15.69	0.87	0.869
	18	Jobat	9.85	7.00	2.85	0.40	2.848
	19	Sagar(Sagad)	17.06	0.00	17.06	9.19	14.390
	20	Singhpur	10.20	0.00	10.20	3.57	3.570
	21	Sanjay Sagar (Bah)	17.81	0.00	17.81	7.97	13.365
	22	Mahuar	13.78	0.00	13.78	5.01	5.010
		Total	**1559.01**	**118.25**	**1028.50**	**78.69**	**660.72**
MAHARASHTRA							
	1	Gosikhurd [NP]	250.80	0.00	231.08	16.16	53.275
	C2	Surya	27.19	22.09	2.97		2.970
	3	Waghur	38.57	0.00	38.57	1.61	15.992
	C4.	Bhima	259.54	184.44	58.76		58.757
	C5	Upper Tapi	55.14	50.50	1.40		1.398
	C6	Upper Wardha	75.08	37.82	37.26		34.522
	C7	Wan	19.18	3.90	15.28		14.921
	C8	Jayakwadi Stage-II	129.69	89.14	7.27		7.273
	C9	Vishnupuri	33.72	15.63	2.64		2.636
	C10	Bahula	4.65	0.35	4.30		1.668
	C11	Krishna	74.00	54.41	19.59		19.588
	C12	Kukadi	156.28	103.14	53.14		51.785
	13	Upper Manar	8.28	0.00	8.28		5.775
	C14	Hetwane	6.67	0.50	6.17		1.816
	C15	Chaskaman	32.82	6.64	26.19		26.186
	16	Upper Pen Ganga	116.73	70.96	44.47	2.01	30.131
		Bawanthadi [IS]	27.71	0.00	27.71	0.25	27.453
	17	Lower Dudhna	44.48	0.00	44.48	6.16	27.941
		Tillari	6.68	0.11	6.57	0.04	4.967
	18	Warna	150.88	3.56	54.75		5.875
	C19	Wan - II	19.18	13.75	5.08		0.350
	20	Punad	10.85	0.00	10.85		8.902
	C21	Pothra Nalla	9.38	4.22	5.16		5.159
	C22	Utawali	5.39	0.32	5.07		5.074
	C23	Purna	7.53	0.02	7.51		7.507
	C24	Nandur Madhmeshwar	45.12	20.50	24.62		24.623
	C25	Kar	6.74	3.50	3.24		1.675
	26	Lower Wardha	63.33	0.00	63.33	0.39	17.764
	C27	Lal Nalla	7.29	0.15	3.84		3.421
	28	Khadakpurna	24.86	0.00	24.86		13.900
	C29	Arunavati	24.00	23.23	0.77		0.769
	C30	Tajnapur LIS	3.62	0.00	3.62		4.471
	C31	Khadakwasla	62.15	61.52	0.62		0.624
	C32	Kadvi	9.22	8.86	0.37		0.365
	C33	Kasarsai	4.12	1.08	3.04		3.036
	C34	Jawalgaon	5.34	3.51	1.81		1.807
	C35	Kumbhi	8.71	3.28	5.43		3.604
	C36	Kasari	9.46	8.22	1.24		1.235
	C37	Patgoan	8.10	6.11	1.99		1.992
	C38	Madan Tank	3.28	0.00	3.28		1.200
	39	Dongargaon	3.94	1.18	2.77		1.977
	C40	Shivna Takli	6.39	0.00	6.39		6.390

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Table 23 Project-wise Irrigation Created (IPC) under AIBP

(Potential in Th. Ha.)

State	Sr. No	State/Project Name	Project Potential			Irrigation Potential created under AIBP during2013-14	Potential Created under AIBP upto 3/2014
			Ultimate Potential	Created before AIBP	Target for AIBP		
1	2	3	4	5	6	7	8
	C41	Amravati	2.61	0.00	2.61		2.000
	42	Gul	3.03	0.00	3.03		1.331
	43	Bembla	52.54	0.00	52.54	0.19	35.446
	C44	Chandarbhaga	6.73	4.81	1.92		1.924
	C45	Sapan	6.38	1.95	4.43		2.781
	46	Uttermand	5.28	0.55	4.73		3.145
	47	Sangola Branch Canal	11.29	0.00	11.29		5.815
	C48	Pentakli	14.33	11.11	3.22		2.100
	49	Tarali	14.28	0.00	14.28	0.70	5.659
	50	Dhom Balakwadi	18.10	0.00	18.10	2.30	9.548
	51	Morna (Gureghar)	3.08	0.00	3.08		0.085
	52	Arjuna	9.41	0.00	9.41	2.84	4.232
	C53	Prakasha Barrage	10.31	0.00	10.31		10.307
	C54	Sulwade Barrage	8.58	0.00	8.58		8.582
	C55	Sarangkheda	11.52	0.00	11.52		11.519
	56	Lower Pedhi	17.02	0.00	17.02		0.000
	57	Upper Kundalika	2.80	0.00	2.80		0.100
	58	Wang Project	7.07	0.00	7.07		0.615
	59	Lower Panzara	7.59	0.80	6.79	0.13	3.566
	60	Aruna	9.03	0.00	9.03	0.00	0.000
	61	Krishna Koyana Lift	109.13	4.96	104.17	5.15	29.994
	62	Naradave (Mahammadwadi)	8.08	0.16	7.92	0.00	0.597
	63	Gadnadi	4.30	0.82	3.47		0.500
	64	Kudali	5.33	0.00	5.33		0.000
		Nandur Madhmeshwar Ph-II	20.50	0.00	20.50		0.000
		Total	**2234.40**	**827.79**	**1218.88**	**37.93**	**650.62**
MANIPUR							
	1	Khuga	15.00	0.00	15.00		10.000
	2	Thoubal	33.45	4.00	29.45	1.20	16.160
	3	Dolaithabi Barrage	7.55	0.00	7.55		0.000
		Total	**55.99**	**4.00**	**51.99**	**1.20**	**26.16**
MEGHALAYA							
	x1	Rangai Valley	4.78	0.00	4.78		0.000
		Total	**4.78**	**0.00**	**4.78**	**0.00**	**0.00**
ORISSA							
	1	Upper Indravati(KBK)	86.39	0.00	86.39	3.28	77.716
	2	Subernarekha	187.46	4.33	183.14	2.05	57.300
	3	Rengali	143.49	0.00	143.49	3.41	27.939
	4	Anandpur Barr./ Integrated Anandpur Barr.	65.88	40.80	5.88	0.00	5.877
	C5	Upper Kolab(KBK)	88.76	68.01	21.40		21.400
	C6	Titlagarh St-II(KBK)	2.67	0.47	2.20		2.700
	7	Lower Indra(KBK)	38.87	0.00	38.87	2.39	28.542
	8	Lower Suktel(KBK)	40.42	0.00	40.42	0.00	0.000
	C9	Potteru(KBK)	109.88	102.60	7.28	0.00	7.280
	C10	Naraj Barrage	0.00	0.00	0.00	0.00	0.000
	11	Telengiri(KBK)	13.83	0.00	13.83	0.00	0.000
	12	RET Irrigation(KBK)	8.50	0.00	8.50	0.00	0.000
	13	Kanupur	47.71	0.00	47.74	0.00	0.000
	14	Chheligada Dam	3.00	0.00	3.00	0.00	0.000
	C15	Improvement to Sason Canal System	0.00	0.00	16.28	0.00	16.282
	C16	Salandi Left Main Canal-Ambahata	0.00	0.00	3.65	0.00	3.650
	C17	Improvement to Salki Irrigation	0.00	0.00	20.14	0.00	20.140
	18	Rukura-Tribal	7.65	0.00	7.65	0.00	0.000
		Total	**844.51**	**216.21**	**649.86**	**11.14**	**268.83**
PUNJAB							
	C1.	Ranjit Sagar Dam	0.00	0.00	0.00		0.000
	C2	Remodelling of UBDC	118.00	0.00	118.00		118.000

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Table 23 Project-wise Irrigation Created (IPC) under AIBP

(Potential in Th. Ha.)

State	Sr. No	State/Project Name	Project Potential			Irrigation Potential created under AIBP during2013-14	Potential Created under AIBP upto 3/2014
			Ultimate Potential	Created before AIBP	Target for AIBP		
1	2	3	4	5	6	7	8
	C3	Irr. to H.P. below Talwara (Shahnehar Irr.	0.00	0.00	0.00		0.000
	4	Shahpur Kandi dam (N.P)	0.00	0.00	0.00		0.000
	5	Kandi Canal Extension (Ph.II)	23.33	0.00	23.33	0.00	18.728
	6	Rehabilitation of Ist Patiala Feeder and Kotla	68.62	0.00	68.62	0.00	61.600
	7	Relining of Rajasthan Feeder Canal	93.12	0.00	93.12	0.00	0.000
		Relining of Sirhind Feeder Canal	34.55	0.00	34.55	0.00	0.000
		Total	**337.62**	**0.00**	**337.62**	**0.00**	**198.33**
RAJASTHAN							
	C1	Jaisamand (Modernisation)	8.35	4.63	2.40		2.398
	C2	Chhapi	7.00	0.00	6.99		6.556
	C3	Panchana	10.61	4.50	6.11		6.106
	4	IGNP Stage-II	1244.00	0.00	1244.00		772.240
	C5.	Bisalpur	55.22	0.00	1.80		1.800
	6	Narmada Canal	245.88	0.00	245.88	11.00	237.000
	C7.	Gambhiri (Modernisation)	4.77	2.53	0.93		0.925
	C8	Chauli	8.96	0.00	8.96		8.960
	C9	Mahi Bajaj Sagar	71.20	52.79	18.41		18.406
	10	Mod. of Gang Canal	96.51	5.65	69.69	0.45	69.163
		Total	**1752.51**	**70.11**	**1605.16**	**11.45**	**1123.55**
TAMILNADU							
	C1.	WRCP	0.00		0.00		0.000
		Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TELANGANA							
	C1	Sriramsagar St.I	392.000	255.040	137.040		137.040
	C2	Priyadarshini Jurala	41.360	1.200	40.160		40.160
	C3	Nagarjunsagar	89.280	848.850	27.944		27.944
	C4	Gundalavagu	1.045	0.000	1.045		1.045
	5	FFC of SRSP	40.000	0.000	40.000	0.000	0.000
	6	SRSP St.II	178.066	0.000	178.066	22.298	155.069
	7	Ralivagu	2.428	0.000	2.428	0.000	2.226
	8	Gollavagu	3.845	0.000	3.845	0.405	2.024
	9	Mathadivagu	3.440	0.000	3.440	0.000	2.027
	10	Peddavagu	6.073	0.000	6.073	0.000	0.000
	C11	Alisagar LIS	21.770	0.000	21.770		21.769
	12	J. Chokka Rao LIS	249.000	0.000	249.000	27.880	55.761
	C13	Guthpa LIS	15.698		15.698		15.698
	14	Neelwai	5.260	0.000	5.260	0.000	0.000
	15	Sri Komaram Bheem	9.915	0.000	9.915	3.360	3.765
	16	Palemvagu	4.100	0.000	4.100	0.000	0.000
	17	Rajiv Bhima LIS	82.153	0.000	82.153	1.822	4.857
		Total	**1145.433**	**1105.090**	**827.937**	**55.765**	**469.385**
TRIPURA							
	1	Manu	7.60	0.00	7.60		3.185
	2	Gumti	9.80	2.18	7.62		4.983
	3	Khowai	9.32	0.00	9.32		8.642
		Total	**26.72**	**2.18**	**24.54**		**16.810**
UTTAR PRADESH							
	C1	Upper Ganga including Madhya Ganga	187.00	132.82	54.18		52.380
	C2	Sarda Sahayak	1925.10	1536.64	388.46		366.680
	3	Saryu Nahar (NP)	1404.00	92.00	1312.00	48.62	630.600
	C4	Providing Kharif Channel in H.K. Doab	11.60	0.00	11.04		11.038
	C5	Rajghat Dam	0.00	0.00	0.00		0.000
	C6	Gunta Nala Dam	3.88	0.00	3.88		3.880
	7	Bansagar Canal	150.13	0.00	150.13		0.000
	C8	Gyanpur Pump Canal	37.26	35.76	1.50		1.500
	C9	Eastern Ganga Canal	105.00	32.71	72.29		69.125
	C10	Rajghat Canal	138.66	77.57	43.35		41.005

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			Ultimate Potential	Created before AIBP	Target for AIBP		
1	2	3	4	5	6	7	8
	C11	Mod. Agra Canal	50.00	15.00	35.00		37.800
	C12	Jarauli Pump Canal	39.75	0.00	39.75		17.625
	13	Mod. of Lachhura Dam	46.49	31.91	14.58		0.000
	14	Improving Irr. Intensity of Hardoi Branch	95.96	0.00	95.96		83.188
	15	Madhya Ganga Canal Ph-II	146.53	0.00	146.53		41.319
	16	Kachnoda Dam	10.85	0.00	10.85		8.775
	17	Arjun Shyak	59.49	15.10	44.38		0.000
	18	Restoring Cap of Sarda Sahayak [NP]	1479.00	689.00	790.00		215.000
		Total	**5890.70**	**2658.52**	**3213.88**	**48.62**	**1579.92**
UTTRAKHAND							
	x1	Lakhwar Vyasi	40.00	0.00	0.00		0.000
	C2	Tehri	270.00	0.00	270.00		0.000
		Total	**310.00**	**0.00**	**270.00**	**0.00**	**0.00**
WEST BENGAL							
	1	Teesta Barrage [N.P]	526.69	79.61	342.15	1.72	117.410
	C2.	Kangsabati	401.66	319.60	82.06		17.800
	C3	Mod. Barrage and Irrigation System of DVC	8.00	0.00	8.00		8.00
	4	Tatko	2.49	1.30	1.20		0.998
	5	Patloi	2.16	0.00	2.16		2.109
	C6	Hanumata	2.77	1.51	1.25		1.189
	7	Subernrekha Barrage ++	114.20	0.00	114.20		0.000
		Total	**1057.96**	**402.02**	**551.02**	**1.72**	**147.50**
	297	**Grand Total**	**23513.93**	**8793.47**	**15136.75**	**558.68**	**8052.90**

Source : Project Monitoring Organisation, Central Water Commission

C : Completed x The Project is not under AIBP now.

: **15 Districts- Narmada, Bharuch, Vadadara, Panchmahal, Kheda, Ahmedabad, Gandhinagar, Mehsana, Surendranagar, Patan, Banaskantha, Kutch, Rajkot, Bhavnagar, and Anand.

: ***17 Districts - Saharanpur, Muzaffarnagar, Meerut, Ghaziabad, Bulandshahr, Aligarh, Mathura, Agra, Etah,Etawah, Mainpuri, Farrukhabad, Moradabad, Bijnor, Kanpur, Fatehpur,Allahabad

:****14 Districts- Faizabad, Sultanpur, Jaunpur, Allahabad, Balia, Lakhimpur, Azamgarh, Ghazipur, Sitapur, Luckhnow, Raibareli, Barabanki, Varanasi, Pratapgarh

:Figures of Irrigation Potential have been firmed up and revised on the basis of latest information received from the State Govts.

:Shifted under FT in 2005-06

Table 24 : Year-wise Irrigation Potential Created by Major and Medium Irrigation Projects under Accelerated Irrigation Benefit Programme

('000 Hectare)

S. No.	Name of States	Ultimate Potential	Created before AIBP	Target for AIBP	Potential Created under AIBP during																	Potential Created under AIBP upto 3/2014
					96-97	97-98	98-99	99-2000	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	ANDHRA PRADESH	900.34	23.37	788.91	0.00	0.00	0.00	6.20	0.45	8.38	23.55	7.23	6.51	27.83	18.50	67.73	24.31	9.29	58.29	0.00	13.15	3.80	275.20
2	ASSAM	262.63	96.23	162.32	1.77	4.45	4.73	7.90	7.21	8.00	3.65	3.95	4.12	2.69	2.80	4.78	8.80	11.71	6.15	4.00	0.27	0.00	86.96
3	BIHAR	1323.64	1430.99	684.65	1.18	0.00	8.00	7.79	13.53	43.30	47.95	44.79	60.38	174.65	45.27	6.40	10.00	0.47	0.00	0.00	0.00	3.68	467.37
4	CHHATISGARH	791.65	394.94	213.71	0.00	0.00	0.00	3.50	2.70	36.19	19.21	11.91	15.97	11.65	11.94	15.82	18.86	10.21	2.83	9.83	11.80	0.00	182.41
5	GOA	28.63	4.81	23.82	0.00	0.00	1.48	0.54	0.15	0.89	1.72	2.92	1.80	0.25	0.41	4.89	1.50	0.53	0.80	0.17	1.26	1.16	20.47
6	GUJARAT	2028.35	168.21	1830.24	16.12	20.38	36.53	28.44	40.62	15.36	11.98	61.36	77.95	34.09	81.84	68.20	20.89	25.66	28.89	21.27	128.20	274.78	992.54
7	HARYANA	400.50	179.53	200.97	12.09	12.40	14.97	21.12	11.23	12.32	3.27	2.96	7.89	6.90	10.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	115.22
8	HIMACHAL PRADESH	37.51	0.00	37.51	0.00	0.00	0.24	0.24	0.33	0.17	0.32	0.49	0.49	0.49	3.53	3.34	4.15	4.04	5.01	5.59	3.53	5.55	37.50
9	JAMMU & KASHMIR	154.80	48.93	105.69	0.00	0.00	0.00	0.62	0.88	2.43	5.59	2.62	1.08	1.32	1.19	4.52	4.74	4.63	9.01	10.15	4.59	0.00	53.36
10	JHARKHAND	299.83	6.04	293.79	0.00	0.00	1.80	1.40	1.80	3.60	2.02	1.00	0.00	0.00	0.50	0.00	0.00	0.51	1.66	0.00	4.30	0.00	18.58
11	KARNATAKA	1911.59	967.15	953.53	0.77	3.11	7.19	8.48	4.82	66.92	54.97	129.23	69.15	50.48	76.05	18.75	6.45	32.74	25.29	28.22	8.02	21.33	611.97
12	KERALA	154.84	69.12	57.47	0.43	1.58	0.00	0.80	1.65	5.92	4.80	9.22	5.00	0.65	2.71	0.95	0.12	1.63	2.64	7.55	1.99	1.87	49.51
13	MADHYA PRADESH	1559.01	118.25	1028.50	0.00	0.00	0.00	5.00	9.47	9.32	16.68	11.16	51.30	21.56	15.45	82.06	49.73	37.55	91.11	82.55	99.08	78.69	660.72
14	MAHARASHTRA	2234.40	827.79	1218.88	0.46	26.94	24.12	11.98	21.55	10.49	12.90	27.59	35.97	34.49	70.96	93.43	67.03	70.93	35.29	41.43	27.15	37.93	650.62
15	MANIPUR	55.99	4.00	51.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	5.92	4.14	1.80	4.00	0.10	4.00	1.20	26.16
16	MEGHALAYA	4.78	0.00	4.78	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	0.00	0.00	0.00	0.00	0.00	0.00
17	ODISHA	844.51	216.21	649.86	1.31	17.22	13.54	8.73	13.04	6.41	4.07	40.00	15.52	4.15	4.61	14.40	10.73	28.41	37.11	11.84	26.61	11.14	268.83
18	PUNJAB	337.62	0.00	337.62	0.00	0.00	0.00	0.00	14.16	79.75	2.09	0.00	4.99	18.03	8.18	4.80	27.44	12.89	25.00	0.00	1.00	0.00	198.33
19	RAJASTHAN	1752.51	70.11	1605.16	0.83	51.62	58.99	34.77	12.70	29.10	37.36	50.37	55.33	79.19	60.15	127.47	52.00	44.00	396.03	11.93	10.29	11.45	1123.55
20	TAMILNADU	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	TELANGANA	1145.43	1105.09	827.94	0.00	18.66	40.67	10.72	8.39	28.07	52.28	4.06	7.62	54.68	29.93	23.77	61.12	2.01	40.94	0.00	30.72	55.77	469.38
22	TRIPURA	26.72	2.18	24.54	0.62	0.21	0.10	0.67	0.75	0.89	0.00	0.00	0.52	2.05	3.01	1.73	1.27	4.27	0.51	0.00	0.22	0.00	16.81
23	UTTRA PRADESH	5890.70	2658.52	3213.88	29.02	42.61	38.20	56.10	351.23	68.22	78.86	30.07	93.55	111.30	88.62	75.67	105.18	37.35	175.33	67.95	82.05	48.62	1579.92
24	UTTRAKHAND	310.00	0.00	270.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	WEST BENGAL	1057.96	402.02	551.02	11.70	0.30	9.00	11.35	16.25	10.14	5.43	2.55	2.47	5.15	2.31	14.55	4.85	5.28	15.27	25.85	3.34	1.72	147.50
	Total	**23513.931**	**8793.468**	**15136.750**	**76.29**	**199.47**	**259.55**	**226.35**	**532.88**	**445.85**	**388.69**	**443.45**	**517.57**	**641.58**	**543.03**	**639.16**	**483.28**	**345.90**	**961.14**	**328.44**	**461.58**	**558.68**	**8052.90**

Source: Mon (C), Projecr Monitoring Organisation, Central Water Commission

Table 25 : Year-wise Central Assistance release to States for Major, Medium, ERM Projects for the period 2004-05 to 2013-14 under AIBP

(Rs. In Crore)

S. No.	Name of States	CLA released upto 2004-05	Grant released (Amount in Rs. Crore)										Cumulative CLA/Grant released upto March 15
			2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	ANDHRA PRADESH	**312.89**	**8.38**	**161.69**	**169.78**	**100.04**	**264.72**	**337.47**	**22.79**	**0.00**	**0.00**	**0.00**	**0.00**	**1377.75**
2	ASSAM	98.05	0.07	12.60	0.00	15.19	83.25	12.00	49.50	46.96	0.00	0.00	89.22	406.85
3	BIHAR	454.90	11.16	16.24	3.23	58.69	74.85	77.91	23.40	0.00	0.00	0.00	0.00	720.39
4	CHHATISGARH	267.33	0.88	7.66	0.00	37.39	42.02	44.85	43.01	22.25	15.53	37.53	0.00	518.45
5	GOA	130.86	0.20	0.00	1.91	32.48	39.23	20.25	20.00	20.25	8.00	0.00	0.00	273.17
6	GUJARAT	4107.17	45.75	339.60	121.89	585.72	258.61	6.08	361.42	0.00	1285.93	607.57	1033.94	8753.68
7	HARYANA	78.03	3.34	6.00	3.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.54
8	HIMACHAL PRADESH	60.11	1.59	16.06	2.22	70.54	81.81	52.86	11.12	82.59	0.00	0.00	0.00	378.89
9	JAMMU & KASHMIR	77.04	6.57	24.76	18.25	94.04	95.31	13.67	47.29	61.65	12.71	13.85	14.21	479.36
10	JHARKHAND	77.81	6.39	5.04	1.29	9.22	3.72	0.00	11.24	335.54	515.72	0.00	0.00	965.97
11	KARNATAKA	2269.01	81.50	154.78	160.37	368.90	454.06	742.93	537.12	452.24	207.36	200.12	150.82	5779.21
12	KERALA	123.70	14.83	31.20	16.65	0.00	4.72	0.00	10.02	0.00	0.00	0.00	0.00	201.11
13	MADHYA PRADESH	1866.69	155.01	168.10	167.91	317.70	449.47	471.39	456.19	262.18	613.41	192.50	96.01	5216.55
14	MAHARASHTRA	973.88	158.79	267.99	466.87	1096.94	1828.37	1415.41	1792.89	1122.68	840.18	279.52	22.50	10266.01
15	MANIPUR	102.90	10.35	70.30	138.07	54.18	182.11	0.00	209.50	0.00	375.00	0.00	82.68	1225.10
16	MEGHALAYA	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00
17	ORISSA	873.16	7.27	148.00	133.11	668.22	744.58	728.02	563.83	614.95	14.82	0.00	0.00	4495.96
18	PUNJAB	415.47	0.00	26.32	0.00	13.50	9.54	22.05	140.48	43.63	0.00	0.00	0.00	670.98
19	RAJASTHAN	1386.94	105.87	90.30	11.60	156.53	178.62	143.41	41.92	3.38	0.00	0.00	0.00	2118.56
20	TAMILNADU	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00
21	TELANGANA	617.73	17.89	149.69	646.64	887.73	358.80	963.26	0.00	256.13	0.00	0.00	65.33	3963.20
22	TRIPURA	30.92	2.70	16.20	0.94	0.00	22.67	4.86	48.00	0.00	0.00	0.00	0.00	126.29
23	UTTRA PRADESH	1337.29	42.28	108.11	81.90	150.69	315.47	238.08	432.74	279.84	144.64	595.73	274.14	4000.89
24	UTTRAKHAND	574.23	10.50	25.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	609.75
25	WEST BENGAL	166.13	4.04	0.03	6.70	0.83	22.81	0.91	81.00	102.55	0.00	0.00	0.00	385.00
	Total	**16426.23**	**695.34**	**1845.67**	**2152.50**	**4718.53**	**5514.74**	**5295.42**	**4903.45**	**3706.81**	**4033.28**	**1926.82**	**1828.85**	**53047.65**

Source : Mon(C), Project Monitoing Organisation, Central Water Commission.

Table 26: Physical Achievements of Field Channels (F.C.) under CAD Programme by State

('000 Hectare)

Sl. No.	Name of States	Cummulative Achievement of of F.C. up to end of					Achievement		Cumulative Achievement upto XI Plan (31.03.2013)
		VII Plan 1985-90	VIII Plan 1992-97	IX.Plan 1997-02	X.Plan 2002-07	Total XI Plan	2012-13	2013-14	
1	2	3	4	5	6	7			8
1	Andhra Pradesh	650.8	664.6	680.2	738.1	39.4	0.810	0.000	778.30
2	Arunachal Pradesh	0	0	1	9	11.5	0.560	1.782	22.75
3	Assam	38.4	54.1	56.1	56.6	4.9	0.900	0.000	62.42
4	Bihar	1220.9	1282.4	1297.3	1344	126.4	12.145	5.230	1487.83
5	Chattisgarh	0	0	1.5	51.3	154.3	29.326	36.615	271.55
6	Goa	5.3	10.3	10.4	10.4	3	0.600	0.000	13.99
7	Gujarat	766.1	852	889.9	1107.6	42.9	0.000	0.000	1150.44
8	Haryana	114.3	312.7	429.4	597.3	255.6	37.562	63.207	953.68
9	Himachal Pradesh	6.3	10.7	15.7	22.2	0.6	0.000	0.000	22.85
10	Jammu & Kashmir	27.4	55.5	77.9	98.3	57.4	23.606	21.709	201.01
11	Jharkhand	0	0	0	0	0	0.000	0.000	0.00
12	Karnataka	897.8	1043	1116.2	1485.5	114.8	19.726	36.643	1656.63
13	Kerala	46.2	153.7	174.1	182.3	1.4	0.320	0.731	184.73
14	Madhya Pradesh	833.5	995.8	1031.2	1073.1	62	67.122	0.000	1202.25
15	Maharashtra	889.2	1113.1	1223.9	1248.1	88.9	3.991	6.725	1347.74
16	Manipur	20.8	36.8	50.6	63.9	22	0.500	0.802	88.55
17	Meghalaya	0	1	1.1	2.2	0.4	0.000	0.000	2.55
18	Mizoram	0	0	0.1	0.9	0.1	0.000	0.000	0.91
19	Nagaland	0	0	2	3.7	0.1	0.450	0.000	4.27
20	Orissa	256.8	346.5	396.4	437.4	103.9	36.880	23.325	601.51
21	Punjab	0	0	222.7	351.5	251.4	18.779	22.856	644.59
22	Rajasthan	613.6	925.5	1177.2	1427.1	131.3	7.441	16.124	1581.94
23	Sikkim	0	0	0.1	0.2	0	0.000	0.000	0.18
24	Tamil Nadu	317.9	629.6	850.8	1041.7	110	18.260	16.874	1186.89
25	Tripura	0.1	0.3	0.3	0.4	0	0.000	0.000	0.41
26	Uttar Pradesh	4378	5375	5936	6575.3	399.5	75.712	53.224	7103.78
27	Uttrakhand	0	0	0	4.9	7	0.000	0.000	11.92
28	West Bengal	55.3	90.1	112.5	135.5	90.9	6.350	2.513	235.31
Total		**11138.7**	**13952.7**	**15754.6**	**18068.7**	**2079.5**	**361.040**	**308.360**	**20818.972**

Source : Ministry of Water Resources (CAD Wing.)

Remarks : 1. F.C.-Field Channels. 2. Total may not tally due to rounding off.

Note: Figures for the year 2011-12 in respect of Assam & Manipur are provisional.

Table 27: Physical Achievements of Field Drains under CAD Programme by State

(' 000 Hectare)

Sl. No.	Name of States	Cumulative Achievement of Field Drains up to end of				Achievement During					Cumulative Achievement upto31.12.2013
		VII Plan 1985-90	VIII Plan 1992-97	IX.Plan 1997-02	X.Plan 2002-07	2007-08	2008-09	2009-10	2010-11	2011-12	
1	2	3	4	5	6	7	8	9	10		12
1	**Andhra Pradesh**	9.1	9.1	9.1	9.1	0	0	0	0	0	9.07
2	**Arunachal Pradesh**	0	0	0.7	6.9	0.4	0.3	0	0	0	7.61
3	**Assam**	11.6	21	21.8	22.1	0	0	0	0	0	22.11
4	**Bihar**	0	0	0	18.8	0	12.1	1.6	0.1	0	32.65
5	**Chattisgarh**	0	0	0	0	0	0	0	0	0	0
6	**Goa**	0	0	0	0	0	0	0	0	0	0.01
7	**Gujarat**	2.2	2.9	2.9	33.7	0	0	0	0	0.451	34.16
8	**Haryana**	0	0	0	24.3	0	1.5	15.4	0	0	41.26
9	**Himachal Pradesh**	0	0.6	2.3	6	0	0	0	0	0	5.97
10	**Jammu & Kashmir**	0.4	6.8	13.5	26.8	1.9	1.3	7.3	9.4	4.808	51.54
11	**Jarkhand**	0	0	0	0	0	0	0	0	0	0
12	**Karnataka**	8.1	27.6	37.8	69.9	3.2	18.4	30.9	29.7	0	152.07
13	**Kerala**	0	7.1	95.7	129.9	0.6	1.7	0	0.2	0.994	133.33
14	**Madhya Pradesh**	19.8	37.8	37.8	37.8	0	0	0	0	0	37.76
15	**Maharashtra**	165.8	292.4	392.5	439	0	0	17.1	4.4	7.77	468.38
16	**Manipur**	4.1	11.2	12.6	15.6	0	4.1	5.5	2.2	4.342	31.73
17	**Meghalaya**	0	0	0	0	0	0	0	0	0	0
18	**Mizoram**	0	0	0.1	1	0	0	0	0	0.545	1.51
19	**Nagaland**	0	5.8	7.8	11	0	0	0	0	0	10.99
20	**Orissa**	31.3	96.1	114.4	133.6	1.8	3.4	0.6	8.8	0	148.23
21	**Punjab**	0	0	0	0	0	0	0	0	0	0
22	**Rajasthan**	9.2	16.3	35	42.8	1.4	0	0	0.5	0	48.02
23	**Sikkim**	0	0	0.1	0.1	0	0	0	0	3.261	0.14

Contd..

Table 27: Physical Achievements of Field Drains under CAD Programme by State

(' 000 Hectare)

Sl. No.	Name of States	Cumulative Achievement of Field Drains up to end of				Achievement During					Cumulative Achievement upto31.12.2013
		VII Plan 1985-90	VIII Plan 1992-97	IX.Plan 1997-02	X.Plan 2002-07	2007-08	2008-09	2009-10	2010-11	2011-12	
1	2	3	4	5	6	7	8	9	10		12
24	**Tamil Nadu**	29.2	29.2	29.4	173.9	48.2	72.3	0.8	1.2	0	298.8
25	**Tripura**	0.1	0.1	0.1	0.1	0	0	0	0	2.375	0.12
26	**Uttar Pradesh**	133.1	209	310.7	562.4	12.2	14.4	14.8	2.1	0	605.89
27	**Uttarakhand**	0	0	0	0.5	0	0	0	0	0	0.54
28	**West Bengal**	0	0	0	0	0	0	0	0	0	0
Total		**423.9**	**773**	**1124.3**	**1765.4**	**69.8**	**129.5**	**94.1**	**58.5**	**24.546**	**2141.89**

Source : Ministry of Water Resources (CAD Wing)

Note : Totals may not tally due to rounding off.

Table 28 : List of On-going Projects under CADWM Programme during the period of XI Plan (2007-08 To 2011-12) as on March, 2013

('000 ha)

S. No.	Project Name	Districts benefitted	Year of Inclusion	CCA	CCA Covered till 31.3.2013	Reported balance of executable CCA
1	2	3	4	5	6	7
	ANDHARA PRADESH					
1	Sriramsagar Project	Karimnagar, Adilabad, Warangal, Nizamabad, Khammam & Nalgonda	1974-75	411	393.941	17.059
2	Srisailam R.B.C	Kurnool	1995-96	76.89	33.132	43.758
			TOTAL	**487.89**	**427.073**	**60.817**
	ARUNACHAL PRADESH					
3	Cluster of 62 MI in 4 panchayats In the district of Papumpare Namely Sagalee, Megio, Balijan And Itanagar	Lower & Upper Dibang Valley, Lohit, Anjaw, Changlang, Tirap	2000-01	2.76	2.76	0
4	Cluster of 102 MI schemes under Daporijo and Itanagar Circle	Tawang, West Kameng, East Kameng, Papurm Pare, Lower Subansiri, Upper Subansiri, E/Siang, U/Sing W/Siang, Kurung Kumey.	2006-07	7.47	4.88	2.59
5	Cluster of 39 MI schemes under Namsai Circle	Lower/Upper Dibang, Lohit Anjaw, Tirap	2006-07	3.34	2.371	0.969
			TOTAL	**13.57**	**10.011**	**3.559**
	ASSAM					
6	Bordikarai	Sonitpur	1992-93	16.99	0.61	16.38
7	Kaldiya	Barpeta	1992-93	9.83	7.56	2.27
8	Dakadong	Barpeta	1992-93	4.94	3.35	1.59
9	Pahumara Irrigation	Barpeta	2010-11	9.259	1.7	7.559
			TOTAL	**41.019**	**13.32**	**27.799**
	BIHAR					
10	Gandak	Muzaffarpur, Vaishali, East. Champaran, Gopalganj, Siwan, saran, Samastipur	1974-75	960	627.162	332.838
11	Badua and Chandan	Bhagalpur, banka, Munger	1974-75	106.38	70.115	36.265
12	Kiul	Lakhisari, Shekhpura, Jamui	1991-92	22.26	16.635	5.625
13	Kosi	Saharsa, Supaul, Madhupura, Purnia, Araria, Katihar, Darbhanga, Madhubani	1974-75	440	422.17	17.83
14	Sone	Patna, Bhojpur, Buxar, Rohtas, Bhabhus, Aurangabad, Gaya, Jehanabad and arwal	1974-75	865	486.698	378.302

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Table 28 : List of On-going Projects under CADWM Programme during the period of XI Plan (2007-08 To 2011-12) as on March, 2013

('000 ha)

S. No.	Project Name	Districts benefitted	Year of Inclusion	CCA	CCA Covered till 31.3.2013	Reported balance of executable CCA
1	2	3	4	5	6	7
15	North Koel Project	Aurangabad, Gaya	1991-92	123	7.678	115.322
			TOTAL	**2516.64**	**1630.458**	**886.182**
	CHHATISGARH					
16	Ballar	Raipur	1985-86	6.55	4.362	2.188
17	Mahanadi, Tandula, Jonk and Kodar	Dhamtari, Raipur, Durg, Mahasamund	1983-84	497.659	255.208	242.451
18	Hasdeo Phase-2	Korba, Raigarh, Janjgir-Champa	2003-04	168	110.103	57.897
19	Khapri Irrigation Project	Durg	2011-12	4.588	1.999	2.589
			TOTAL	**676.797**	**371.672**	**305.125**
	GUJARAT					
20	Sardar Sarovar Phase –I	Vadodara, Bharuch, Narmada, Panchmahal	2003-04	446.61	277.836	168.774
			TOTAL	**446.61**	**277.836**	**168.774**
	GOA					
21	Tillari	Talukas, Bicholim, Bardez	2007-08	14.521	3.847	10.674
			TOTAL	**14.521**	**3.847**	**10.674**
	HARYANA					
22	Bhakra canal Project Phase - II	Hisar, Siras, Fatehbad, ambala, Kurukshetra, kaithal, Karnal & Jind.	2009-10	351.853	120.465	231.388
23	Western Yamuna canal Phase -VI	Rothak, Jhajjar, Sonepat, Jind, Bhiwani, Hisar, Gurgaon & Panipat.	2007-08	205.6	80.969	124.631
24	JLN Canal Phase-II	Jhajjar, Rewari, Mahandergarh, Bhiwani & Gurgaon.	2007-08	99.383	7.367	92.016
			TOTAL	**656.836**	**208.801**	**448.035**
	HIMACHAL PRADESH					
25	Cluster of 40 MI schemes in Drang & Sadar block of Dist. Mandi.	Mandi	2003-04	1.377	1.368	0.009
26	Cluster of 38 MI schemes in pandonga haroli saloh area in Tehsil Una of Dist. Una.	Una	2003-04	1.468	1.418	0.05
27	Cluster of 42 MI schemes in Tehsil Sarkaghat District Mandi	Mandi	2003-04	1.087	0.87	0.217

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Table 28 : List of On-going Projects under CADWM Programme during the period of XI Plan (2007-08 To 2011-12) as on March, 2013

('000 ha)

S. No.	Project Name	Districts benefitted	Year of Inclusion	CCA	CCA Covered till 31.3.2013	Reported balance of executable CCA
1	2	3	4	5	6	7
28	Cluster of 27 MI schemes in Nallagarh area of District Solan	Solan	2003-04	2.209	0.26	1.949
29	Cluster of 12 MI schemes in Rampur block of District Shimla	Shimla	2003-04	0.766	0.342	0.424
30	Cluster of various MI schemes in Paonta & Shillai Tehsil in Distt. Sirmour	Sirmur	2007-08	2.342	0	2.342
31	Shah Nahar Project	Kangra	2011-12	15.287	0	15.287
			TOTAL	**24.536**	**4.258**	**20.278**
	JAMMU & KASHMIR					
32	Ego-Phey Canal	Leh	1987-88	3	0.873	2.127
33	Dachnipora-Rajpora	Anantnag, Pulwama	2007-08	12.526	8.737	3.789
34	Ahaji Beerua	Budgam	2008-09	8.813	3.95	4.863
35	Ganderbal	Ganderbal, Srinagar	2011-12	6.892	1.297	5.595
36	Ranbir Canal	Jammu	2006-07	38.6	32.343	6.257
37	Dehgam Veernag	Anantnag, Kulgam	2006-07	2.934	2.584	0.35
38	Tongri Canal	Shopian and Kulgam	2010-11	4.064	1.552	2.512
39	Zainegeer canal (Kashmir CADA)	Baramulla , Bandipora	2003-04	5.1	5.049	0.051
40	Sonawari	Baramulla and Bandipura	2010-11	20.37	1.752	18.618
41	Kathua canal Command (Jammu CADA)	Proposed for closure	2003-04	8.463	4.627	3.836
42	Arin-Bandipora	Bandipora	2007-08	2.86	2.676	0.184
43	Khemil-Kupwara	Kupwara	2007-08	7.3	3.326	3.974
44	Doda-Sangaldhan Gool-Rajouri Cluster	Doda, Rajouri, Ramban	2007-08	4.177	4.545	0
45	Ferozpora Tangmarg Project of Kashmir Command	Baramulla	2009-10	9.644	3.557	6.087
46	New Partap Canal Project of Jammu Command	Jammu	2010-11	9.028	1.835	7.193
47	Vaishow Command Project	Pulwama, Ahopian and Kulgam	2011-12	13.738	1.089	12.649
48	Kargil Projects	Kargil	2011-12	12	0.097	11.903
49	Uri-Narvaw Project	Baramulla	2011-12	6.77	1.782	4.988
			TOTAL	**176.279**	**81.671**	**94.608**

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Table 28 : List of On-going Projects under CADWM Programme during the period of XI Plan (2007-08 To 2011-12) as on March, 2013

('000 ha)

S. No.	Project Name	Districts benefitted	Year of Inclusion	CCA	CCA Covered till 31.3.2013	Reported balance of executable CCA
1	2	3	4	5	6	7
	JHARKHAND					
50	Kanchi Weir Scheme		2003-04	17.8	0	17.8
51	Mayurakshi Left Bank Canal System		2003-04	9.5	0	9.5
			TOTAL	**27.3**	**0**	**27.3**
	KARNATAKA					
52	Ghataprabha	Belgaum and Bagalakote	1974-75	317.43	265.903	51.527
53	Malaparaba	Dharwad, Belgaum, Gadag, Bagalakote	1974-75	214.98	199.443	15.537
54	Tungbhadra	Koppal & Raichur, Bellary	1974-75	529	354.615	174.385
55	Upper Krishna	Gulbarga, Yadgiri, Bagalkot, Bijapur, raichur	1974-75	622	576.321	45.679
56	Bhadra Reservoir	Chikmagalur, Shimoga and Davanagree	1996-97	105.57	101.558	4.012
57	Amarja	Gulbarga	2003-04	8.903	2.873	6.03
58	Bennithora	Cittapur Taluka, Gulbarga	2003-04	20.234	18.993	1.241
59	Karanja Irrigation Project	Bidar	2009-10	35.614	21.269	14.345
60	Hippargi	Belgaum and Bagalakote	2011-12	74.742	0	74.742
61	Doodhganga	Belgaum	2011-12	15.167	0	15.167
62	Bhima lift Irrigation	Gulbarga	2011-12	24.292	0	24.292
			TOTAL	**1967.932**	**1540.975**	**426.957**
	KERALA					
63	Kallada	Kollam, Pathanamthitta, Alappuzha	2006-07	53.514	0.385	53.129
64	Muvattupuzha Valley Irrigation Project	Idukki, Ernakulam, Kottayam	2009-10	19.237	0	19.237
65	Kanhirapuzha	Palakkad	1998-99	9.72	7.594	2.126
66	Pazhassi	Kannur	1998-99	11.53	1.882	9.648
			TOTAL	**94.001**	**9.861**	**84.14**
	MADHYA PRADESH					
67	Kolar	Sehore	1985-86	45	13.441	31.559
68	Rani Avanti Bai(Bargi)	Jabalpur, Narsinghpur	1990-91	157	36.557	120.453

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Table 28 : List of On-going Projects under CADWM Programme during the period of XI Plan (2007-08 To 2011-12) as on March, 2013

('000 ha)

S. No.	Project Name	Districts benefitted	Year of Inclusion	CCA	CCA Covered till 31.3.2013	Reported balance of executable CCA
1	2	3	4	5	6	7
69	Upper Wainganga	Seoni	1985-86	112.9	110.587	2.313
70	Bagh	Balaghat	1985-86	16.6	16.412	0.188
71	Harsi	Gwalior	1985-86	44.354	45.477	0
72	Kunwar Chain Sagar (dudhi)	Rajgarh	2003-04	3.7	3.136	0.564
73	Rajghat Canal Project	Ashok Nagar, Shivpuri, Tikamgarh, Datia, Bhind	2010-11	164.789	22.616	142.173
74	Bariyarpur Left Bank Canal	Chhatarpur	2011-12	46.682	7.65	39.032
75	Bansagar Project	Rewa, Satna, Sidhi and Shahdol	2011-12	154.687	21.499	133.188
			TOTAL	**745.712**	**287.6**	**458.112**
	MAHARASHTRA					
76	Khadakwasla *	Pune	1983-84	77.68	46.457	31.223
77	Kukadi		1979-80	132	132	0
78	Surya **		1983-84	14.7	1.1	13.6
79	Krishna		1974-75	74	72.939	1.061
80	Chaskaman	Pune	1996-97	43.42	34.774	8.646
81	Upper Penganga	Nanded, Hingoli, Yeotmal	1974-75	104	83.076	20.924
82	Lower Wunna	Nagpur, Wardha	1996-97	21.594	17.475	4.119
83	Bhima	Solapur	1974-75	126	114.249	11.751
84	Nandur Madhumeshwar Canal Project	Ahmednagar, Aurangabad	2009-10	52.864	12.338	40.526
85	Dhombalkawadi Irr.Project	Pune and Satara	2010-11	28.1	3.55	24.55
			TOTAL	**674.358**	**517.958**	**156.4**
* Approved In XVIII meeting of IMSC for deletion. The state govt has, however, requested for continuation of this project and delete upper wandha project, on which 63.46 th. ha. CCA is get to be covered.						
** Approved In XVIII meeting of IMSC for fore elosore. Formal request with details awaited from state government.						
	MANIPUR					
86	cluster of 21 MI scheme in Bishnupur District	Bishnupur	2007-08	9.6	9.636	0
87	Cluster of 37 MI scheme in Thoubal,Ukhrul, Chandel and Churachandpur district	Thoubal, Uhrul and Churachandpur	2007-08	6.42	6.42	0

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Table 28 : List of On-going Projects under CADWM Programme during the period of XI Plan (2007-08 To 2011-12) as on March, 2013

('000 ha)

S. No.	Project Name	Districts benefitted	Year of Inclusion	CCA	CCA Covered till 31.3.2013	Reported balance of executable CCA
1	2	3	4	5	6	7
88	Cluster of 28 MI scheme in East and West Districts of Imphal	Imphal West, Imphal East	2007-08	6.665	6.665	0
89	Khuga Multipupose Project	Churachandpur	2010-11	9.575	4.938	4.637
90	Thoubal Irrigation Project, Ph-II	Thoubal	2010-11	2.485	2.785	0
			TOTAL	**34.745**	**30.144**	**4.601**
	MEGHALAYA					
91	Cluster of 10 MI schemes viz. Tienglam and Pdem etc.		2001-02	2.44	1.354	1.086
92	Cluster of 6 MI schemes -Kynrut, Phudumjer, Nongtraw, Kharukol, Nekora, Madan Umtheid	West khasi Hills, Ri-Bhoi, South Garo Hills	2010-11	0.38	0.371	0.009
			TOTAL	**2.82**	**1.725**	**1.095**
	MIZORAM					
93	Cluster of 5 Minor Irrigation projects	Aizawl, Champai	2011-12	0.222	0.053	0.169
94	Cluster of 60MI Schemes Phase-II I Aizawl, Lunget and Chhimtuipui District		2003-04	3.04	0	3.04
			TOTAL	**3.262**	**0.053**	**3.209**
	NAGALAND					
95	Cluster of 13 Minor Irrigation Projects at Changki Valley	Mokokchung	2011-12	1.08	0.073	1.007
			TOTAL	**1.08**	**0.073**	**1.007**
	ORISSA					
96	Sunie Irrigation Project	Mayurganj, Balasore	2009-10	10	9.706	0.294
97	Jaimangla	Ganjam	1998-99	7.35	3.389	3.961
98	Hirakud	Sambalpur, Badgarh, Bolangir, Subaranpur	1974-75	153.24	150.752	2.488
99	Rengali Irrigation Project, LBC-I & LBC-II Phase-I	Angul, Dhenkanal,	2011-12	41.333	2.11	39.223
100	Mahanadi delta 1974-75	Puri, Khurda, Cuttack, Jajpur, Kendrapara, Jagatsinghpur	1974-75	336.3	36.179	300.121
101	Rushikulya	Ganjam	1994-95	61.23	20.18	41.05

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Table 28 : List of On-going Projects under CADWM Programme during the period of XI Plan (2007-08 To 2011-12) as on March, 2013

('000 ha)

S. No.	Project Name	Districts benefitted	Year of Inclusion	CCA	CCA Covered till 31.3.2013	Reported balance of executable CCA
1	2	3	4	5	6	7
102	Salandi Right	Bhadrak, Keonjhar	1994-95	40.18	12.637	27.543
103	Baitarani	Bhadra, Jajpur	1998-99	32.77	10.895	21.875
104	Potteru	Malkangiri	1985-86	70.1	20.763	49.337
105	Upper Kolab	Koraput	2003-04	47.2	22.608	24.592
106	Gohira Irrigation Project	Deogarh	2009-10	9.172	8.254	0.918
107	Upper Indrawati Major Irrigation Project	Kalahandi	2009-10	128	10.282	117.718
108	Remal Irrigation Project	Keonjhar	2009-10	4.313	4.313	0
			TOTAL	**941.188**	**312.068**	**629.12**
	PUNJAB					
109	Bhatinda Br Part-II	Ludhiana, Barnala, Bathinda & Muktsar	2008-09	181.707	69.218	112.489
110	Upper Bari Doab Canal Command	Guraspur, Amritsar, & Taran Taran	2003-04	184.861	34.471	150.39
111	Sirhind Feeder Part-II Command Project	Ferozpur, faridkot & Muktsar.	2007-08	314.496	144.108	170.388
			TOTAL	**681.064**	**247.797**	**433.267**
	RAJASTHAN					
112	Chambal	Kota, Bundi, baran	1974-75	229	128.019	100.981
113	Amar Singh Sub-Branch and Jassana district of Bhakra canal System.	Hanumangarh	1998-99	67.21	31.738	35.472
114	Sidhmukh Nohar	Hanumangarh, Churu	2003-04	111.46	98.31	13.15
115	Bisalpur Project	Tonk, Deoli, Todarisng, Uniyara	2005-06	81.8	31.605	50.195
116	Gang Canal	Sriganganagar	2010-11	183.201	0	183.201
			TOTAL	**672.671**	**289.672**	**382.999**
	SIKKIM					
117	A Cluster of 17 Minor irrigation of North and East district of Sikkim		2000-01	1.03	0	1.03
118	A Cluster of 21 MI Schemes of South & West district of Sikkim		2000-01	1.22	0.107	1.113
			TOTAL	**2.25**	**0.107**	**2.143**
	TAMIL NADU					
119	Manimuktha Nathi System		2012-13	16.131	0	16.131

Contd..

Table 28 : List of On-going Projects under CADWM Programme during the period of XI Plan (2007-08 To 2011-12) as on March, 2013

('000 ha)

S. No.	Project Name	Districts benefitted	Year of Inclusion	CCA	CCA Covered till 31.3.2013	Reported balance of executable CCA
1	2	3	4	5	6	7
120	Kalingarayan Anicut		2011-12	4.8	2.08	2.72
121	Ellis Anicut Project		2012-13	5.232	0	5.232
122	Cheyyar Anicut		2012-13	7.952235	0	7.952
123	Pelanduarai Anicut		2012-13	6.98507	0	6.985
124	Varsdhamanadhi Reservoir		2011-12	2.323	1.3	1.023
						Contd..
125	Vaigai Project		2010-11	50.188	36.566	13.622
126	Kodaganar Project (DPAP criteria)		2010-11	4.117	3.548	0.569
			TOTAL	**97.72839**	**43.494**	**54.234**
	TRIPURA					
127	Cluster of 4 MI Projects		2003-04	0.44	0.216	0.224
			TOTAL	**0.44**	**0.216**	**0.224**
	UTTAR PRADESH					
128	Sharda Shayak Canal System p-II	Lakhimpur Khiri, Sitapur, Barabanki, Lucknow, Raebareli, Pratapgarh, Sultanpur, Faizabad, Ambednagar, Jaunpur, Azamgarh, Mao, Allahabad, Varanasi, Gazipur, Balia.	2009-10	330	64.9	265.1
129	Tumaria dam canal System	Allahabad	2000-01	64.01	26.99	37.02
130	Sarda Canal Project	Bareilly, Pilibhit, Shahjahanpur, Hardoi, Unnao, Raebareilly, Kheri, sitapur, Lucknow, Barabanki	1989-90	1613	938.193	674.807
131	East Ganga Canal	Bijnor, Jyotiba Fule Nagar	1990-91	233	78.98	154.02
132	Lower Rajghat	Lalitpur	2009-10	43.21	20.2	23.01
133	Betwa & Gursarai Canal	Jhansi, Jaloun, Hamirpur	1990-91	422	271.42	150.58
134	Ken Canal System	Banda	1990-91	222	112.98	109.02
135	Belan Pump Canal System	Allahabad	1997-98	71.05	46.81	24.24
136	Tons Pump Canal System	Allahabad	1997-98	34	27.88	6.12
137	Jakhloun Pump Canal System	Lalitpur	2009-10	29.87	19.93	9.94

Contd..

Table 28 : List of On-going Projects under CADWM Programme during the period of XI Plan (2007-08 To 2011-12) as on March, 2013

('000 ha)

S. No.	Project Name	Districts benefitted	Year of Inclusion	CCA	CCA Covered till 31.3.2013	Reported balance of executable CCA
1	2	3	4	5	6	7
138	Son Pump Canal System		1997-98	93.65	48.6	45.05
139	Saryu Canal System Phase-II	Bahraich, Gonda, Sidharth Nagar, Basti, Gorakkpur, Santkabirnagar, Balrampur, Sravasti	2009-10	280	36.241	243.759
140	Upper Ganga Canal	Manda, Meja, Korawan, Urua	1990-91	457	371.29	85.71
141	Madhya Ganga Canal	Allahabad	1990-91	229	81.44	147.56
142	Sirsi dam Project	Allahabad, Mirzapur	2010-11	44.88	4.988	39.892
			TOTAL	**4166.67**	**2150.842**	**2015.828**
	UTTARAKHAND					
143	Laster Canal's Offshoots		2001-02	1.12	0	1.12
144	Nathuwala & Balawala Canals		2001-02	1.12	1.12	0
145	Jatowala & Prateetpurcanal		2001-02	0.54	0.262	0.278
146	Tumaria Dam canal system		2003-04	32.53	2.094	30.436
			TOTAL	**35.31**	**3.476**	**31.834**
	WEST BENGAL					
147	D.V.C System	Burdwan, Hooghly, Bankura, Howrah	1974-75	391.97	75.001	316.969
148	Kangsabati	Bankura, Midnapur, Hooghly	1974-75	340.75	96.348	244.402
149	Mayurakshi	Birbhum, Murshidabad, Burdwan	1974-75	226.63	45.335	181.295
150	Teesta Barrage	Jalpaiguri, Darjeeling, Uttar Dinajpur, Cooch Behar, Malda	1983-84	165	4.973	160.027
			Total=	**1124.35**	**221.657**	**902.693**
			G.Total=	**16327.58**	**8686.56**	**7641.0144**

Source : Ministry of Water Resources (CAD Wing)

Note : CCA - Cultural Command Area.

TABLE 29: Central Releases under the Command Area Development Programme by State

(Rs. in Lakh)

Sl. No.	Name of the State	Total upto end of VIII Plan	Up to IX Plan	Upto X Plan	Total XI Plan	During XII Plan			Cumulative upto 2014-15
						2012-13	2013-14	2014-15	
1	2	3	4	5	6	7	8	9	10
1	Andhra Pradesh	5458.2	9297.7	9297.7	0.0				9297.7
2	Arunachal Pradesh	0.0	48.5	573.9	586.0	168.8	277.8	150.0	1756.5
3	Assam	1874.0	2066.4	2066.4	820.6	269.5	0.0		3156.5
4	Bihar	10918.4	11218.4	11848.5	11708.1	3000.0	0.0	3881.5	30438.2
5	Chattisgarh	0.0	46.3	2106.3	9677.3	2000.0	0.0		13783.6
6	Goa	897.9	917.9	917.9	87.0	178.9	0.0		1183.8
7	Gujarat	9838.8	10928.7	15038.7	4633.5	1791.5	0.0		21463.7
8	Haryana	8372.8	14450.8	22509.3	22762.6	5515.3	4974.4	1859.0	57620.6
9	Himachal Pradesh	414.5	780.4	1184.7	0.0		0.0		1184.7
10	Jammu & Kashmir	1881.1	2890.4	4753.7	7758.5	3156.7	2163.3	1520.9	19353.2
11	Jharkhand	0.0	0.0	0.0	0.0		0.0		0.0
12	Karnataka	11031.2	18310.1	31451.0	21090.8	3952.9	0.0	2262.0	58756.7
13	Kerala	6475.1	9522.8	9990.2	524.3	28.0	0.0		10542.6
14	Madhya Pradesh	8259.4	8818.1	10966.8	7589.9	2557.7	134.1	2927.3	24175.8
15	Maharashtra	21443.6	25327.5	25873.5	8799.0	409.3	0.0		35081.7
16	Manipur	813.0	1273.4	2065.2	3804.3	775.4	204.2		6849.1
17	Meghalaya	55.9	74.3	118.0	29.1		0.0		147.1
18	Mizoram	0.0	11.9	73.0	19.4		0.0		92.4
19	Nagaland	10.0	164.6	339.2	34.4		0.0		373.6
20	Orissa	4682.4	7594.2	9455.1	12321.9	2341.8	1522.9	3886.9	29528.6
21	Punjab	0.0	5985.6	12262.9	18680.4		8131.2		39074.5
22	Rajasthan	30109.1	43117.4	54716.3	11659.6	1744.4	0.0	232.0	68352.3
23	Sikkim	0.0	5.5	6.8	0.0		0.0		6.8
24	Tamil Nadu	9504.5	17914.5	26969.5	10890.3	1030.8	590.6	349.4	39830.7
25	Tripura	12.2	12.2	19.7	0.0		0.0		19.7
26	Uttar Pradesh	33944.1	49287.7	66308.4	39317.1	7597.8	0.0	2905.0	116128.2
27	Uttarakhand	0.0	0.0	435.5	409.9		0.0		845.4
28	West Bengal	2077.7	3174.2	3748.1	2522.5		0.0		6270.7
	Total	168073.8	243239.5	325096.3	195726.4	36518.7	17998.6	19974.0	595314.1

Source : Ministry of Water Resources (CAD Wing)

Table 30: State-wise and Plan-wise Financial Expenditure on Minor Irrigation - Institutional

Sl. No.	State/ U.T.	IXth Plan (1997-02)	Xth Plan (2002-07)	XI Plan (2007-2012)	XII Plan	
					(2012-13)	(2013-14)
1	2	3	4	5	6	7
1	**Andhra Pradesh**	364.69	277.84	219.10	16.64	31.61
2	**Arunachal Pradesh**	0.00	0.30	0.43	0.00	0.00
3	**Assam**	0.02	1.72	2.85	0.01	0.93
4	**Bihar**	12.92	283.58	85.68	46.57	17.89
5	**Chhattisgarh**	Included in M.P.	40.97	13.15	14.82	2.69
6	**Goa,Daman & Diu**	0.94	0.18	0.06	0.00	0.02
7	**Gujarat**	40.46	148.73	212.25	82.44	109.10
8	**Haryana**	183.90	168.88	638.08	67.37	26.95
9	**Himachal Pradesh**	113.10	21.25	19.80	0.00	4.03
10	**Jammu & Kashmir**	0.51	0.08	0.00	0.01	0.00
11	**Jharkhand**	Included in Bihar	1.82	4.47	1.90	0.00
12	**Karnataka**	127.43	235.73	417.66	85.62	62.80
13	**Kerala**	92.59	73.65	159.48	118.79	6.31
14	**Madhya Pradesh**	146.29	368.52	199.32	13.85	11.70
15	**Maharashtra**	102.16	277.57	97.08	206.48	118.35
16	**Manipur**	0.00	0.38	0.00	0.00	0.00
17	**Meghalya**	0.00	0.00	0.00	0.00	0.00
18	**Mizoram**	0.11	0.18	0.00	0.00	0.00
19	**Nagaland**	0.00	0.00	0.66	0.00	0.00
20	**Odisha**	1.24	21.64	7.34	8.39	0.05
21	**Punjab**	197.80	275.91	307.34	31.94	25.91
22	**Rajasthan**	363.74	252.79	175.87	10.21	66.84
23	**Sikkim**	0.00	0.00	0.00	0.00	0.00
24	**Tamil Nadu**	15.72	54.49	102.43	32.45	25.30
25	**Tripura**	0.09	0.12	0.00	0.00	0.00
26	**Uttarakhand**	Included in U.P.	0.08	0.34	0.00	0.00
27	**Uttar Pradesh**	884.08	754.70	390.80	0.44	6.07
28	**West Bengal**	11.85	13.98	4.19	0.33	1.32
	Total States	2659.64	3255.09	3058.39	738.26	517.87
29	**A & N Island**	-	0.04	0.04	0.00	0.00
30	**Chandigarh**	-	0.00	0.04	0.00	0.00
31	**Dadar & N. Haveli**	-	0.00	0.00	0.00	0.00
4	**Daman & Diu**	-	0.00	0.00	0.00	0.00
32	**Delhi**	-	0.00	0.00	0.00	0.00
33	**Puducherry**	-	2.19	0.19	0.99	0.00
34	**Lakshadweep**	-	0.03	0.00	0.00	0.00
Total U.Ts.		2.00	2.26	0.27	0.00	0.00
GRAND TOTAL		**2661.64**	**3257.35**	3058.66	739.25	517.87

Source: Ministry of Water Resources (Minor Irrigation Division).

Table 31: Water Rates for Flow Irrigation by State

Sl. No.	States/UTs	FOR IRRIGATION PURPOSES Flow Irrigation		Status as on
		Rate (Rs/ha)	Date since Applicable	
1	2	3	4	5
1	Andhra Pradesh	148.20 to 1235.00	1/7/1996	24-11-2011
2	Arunachal Pradesh	No water rates	-	22-03-2013
3	Assam	150.00 to 751.00	30-03-2000	12/3/2014
4	Bihar	74.10 to 370.50	17-11-95/26-11-01 *	8/2/2010
5	Chhattisgarh	123.50 to 741.00	15-06-1999	22-10-2014
6	Delhi	34.03 to1067.04	N.A.	14-01-2009
7	Goa	60.00 to300.00	1/2/1988	9/3/2010
8	Gujarat	160.00 to 300	1/1/2007	18-11-2011
9	Haryana	24.70 to197.60	27-07-2000	4/4/2013
10	Himachal Pradesh	28.17	1/4/2009	3/2/2010
11	Jammu & Kashmir	93.90 to 2999.92	1/4/2015	14-02-2014
12	Jharkhand	74.10 to 370.50	26-11-2001 & 14.11.1995	13-01-2009
13	Karnataka	37.05 to 988.45	13-07-2000	20-05-2013
14	Kerala	37.00 to 99.00	18-09-1974	6/2/2009
15	Madhya Pradesh	50.00 to 960.00	1/11/2005	12/4/2013
16	Maharashtra	238.00 to 6297.00	1/7/2003	2/4/2009
17	Manipur	45.00 to 150.00	August, 2003	27-12-2008
18	Meghalaya	No water rates	-	13-02-2014
19	Mizoram	No water rates	-	3/5/2013
20	Nagaland	No water rates	-	29-11-2011
21	Orissa	28.00 to 930.00	5/4/2002	5/1/2010
22	Punjab	370.67	28-01-2010	8/4/2013
23	Rajasthan	29.64 to 607.62	24-05-1999	18-02-2014
24	Sikkim	10 .00 to 250.00	2002	19-01-2010
25	Tamil Nadu	2.77 to 61.78	6/11/1987	4/3/2002
26	Tripura	312.5	1/10/2003	1/4/2009
27	Uttarakhand	35.00 to 474.00	18-09-1995	18-12-2006
28	Uttar Pradesh	30.00 to 474.00	18-09-1995	5/3/2013
29	West Bengal	37.06 to123.50	6/4/1977	3/2/2010
30	A & N Islands	No water rates	-	1/1/2009
31	Chandigarh	No water rates	-	1/2/2010
32	Dadra & Nagar Havel	110.00 to 830.00	29-01-1996	31-08-2005
33	Daman & Diu	200	1980	28-08-2008
34	Lakshadweep	No water rates	-	12/6/2008
35	Pondicherry	No water rates	1/1/2005	12/12/2008

Source: Hydrology Data Directorate, ISO, Central Water Commission

* : For Wheat crops

Table 32: Water Rates for Lift Irrigation by State

Sl No.	States/UTs	FOR IRRIGATION PURPOSES Lift Irrigation		Status As On
		Rate (Rs/ha)	Date since Applicable	
1	2	3	4	5
1	Andhra Pradesh	148.20 to 1235.00	7/1/1996	24-11-2011
2	Arunachal Pradesh	No water rates specified for irrigation	-	23-02-2013
3	Assam	150.00 to 751.00	30-03-2000	12/3/2014
4	Bihar	333.45 to1970.75	6/5/1998	8/2/2010
5	Chhattisgarh	123.50 to 741.00	15.06.1999	5/2/2010
6	Delhi	33.35 to 1067.04	N.A.	14-01-2009
7	Goa	120.00 to 600.00	1/2/1988	9/3/2010
8	Gujarat	53.33 to100.00	1/1/2007	18-11-2011
9	Haryana	43.23 to 98.80	27-07-2000	4/4/2013
10	Himachal Pradesh	56.34	1/4/2009	3/2/2010
11	Jammu & Kashmir	93.90 to 2999.92	1/4/2015	14-02-2014
12	Jharkhand	No separate rate for lift irrigation	-	13-01-2009
13	Karnataka	74.00 to 1976.60	13-07-200	20-05-2013
14	Kerala	17 .00 to148.50	18-09-1974	9/3/2010
15	Madhya Pradesh	50.00 to 960.00	1/11/2005	12/4/2013
16	Maharashtra	297.00 to 5405.00	1/7/2003	13-04-2010
17	Manipur	45.00 to 150.00	1/8/2003	27-12-2008
18	Meghalaya	No water rates	-	13-02-2014
19	Mizoram	No water rates	-	3/5/2013
20	Nagaland	No water rates	-	29-11-2011
21	Orissa	No separate rate for lift irrigation	5/4/2000	30-03-2010
22	Punjab	370.67	28-01-2010	8/4/2013
23	Rajasthan	14.80 to 1215.24	24-05-1999	18-02-2014
24	Sikkim	No separate rate for lift irrigation	-	19-01-2010
25	Tamil Nadu	No separate rate for lift irrigation	-	2/1/2009
26	Tripura	312.5	1/10/2003	1/4/2009
27	Uttaranchal	15.00 to 237.00	18-09-1995	6/1/2009
28	Uttar Pradesh	15.00 to 237.00	18-09-1995	5/3/2013
29	West Bengal	251.94 to 2015.52	1/7/2003	3/2/2010
30	A & N Islands	No water rates	-	13-01-2009
31	Chandigarh	23.00 per hour	1/1/2010	1/2/2010
32	Dadra & Nagar Haveli	75.00 to 275.00	NA	31-08-2005
33	Daman & Diu	200	1980	28-08-2008
34	Lakshadweep	No water rates	-	12/6/2008
35	Pondicherry	No Separate rate for lift irrigation	1/1/2005	12/12/2008

Source: Hydrology Data Directorate, ISO, Central Water Commission

Table 33: Flood Damage During 1953 TO 2013

Sl. No.	Year	Area affected (M.Ha.)	Population affected million	Damage to Crops		Damage to Houses		Cattle lost Nos. ('000)	Human live lost Nos.	Damage to public utilities in (Rs.Crore)	Total damages Crops, Houses & Public utilities in Rs.Crores (col.6+8+11)
				Area (M.Ha.)	Value Rs.Crore	Nos. ('000)	Value in (Rs.Crore)				
1	2	3	4	5	6	7	8	9	10	11	12
1	1953	2.29	24.28	0.93	42.08	265	7.42	47	37	2.90	52.40
2	1954	7.49	12.92	2.61	40.52	200	6.56	23	279	10.15	57.23
3	1955	9.44	25.27	5.31	77.80	1667	20.95	72	865	3.98	102.73
4	1956	9.24	14.57	1.11	44.44	726	8.05	16	462	1.14	53.63
5	1957	4.86	6.76	0.45	14.12	318	4.98	7	352	4.27	23.37
6	1958	6.26	10.98	1.40	38.28	382	3.90	18	389	1.79	43.97
7	1959	5.77	14.52	1.54	56.76	649	9.42	73	619	20.02	86.20
8	1960	7.53	8.35	2.27	42.55	610	14.31	14	510	6.31	63.17
9	1961	6.56	9.26	1.97	24.04	533	0.89	16	1374	6.44	31.37
10	1962	6.12	15.46	3.39	83.18	514	10.66	38	348	1.05	94.89
11	1963	3.49	10.93	2.05	30.17	421	3.70	5	432	2.74	36.61
12	1964	4.90	13.78	2.49	56.87	256	4.59	5	690	5.15	66.61
13	1965	1.46	3.61	0.27	5.87	113	0.20	7	79	1.07	7.14
14	1966	4.74	14.40	2.16	80.15	217	2.54	9	180	5.74	88.43
15	1967	7.12	20.46	3.27	133.31	568	14.26	6	355	7.86	155.43
16	1968	7.15	21.17	2.62	144.61	683	41.11	130	3497	25.37	211.10
17	1969	6.20	33.22	2.91	281.90	1269	54.42	270	1408	68.11	404.44
18	1970	8.46	31.83	4.91	162.78	1434	48.61	19	1076	76.44	287.83
19	1971	13.25	59.74	6.24	423.13	2428	80.24	13	994	129.11	632.48
20	1972	4.10	26.69	2.45	98.56	897	12.46	58	544	47.17	158.19
21	1973	11.79	64.08	3.73	428.03	870	52.48	261	1349	88.49	569.00
22	1974	6.70	29.45	3.33	411.64	747	72.43	17	387	84.94	569.02
23	1975	6.17	31.36	3.85	271.49	804	34.10	17	686	166.05	471.64
24	1976	11.91	50.46	6.04	595.03	1746	92.16	80	1373	201.50	888.69
25	1977	11.46	49.43	6.84	720.61	1662	152.29	556	11316	328.95	1201.85
26	1978	17.50	70.45	9.96	911.09	3508	167.57	239	3396	376.10	1454.76
27	1979	3.99	19.52	2.17	169.97	1329	210.61	618	3637	233.63	614.20
28	1980	11.46	54.12	5.55	366.37	2533	170.85	59	1913	303.28	840.50
29	1981	6.12	32.49	3.27	524.56	913	159.63	82	1376	512.31	1196.50
30	1982	8.87	56.01	5.00	589.40	2397	383.87	247	1573	671.61	1644.88
31	1983	9.02	61.03	3.29	1285.85	2394	332.33	153	2378	873.43	2491.61
32	1984	10.71	54.55	5.19	906.09	1764	181.31	141	1661	818.16	1905.56
33	1985	8.38	59.59	4.65	1425.37	2450	583.86	43	1804	2050.04	4059.27

Contd…

Table 33: Flood Damage During 1953 TO 2013

Sl. No.	Year	Area affected (M.Ha.)	Population affected million	Damage to Crops		Damage to Houses		Cattle lost Nos. ('000)	Human live lost Nos.	Damage to public utilities in (Rs.Crore)	Total damages Crops, Houses & Public utilities in Rs.Crores (col.6+8+11)
				Area (M.Ha.)	Value Rs.Crore	Nos. ('000)	Value in (Rs.Crore)				
1	2	3	4	5	6	7	8	9	10	11	12
34	1986	8.81	55.50	4.58	1231.58	2049	534.41	60	1200	1982.54	3748.53
35	1987	8.89	48.34	4.94	1154.64	2919	464.49	129	1835	950.59	2569.72
36	1988	16.29	59.55	10.15	2510.90	2277	741.60	151	4252	1377.80	4630.30
37	1989	8.06	34.15	3.01	956.74	782	149.82	75	1718	1298.77	2405.33
38	1990	9.30	40.26	3.18	695.61	1020	213.73	134	1855	455.27	1708.92
39	1991	6.36	33.89	2.70	579.02	1134	180.42	41	1187	728.89	1488.33
40	1992	2.65	19.26	1.75	1027.58	687	306.28	79	1533	2010.67	3344.53
41	1993	11.44	30.41	3.21	1308.63	1926	528.32	211	2864	1445.53	3282.49
42	1994	4.81	27.55	3.96	888.62	915	165.21	52	2078	740.76	1794.59
43	1995	5.25	35.93	3.25	1714.79	2002	1307.89	62	1814	679.63	3702.31
44	1996	8.05	44.73	3.83	1124.49	727	176.59	73	1803	861.39	3005.74
45	1997	4.57	29.66	2.26	692.74	505	152.50	28	1402	1985.93	2831.18
46	1998	10.85	47.44	7.50	2594.17	1933	1108.78	107	2889	5157.77	8860.72
47	1999	7.77	27.99	1.75	1850.87	1613	1299.06	91	745	462.83	3612.76
48	2000	5.38	45.01	3.58	4246.62	2629	680.94	123	2606	3936.98	8864.54
49	2001	6.18	26.46	3.96	688.48	716	816.47	33	1444	5604.46	7109.42
50	2002	7.09	26.32	2.19	913.09	762	599.37	22	1001	1062.08	2574.54
51	2003	6.12	43.20	4.27	7307.23	775	756.48	15	2166	3262.15	11325.87
52	2004	5.31	43.73	2.89	778.69	1664	879.60	134	1813	1656.09	3314.38
53	2005	12.56	22.93	12.30	2370.92	716	380.53	120	1455	4688.22	7439.67
54	2006	1.10	25.22	1.82	2850.67	1497	3636.85	267	1431	13303.93	19790.92
55	2007	7.14	41.40	8.79	3121.53	3280	2113.11	89	3389	8049.04	13283.68
56	2008	3.43	29.91	3.19	3401.56	1567	1141.89	102	2876	5046.48	9589.94
57	2009	3.84	29.54	3.59	4232.61	1236	10809.80	63	1513	17509.35	32551.76
58	2010	2.62	18.30	4.99	5887.38	294	875.95	40	1582	12757.25	19520.59
59	2011	1.90	15.97	2.72	1393.85	1153	410.48	36	1761	6053.57	7857.89
60	2012	2.14	14.69	1.95	1534.11	175	240.57	32	933	9169.97	10944.65
61	2013	31.58	21.15	316.90	3214.99	662	526.12	157	2137	3938.12	11095.14
	TOTAL	**459.97**	**1949.22**	**542.42**	**70758.73**	74879	**34140.02**	5887	**100621**	**123311.37**	**232813.09**
	AVG	**7.54**	**31.95**	**8.89**	**1159.98**	1228	**559.67**	97	**1650**	**2021.50**	**3816.61**
	MAX	**31.58**	**70.45**	**316.90**	**7307.23**	3508	**10809.80**	618	**11316**	**17509.35**	**32551.76**
	(YEAR)	2013	1978	2013	2003	1978	2009	1979	1977	2009	2009

Source : FFM Directorate, CWC

Table 34: Statewise Damage due to Flood during 2013

Sl. No.	Name of State/Uts.	Area Affected (Mill. Ha.)	Population Affected (Million)	Damage to Crops		Damage to Houses		Cattle lost Nos.	Human lives lost Nos.	Damage to Public utilities (Rs. Crores)	Total damages to crops, houses & public
				Area (M.Ha.)	Value (Rs. Crores)	Nos.	Value (Rs. Crores)				
1	2	3	4	5	6	7	8	9	10	11	12
1	ANDHRA PRADESH	0.00	3.02	1.63	44.91	75304.00	2.24	2743.00	88.00	66.96	114.28
2	ARUNACHAL PRADESH	30.67	0.31	313.57	8.25	986.00	12.85	75.00	52.00	854.42	875.52
3	ASSAM	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	BIHAR	0.00	6.90	0.60	105.72	156518.00	24.02	6548.00	218.00	16.61	146.35
5	CHATTISGARH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	GOA	0.00	0.00	0.00	0.00	4.00	0.01	0.00	0.00	0.00	0.01
7	GUJARAT	0.00	0.18	0.00	7.75	407.00	0.14	274.00	186.00	0.00	7.89
8	HARYANA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	HIMACHAL PRADESH	0.10	0.00	0.10	506.00	11243.00	200.00	24267.00	73.00	2228.37	2934.37
10	JAMMU & KASHMIR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	JHARKHAND	0.00	0.20	0.02	3.89	528.00	0.20	1.00	3.00	0.00	4.10
12	KARNATAKA	0.00	0.00	0.23	1703.07	12310.00	10.00	368.00	124.00	0.00	1713.07
13	KERALA	0.00	2.84	0.01	138.80	26694.00	36.83	80059.00	198.00	499.90	675.53
14	MADHYA PRAADESH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	MAHARASHTRA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	MANIPUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	MEGHALAYA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	MIZORAM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	NAGALAND	0.00	0.08	0.00	1.72	982.00	29.89	2680.00	0.00	1.80	33.41
20	ORISSA	0.00	0.39	0.05	0.00	5857.00	0.22	34.00	24.00	0.00	0.22
21	PUNJAB	0.16	0.01	0.11	136.46	36206.00	25.04	954.00	44.00	195.42	356.92
22	RAJASTHAN	0.07	0.23	0.04	22.30	13108.00	3.86	157.00	14.00	60.86	87.02
23	SIKKIM	0.00	0.20	0.00	0.00	34.00	0.00	106.00	16.00	0.00	156.20
24	TAMILNADU	0.00	0.00	0.00	0.00	1314.00	0.00	258.00	92.00	0.00	0.00
25	TRIPURA	0.00	0.02	0.00	2.16	3338.00	1.85	0.00	4.00	0.20	4.22
26	UTTAR PRADESH	0.56	3.54	0.35	0.00	79600.00	0.00	550.00	380.00	0.00	3259.53
27	UTTARAKHAND	0.00	0.11	0.00	0.00	4726.00	0.00	9470.00	580.00	0.00	0.00
28	WEST BENGAL	0.00	3.11	0.18	533.95	233336.00	178.97	28311.00	41.00	13.58	726.50
29	A & N ISLAND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	CHANDIGARH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01
34	LAKSHADWEEP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	PUDUCHCHERRY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	31.58	21.15	316.90	3214.99	662495.00	526.12	156855.00	2137.00	3938.12	11095.14

Source : FFM Directorate, CWC

Table 35 : Flood Forcasting Performance at various Forcasting stations during during the flood season 2012

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2012				
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)	No.of Forecasts issued	No.of Forecasts within limits	Percent-age of accuracy
1	2	3	4	5	6	7	8	9	10	11	12	13.00
	Ganga Basin											
1	Alaknanda	Srinagar	Uttaranchal	539.00	540.00	536.85	05/09/1995	535.50	04/Aug/12 06	0	0	
2	Ganga	Rishikesh	Uttaranchal	339.50	340.50	341.72	05/09/1995	339.95	04/Aug/12 11	4	4	100.00
3	Ganga	Haridwar	Uttaranchal	293.00	294.00	296.30	19/09/2010	294.30	04/Aug/12 11	5	3	60.00
4	Ganga	Narora Barrage	Uttar Pradesh			180.61	23/09/2010	179.6	08/Aug/12 16	60	59	98.33
5	Ganga	Kannauj	Uttar Pradesh	124.97	125.97	126.78	27/09/2010	125.15	23/Sep/12 05	4	4	100.00
6	Ganga	Ankinghat	Uttar Pradesh	123.00	124.00	124.49	28/09/2010	123.38	23/Sep/12 13	6	6	100.00
7	Ganga	Kanpur	Uttar Pradesh	113.00	114.00	114.08	29/09/2010	112.465	23/Sep/12 16	7	7	100.00
8	Ganga	Dalmau	Uttar Pradesh	98.36	99.36	99.84	03/08/1973	98.44	23/Sep/12 17	2	2	100.00
9	Ganga	Phphamau	Uttar Pradesh	83.73	84.73	87.98	08/09/1978	80.48	27/Aug/12 09	0	0	
10	Ganga	Allahabad Chhatnag	Uttar Pradesh	83.73	84.73	88.03	08/09/1978	79.55	26/Aug/12 13	0	0	
11	Ganga	Mirzapur	Uttar Pradesh	76.72	77.72	80.34	09/09/1978	73.58	16/Sep/12 18	0	0	
12	Ganga	Varanasi	Uttar Pradesh	70.26	71.26	73.90	09/09/1978	68.17	16/Sep/12 23	0	0	
13	Ganga	Ghazipur	Uttar Pradesh	62.11	63.11	65.22	09/09/1978	62.39	18/Sep/12 01	2	2	100.00
14	Ganga	Buxar	Bihar	59.32	60.32	62.09	1948	59.35	18/Sep/12 08	2	2	100.00
15	Ganga	Ballia	Uttar Pradesh	56.62	57.62	60.25	14/09/2003	58.44	19/Sep/12 17	32	32	100.00
16	Ganga	Patna Dighaghat	Bihar	49.45	50.45	52.52	23/08/1975	50.15	21/Sep/12 17	9	9	100.00
17	Ganga	Patna Gandhighat	Bihar	47.60	48.60	50.27	14/08/1994	49.27	21/Sep/12 11	46	46	100.00
18	Ganga	Hathidah	Bihar	40.76	41.76	43.15	07/08/1971	42.21	22/Sep/12 06	38	38	100.00
19	Ganga	Munger	Bihar	38.33	39.33	40.99	19/09/1976	38.71	23/Sep/12 10	6	6	100.00

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Table 35 : Flood Forcasting Performance at various Forcasting stations during during the flood season 2012

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2012				
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)	No.of Forecasts issued	No.of Forecasts within limits	Percent-age of accuracy
1	2	3	4	5	6	7	8	9	10	11	12	13.00
20	Ganga	Bhagalpur	Bihar	32.68	33.68	34.20	17/09/2003	33.69	23/Sep/12 18	11	11	100.00
21	Ganga	Kahalgaon	Bihar	30.09	31.09	32.87	17/09/2003	31.64	23/Sep/12 21	47	47	100.00
22	Ganga	Sahibgunj	Jharkhand	26.25	27.25	30.91	1998	28.21	25/Sep/12 05	56	56	100.00
23	Ganga	Farakka	West Bengal	21.25	22.25	25.14	07/09/1998	23.35	24/Sep/12 15	122	118	96.72
24	Ramganga	Moradabad	Uttar Pradesh	189.60	190.60	192.88	21/09/2010	189.8	18/Aug/12 19	2	2	100.00
25	Ramganga	Bareilly	Uttar Pradesh	162.70	163.70	162.88	06/8/1978	160.33	06/Aug/12 18	0	0	
26	Yamuna	Tajewala Weir	Haryana			328.27	03/09/1978	334.50	04/Aug/12 00	0	0	
27	Yamuna	Mawi	Uttar Pradesh	230.00	230.85	232.45	26/09/1988	230.42	05/Aug/12 00	13	13	100.00
28	Yamuna	Delhi Rly Bridge	NCT Delhi	204.00	204.83	207.49	06/09/1978	204.70	29/Aug/12 00	11	10	91.00
29	Yamuna	Mathura	Uttar Pradesh	164.20	165.20	169.73	08/09/1978	165.02	30/Aug/12 00	20	20	100.00
30	Yamuna	Agra	Uttar Pradesh	151.40	152.40	154.76	09/09/1978	150.13	31/Aug/12 08	0	0	
31	Yamuna	Etawa	Uttar Pradesh	120.92	121.92	126.13	11/09/1978	119.50	01/Sep/12 12	0	0	
32	Yamuna	Auraiya	Uttar Pradesh	112.00	113.00	118.19	25/08/1996	107.56	25/Aug/12 12	0	0	
33	Yamuna	Kalpi	Uttar Pradesh	107.00	108.00	112.98	25/08/1996	102.66	25/Aug/12 12	0	0	
34	Yamuna	Hamirpur	Uttar Pradesh	102.63	103.63	108.59	12/09/1983	98.10	25/Aug/12 11	0	0	
35	Yamuna	Chilaghat	Uttar Pradesh	99.00	100.00	105.16	06/09/1978	94.42	25/Aug/12 12	0	0	
36	Yamuna	Naini	Uttar Pradesh	83.74	84.74	87.99	08/09/1978	80.12	26/Aug/12 15	0	0	
37	Sahibi	Dhansa	NCT Delhi	211.44	212.44	213.58	06/08/1977	209.95	06/Sep/12 00	0	0	
38	Chambal	Gandhisagar Dam	Madhya Pradesh	399.99				398.53	05/Oct/12 08	9	7	77.78
39	Betwa	Mohana	Uttar Pradesh	121.66	122.66	133.69	11/09/1983	118.91	23/Aug/12 12	0	0	

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Table 35 : Flood Forcasting Performance at various Forcasting stations during during the flood season 2012

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2012				
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)	No.of Forecasts issued	No.of Forecasts within limits	Percent-age of accuracy
1	2	3	4	5	6	7	8	9	10	11	12	13.00
40	Betwa	Sahjina	Uttar Pradesh	103.54	104.54	108.67	12/09/1983	98.27	24/Aug/12 10	0	0	
41	Ken	Banda	Uttar Pradesh	103.00	104.00	113.29	07/0720/05	102.70	23/Aug/12 15	0	0	
42	Gomati	Lucknow HanumanSetu	Uttar Pradesh	108.50	109.50	110.85	10/09/1971	106.13	14/Sep/12 04	0	0	
43	Gomati	Jaunpur	Uttar Pradesh	73.07	74.07	77.74	22/09/1971	71.29	19/Sep/12 02	0	0	
44	SAI	Raibareli	Uttar Pradesh	100.00	101.00	104.81	17/09/1982	100.654	20/Sep/12 01	7	6	85.71
45	Ghaghra	Elgin Bridge	Uttar Pradesh	105.07	106.07	107.56	10/10/2009	107.206	18/Sep/12 23	72	71	98.61
46	Ghaghra	Ayodhya	Uttar Pradesh	91.73	92.73	94.01	11/10/2009	93.350	21/Sep/12 07	68	68	100.00
47	Ghaghra	Turtipar	Uttar Pradesh	63.01	64.01	66.00	28/08/1998	64.820	22/Sep/12 01	67	66	98.51
48	Ghaghra	Darauli	Bihar	59.82	60.82	61.74	29/08/1998	61.535	22/Sep/12 07	64	64	100.00
49	Ghaghra	Gangpur Siswan	Bihar	56.04	57.04	58.01	18/09/1983	57.580	22/Sep/12 01	42	42	100.00
50	Ghaghra	Chhapra	Bihar	52.68	53.68	54.59	03/09/1982	53.370	20/Sep/12 00	8	8	100.00
51	Rapti	Balrampur	Uttar Pradesh	103.62	104.62	105.25	11/09/2000	104.895	07/Aug/12 04	30	29	96.67
52	Rapti	Bansi	Uttar Pradesh	83.90	84.90	85.82	21/08/1998	84.495	10/Aug/12 15	26	25	96.15
53	Rapti	Gorakpur Birdghat	Uttar Pradesh	73.98	74.98	77.54	23/08/1998	74.780	21/Sep/12 18	16	16	100.00
54	Sone	Inderpuri	Bihar	107.20	108.20	108.85	23/08/1975	106.00	16/Sep/12 08	0	0	
55	Sone	Koelwar	Bihar	54.52	55.52	58.88	20/07/1971	53.38	17/Sep/12 08	0	0	
56	Sone	Maner	Bihar	51.00	52.00	53.79	10/09/1976	52.22	21/Sep/12 07	19	19	100.00
57	PunPun	Sripalpur	Bihar	49.60	50.60	53.91	18/09/1976	52.47	19/Sep/12 10	31	30	96.77
58	Gandak	Khadda	Uttar Pradesh	95.00	96.00	97.50	23/07/2002	95.85	18/Sep/12 14	39	39	100.00
59	Gandak	Chatia	Bihar	68.15	69.15	70.04	26/07/2002	67.28	20/Sep/12 23	0	0	

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Table 35 : Flood Forcasting Performance at various Forcasting stations during during the flood season 2012

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2012				
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)	No.of Forecasts issued	No.of Forecasts within limits	Percent-age of accuracy
1	2	3	4	5	6	7	8	9	10	11	12	13.00
60	Gandak	Rewaghat	Bihar	53.41	54.41	55.41	17/09/1986	54.20	21/Sep/12 19	11	11	100.00
61	Gandak	Hazipur	Bihar	49.32	50.32	50.93	1948	49.93	21/Sep/12 16	8	8	100.00
62	Burhi Gandak	Lalbeghiaghat	Bihar	62.20	63.20	67.09	30/07/1975	62.13	21/Sep/12 07	0	0	
63	Burhi Gandak	Muzaffarpur Sikandarpur	Bihar	51.53	52.53	54.29	15/08/1987	51.18	22/Sep/12 21	0	0	
64	Burhi Gandak	Samastipur	Bihar	45.02	46.02	49.38	15/08/1987	45.25	24/Sep/12 16	5	5	100.00
65	Burhi Gandak	Rosera	Bihar	41.63	42.63	46.35	16/08/1987	42.41	25/Sep/12 09	8	8	100.00
66	Burhi Gandak	Khagaria	Bihar	35.58	36.58	39.22	1976	37.55	23/Sep/12 09	35	35	100.00
67	Bagmati	Benibad	Bihar	47.68	48.68	50.01	12/07/2004	49.34	16/Sep/12 09	67	67	100.00
68	Bagmati	Hayaghat	Bihar	44.72	45.72	48.96	14/08/1987	45.65	22/Sep/12 06	9	9	100.00
69	Adhwara Group	Kamtaul	Bihar	49.00	50.00	52.99	12/08/1987	50.56	20/Sep/12 18	25	25	100.00
70	Adhwara Group	Ekmighat	Bihar	45.94	46.94	49.52	12/07/2004	46.52	22/Sep/12 13	10	10	100.00
71	Kamla Balan	Jhanjharpur	Bihar	49.00	50.00	53.01	10/07/2004	50.90	16/Jul/12 07	30	30	100.00
72	Kosi	Basua	Bihar	46.75	47.75	49.17	25/08/2010	48.37	26/Jul/12 14	186	186	100.00
73	Kosi	Baltara	Bihar	32.85	33.85	36.40	15/08/1987	34.17	05/Sep/12 06	74	74	100.00
74	Kosi	Kursela	Bihar	29.00	30.00	32.04	06/09/1998	30.78	24/Sep/12 14	50	50	100.00
75	Mahananda	Dhengraghat	Bihar	34.65	35.65	38.09	1968	36.65	17/Jul/12 05	27	27	100.00
76	Mahananda	Jhawa	Bihar	30.40	31.40	33.51	14/08/1987	32.16	20/Jul/12 21	37	37	100.00
77	Mayurakshi	Massanjore Dam	Jharkhand	121.31		122.87	25/09/1999	116.159	26/Sep/12 12	3	3	100.00
78	Mayurakshi	Tilpara Barrage	West Bengal	62.79		67.05	27/09/1978	62.728	30/Sep/12 17	4	4	100.00
79	Mayurakshi	Narayanpur	West Bengal	26.99	27.99	29.69	27/09/1995	24.30	15/Sep/12 10	0	0	
80	Ajoy	Gheropara	West Bengal	38.42	39.42	43.94	27/09/1978	37.92	18/Aug/12 05	0	0	

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Table 35 : Flood Forcasting Performance at various Forcasting stations during during the flood season 2012

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2012				
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)	No.of Forecasts issued	No.of Forecasts within limits	Percent-age of accuracy
1	2	3	4	5	6	7	8	9	10	11	12	13.00
81	Damodar	Tenughat Dam	Jharkhand	268.83		265.56	17/09/1985	262.10	15/Aug/12 02	42	42	100.00
82	Damodar	Panchet Dam	Jharkhand	132.59		132.89	02/10/1959	127.81	12/Sep/12 12	56	56	100.00
83	Damodar	Durgapur Barrage	West Bengal	64.47		64.47	31/10/2002	64.47		47	47	100.00
84	Barakar	Maithon Dam	Jharkhand	150.88		151.79	02/10/1959	147.41	23/Sep/12 00	31	30	96.80
85	Mundeshwari	Harinkhola	West Bengal	11.80	12.80	14.58	29/09/1978	11.77	18/Aug/12 14	0	0	
86	Kangsabati	Kangsabati Dam	West Bengal	134.11		134.71	02/09/1978	132.48	10/Sep/12 16	40	40	100.00
87	Kangsabati	Mohanpur	West Bengal	24.73	25.73	29.87	02/09/1978	21.82	07/Sep/12 18	0	0	
	Brahmaputra Basin											
88	Brahmaputra	Dibrugrah	Assam	103.24	104.24	106.48	03/09/1998	106.34	25/Jun/12 19	178	178	100.00
89	Brahmaputra	Neamatighat	Assam	84.04	85.04	87.37	11/07/1991	87.25	26/Jun/12 16	139	139	100.00
90	Brahmaputra	Tezpur	Assam	64.23	65.23	66.59	27/08/1988	66.13	28/Jun/12 14	67	67	100.00
91	Brahmaputra	Guwahati	Assam	48.68	49.68	51.46	21/07/2004	50.75	26/Sep/12 09	67	67	100.00
92	Brahmaputra	Goalpara	Assam	35.27	36.27	37.43	31/07/1954	37.08	30/Jun/12 09	69	69	100.00
93	Brahmaputra	Dhubri	Assam	27.62	28.62	30.36	28/08/1988	29.92	30/Jun/12 14	224	224	100.00
94	Burhidihing	Naharkatia	Assam	119.40	120.40	122.69	17/06/1973	118.98	25/Jun/12 10	0	0	
95	Burhidihing	Khowang	Assam	101.11	102.11	103.92	25/08/1988	103.05	20/Jul/12 20	57	57	100.00
96	Desang	Nanglamoraghat	Assam	93.46	94.46	96.49	06/09/1998	95.74	03/Aug/12 17	74	74	100.00
97	Dikhow	Shivsagar	Assam	91.40	92.40	95.62	08/07/1974	94.01	30/Jul/12 01	76	76	100.00
98	Subansiri	Badatighat	Assam	81.53	82.53	86.84	28/06/1972	82.92	25/Sep/12 02	23	23	100.00
99	Dhansiri (S)	Golaghat	Assam	88.50	89.50	91.30	11/10/1986	89.62	30/Aug/12 12	15	15	100.00
100	Dhansiri (S)	Numaligarh	Assam	76.42	77.42	79.87	24/09/1985	78.39	31/Aug/12 00	229	229	100.00

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Table 35 : Flood Forcasting Performance at various Forcasting stations during during the flood season 2012

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2012				
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)	No.of Forecasts issued	No.of Forecasts within limits	Percent-age of accuracy
1	2	3	4	5	6	7	8	9	10	11	12	13.00
101	Jiabharali	Jiabharali_NTX	Assam	76.00	77.00	78.50	26/07/2007	78.05	15/Jul/12 12	377	370	98.14
102	Kopilli	Kampur	Assam	59.50	60.50	61.86	16/06/1973	61.59	28/Jun/12 17	14	14	100.00
103	Kopilli	Dharmatul	Assam	55.00	56.00	58.09	21/07/2004	56.13	30/Jun/12 04	47	47	100.00
104	Puthimari	Puthimari _NHX	Assam	50.81	51.81	55.08	31/08/2008	53.75	26/Jun/12 21	56	55	98.21
105	Pagladiya	Pagladia_NTX	Assam	51.75	52.75	55.45	08/07/2004	53.56	27/Jun/12 16	38	38	100.00
106	Beki	Beki NHX	Assam	44.10	45.10	46.20	04/08/2000	45.97	26/Jun/12 17	202	202	100.00
107	Manas	Manas NHX	Assam	47.81	48.42	50.08	15/09/1984	49.20	15/Jun/12 13	64	64	100.00
108	Sankosh	Golakganj	Assam	28.94	29.94	30.95	08/09/2007	30.10	20/Jul/12 04	95	93	97.89
109	Raidak-I	Tufanganj	West Bengal	34.22	35.30	36.36	21/07/1993	35.89	27/Jun/12 23	37	26	70.27
110	Torsa	Ghughumari	West Bengal	39.80	40.41	41.46	03/08/2000	40.26	16/Jul/12 16	41	40	97.56
111	Jaldhaka	NH-31	West Bengal	80.00	80.90	81.33	28/08/1972	80.45	15/Jul/12 10	34	31	91.18
112	Jaldhaka	Mathabhanga	West Bengal	47.70	48.20	49.85	07/09/2007	48.05	15/Jul/12 15	7	5	71.43
113	Tista	Domohani	West Bengal	85.65	85.95	89.30	14/10/1968	86.32	15/Jul/12 13	154	148	96.10
114	Tista	Mekhliganj	West Bengal	65.45	65.95	66.45	13/07/1996	65.66	16/Jul/12 13	7	6	85.71
	Barak & Meghna Basins											
115	Barak	APGhat	Assam	18.83	19.83	21.84	01/08/1989	21.11	28/Jun/12 16	12	12	100.00
116	Katakhal	Matizuri	Assam	19.27	20.27	22.73	10/09/2007	21.97	28/Jun/12 03	24	24	100.00
117	Kushiyara	Karimganj	Assam	13.94	14.94	16.57	10/06/2010	16.10	29/Jun/12 01	30	30	100.00
118	Manu	Kailashar	Tripura	24.34	25.34	25.79	07/06/1993	24.10	17/Jun/12 05	0	0	
119	Gumti	Sonamura	Tripura	11.50	12.50	14.42	23/07/1993	11.07	25/Jun/12 17	0	0	
	Eastern Rivers (Excluding Mahanadi)											

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Table 35 : Flood Forcasting Performance at various Forcasting stations during during the flood season 2012

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2012				
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)	No.of Forecasts issued	No.of Forecasts within limits	Percent-age of accuracy
1	2	3	4	5	6	7	8	9	10	11	12	13.00
120	Subernarekna	Rajghat	Orissa	9.45	10.36	12.69	19/06/2008	9.32	06/Aug/12 19	0	0	
121	Burhabalang	NH_5 _Road Bridge	Orissa	7.21	8.13	9.50	12/10/1973	6.30	10/Sep/12 16	0	0	
122	Baitarni	Anandpur	Orissa	37.44	38.36	41.35	9/23/2011	36.90	12/Aug/12 18	0	0	
123	Baitarni	Akhuapada	Orissa		17.83	21.95	16/08/1960	17.67	12/Aug/12 23	0	0	
124	Brahmani	Jenapur	Orissa	22.00	23.00	24.78	20/08/1975	21.14	20/Aug/12 19	0	0	
125	Rushikuluya	Purushottampur	Orissa	15.83	16.83	19.65	04/11/1990	16.86	03/Nov/12 16	2	2	100.00
126	Vamsadhara	Gunupur	Orissa	83.00	84.00	88.75	17/09/1980	82.95	03/Aug/12 10	0	0	
127	Vamsadhara	Kashinagar	Orissa	53.60	54.60	58.93	18/09/1980	54.94	03/Aug/12 10	33	33	100.00
128	Vamsadhara	Gotta Barrage	Andhra Pradesh	34.84	34.84	39.92	07/10/1999			0	0	
	Mahanadi Basin											
129	Mahanadi	Hirakud Dam	Orissa	192.02		192.30	30/01/1998	192.03	09/Oct/12 13	67	66	98.50
130	Mahanadi	Naraj	Orissa	25.41	26.41	27.61	31/08/1982	26.02	19/Aug/12 07	18	18	100.00
131	Mahanadi	Alipingal Devi	Orissa	10.85	11.76	13.11	9/11/2011	6.80	08/Aug/12 05	0	0	
132	Mahanadi	Nimapara	Orissa	9.85	10.76	11.60	31/08/1982	8.51	08/Aug/12 02	0	0	
	Godavari Basin											
133	Godavari	Kopergaon	Maharashtra	490.90	493.68	499.17	1969	489.15	12-Sep-12 07	0	0	
134	Godavari	Jaikwadi Dam	Maharashtra	463.91		464.69	12/10/1990	456.78	30-Jun-12 18	0	0	
135	Godavari	Gangakhed	Maharashtra	374.00	375.00	377.57	1947	367.80	03-Sep-12 22	0	0	
136	Godavari	Nanded	Maharashtra	353.00	354.00	357.10	06/08/2006	344.70	04-Sep-12 18	0	0	
137	Godavari	Sriram Sagar	Andhra Pradesh	332.54		332.72	13/10/1990	329.34	14-Oct-12 04	3	3	100.00
138	Godavari	Kaleswaram	Andhra Pradesh	103.50	104.75	107.05	15/08/1986	102.07	08-Sep-12 09	0	0	

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Table 35 : Flood Forcasting Performance at various Forcasting stations during during the flood season 2012

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2012		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	13.00
139	Godavari	Eturunagaram	Andhra Pradesh	73.29	75.79	77.66	24/08/1990	73.56	22-Aug-12 05	16	12	75.00
140	Godavari	Dummagudam	Andhra Pradesh	53.00	55.00	60.25	16/08/1986	52.87	22-Aug-12 03	0	0	
141	Godavari	Bhadrachalam	Andhra Pradesh	45.72	48.77	55.66	16/08/1986	46.76	22-Aug-12 05	45	40	88.89
142	Godavari	Kunavaram	Andhra Pradesh	37.74	39.24	51.30	16/08/1986	37.22	22-Aug-12 21	0	0	
143	Godavari	Rajamundri	Andhra Pradesh	17.68	19.51	20.48	16/08/1986	16.63	23-Aug-12 06	0	0	
144	Godavari	Dowalaiswaram	Andhra Pradesh	14.25	16.08	18.36	16/08/1986	14.63	23-Aug-12 05	23	23	100.00
145	Wardha	Balharsha	Maharashtra	171.50	174.00	176.00	15/08/1986	171.45	07-Sep-12 00	0	0	
146	Wainganga	Bhandara	Maharashtra	244.00	244.50	250.90	16/09/2005	244.37	06-Sep-12 10	4	4	100.00
147	Wainganga	Pauni	Maharashtra	226.73	227.73	232.35	07/09/1994	228.15	06-Sep-12 19	12	10	83.33
148	Manjira	Singur Dam	Andhra Pradesh	523.60		523.60	15/10/1999	519.28	15-Oct-12 05	0	0	
149	Manjira	Nizamsagar Dam	Andhra Pradesh	428.24		428.24	15/10/1999	424.39	11-Oct-12 05	0	0	
150	Indravati	Jagdalpur	Chhatisgarh	539.50	540.80	544.68	09/07/1973	540.99	06-Aug-12 17	25	22	88.00
	Krishna Basin											
151	Krishna	Arjunwad	Maharashtra	542.07	543.29	543.69	05/08/2005			0	0	
152	Krishna	Alamati Dam	Karnataka	519.60		519.60	18/09/2002	519.60	01-Sep-12 00	29	26	89.66
153	Krishna	Narayanpur Dam	Karnataka	492.25		492.22	26/09/2008	492.21	03-Sep-12 00	23	22	95.65
154	Krishna	Priyadarshini	Andhra Pradesh	318.52		318.20	02/10/2009	318.50	09-Oct-12 00	27	25	92.59
155	Krishna	Srisailam Dam	Andhra Pradesh	269.75		273.25	03/10/2009	265.53	17-Sep-12 00	25	21	84.00
156	Krishna	Prakasham Barrage	Andhra Pradesh	18.30		21.50	07/10/1903	17.42	30-Jun-12 00	9	5	55.56
157	Bhima	Deongaon	Karnataka	402.00	404.50	407.34	13/08/2006	397.25	08-Oct-12 00	0	0	
158	Tungbhadra	Tungabhadra Dam	Karnataka	497.74		497.74	05/10/1992	497.74	03-Sep-12 00	86	78	90.70
159	Tungbhadra	Mantralayam	Andhra Pradesh	310.00	312.00	318.77	02/10/2009	309.77	05-Sep-12 00	0	0	

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Table 35 : Flood Forcasting Performance at various Forcasting stations during during the flood season 2012

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2012				
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)	No.of Forecasts issued	No.of Forecasts within limits	Percent-age of accuracy
1	2	3	4	5	6	7	8	9	10	11	12	13.00
	Southern River System:											
160	Pennar	Nellore	Andhra Pradesh	15.91	17.28	18.70	30/11/1882	8.23	16/Jul/12 11	0	0	
	Western River Systems:											
161	Banas	Dantiwada Dam	Gujarat	182.88	185.06	186.04	01/09/1973	178.29	04/Oct/12 08	2	2	100.00
162	Sabarmati	Dharoi Dam	Gujarat	187.45	192.25	189.63	03/09/1990	189.25	07/Oct/12 08	7	7	100.00
163	Sabarmati	Ahmedabad Shubhash Bridge	Gujarat	44.09	45.34	47.45	19/08/2006	42.10	08/Sep/12 13	0	0	
164	Mahi	Kadana Dam	Gujarat	126.19	127.71	127.74	09/09/1989	127.71	23/Sep/12 22	15	15	100.00
165	Mahi	Wanakbori	Gujarat	71.00	72.54	76.10	12/08/2006	73.96	06/Sep/12 18	21	19	90.48
166	Naramada	Mandla	Madhya Pradesh	437.20	437.80	439.41	18/08/1974	435.97	14/Aug/12 12	0	0	
167	Naramada	Hoshangabad	Madhya Pradesh	292.83	293.83	300.90	30/08/1973	295.55	07/Aug/12 19	14	14	100.00
168	Naramada	Garudeswar	Gujarat	30.48	31.09	41.65	06/09/1970	29.79	09/Aug/12 06	0	0	
169	Naramada	Bharuch	Gujarat	6.71	7.31	12.65	07/09/1970	9.20	07/Sep/12 11	13	12	92.30
170	Tapi	Hatnur Dam	Maharashtra	212.00	214.00	214.00	12/10/1989	214.00	05/Oct/12 07	170	170	100.00
171	Tapi	Ukai Dam	Gujarat	102.41	105.16	105.51	08/10/1990	104.31	26/Sep/12 09	73	72	98.63
172	Tapi	Surat	Gujarat	8.50	9.50	12.50	09/08/2006	8.65	08/Sep/12 02	1	1	100.00
173	Damanganga	Madhuban Dam	Gujarat	79.86	82.40	80.60	27/09/1993	80.05	11/Oct/12 16	3	3	100.00
174	Damanganga	Vapi Town	Gujarat	18.20	19.20	23.76	03/08/2004	16.45	11/Sep/12 15	0	0	
175	Damanganga	Daman	Dadra & Nagar Hav	2.60	3.40	4.00	03/08/2004	2.00	11/Sep/12 06	0	0	

Total Forecasts	***5031***	***4939***	**98.17**
Level Forecasts	**4200**	**4136**	**98.48**
Inflow Forecast	**831**	**803**	**96.63**

Source : Central Water Commission (FFM Directorate)

Table 36 : Flood Forcasting Performance at various Forcasting stations during the flood season 2013

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2013				
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)	No.of Forecasts issued	No.of Forecasts within limits	Percentage of accuracy
1	2	3	4	5	6	7	8	9	10	11	12	13
	Ganga Basin											
1	Alaknanda	Srinagar	Uttarakhand	539.00	540.00	536.85	05/09/1995	537.90	17/Jun/13 23	0	0	
2	Ganga	Rishikesh	Uttarakhand	339.50	340.50	341.72	05/09/1995	341.45	17/Jun/13 12	22	21	95.45
3	Ganga	Haridwar	Uttarakhand	293.00	294.00	296.30	19/09/2010	295.90	17/Jun/13 19	29	25	86.21
4	Ganga	Narora Barrage	Uttar Pradesh			180.61	23/09/2010	179.65	20/Jun/13 19	94	94	100
5	Ganga	Kannauj	Uttar Pradesh	124.97	125.97	126.78	27/09/2010	125.40	14/Aug/13 05	27	27	100
6	Ganga	Ankinghat	Uttar Pradesh	123.00	124.00	124.49	28/09/2010	123.73	16/Aug/13 14	57	57	100
7	Ganga	Kanpur	Uttar Pradesh	113.00	114.00	114.08	29/09/2010	112.91	16/Aug/13 16	58	58	100
8	Ganga	Dalmau	Uttar Pradesh	98.36	99.36	99.84	03/08/1973	98.82	17/Aug/13 04	21	21	100
9	Ganga	Phphamau	Uttar Pradesh	83.73	84.73	87.98	08/09/1978	86.82	26/Aug/13 04	28	25	89.29
10	Ganga	Allahabad Chhatnag	Uttar Pradesh	83.73	84.73	88.03	08/09/1978	86.04	26/Aug/13 06	21	17	80.95
11	Ganga	Mirzapur	Uttar Pradesh	76.72	77.72	80.34	09/09/1978	79.05	27/Aug/13 01	23	23	100
12	Ganga	Varanasi	Uttar Pradesh	70.26	71.26	73.90	09/09/1978	72.63	27/Aug/13 04	30	30	100
13	Ganga	Ghazipur	Uttar Pradesh	62.11	63.11	65.22	09/09/1978	65.02	28/Aug/13 14	40	39	97.50
14	Ganga	Buxar	Bihar	59.32	60.32	62.09	1948	61.44	29/Aug/13 05	39	39	100
15	Ganga	Ballia	Uttar Pradesh	56.62	57.62	60.25	14/09/2003	60.14	29/Aug/13 03	58	58	100

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Table 36 : Flood Forcasting Performance at various Forcasting stations during the flood season 2013

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2013				
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)	No.of Forecasts issued	No.of Forecasts within limits	Percentage of accuracy
1	2	3	4	5	6	7	8	9	10	11	12	13
16	Ganga	Patna Dighaghat	Bihar	49.45	50.45	52.52	23/08/1975	50.94	02/Sep/13 06	45	45	100
17	Ganga	Patna Gandhighat	Bihar	47.60	48.60	50.27	14/08/1994	49.90	01/Sep/13 08	70	70	100
18	Ganga	Hathidah	Bihar	40.76	41.76	43.15	07/08/1971	42.89	02/Sep/13 01	58	58	100
19	Ganga	Munger	Bihar	38.33	39.33	40.99	19/09/1976	39.84	03/Sep/13 07	42	42	100
20	Ganga	Bhagalpur	Bihar	32.68	33.68	34.20	17/09/2003	34.50	03/Sep/13 22	49	49	100
21	Ganga	Kahalgaon	Bihar	30.09	31.09	32.87	17/09/2003	32.45	04/Sep/13 06	75	75	100
22	Ganga	Sahibgunj	Jharkhand	26.25	27.25	30.91	1998	29.08	05/Sep/13 01	76	76	100
23	Ganga	Farakka	West Bengal	21.25	22.25	25.14	07/09/1998	24.40	06/Sep/13 04	160	158	98.75
24	Ramganga	Moradabad	Uttar Pradesh	189.60	190.60	192.88	21/09/2010	190.23	30/Aug/13 17	20	20	100
25	Ramganga	Bareilly	Uttar Pradesh	162.70	163.70	162.88	06/8/1978	160.62	31/Aug/13 00	0	0	
26	Yamuna	Tajewala Weir	Haryana			328.27	03/09/1978	338.90	17/Jun/13 06	0	0	
27	Yamuna	Mawi	Uttar Pradesh	230.00	230.85	232.45	26/09/1988	232.75	18/Jun/13 11	44	42	95.45
28	Yamuna	Delhi Rly Bridge	NCT Delhi	204.00	204.83	207.49	06/09/1978	207.32	19/Jun/13 19	50	48	96.00
29	Yamuna	Mathura	Uttar Pradesh	164.20	165.20	169.73	08/09/1978	166.03	22/Jun/13 16	56	55	98.21
30	Yamuna	Agra	Uttar Pradesh	151.40	152.40	154.76	09/09/1978	150.76	23/Jun/13 03	0	0	
31	Yamuna	Etawa	Uttar Pradesh	120.92	121.92	126.13	11/09/1978	120.16	13/Aug/13 08	0	0	

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Table 36 : Flood Forcasting Performance at various Forcasting stations during the flood season 2013

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2013				
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)	No.of Forecasts issued	No.of Forecasts within limits	Percentage of accuracy
1	2	3	4	5	6	7	8	9	10	11	12	13
32	Yamuna	Auraiya	Uttar Pradesh	112.00	113.00	118.19	25/08/1996	113.81	27/Aug/13 03	13	8	61.54
33	Yamuna	Kalpi	Uttar Pradesh	107.00	108.00	112.98	25/08/1996	109.55	26/Aug/13 20	17	10	58.82
34	Yamuna	Hamirpur	Uttar Pradesh	102.63	103.63	108.59	12/09/1983	106.33	25/Aug/13 11	21	12	57.14
35	Yamuna	Chilaghat	Uttar Pradesh	99.00	100.00	105.16	06/09/1978	103.33	25/Aug/13 12	42	30	71.43
36	Yamuna	Naini	Uttar Pradesh	83.74	84.74	87.99	08/09/1978	86.60	26/Aug/13 21	28	19	67.86
37	Sahibi	Dhansa	NCT Delhi	211.44	212.44	213.58	06/08/1977	210.03	02/Sep/13 08	0	0	
38	Chambal	Gandhisagar Dam	Madhya Pradesh	399.99				399.90	28/Sep/13 00	17	17	100
39	Betwa	Mohana	Uttar Pradesh	121.66	122.66	133.69	11/09/1983	124.34	30/Jul/13 08	6	2	33.33
40	Betwa	Sahjina	Uttar Pradesh	103.54	104.54	108.67	12/09/1983	106.61	25/Aug/13 03	23	12	52.17
41	Ken	Banda	Uttar Pradesh	103.00	104.00	113.29	07/0720/05	108.46	24/Aug/13 13	20	11	55.00
42	Gomati	Lucknow HanumanSetu	Uttar Pradesh	108.50	109.50	110.85	10/09/1971	105.91	30/Jun/13 05	0	0	
43	Gomati	Jaunpur	Uttar Pradesh	73.07	74.07	77.74	22/09/1971	70.75	03/Jul/13 10	0	0	
44	SAI	Raibareli	Uttar Pradesh	100.00	101.00	104.81	17/09/1982	99.52	03/Jul/13 06	0	0	
45	Ghaghra	Elgin Bridge	Uttar Pradesh	105.07	106.07	107.56	10/10/2009	107.12	22/Jul/13 08	89	80	89.89
46	Ghaghra	Ayodhya	Uttar Pradesh	91.73	92.73	94.01	11/10/2009	93.34	23/Jul/13 10	83	79	95.18
47	Ghaghra	Turtipar	Uttar Pradesh	63.01	64.01	66.00	28/08/1998	64.69	25/Jul/13 19	89	87	97.75

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Table 36 : Flood Forcasting Performance at various Forcasting stations during the flood season 2013

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2013				
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)	No.of Forecasts issued	No.of Forecasts within limits	Percentage of accuracy
1	2	3	4	5	6	7	8	9	10	11	12	13
48	Ghaghra	Darauli	Bihar	59.82	60.82	61.74	29/08/1998	61.15	31/Aug/13 18	86	86	100
49	Ghaghra	Gangpur Siswan	Bihar	56.04	57.04	58.01	18/09/1983	57.60	01/Sep/13 05	78	78	100
50	Ghaghra	Chhapra	Bihar	52.68	53.68	54.59	03/09/1982	53.85	01/Sep/13 19	33	33	100
51	Rapti	Balrampur	Uttar Pradesh	103.62	104.62	105.25	11/09/2000	104.89	25/Jul/13 10	64	61	95.31
52	Rapti	Bansi	Uttar Pradesh	83.90	84.90	85.82	21/08/1998	84.84	28/Jul/13 20	56	54	96.43
53	Rapti	Gorakpur Birdghat	Uttar Pradesh	73.98	74.98	77.54	23/08/1998	75.12	13/Jul/13 19	59	56	94.91
54	Sone	Inderpuri	Bihar	107.20	108.20	108.85	23/08/1975	105.70	25/Aug/13 10	0	0	
55	Sone	Koelwar	Bihar	54.52	55.52	58.88	20/07/1971	53.84	26/Aug/13 06	0	0	
56	Sone	Maner	Bihar	51.00	52.00	53.79	10/09/1976	52.79	01/Sep/13 08	45	45	100
57	PunPun	Sripalpur	Bihar	49.60	50.60	53.91	18/09/1976	51.58	05/Sep/13 07	24	24	100
58	Gandak	Khadda	Uttar Pradesh	95.00	96.00	97.50	23/07/2002	95.80	23/Jul/13 10	34	34	100
59	Gandak	Chatia	Bihar	68.15	69.15	70.04	26/07/2002	67.52	27/Jul/13 23	0	0	
60	Gandak	Rewaghat	Bihar	53.41	54.41	55.41	17/09/1986	54.33	29/Jul/13 02	27	27	100
61	Gandak	Hazipur	Bihar	49.32	50.32	50.93	1948	50.12	29/Aug/13 08	40	40	100

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Table 36 : Flood Forcasting Performance at various Forcasting stations during the flood season 2013

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2013				
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)	No.of Forecasts issued	No.of Forecasts within limits	Percentage of accuracy
1	2	3	4	5	6	7	8	9	10	11	12	13
62	Burhi Gandak	Lalbeghiaghat	Bihar	62.20	63.20	67.09	30/07/1975	62.38	14/Jul/13 05	3	3	100
63	Burhi Gandak	Muzaffarpur Sikandarpur	Bihar	51.53	52.53	54.29	15/08/1987	51.46	16/Jul/13 13	0	0	
64	Burhi Gandak	Samastipur	Bihar	45.02	46.02	49.38	15/08/1987	44.85	17/Jul/13 19	0	0	
65	Burhi Gandak	Rosera	Bihar	41.63	42.63	46.35	16/08/1987	41.79	18/Jul/13 11	3	3	100
66	Burhi Gandak	Khagaria	Bihar	35.58	36.58	39.22	1976	38.67	01/Sep/13 19	63	63	100
67	Bagmati	Benibad	Bihar	47.68	48.68	50.01	12/07/2004	49.35	13/Jul/13 07	77	77	100
68	Bagmati	Hayaghat	Bihar	44.72	45.72	48.96	14/08/1987	45.25	15/Jul/13 18	4	4	100
69	Adhwara Group	Kamtaul	Bihar	49.00	50.00	52.99	12/08/1987	49.45	12/Jul/13 19	3	3	100
70	Adhwara Group	Ekmighat	Bihar	45.94	46.94	49.52	12/07/2004	46.16	14/Jul/13 22	3	3	100
71	Kamla Balan	Jhanjharpur	Bihar	49.00	50.00	53.01	10/07/2004	51.09	06/Sep/13 23	48	48	100
72	Kosi	Basua	Bihar	46.75	47.75	49.17	25/08/2010	48.68	11/Jul/13 19	205	205	100
73	Kosi	Baltara	Bihar	32.85	33.85	36.40	15/08/1987	33.54	07/Sep/13 12	42	42	100
74	Kosi	Kursela	Bihar	29.00	30.00	32.04	06/09/1998	30.91	10/Aug/13 18	73	73	100
75	Mahananda	Dhengraghat	Bihar	34.65	35.65	38.09	1968	37.28	12/Jul/13 10	54	54	100
76	Mahananda	Jhawa	Bihar	30.40	31.40	33.51	14/08/1987	32.93	13/Jul/13 08	104	104	100
77	Mayurakshi	Massanjore Dam	Jharkhand	121.31		122.87	25/09/1999	119.375	19/Oct/13 18	3	3	100

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Table 36 : Flood Forcasting Performance at various Forcasting stations during the flood season 2013

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2013				
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)	No.of Forecasts issued	No.of Forecasts within limits	Percentage of accuracy
1	2	3	4	5	6	7	8	9	10	11	12	13
78	Mayurakshi	Tilpara Barrage	West Bengal	62.79		67.05	27/09/1978	62.789	21/Aug/13 20	5	5	100
79	Mayurakshi	Narayanpur	West Bengal	26.99	27.99	29.69	27/09/1995	24.60	22/Aug/13 17	0	0	
80	Ajoy	Gheropara	West Bengal	38.42	39.42	43.94	27/09/1978	39.16	15/Oct/13 02	1	1	100
81	Damodar	Tenughat Dam	Jharkhand	268.83		265.56	17/09/1985	262.57	03/Oct/13 01	35	35	100
82	Damodar	Panchet Dam	Jharkhand	132.59		132.89	02/10/1959	130.71	15/Oct/13 03	65	65	100
83	Damodar	Durgapur Barrage	West Bengal	64.47		64.47	31/10/2002	64.47	15/Oct/13 16	43	43	100
84	Barakar	Maithon Dam	Jharkhand	150.88		151.79	02/10/1959	150.81	15/Oct/13 02	26	26	100
85	Mundeshwari	Harinkhola	West Bengal	11.80	12.80	14.58	29/09/1978	12.97	16/Oct/13 06	3	3	100
86	Kangsabati	Kangsabati Dam	West Bengal	134.11		134.71	02/09/1978	134.02	14/Oct/13 08	40	40	100
87	Kangsabati	Mohanpur	West Bengal	24.73	25.73	29.87	02/09/1978	26.02	15/Oct/13 05	1	1	100
	Brahmaputra Basin											
88	Brahmaputra	Dibrugrah	Assam	104.70	105.70	106.48	03/09/1998	106.01	06/Sep/13 06	96	95	98.96
89	Brahmaputra	Neamatighat	Assam	84.04	85.04	87.37	11/07/1991	86.88	06/Sep/13 16	90	90	100
90	Brahmaputra	Tezpur	Assam	64.23	65.23	66.59	27/08/1988	65.87	07/Sep/13 23	44	44	100
91	Brahmaputra	Guwahati	Assam	48.68	49.68	51.46	21/07/2004	49.79	08/Sep/13 18	24	24	100
92	Brahmaputra	Goalpara	Assam	35.27	36.27	37.43	31/07/1954	36.36	09/Sep/13 07	34	34	100

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Table 36 : Flood Forcasting Performance at various Forcasting stations during the flood season 2013

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2013				
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)	No.of Forecasts issued	No.of Forecasts within limits	Percentage of accuracy
1	2	3	4	5	6	7	8	9	10	11	12	13
93	Brahmaputra	Dhubri	Assam	27.62	28.62	30.36	28/08/1988	29.30	10/Sep/13 01	126	126	100
94	Burhidihing	Naharkatia	Assam	119.40	120.40	122.69	17/06/1973	118.47	05/Jul/13 13	0	0	
95	Burhidihing	Khowang	Assam	101.11	102.11	103.92	25/08/1988	102.33	10/Jul/13 22	21	21	100
96	Desang	Nanglamoraghat	Assam	93.46	94.46	96.49	06/09/1998	96.10	19/Aug/13 07	52	52	100
97	Dikhow	Shivsagar	Assam	91.40	92.40	95.62	08/07/1974	93.72	18/Aug/13 01	62	62	100
98	Subansiri	Badatighat	Assam	81.53	82.53	86.84	28/06/1972	82.22	07/Sep/13 20	25	25	100
99	Dhansiri (S)	Golaghat	Assam	88.50	89.50	91.30	11/10/1986	90.22	06/Aug/13 23	49	48	97.96
100	Dhansiri (S)	Numaligarh	Assam	76.42	77.42	79.87	24/09/1985	79.23	07/Aug/13 22	230	230	100
101	Jiabharali	Jiabharali_NTX	Assam	76.00	77.00	78.50	26/07/2007	77.90	06/Jul/13 21	288	286	99.31
102	Kopilli	Kampur	Assam	59.50	60.50	61.86	16/06/1973	59.03	10/Jun/13 20	0	0	
103	Kopilli	Dharmatul	Assam	55.00	56.00	58.09	21/07/2004	54.47	17/Aug/13 21	0	0	
104	Puthimari	Puthimari _NHX	Assam	50.81	51.81	55.08	31/08/2008	52.75	06/Sep/13 23	174	174	100

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Table 36 : Flood Forcasting Performance at various Forcasting stations during the flood season 2013

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2013				
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)	No.of Forecasts issued	No.of Forecasts within limits	Percentage of accuracy
1	2	3	4	5	6	7	8	9	10	11	12	13
105	Pagladiya	Pagladia_NTX	Assam	51.75	52.75	55.45	08/07/2004	52.40	07/Sep/13 06	6	6	100
106	Beki	Beki NHX	Assam	44.10	45.10	46.20	04/08/2000	45.65	22/Jul/13 18	174	174	100
107	Manas	Manas NHX	Assam	47.81	48.42	50.08	15/09/1984	48.07	07/Sep/13 12	6	6	100
108	Sankosh	Golakganj	Assam	28.94	29.94	30.95	08/09/2007	29.92	11/Jul/13 02	45	43	95.56
109	Raidak-I	Tufanganj	West Bengal	34.22	35.30	36.36	21/07/1993	35.84	10/Jul/13 09	21	14	66.67
110	Torsa	Ghughumari	West Bengal	39.80	40.41	41.46	03/08/2000	40.22	10/Jul/13 08	29	29	100
111	Jaldhaka	NH-31	West Bengal	80.00	80.90	81.33	28/08/1972	80.20	10/Jul/13 12	14	14	100
112	Jaldhaka	Mathabhanga	West Bengal	47.70	48.20	49.85	07/09/2007	48.00	10/Jul/13 05	1	1	100
113	Tista	Domohani	West Bengal	85.65	85.95	89.30	14/10/1968	86.19	09/Jul/13 03	133	128	96.24
114	Tista	Mekhliganj	West Bengal	65.45	65.95	66.45	13/07/1996	65.37	10/Jul/13 11	0	0	
	Barak & Meghna Basins											
115	Barak	APGhat	Assam	18.83	19.83	21.84	01/08/1989	19.66	18/Aug/13 12	8	8	100
116	Katakhal	Matizuri	Assam	19.27	20.27	22.73	10/09/2007	22.17	17/Aug/13 18	24	24	100
117	Kushiyara	Karimganj	Assam	13.94	14.94	16.57	10/06/2010	14.97	18/Aug/13 20	14	14	100
118	Manu	Kailashar	Tripura	24.34	25.34	25.79	07/06/1993	23.10	19/Aug/13 22	0	0	
119	Gumti	Sonamura	Tripura	11.50	12.50	14.42	23/07/1993	12.03	06/Sep/13 05	2	2	100

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Table 36 : Flood Forcasting Performance at various Forcasting stations during the flood season 2013

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2013				
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)	No.of Forecasts issued	No.of Forecasts within limits	Percentage of accuracy
1	2	3	4	5	6	7	8	9	10	11	12	13
	Eastern Rivers (Excluding Mahanadi)											
120	Subernarekna	Rajghat	Orissa	9.45	10.36	12.69	19/06/2008	12.42	15/Oct/13 01	30	28	93.33
121	Burhabalang	NH_5 _Road Brid	Orissa	7.21	8.13	9.50	12/10/1973	9.24	14/Oct/13 08	26	24	92.31
122	Baitarni	Anandpur	Orissa	37.44	38.36	41.35	9/23/2011	40.74	13/Oct/13 23	21	18	85.71
123	Baitarni	Akhuapada	Orissa		17.83	21.95	16/08/1960	19.87	14/Oct/13 13	17	16	94.12
124	Brahmani	Jenapur	Orissa	22.00	23.00	24.78	20/08/1975	21.76	14/Oct/13 09	0	0	
125	Rushikuluya	Purushottampur	Orissa	15.83	16.83	19.65	04/11/1990	18.65	13/Oct/13 18	16	13	81.25
126	Vamsadhara	Gunupur	Orissa	83.00	84.00	88.75	17/09/1980	83.82	24/Oct/13 16	7	7	100
127	Vamsadhara	Kashinagar	Orissa	53.60	54.60	58.93	18/09/1980	55.35	24/Oct/13 15	93	86	92.47
128	Vamsadhara	Gotta Barrage	Andhra Pradesh	34.84	34.84	39.92	07/10/1999			11	10	90.91
	Mahanadi Basin											
129	Mahanadi	Hirakud Dam	Orissa	192.02		192.30	30/01/1998	192.03	29/Sep/13 13	79	78	98.73
130	Mahanadi	Naraj	Orissa	25.41	26.41	27.61	31/08/1982	26.16	01/Aug/13 17	6	6	100
131	Mahanadi	Alipingal Devi	Orissa	10.85	11.76	13.11	9/11/2011	9.15	02/Aug/13 05	0	0	
132	Mahanadi	Nimapara	Orissa	9.85	10.76	11.60	31/08/1982	7.96	02/Aug/13 12	0	0	

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Table 36 : Flood Forcasting Performance at various Forcasting stations during the flood season 2013

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2013				
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)	No.of Forecasts issued	No.of Forecasts within limits	Percentage of accuracy
1	2	3	4	5	6	7	8	9	10	11	12	13
	Godavari Basin											
133	Godavari	Kopergaon	Maharashtra	490.90	493.68	499.17	1969	489.92	25/Sep/13 08	0	0	
134	Godavari	Jaikwadi Dam	Maharashtra	463.91		464.69	12/10/1990	459.29	17/Oct/13 19	0	0	
135	Godavari	Gangakhed	Maharashtra	374.00	375.00	377.57	1947	368.12	19/Sep/13 12	0	0	
136	Godavari	Nanded	Maharashtra	353.00	354.00	357.10	06/08/2006	346.45	24/Jul/13 13	0	0	
137	Godavari	Sriram Sagar	Andhra Pradesh	332.54		332.72	13/10/1990	332.54	05/Aug/13 13	20	16	80.00
138	Godavari	Kaleswaram	Andhra Pradesh	103.50	104.75	107.05	15/08/1986	104.81	02/Aug/13 19	37	27	72.97
139	Godavari	Eturunagaram	Andhra Pradesh	73.29	75.79	77.66	24/08/1990	76.04	02/Aug/13 11	93	76	81.72
140	Godavari	Dummagudam	Andhra Pradesh	53.00	55.00	60.25	16/08/1986	56.80	03/Aug/13 03	78	64	82.05
141	Godavari	Bhadrachalam	Andhra Pradesh	45.72	48.77	55.66	16/08/1986	51.38	03/Aug/13 05	105	86	81.90
142	Godavari	Kunavaram	Andhra Pradesh	37.74	39.24	51.30	16/08/1986	43.26	04/Aug/13 05	96	78	81.25
143	Godavari	Rajamundri	Andhra Pradesh	17.68	19.51	20.48	16/08/1986	18.68	04/Aug/13 10	60	57	95.00
144	Godavari	Dowalaiswaram	Andhra Pradesh	14.25	16.08	18.36	16/08/1986	16.46	04/Aug/13 02	102	96	94.12
145	Wardha	Balharsha	Maharashtra	171.50	174.00	176.00	15/08/1986	175.68	03/Aug/13 05	79	59	74.68
146	Wainganga	Bhandara	Maharashtra	244.00	244.50	250.90	16/09/2005	245.70	27/Jul/13 14	34	31	91.18
147	Wainganga	Pauni	Maharashtra	226.73	227.73	232.35	07/09/1994	229.75	24/Aug/13 12	17	13	76.47

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Table 36 : Flood Forcasting Performance at various Forcasting stations during the flood season 2013

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2013		No.of Forecasts issued	No.of Forecasts within limits	Percentage 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
148	Manjira	Singur Dam	Andhra Pradesh	523.60		523.60	15/10/1999	523.00	31/Oct/13 06	1	1	100
149	Manjira	Nizamsagar Dam	Andhra Pradesh	428.24		428.24	15/10/1999	428.24	28/Oct/13 06	0	0	
150	Indravati	Jagdalpur	Chhatisgarh	539.50	540.80	544.68	09/07/1973	542.06	15/Jun/13 05	27	22	81.48
	Krishna Basin											
151	Krishna	Arjunwad	Maharashtra	542.07	543.29	543.69	05/08/2005			0	0	
152	Krishna	Alamati Dam	Karnataka	519.60		519.60	18/09/2002	519.60	10/Aug/13 08	31	28	90.32
153	Krishna	Narayanpur Dam	Karnataka	492.25		492.22	26/09/2008	492.25	08/Aug/13 17	49	45	91.84
154	Krishna	Priyadarshini	Andhra Pradesh	318.52		318.20	02/10/2009	318.50	23/Aug/13 12	68	65	95.59
155	Krishna	Srisailam Dam	Andhra Pradesh	269.75		273.25	03/10/2009	269.75	19/Aug/13 01	99	92	92.93
156	Krishna	Prakasham Barra	Andhra Pradesh	18.30		21.50	07/10/1903	17.78	26/Oct/13 17	121	120	99.17
157	Bhima	Deongaon	Karnataka	402.00	404.50	407.34	13/08/2006	403.00	22/Sep/13 05	3	2	66.67
158	Tungbhadra	Tungabhadra Dar	Karnataka	497.74		497.74	05/10/1992	497.74	12/Aug/13 05	163	160	98.16
159	Tungbhadra	Mantralayam	Andhra Pradesh	310.00	312.00	318.77	02/10/2009	311.39	05/Aug/13 23	30	26	86.67
	Southern River System:											
160	Pennar	Nellore	Andhra Pradesh	15.91	17.28	18.70	30/11/1882	13.02	30/Nov/13 08	0	0	
	Western River Systems:											
161	Banas	Dantiwada Dam	Gujarat	182.88	185.06	186.04	01/09/1973	175.73	14/Oct/13 17	2	2	100

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Table 36 : Flood Forcasting Performance at various Forcasting stations during the flood season 2013

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2013				
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY)	No.of Forecasts issued	No.of Forecasts within limits	Percentage of accuracy
1	2	3	4	5	6	7	8	9	10	11	12	13
162	Sabarmati	Dharoi Dam	Gujarat	187.45	192.25	189.63	03/09/1990	186.91	14/Oct/13 14	0	0	
163	Sabarmati	Ahmedabad Shubhash Bridge	Gujarat	44.09	45.34	47.45	19/08/2006	41.97	06/Sep/13 21	0	0	
164	Mahi	Kadana Dam	Gujarat	126.19	127.71	127.74	09/09/1989	127.69	05/Oct/13 13	21	21	100
165	Mahi	Wanakbori	Gujarat	71.00	72.54	76.10	12/08/2006	72.01	02/Aug/13 19	16	16	100
166	Naramada	Mandla	Madhya Pradesh	437.20	437.80	439.41	18/08/1974	436.77	09/Aug/13 15	0	0	
167	Naramada	Hoshangabad	Madhya Pradesh	292.83	293.83	300.90	30/08/1973	299.50	23/Aug/13 20	47	46	97.87
168	Naramada	Garudeswar	Gujarat	30.48	31.09	41.65	06/09/1970	34.86	25/Aug/13 00	9	9	100
169	Naramada	Bharuch	Gujarat	6.71	7.31	12.65	07/09/1970	10.90	25/Aug/13 00	32	32	100
170	Tapi	Hatnur Dam	Maharashtra	212.00	214.00	214.00	12/10/1989	214.01	16/Oct/13 00	192	192	100
171	Tapi	Ukai Dam	Gujarat	102.41	105.16	105.51	08/10/1990	105.05	11/Oct/13 00	127	124	97.64
172	Tapi	Surat	Gujarat	8.50	9.50	12.50	09/08/2006	9.80	24/Sep/13 00	6	6	100
173	Damanganga	Madhuban Dam	Gujarat	79.86	82.40	80.60	27/09/1993	80.10	03/Oct/13 00	7	7	100
174	Damanganga	Vapi Town	Gujarat	18.20	19.20	23.76	03/08/2004	16.50	02/Aug/13 00	0	0	
175	Damanganga	Daman	Dadra & Nagar Hav	2.60	3.40	4.00	03/08/2004	2.10	22/Jul/13 00	0	0	
								Total Forecasts		**7060**	**6760**	**95.75**
								Level Forecasts		**5741**	**5471**	**95.30**
								Inflow Forecast		**1319**	**1289**	**97.73**

Source : Central Water Commission (Flood Forcasting Monitoring Directorate)

Table 37: Broad feaures of Flood Forcasting Performance during Flood Season 2013

Sl. No	River	Station	State	District	Danger level in metres	Existing HFL		Peak Level attained in 2013	Date and Time of Occurrence	Duration of High Flood	
						Level in metres	Date of occurrence			From	To
1	2	3	4	5	6	7	8	9	10	11	12
1	Alaknanda	Srinagar	Uttarakhand	Garhwal	540.00	536.85	05.09.1995	537.9	6/17/2013 23:00	16/06/13: 22	18/06/13: 06
2	Ganga	Rishikesh	Uttarakhand	Haridwar	340.50	341.72	05.09.1995	341.45	6/17/2013 12:00	17/06/13: 10	17/06/13: 16
3	Ganga	Haridwar	Uttarakhand	Haridwar	294.00	296.30	19.09.2010	295.90	6/17/2013 19:00	17/06/13: 15	17/06/13: 22
4	Ganga	Ghazipur	Uttar Pradesh	Ghazipur	63.11	65.22	09.09.1978	65.02	8/28/2013 16:00	26/08/13: 06	01/09/13: 01
5	Ganga	Ballia	Uttar Pradesh	Ballia	57.62	60.25	14.09.2003	59.94	8/4/2013 21:00	03/08/13: 06	07/08/13: 15
								59.81	8/17/2013 6:00	16/08/13: 12	18/08/13: 14
								60.14	8/29/2013 6:00	25/08/13: 11	04/09/13: 04
6	Ganga	Patna (Gandhighat)	Bihar	Patna	48.60	50.27	14.08.1994	49.90	9/2/2013 6:00	28/08/13: 10	04/09/13: 11
7	Ganga	Hatidah	Bihar	Patna	41.76	43.15	07.08.1971	42.89	9/2/2013 18:00	26/08/13: 20	06/09/13: 15
8	Ganga	Bhagalpur	Bihar	Bhagalpur	33.68	34.20	17.09.2003	33.89	8/8/2013 18:00	05/08/13: 21	12/08/13: 05
								34.50	9/3/2013 22:00	16/08/13: 17	09/09/13: 12
9	Ganga	Kahalgaon	Bihar	Bhagalpur	31.09	32.87	17.09.2003	32.45	9/4/2013 6:00	02/09/13: 06	06/09/13: 18
10	Yamuna	Mawi	Uttar Pradesh	Muzzafarnagar	230.85	232.45	26.09.1988	232.75	6/18/2013 11:00	18/06/13: 02	19/06/13: 16
11	Yamuna	Delhi Railway Bridge	NCT, Delhi	Delhi	204.83	207.49	06.09.1978	207.32	6/19/2013 19:00	19/06/13: 15	20/06/13: 13
12	Ghaghra	Elgin Bridge	Uttar Pradesh	Barabanki	106.07	107.56	10.10.2009	107.046	7/21/2013 20:00	22/07/13: 06	23/07/13: 03
13	Ghaghra	Gangpur Siswan	Bihar	Siwan	57.04	58.01	18.09.1983	57.57	8/19/2013 19:00	19/08/13: 04	22/08/13: 16
								57.60	9/1/2013 6:00	31/08/13: 06	03/09/13: 02
14	Rapti	Balrampur	Uttar Pradesh	Balrampur	104.62	105.25	11.09.2000	104.75	7/14/2013 6:00	14/07/13: 05	14/07/13: 14
								104.89	7/25/2013 10:00	24/07/13: 09	27/07/13: 08
								104.78	8/28/2013 8:00	29/08/13: 05	31/08/13: 03
								104.80	9/5/2013 18:00	04/09/13: 13	05/09/13: 02

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Table 37: Broad feaures of Flood Forcasting Performance during Flood Season 2013

Sl. No	River	Station	State	District	Danger level in metres	Existing HFL		Peak Level attained in 2013	Date and Time of Occurrence	Duration of High Flood	
						Level in metres	Date of occurrence			From	To
15	Kosi	Basua	Bihar	Supaul	47.75	49.17	25.08.2010	48.68	7/11/2013 19:00	11/07/13: 18	12/07/13: 05
16	Brahmaputra	Dibrugarh	Assam	Dibrugarh	105.70	106.48	9/3/1998	106.01	9/6/2013 6:00	06/09/13: 04	06/09/13: 15
17	Brahmaputra	Neamatighat	Assam	Jorhat	85.04	87.37	11.07.1991	86.88	9/6/2013 16:00	06/09/13: 15	06/09/13: 20
18	Desang	Nanglamoraghat	Assam	Sibsagar	94.46	96.49	06.09.1998	96.10	8/19/2013 7:00	18/08/13: 19	19/08/13: 19
19	Wardha	Balharsha	Maharashtra	Chandrapur	174.00	176.00	15.08.1986	175.68	8/3/2013 5:00	02/08/13: 20	03/08/13: 17
20	Subarnarekha	Rajghat	Odisha	Balasore	10.36	12.69	19.06.2008	12.42	10/15/2013 1:00	14/10/13: 16	15/10/13: 12
21	Burhabalang	NH-5 Road Bridge	Odisha	Balasore	8.13	9.50	12.10.1973	9.24	10/14/2013 8:00	14/10/13: 01	14/10/13: 15

Source : Flood Forcasting Monitoring Directorate, CWC
High Flood Level= HFL-0.50 M

Table 38: Broad Features of Flood Forecasting during the Flood season 2014

Sl.	Details of sites within different range of permissible limit of accuracy (±15cm,±20%cumec)	Flood Season 2014	
		No. of Sites	% age
1	2	3	4
1	Number of Operational Flood Forecasting Stations during Flood Season	175	100
2	Flood Forecasting Stations where "No Forecast" was issued/ required because water level at those sites were below warning level during flood season	57	32.57
3	Flood Forecasting stations where forecasts were actually issued	118	67.43
4	Sites with performance accuracy between 0.0 % to 25.0%	0	0%
5	Sites with performance accuracy between 25.1 % to 50.0%	3	1.71
6	Sites with performance accuracy between 50.1 % to 75.0%	4	2.29
7	Sites with performance accuracy between 75.1 % to 99.99%	40	22.86
8	Sites with 100% performance accuracy i.e. where all forecasts issued were within permissible limit of accuracy	71	40.57
9	**Details of Unprecedented Flood Events During Flood Season 2014 See Separate statement with information of item 9** see separate statement with information of item 9		
10	**Details of High Flood Events During Flood Season 2014 See Separate statement with information of item 10** see separate statement with information of item 10		

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Table 38: Broad Features of Flood Forecasting during the Flood season 2014

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
9. Unprecedented flood events in India under CWC FF & W Network - 2014 flood season										
1	Rapti	Balrampur	Uttar Pradesh	104.62	105.25	11.09.2000	105.51	18/08/14: 01	17/08/14: 07	19/08/14: 22
2	Ghaghra	Elgin Bridge	Uttar Pradesh	106.07	107.56	10.10.2009	107.62	18/08/14: 16	18/08/14: 11	19/08/14: 02

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Unprecedented flood : Flood level => HFL

High Flood : Flood level>=HFL-0.5 m and < HFL

Table 38: Broad Features of Flood Forecasting during the Flood season 2014

Sl.No	River	Station	State	District	Danger level in metres	Existing HFL		Peak Level attained in 2014		Duration of High Flood	
						Level in metres	Date of occurrence	Level	Date/Time	From	To
1	2	3	4	5	6	7	8	9	10	11	12
10. High Flood Events during Flood Season - 2014											
1	Baitarni	Ananadpur	Odisha	Keonjhar	38.36	41.35	9/23/2011	41.06	05/08/14: 07	05/08/14: 02	05/08/14: 10
2	Beki	Beki Road Bridge	Assam	Barpeta	45.10	46.20	8/4/2000	45.71	15/08/14: 17	15/08/14: 16	15/08/14: 19
3	Rapti	Balrampur	Uttar Pradesh	Balrampur	104.62	105.25	9/11/2000	105.51	18/08/14: 01	16/08/14: 07	22/08/14: 21
4	Ghaghra	Elgin Bridge	Uttar Pradesh	Barabanki	106.07	107.56	10/10/2009	107.62	18/08/14: 16	16/08/14: 20	20/08/14: 00
5	Bagmati	Benibad	Bihar	Muzzafarpur	48.68	50.01	7/12/2004	49.53	17/08/14: 23	17/08/14: 19	18/08/14: 17
6	Ghaghra	Ayodhya	Uttar Pradesh	Faizabad	92.73	94.01	10/11/2009	93.6	19/08/14: 16	18/08/14: 23	20/08/14: 12
7	Ghaghra	Darauli	Bihar	Siwan	60.82	61.74	8/29/1998	61.43	22/08/14: 13	19/08/14: 06	23/08/14: 19
8	Ghaghra	Gangpur Ssiswan	Bihar	Siwan	57.04	58.01	9/18/1983	57.87	22/08/14: 23	19/08/14: 18	24/08/14: 06
9	Brahmaputra	Dibrugarh	Assam	Dibrugarh	105.70	106.48	9/3/1998	106.09	24/08/14: 03	23/08/14: 14	24/08/14: 14
10	Brahmaputra	Neamatighat	Assam	Jorhat	85.04	87.37	7/11/1991	86.92	24/08/14: 17	24/08/14: 14	25/08/14: 06
11	Buridehing	Chenimari (Khowang)	Assam	Dibrugarh	102.11	103.92	8/25/1988	103.63	26/08/14: 23	26/08/14: 08	27/08/14: 15

Source : Flood Forecasting Monitoring Directorate
High Flood Level= HFL-0.50 M

Table 39 : Comparative Flood Forcasting Performance from 2000 to 2013

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
Average	5016	4885	97.44	1016	977	95.87	6032	5862	97.23

Source : FFM Directorate, CWC

Table 40 : Projected Water Demand in India (By Different Uses)

Sl No.	Sector	Total water requirement for different uses (in BCM)						
		Year	2010		2025		2050	
		1997-98	Low	High	Low	High	Low	High
1	2	3	4	5	6	7	8	9
1	Irrigation	524	543	557	561	611	628	807
2	Domestic	30	42	43	55	62	90	111
3	Industries	30	37	37	67	67	81	81
4	Power	9	18	19	31	33	63	70
5	Inland Navigation	0	7	7	10	10	15	15
6	Flood Control	0	0	0	0	0	0	0
7	Environment(1) Afforestation	0	0	0	0	0	0	0
8	Environment(2) Ecology	0	5	5	10	10	20	20
9	Evaporation losses	36	42	42	50	50	76	76
	TOTAL	**629**	**694**	**710**	**784**	**843**	**973**	**1180**

Source :Basin Planning Directorate, CWC, --"National Commission on Integrated Water Resources Development (NCIWRD-1999)"
BCM : Billion Cubic Meters

Table 41 : Status of coverage of Rural Habitations Under Rural Water Supply as on 01.4.2014

S.No.	State	Total	Total Quality	No. of Habitations	No. of Habitations With	No. of Habitations	No. of Habitations	Total	No. Of Habitations
1	2	3	4	5	6	7	8	9	10
1	ANDHRA PRADESH (Data under reconciliation)	47397	1554	2737	4120	4482	5273	16612	29231
2	BIHAR	107640	6599	7775	9926	7955	25182	50838	50203
3	CHATTISGARH	73616	4095	123	435	1859	5621	8038	61483
4	GOA	347	0	0	2	0	0	2	345
5	GUJARAT (Data reconciled on 14/08/2014)	34548	255	24	29	35	1479	1567	32726
6	HARYANA	7251	15	45	30	97	268	440	6796
7	HIMACHAL PRADESH	53604	0	375	2806	5370	5779	14330	39274
8	JAMMU AND KASHMIR	15798	10	497	1615	4570	1057	7739	8049
9	JHARKHAND	119667	27	3478	25	38	96	3637	116003
10	KARNATAKA	59753	2373	3132	11306	11487	6975	32900	24480
11	KERALA	11883	828	2827	1782	1578	1530	7717	3338
12	MADHYA PRADESH	127559	1737	5	17	108	547	677	125145
13	MAHARASHTRA	100488	949	60	1500	9072	1568	12200	87339
14	ODISHA	157296	6720	9691	9641	11588	17846	48766	101810
15	PUNJAB	15370	19	209	357	1111	1111	2788	12563
16	RAJASTHAN	121133	23956	7384	7805	6950	5953	28092	69085
17	TAMIL NADU	100018	415	836	2693	4581	5547	13657	85946
18	TELANGANA (Data under reconciliation)	25139	1619	1463	2313	3207	3325	10308	13212
19	UTTAR PRADESH (Data under reconciliation)	260110	498	11	13	20	29	73	259539
20	UTTARAKHAND	39142	34	2087	3676	5376	3774	14913	24195
21	WEST BENGAL	98120	11614	7729	10210	12890	10258	41087	45419
22	ARUNACHAL PRADESH	7412	87	2568	1104	820	447	4939	2386
23	ASSAM	87888	10684	10590	8137	8968	7519	35214	41990
24	MANIPUR	2870	0	121	178	178	304	781	2089
25	MEGHALAYA	9326	52	2158	2220	1480	1498	7356	1918
26	MIZORAM	777	0	88	109	119	122	438	339
27	NAGALAND	1530	38	531	253	122	83	989	503
28	SIKKIM	2084	0	361	439	402	220	1422	662
29	TRIPURA	8132	4319	106	134	198	160	598	3215
30	ANDAMAN And NICOBAR (Data under reconciliation)	400	0	14	48	5	10	77	323
31	CHANDIGARH	18	0	0	18	0	0	18	0
32	DADRA and NAGAR HAVELI	70	0	70	0	0	0	70	0
33	DAMAN and DIU	21	0	21	0	0	0	21	0
34	LAKSHADWEEP	9	0	9	0	0	0	9	0
35	PUDUCHERRY	248	9	0	8	88	54	150	89
Total		**1696664**	**78506**	**67125**	**82949**	**104754**	**113635**	**368463**	**1249695**

Source : Ministry of Drinking Water & Sanitation

Table 42: Status of Hydro Electric Potential Development - Region and State-wise (In terms if Installed capacity - Above 25 MW)

As on 31.01.2015

Region/ State	Identified Capacity as per reassessment study		Capacity Under Operation		Capacity Under Construction		Capacity Under Operation + Under Construction		Capacity yet to be taken up under construction	
	Total	Above 25 MW								
	(MW)	(MW)	(MW)	%	(MW)	(%)	(MW)	(%)	(MW)	%
1	2	3	4	5	6	7	8	9	10	11
NORTHERN										
Jammu & Kashmir	14146	13543	2669.0	19.71	1630.0	12.04	4299.0	31.74	9244.0	68.26
Himachal Pradesh	18820	18540	8508.0	45.89	3016.0	16.27	11524.0	62.16	7016.0	37.84
Punjab	971	971	1206.3	100	206.0	21.22	1412.3	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	3426.4	19.04	1640.0	9.11	5066.4	28.15	12931.7	71.85
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**	**16722.3**	**32.00**	**6492.0**	**12.42**	**23214.3**	**44.42**	**29048.8**	**55.58**
WESTERN										
Madhya Pradesh.	2243	1970	2395.0	100	400.0	20.30	2795.0	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	2487.0	75.05	0.0	0.00	2487.0	75.05	827.0	24.95
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**

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Table 42: Status of Hydro Electric Potential Development - Region and State-wise (In terms if Installed capacity - Above 25 MW)

As on 31.01.2015

Region/ State	Identified Capacity as per reassessment study		Capacity Under Operation		Capacity Under Construction		Capacity Under Operation + Under Construction		Capacity yet to be taken up under construction	
	Total	Above 25 MW								
	(MW)	(MW)	(MW)	%	(MW)	(%)	(MW)	(%)	(MW)	%
SOUTHERN										
Andhra Pradesh	1981	1956	1286.8	65.78	50.0	2.56	1336.8	68.34	619.3	31.66
Telangana	2443	2404	891.0	37.06	360.0	14.98	1251.0	52.04	1153.0	47.96
Karnataka	6602	6459	3585.4	55.51	0.0	0.00	3585.4	55.51	2873.6	44.49
Kerala	3514	3378	1881.5	55.70	100.0	2.96	1981.5	58.66	1396.5	41.34
Tamilnadu	1918	1693	1782.2	100	0.0	0.00	1782.2	100.00	0.0	0.00
Sub Total (SR)	**16458**	**15890**	**9426.9**	**59.33**	**510.0**	**3.21**	**9936.9**	**62.54**	**5953.2**	**37.46**
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	2027.5	68.01	0.0	0.00	2027.5	68.01	953.5	31.99
West Bengal	2841	2829	272.2	9.62	160.0	5.66	432.2	15.28	2396.8	84.72
Sikkim	4286	4248	669.0	15.75	2622.0	61.72	3291.0	77.47	957.0	22.53
Sub Total (ER)	10949	10680	3138.7	29.39	2782.0	26.05	5920.7	55.44	4759.3	44.56

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Table 42: Status of Hydro Electric Potential Development - Region and State-wise (In terms if Installed capacity - Above 25 MW)

As on 31.01.2015

Region/ State	Identified Capacity as per reassessment study		Capacity Under Operation		Capacity Under Construction		Capacity Under Operation + Under Construction		Capacity yet to be taken up under construction	
	Total	Above 25 MW								
	(MW)	(MW)	(MW)	%	(MW)	(%)	(MW)	(%)	(MW)	%
NORTH EASTERN										
Meghalaya	2394	2298	282.0	12.27	40.0	1.74	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	375.0	57.69	0.0	0.00	375.0	57.69	275.0	42.31
Nagaland	1574	1452	75.0	5.17	0.0	0.00	75.0	5.17	1377.0	94.83
Arunachal Pd	50328	50064	405.0	0.81	2854.0	5.70	3259.0	6.51	46805.0	93.49
Mizoram	2196	2131	0.0	0.00	60.0	2.82	60.0	2.82	2071.0	97.18
Sub Total (NER)	**58971**	**58356**	**1242.0**	**2.13**	**2954.0**	**5.06**	**4196.0**	**7.19**	**54160.0**	**92.81**
ALL INDIA	**148701**	**145320**	**36081.8**	**24.83**	**13138.0**	**9.04**	**49219.8**	**33.87**	**96100.2**	**66.13**

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.
#Western Yamuna Canal project (64 MW) has been developed in 4 stages each having Installed Capacity below 25 MW
All identified schemes have been fully developed
*###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, 2 PSS (1080 MW) are under construction, DPR of 1 PSS (500 MW) returned to project developer and 1

Table 43: Status of Hydro Electric Power Potential Development Basin-wise (In term of Installed Capacity above 25 MW)

As on 31.01. 2015

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	12323.3	37.31	4741.0	14.35	17064.3	51.67	15963.7	48.33
GANGA	20711	20252	4987.2	24.63	1751.0	8.65	6738.2	33.27	13513.6	66.73
CENTRAL INDIAN RIVERS	4152	3868	3147.5	81.37	400.0	10.34	3547.5	91.71	320.5	8.29
WEST FLOWING RIVERS	9430	8997	5660.7	62.92	100.0	1.11	5760.7	64.03	3236.3	35.97
EAST FLOWING RIVERS	14511	13775	7843.2	56.94	410.0	2.98	8253.2	59.91	5521.9	40.09
BRAHMAPUTRA BASIN	66065	65400	2120.0	3.24	5736.0	8.77	7856.0	12.01	57544.0	87.99
ALL INDIA	**148701**	**145320**	**36081.8**	**24.83**	**13138.0**	**9.04**	**49219.8**	**33.87**	**96100.2**	**66.13**

Central Water Authority, HP & I Division

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

3. In addition to above 9 PSS (4785.6 MW) are under operation and 2 PSS (1080 MW) are under construction

and 1 PSS (1000 MW) is under Survey & Investigation

Table 44 : Hydro Electric Power Installed Capacity and Generation - All India(Utilities)

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	1361.8	508.1	37.3	4073.3	2194.5	53.9	49
2	1950	1712.5	559.3	32.7	5106.7	2519.8	49.3	51
3	1955	2694.8	939.5	34.9	8592.5	3742.2	43.6	45
4	1960-61	4653.1	1916.7	41.2	16937	7836.6	46.3	47
5	1965-66	9027	4123.7	45.7	32990.1	15225	46.2	42
6	1973.7	16663.6	6965.3	41.8	66689	28971.8	43.4	47
7	1979-80	28447.8	11384	40	104627.3	45477.6	43.5	46
8	1985-86	46796	15471.6	33.1	170350.1	51020.8	30	38
9	1989-90	63627.3	18307.6	28.8	245437.9	62116.1	25.3	39
10	1990-91	66086.3	18753.4	28.4	264328.6	71641.3	27.1	44
11	1995-96	83293.5	20985.6	25.2	379877.1	72579.2	19.1	NA
12	1996-97	85795.4	21658.1	25.2	395889.5	68900.8	17.4	NA
13	1997-98	89102.3	21904.5	24.6	421747.3	74581.7	17.7	NA
14	1998-99	93293.5	22479.1	24.1	448544.1	82922.6	18.5	NA
15	1999-00	97884.5	23856.8	24.4	481055.2	80755.5	16.8	NA
16	2000-01	101626.2	25152.9	24.8	501204.1	74361.9	14.8	NA
17	2001-02	105046	26268.8	25	517439.4	73579.9	14.2	NA
18	2002-03	107877.4	26766.8	24.8	532693	64013.7	12	NA
19	2003-04	112683.5	29506.8	26.2	565101.7	75242.5	13.3	NA
20	2004-05	118425.7	30942.2	26.1	594456.2	84610.4	14.2	NA
21	2005-06	124287.2	32325.8	26	623819.5	101494.4	16.3	NA
22	2006-07	132329.2	34653.8	26.2	670654.2	113501.6	16.9	NA
23	2007-08	143061	35908.8	25.1	722625.5	120386.7	16.7	NA
24	2008-09	147965.41	36877.76	24.9	741167.36	110098.5	14.9	NA
25	2009-10	159398.5	36863.4	23.1	799850.6	104059.4	13	NA
26	2010-11	173626.4	37567.4	21.6	844748.2	114415.5	13.5	NA
27	2011-12	199877	38990.4	19.5	922451.1	130511.5	14.1	NA
28	2012-13	223343.6	39491.4	17.7	964488.9	113720.3	11.8	NA
29	2013-14*	245258.54	40531.41	16.5	1022614.2	134847.52	13.19	NA

Sources : Central Electricity Authority (DMLF Division)

MW : Mega Watt **GWH** : Giga Watt Hours

N.A. : Not Available * Provisional

GLOSSARY OF TERMS

Area sown more than once	This represents the areas 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 meter) or more in height from the natural bed of the stream and has a storage of at least 15 acre-feet or it has an impounding capacity of 50 acre-feet or more and is at least six feet (2 meters) 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 meter and storage exceeds 1 million cubic meter or the maximum flood discharge exceeds 2000 cumecs.
Gross Area sown	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).
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 1July to 30 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.
Net Area Sown	It is the total area sown with crops and orchards, counting areas sown more than once in the same agricultural year only once.
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.

Runoff	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.
Runoff/ 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 (km2)* 1000 and calculated at the discharge measurement station.
Surface runoff	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.