

जल ँव संबन्धित सांख्यिकी

WATER AND RELATED STATISTICS



जल संसाधन सूचना प्रणाली निदेशालय
सूचना प्रणाली संगठन
जल आयोजन ँव परियोजना स्कंध
केन्द्रीय जल आयोग

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

दिसम्बर 2013

DECEMBER 2013

WATER AND RELATED STATISTICS

WATER RESOURCES INFORMATION SYSTEM DIRECTORATE

***INFORMATION SYSTEM ORGANISATION
WATER PLANNING & PROJECT WING
CENTRAL WATER COMMISSION
DECEMBER 2013***

FOREWORD

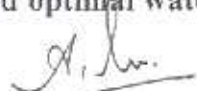
A number of water resources development projects aimed at ensuring rational and balanced allocation of water have been undertaken since independence in the country. The development, planning, execution and management of these projects requires sound and broad database on water resources and related aspects. 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
December, 2013


(A.B. Pandya)
Chairman, CWC

PREFACE

The notable aspects of the data included in the publication inter alia relate to water availability and requirement, irrigation development including Command Area Development, Agricultural Production, Land degradation, Resource utilisation, hydrological data on rainfall and flood management. A summary table at the beginning and number of graphs and charts have also been included in the publication reflecting the essence of information presented in different sections.



Collection, compilation, finalisation and computerisation 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. I am grateful to Shri A. B. Pandya, Chairman, CWC for his valuable guidance in shaping this publication. I am also thankful to Shri V. K. Chawla, Chief Engineer (IMO), CWC for his review and valuable suggestions for bringing out this publication. 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
December, 2013


(D. P. Mondal)
Advisor (ISO)

Officials associated with the Publication

1. *Shri D.P. Mondal*
Advisor
2. *Shri S.K. Madaan*
Director
3. *Shri Mohd. Islam Elahi*
Dy. Director
5. *Shri Ashwani Kumar*
Assistant Director
6. *Shri Ashwani Kumar*
Senior Statistical Officer.
7. *Shri Anil Kumar Raisinghani*
Jr. Computor

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

	Topics	Page No
Foreword		
Preface		
List of Officials		
Acronym		
Water Sector At a Glance		
Chapter 1 - Introduction		1
Chapter 2 - Water and Related Resources		3
Chapter 3 - Resources Utilisation		16
Chapter 4 - Financial Performance		24
Chapter 5 - Environmental Performance		27
Appendix-I		
Tables		
1	Per Capita Average Annual Availability of Water in India during 2010, 2025 & 2050	33
2	Basin Wise Storage in India as on 31.03.2013	34
3	Live Storage Capacity of Reservoirs in India as on 31.03.2013	35
4(A)	Storage Position of Important Reservoirs of India at the end of each month during June 2010 to May 2011	36
4(B)	Storage Position of Important Reservoirs of India at the end of each month during June 2009 to May 2010	52
5	Basin-wise Number of Hydrological Observation Stations by type	68
6	Ultimate Irrigation Potential by State	71
7	Number of Large Dams having capacity as on 30th November 2012 Abstract by State	72
8	Plan-wise Achievements of Irrigation Potential Created/ Utilised (Cumulative) under Major & Medium Irrigation Projects by State	74
9	Irrigation Potential Created and Utilized over plan periods	76
10	Year-wise Achievements of Irrigation Potential Created/Utilised under Major & Medium Irrigation of XI plan by State	78
11	Year-wise Achievements of Irrigation Potential Created/Utilised under Minor Irrigation Projects of XI plan* by State	80
12	Irrigation Potential Created ,Utilised and Gross Irrigated Area by State, 2009-10	82
13(i)	Project-wise Irrigation Potential Created (IPC) under AIBP	84
13(ii)	Irrigation Potential Created by Major and Medium Irrigation Projects under AIBP	94
13(iii)	Central Assistance releases to States for Major, Medium, ERM Projets for the period 1996-97 to 2012-13 under AIBP	95
14 (i)	Number of Major, Medium and ERM Irrigation Projects in India by State	96
14(ii)	State-wise & project-wise financial status of Major, Medium and ERM projects as reported completed in XI Plan	100
14(iii)	State-wise & project-wise financial status of Major, Medium and EMR projects as reported completed with liabilities in XII plan	109
14 (iv)	Abstract of New Projects under Appraisal in CWC	115
14 (v)	List of Projects Accepted By Advisory Committee of MoWR upto December 2012	116
15	Physical Achievements of Field Channels (F.C.) under CAD Programme by State	119
16	Physical Achievements of Field Drains under CAD Programme by State	121
17	List of On-going Projects under CADWM Programme during the period of XI Plan (2007-08 To 2011-12) as on March, 2012	123

18	Plan-wise Financial Expenditure on Irrigation in India	133
19	Plan-wise Financial Expenditure on Irrigation in India (at 1993-94 prices)	135
20	State-wise and Plan-wise Financial Expenditure on Major and Medium Irrigation	137
21	State-wise and Plan-wise Financial Expenditure on Minor Irrigation - State Sector	139
22	State-wise and Plan-wise Financial Expenditure on Minor Irrigation - Institutional	140
23	Central Releases under the Command Area Development Programme by State	141
24	State-wise Expenditure under CAD Programme - State Sector	143
25	Water Rates for flow Irrigation by State	146
26	Water Rates for Lift Irrigation by State	148
27	Flood Damage/Heavy Rains in India	150
28	State-wise Damage due to Flood / Heavy Rains during 2011	152
29	Flood Damage in India during 1953 TO 2011 (At 1993-94 Prices)	154
30	Plan-wise Expenditure Under Flood Management	156
31	Plan-wise Expenditure & Cumulative Benefits (Area Protected) under Flood Management (At 1993-94 Prices)	157
32	State-wise Plan-wise Financial Expenditure on Flood Management Work	158
33	State-wise Progress of Physical Works under Flood Management till March 2011	160
34(A)	Flood Forecasting Performance at various Forecasting stations during the flood season 2010	162
34(B)	Flood Forecasting Performance at various Forecasting stations during Flood Season 2009	172
35(A)	Broad Features of Flood Forecasting Performance during the Flood season 2010	182
35(B)	Broad Features of Flood Forecasting Performance during the Flood season 2009	185
36	Comparative Flood Forecasting Performance from 1986 to 2010	188
37	Projected Water Demand in India (By Different Uses)	189
38	Status of Coverage of Rural Habitations Under Rural Water Supply as on 1.04.2012	190
39	Detail of layers under India-WRIS	192
40	Status of Hydro Electric Potential Development- Region and State- wise	193
41	Status of Hydro Electric Power Potential Development-Basin-wise	196
42	Hydro Electric Power Installed Capacity and Generation - All India (Utilities)	197
43	List of Water Resources projects declared as National Projects	198

Water Sector at a Glance

Item		
1.	Average Annual Precipitation (including snowfall)	4000 BCM
2.	<i>Geographical Area</i>	328.7 Million Hectare
3.	i) Census Population – 2001	1028.74 Million
	ii) Census Population – 2011	1210.19 Million
4.	Estimated Annual Rainfall 2011	3669.35 BCM
5.	Average Annual Water Resources Potential	1869 BCM
6.	i) Per Capita Water Availability (2001)	1816 Cubic Meter
	ii) Per Capita Water Availability (2011)	1544 Cubic Meter
7.	Estimated Utilisable Water	
	i) Surface	690 BCM
	ii) Ground	431 BCM
	iii) Total	1121 BCM
8.		
a)	Live Storage Capacity	
	i) Completed Projects	253.388 BCM
	ii) Projects Under Construction	50.959 BCM
b)	Storage Position of 81 Important Reservoirs (BCM) (June 2009 to May 2011)	

Sl. No.	Month	Total Live Storage	Actual Storage	Percentage of actual Storage
1.	June-09	151.768	13.719	9
2.	July-09	151.768	54.403	36
3.	Aug-09	151.768	67.775	45
4.	Sept-09	151.768	89.835	59
5.	Oct-09	151.768	92.592	61
6.	Nov-09	151.768	87.782	58
7.	Dec-09	151.768	78.033	51
8.	Jan-10	151.768	64.709	43
9.	Feb-10	151.768	52.701	35
10.	Mar-10	151.768	39.097	26
11.	Apr-10	151.768	28.613	19
12.	May-10	151.768	21.328	14
(June 2010 to May 2011)				
1.	June-10	151.768	20.312	13
2.	July-10	151.768	46.224	30
3.	Aug-10	151.768	92.351	61
4.	Sept-10	151.768	114.601	76
5.	Oct-10	151.768	112.921	74
6.	Nov-10	151.768	113.473	75
7.	Dec-10	151.768	104.214	69
8.	Jan-11	151.768	89.403	59

9.	Feb-11	151.768	73.779	49
10.	Mar-11	151.768	58.256	38
11.	Apr-11	151.768	47.322	31
12.	May-11	151.768	36.441	24

9. Irrigation Potential

9.1 At the time of Independence (Pre-Plan)

22.6 Million Hectare

Created & Utilised

i) Major & Medium	9.7 Million Hectare
ii) Minor Irrigation	12.9 Million Hectare
a) Surface Water	6.4 Million Hectare
b) Ground Water	6.5 Million Hectare

9.2

Potential Created

(Million Hectare)

Period	Major. & Med	Minor		Total	Total Major, Med & Minor
		Surface Water	Ground Water		
VI Plan (1980-85)	1.09	1.70	5.82	7.52	8.61
VII Plan (1985-90)	2.22	1.29	7.80	9.09	11.31
Annual Plan (1990-92)	0.82	0.47	3.27	3.74	4.56
VIII Plan (1992-97)	2.21	1.05	1.91	2.96	5.17
IX Plan (1997-2002)	4.10	1.09	2.50	3.59	7.69
X Plan (2002-07)	4.59	N.A	N.A	3.20	7.79

9.3 Major & Medium (Surface Water)

i) Ultimate	58.5 Million Hectare
ii) Created (Upto 2009-10)	44.4 Million Hectare
iii) Utilised (Upto 2009-10)	34.4 Million Hectare

9.4 Minor Irrigation

i) Ultimate	81.4 Million Hectare
ii) Created (Upto 2009-10)	62.8 Million Hectare
iii) Utilised (Upto 2009-10)	52.5 Million Hectare

9.5 Total (Major & Medium + Minor)

i) Ultimate	139.9 Million Hectare
ii) Created (Upto 2009-10)	107.2 Million Hectare
iii) Utilised (Upto 2009-10)	86.9 Million Hectare

10. Number of Major, Medium & ERM Irrigation Projects (Tentative / Under finalisation)

	Major Projects	Medium Projects	ERM
i) Completed in Pre Plan	74	143	-
ii) Completed in Plan Period upto IX Plan	154	773	91
iii) Completed in X Plan	32	40	30
iv) Completed in XI Plan*	35	62	19
iv) Spilled over Projects in XII Plan*	149	138	39
iv) New Projects in XII Plan *	27	32	27

* Figures are likely to be changed after receiving final data.

11.	CAD Programme	
11.1	Year of Commencement	1974-75
11.2	Cumulative Physical Achievement of Field Channels (Upto March 2012)	20148.2 '000 Hectare
12.	Land Use Classification (2009-10) (Million Hectare)	
	Geographical Area	328.73
	Forest Area	70.04
	Total Cultivable Land	182.47
	Net Sown Area	140.02
	Gross Sown Area (Total Cropped Area)	192.20
13.	Expenditure on Irrigation Sector	

						(Rs. Million)
Period	Major & Medium	Minor	CAD	Total	% of Expenditure on Irrigation to Total plan expenditure	
First Plan (1951-56)	3762	656	Nil	4418	23	
Seventh Plan (1985-90)	111073	61929	14475	187477	9	
Annual Plan (1990-91)	26348	14878	2856	44082	8	
Annual Plan (1991-92)	28240	15181	3338	46759	7	
Eighth Plan (1992-97)	216692	104724	19379	340795	7	
Ninth Plan (1997-02)	492896	112967	22228	628091	7	
Tenth Plan (2002-07)	836471	171818	25348	1033637	7	
Annual Plan (2007-08) (Actual Expenses)	293906	48851	10703	353460	10	
Annual Plan (2008-09) (Actual Expenses)	323418	63167	5724	392308	8	
Annual Plan (2009-10) (Actual Expenses)	331688	75349	7029	414065	8	
Annual Plan (2010-11) (Revised Approved Outlay)	343101	91613	9705	444419	6	
Annual Plan (2011-12) (Approved Outlay)	452620	127671	16057	596348	7	

14. Flood Damages during 2011(Tentative)

i) Area Affected	1.81	Million Hectare
ii) Cropped Area Affected	2.69	Million Hectare
iii) Value of Damages to Crops	1386.10	Rs. Crore
iv) Population Affected	15.91	Million
v) Human Lives Lost	1761	No.
vi) Cattle lost	36	Th. Nos.
vii) No. of Houses Damage	1153	Th. Nos.
viii) Value of Damaged Houses	410.48	Rs. Crore
ix) Damage to Public Utility	6047.67	Rs. Crore
x) Total Loss to Crop, House and Public Utility	7844.24	Rs. Crore

15. Flood Management

Area Benefited up to March 2011

18.78 Million Hectare

16. Flood Forecasting Performance (Between 1.5.2010 and 31.10.2010)

i) No. of Flood Forecasting Stations Operated	175
ii) No. of Flood Forecasting Stations which issued Forecast	113
iii) Total No. of Forecasts issued	7519
iv) Total No. Correct Forecasts within limits	7378
v) Percentage of accuracy	98.12

17. Projected water demand (BCM)

Year	NCIWRD				
	1997-98	2010		2025	
		Low	High	Low	High
i) Irrigation	524	543	557	561	611
ii) Domestic	30	42	43	55	62
iii) Industries	30	37	37	67	67
iv) Power	9	18	19	31	33
v) Inland Navigation	0	7	7	10	10
vi) Flood Control	0	0	0	0	0
vii) Environments (1) Afforestation	0	0	0	0	0
viii) Environments (2) Ecology	0	5	5	10	10
Ix) Evaporation losses	36	42	42	50	50
Total	629	694	710	784	843

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 km³, 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 km³ or 2.5% of the total volume. Of these, 24 million km³ 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. Some useful facts and figures on world's water is presented in Box 1.

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 2010. It comprises six chapters & two appendixes. Summary tables and charts have been included within the chapters to facilitate overview and better understanding. Chapter 1 presents introduction while Chapter 2 deals with key indicators of water resources including, inter-alia, water availability, creation of storages and ultimate irrigation potential. Chapter 3 deals with data on utilisation of water resources. Chapter 4 relates to agricultural production, production/output data on other water related sectors viz. Fisheries, Hydro-electric Power etc. Chapter 5 gives a brief account of financial resources used in irrigation projects. Social and environmental aspects of water resources development activities as well as data on flood damages and flood protection works are dealt with in Chapter 6. Detailed tables have been provided in Appendix-I and Glossary of terms in Appendix-II.

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 Km³ of water (which is less than 1% of all fresh water resources).
2. The Earth's atmosphere contain approximately 13000 Km³ 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.

Table T1: Inland Water Resources of India	
(1)	(2)
Rivers & Canals (length in km)	195210
Other Water Bodies (area in Mha)	
Reservoirs	2.91
Tanks & Ponds	2.41
Flood Plain Lakes & Derelict Water bodies	0.80
Brackish Water	1.24
Total	7.36

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

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 7.4 Mha. Among these water bodies, 'reservoirs' have maximum area (2.9 Mha) followed by 'tanks, lakes and ponds' (2.4 Mha).

The total area of inland water resources (other than rivers and canals) is unevenly distributed over the States. These areas² 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)				Total (3 to 6)
		Reservoirs	Tanks, & Ponds	Floodplain Lakes & Derelict Water	Brackish Water	
1	2	3	4	5	6	7
Orissa	4500	2.56	1.14	1.8	4.3	9.80
Andhra Pradesh	11514	2.34	5.17	-	0.6	8.11
Karnataka	9000	4.4	2.9	-	0.1	7.40
Tamil Nadu	7420	5.7	0.56	0.07	0.6	6.93
West Bengal	2526	0.17	2.76	0.42	2.1	5.45
Kerala	3092	0.3	0.3	2.43	2.4	5.43
Uttar Pradesh	28500	1.38	1.61	1.33	-	4.32

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

Gujarat	3865	2.43	0.71	0.12	1	4.26
Maharashtra	16000	2.79	0.59	-	0.1	3.48
Arunachal Pradesh	2000	-	2.76	0.42	-	3.18
Rajasthan	5290	1.2	1.8	-	-	3.00
Madhya Pradesh	17088	2.27	0.6	-	-	2.87
Others incl UTs	84415	3.53	3.24	1.39	1.2	9.36
TOTAL	195210	29.07	24.14	7.98	12.4	73.59

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.

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

Rainfall³: 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 2011, the total volume of rainfall was 3669 BCM as against 3989 BCM recorded during the previous calendar year registering a decrease of about 8%.

Table T4: Volume of Rainfall in the country

Year (1)	2001 (2)	2002 (3)	2003 (4)	2004 (5)	2005 (6)	2006 (7)	2007 (8)	2008 (9)	2009 (10)	2010 (11)	2011 (12)
Total Rainfall (mm)	1110	930	1234	1086	1215	1161	1181	1117	954	1213	1116
Total Volume of Rainfall (BCM)	3648	3200	4057	3570	3996	3819	3882	3674	3136	3989	3669

³ For further details please see website of IMD

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.

The table shows total water resources potential on an average during a year is 1869 BCM out of which only 690 BCM is utilisable. 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

Table T5: Major 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	Brahmani & 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

utilisable surface water is concerned, the proportion of utilisable surface water resources to water resources potential is very high in smaller basins. In Pennar and some other river basins the total utilization 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. 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 1121 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.

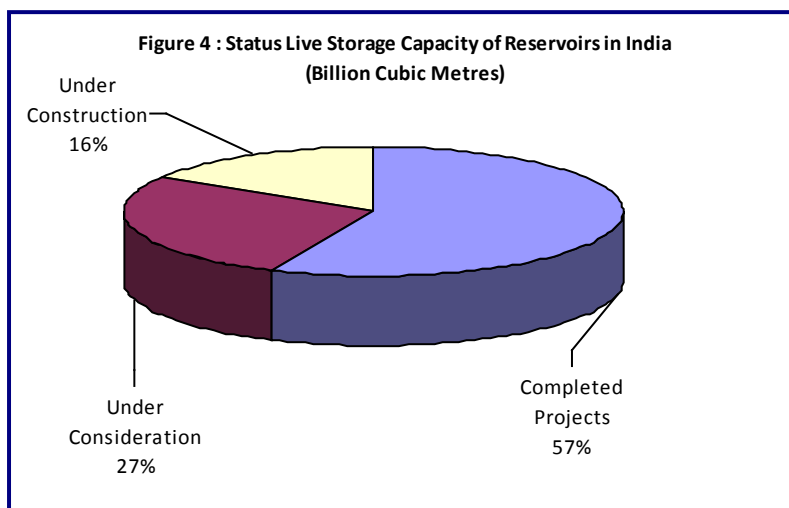


Table T6: Percentage of Water Resources Potential in major basins

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

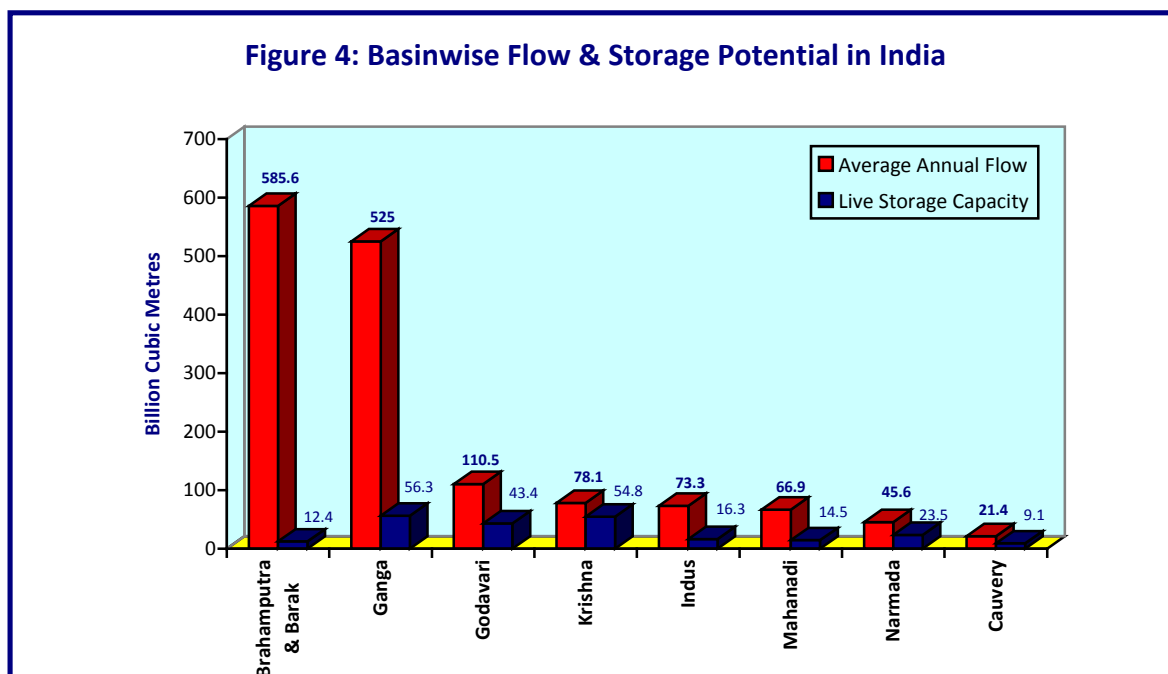
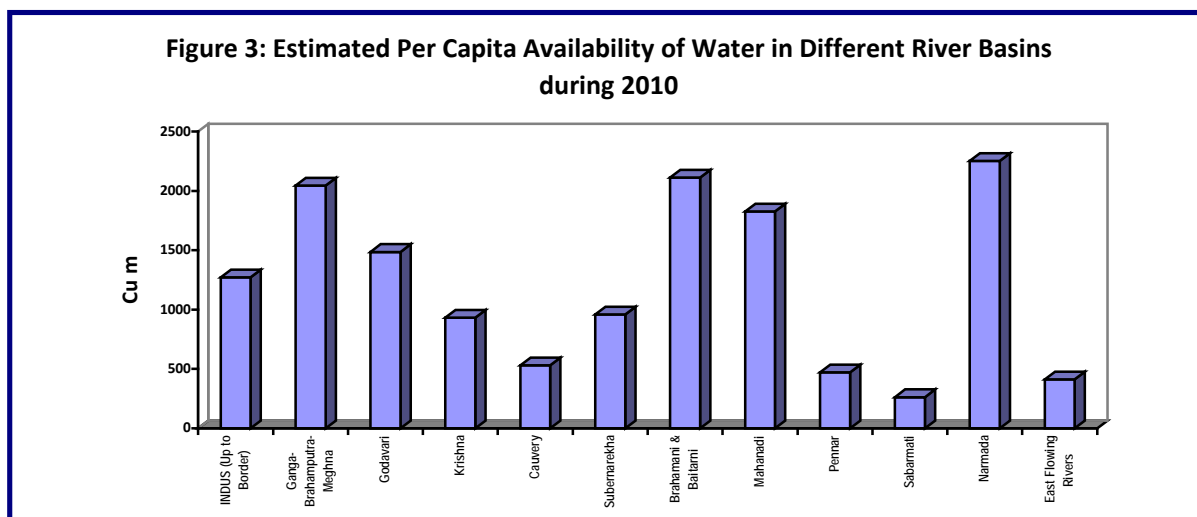
The distribution of water resources potential in the country shows that the national per capita annual availability of water was 1816 cu m in 2001 while it was 1544 cu m in 2011. The estimated per capita average

availability during the year 2010 in Ganga-Brahmaputra-Meghna system was 2045 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 (taking into consideration of projects under construction) 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 Tapi, Krishna and Narmada while for Ganga and Brahmaputra sub-basins the corresponding figures are 11 % and 0.5 % respectively.



The States of 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 2009-10 and 2010-11 are presented in the Appendix.

Hydrological Network of CWC

CWC maintains 902 Hydrological and Hydro-meteorological 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

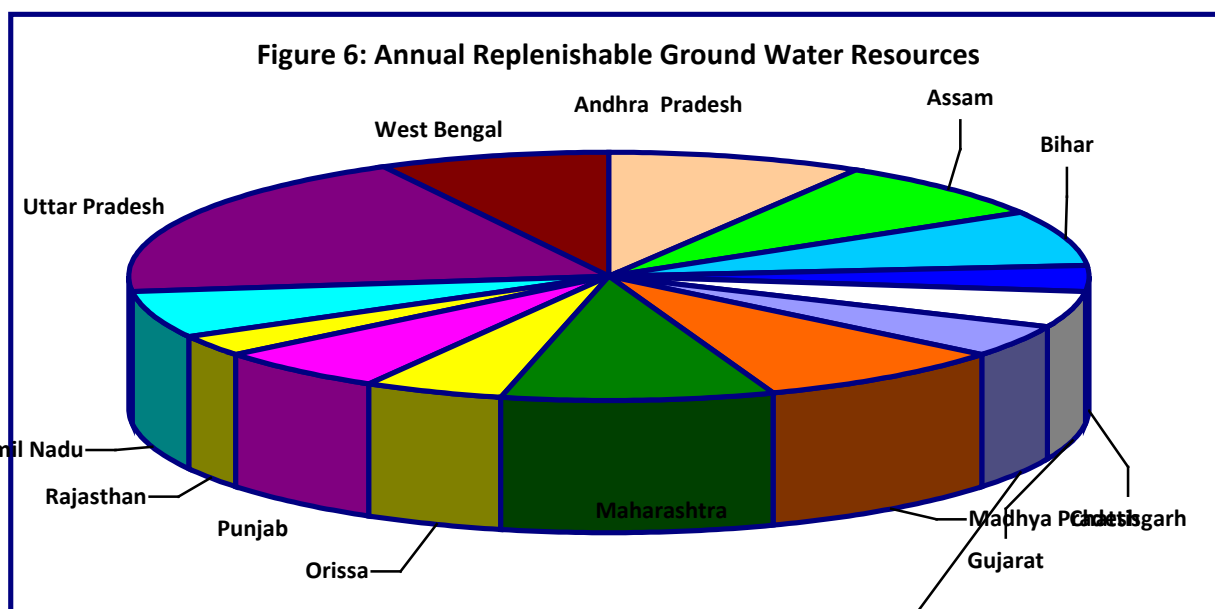
Total annual replenishable ground water potential of the country has been estimated as 431 BCM. The break-up of annual replenishable ground water resources by State with share 2.5% or more have been presented in Table T7. It shows 14 States comprise 91% of ground water potential. Among the States, Uttar Pradesh ranks first (17.5%) in terms of share of replenishable ground water resources followed by Maharashtra (8.3%), Madhya Pradesh (7.9%), Andhra Pradesh (7.8%), West Bengal (7.1%) and Assam (7.0%).

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 2009⁴ 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.

Table T7: Annual Replenishable Ground Water Resources

State (1)	Annual Replenishable Ground Water Resources	
	(BCM / Year) (2)	%
Andhra Pradesh	33.83	7.8
Assam	30.35	7.0
Bihar	28.63	6.6
Chhattisgarh	12.22	2.8
Gujarat	18.43	4.3
Karnataka	16.81	3.9
Madhya Pradesh	33.95	7.9
Maharashtra	35.73	8.3
Orissa	17.78	4.1
Punjab	22.56	5.2
Rajasthan	11.86	2.8
Tamil Nadu	22.94	5.3
Uttar Pradesh	75.25	17.5
West Bengal	30.50	7.1
Others	40.19	9.3
Total	431.02	100.0
Sources : Central Ground Water Board, Min. of 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 30202 structures as on 31.03.2011 in the country. Out of which DW constitutes about 12.0% while the remaining 88.0% are other

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, Chhattisgarh, Goa, J&K, Jharkhand, Maharashtra, Manipur, Meghalaya, Mizoram, Nagaland, Orissa, Sikkim, Tripura, A&N Islands, Chandigarh, D& N Haveli				
75-90	AP, HP, Kerala, WB			Delhi	
40-75	Gujarat, Karnataka, MP, UP, Uttarakhnad, Lakshadweep, Puducherry		Daman &Diu, Lakshadweep		Haryana, Daman &Diu
20-40	TN		Uttarakhnad		Karnataka, TN, Puducherry
5-20	Delhi, Haryana		AP, Delhi, Gujarat, Haryana, Karnataka, Kerala, MP, Maharashtra, TN, UP, Uttarakhnad, WB		Gujarat, HP, MP, UP, Gujarat,
<5	Bihar, Chhattisgarh, Jharkhand		AP, Gujarat, Jharkhand, Karnataka, Kerala, MP, Maharashtra, UP		AP, Rajasthan, Orissa, TN

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

types of bore holes. Rajasthan, Andhra Pradesh, Orissa, Karnataka, Gujarat, Uttar Pradesh and

Madhya Pradesh account for 57% of the total bore holes in the country. Out of total DW schemes in the country, Rajasthan, Bihar and Uttar Pradesh account for 44% 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	1333	462	1108	93	591	2881
Andhra Pradesh	1341	629	1251	14	31	2802
Orissa	1760	177	1321	21	191	2452
Karnataka	1347	346	1227	7	5	2313
Gujarat	1083	485	918	25	255	2291
Uttar Pradesh	1018	165	821	39	501	2279
Madhya Pradesh	1261	149	929	8	149	2177
Maharashtra	1220	154	1140	2	166	1972
Tamil Nadu	1029	385	919	13	93	1878
Chhattisgarh	889	120	589	0	28	1218
Bihar	276	67	276	10	514	1033
Haryana	373	212	366	23	170	1021
Other States/UTs	2872	811	2791	106	941	5885
All States &UTs	15802	4162	13656	361	3635	30202

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

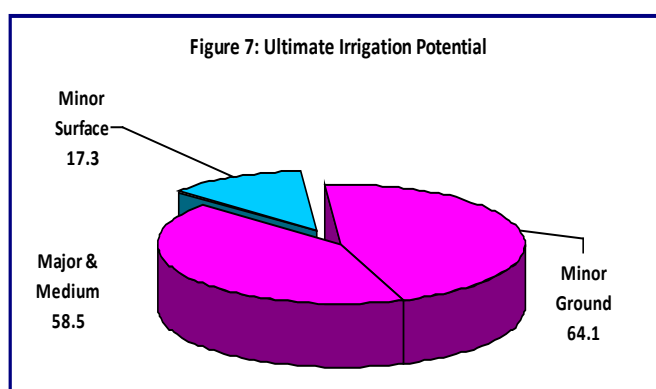
Irrigation potential

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.

Table T10: Ultimate Irrigation Potential ('000 ha)					
State	Major & Medium	Surface	Minor Ground	Sub-total	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

Ground Water contributes more than 79% 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 Madhya Pradesh, Andhra Pradesh and Maharashtra account for about 54% of the total ultimate potential of Major & Medium Irrigation in the country. The largest UIP for Minor Irrigation (Ground Water) exists in Uttar Pradesh. Andhra Pradesh and Madhya Pradesh are 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.



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

Table T11: Number of Dams by State (as on 30.11.2012)

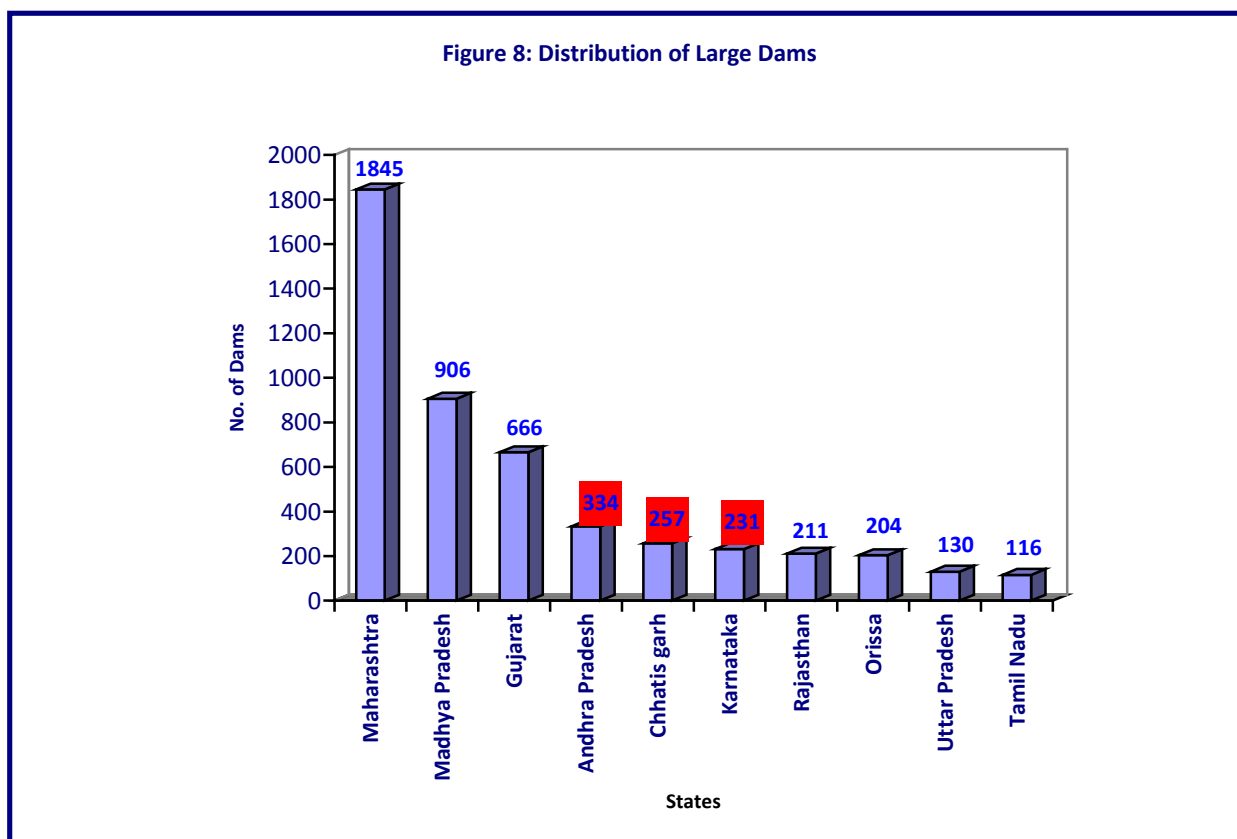
State/UT	Completed	Under Construction	Total	State/UT	Completed	Under Construction	Total
(1)	(2)	(3)	(4)				
A&N Islands	2	0	2	Maharashtra	1693	152	1845
Andhra Pradesh	290	44	334	Manipur	3	2	5
Arunachal Pr.	1	0	1	Meghalaya	5	1	6
Assam	3	2	5	Mizoram	0	0	0
Bihar	24	4	28	Nagaland	0	0	0
Chhattisgarh	243	14	257	Orissa	198	6	204
Goa	5	0	5	Punjab	14	1	15
Gujarat	621	45	666	Rajasthan	201	10	211
Haryana	1	0	1	Sikkim	2	0	2
Himachal Pr.	13	6	19	Tamil Nadu	116	0	116
J& K	12	2	14	Tripura	1	0	1
Jharkhand	49	28	77	Uttar Pradesh	114	16	130
Karnataka	230	1	231	Uttarakhand	13	6	19
Kerala	58	1	59	West Bengal	28	0	28
Madhya Pradesh	899	7	906				
				Total	4839	348	5187

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

distribution of number of dams is presented in Table T11. It reveals that there are 5187 Dams in the country out of which 4839 are completed. The maximum number of dams completed in the country is in Maharashtra (1693) followed by Madhya Pradesh (899), Gujarat (621), Andhra Pradesh (290), Chhattisgarh (243), Karnataka (230) and Rajasthan (201). The number of dams under construction is the highest in Maharashtra (152) followed by Gujarat (45), Andhra Pradesh (44) and Jharkhand (28).

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 (1294) and 1981-90 (1255).

Table T12: Break-up of number of completed Dams by time period									
Upto 1900	1901-1950	1951-1960	1961-1970	1971-1980	1981-1990	1991-2000	2001& above	Not available	Total
81	300	233	499	1295	1256	625	333	194	4839



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

The national Water Policy (2002) recognizes that development and management of water resources need to be governed by national perspectives 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 has been given to ISRO in Oct' 2008. Central Water Commission & ISRO has signed an MOU on 3rd December 2008 to develop web enabled GIS based Water Resources Information System for the entire country during XI plan to be completed in 4 years. The information system will be on 1:50000 scale. WRIS has been jointly formulated by CWC and ISRO to generate nationally consistent water resources database to be completed by December 2012.

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:**

- The First version of website of INDIA WARIS has been launched on 07 Dec, 2010 in New Delhi by Hon'ble Minister Water Resources. The URL of the website is www.india-wris.nrsc.gov.in/webgis.php#. Further, the development of Information System is under progress and the 2nd version INDIA WARIS was launched by Chairman, CWC on world water day i.e. 22nd Mar' 2012. The full version with complete database of the project is anticipated to be launched by June' 2014. Further, the development of Information System is under progress and in continuation of above, following achievements are made during 2012.

(i) River Basin Atlas of India was released by Hon'ble Union Minister (MoWR) on 1st November 2012.

(ii) The updated version i.e. 3rd version (that includes Live telemetry data in respect of CWC hydrological stations, Mobile Application version 1.0 for Android platform, Climate Trend analysis, 2D-3D linked view) is launched by Hon'ble Union Minister (MoWR) on 4th December 2012.

All unclassified data of CWC G&D stations has been uploaded at WRIS website recently in July 2013 as per Hydro-meterological data dissemination policy 2013.

The URL of the website is www.india-wris.nrsc.gov.in can be seen for more details.

- **Financial Achievement** – An amount of Rs. 53.11 crores has been incurred/ released to ISRO during 11th plan.

To maintain and update such a large volume of water resources data at national level it has been proposed during 12th plan to establish a new organization as NATIONAL WATER RESOURCES INFORMATION CENTRE (NWR-IC).

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 the 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 2lakh 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 15 Projects included in the scheme of National Projects, four projects namely Gosikhurd irrigation project (Maharashtra), Teesta Barrage Project (West Bengal), ShahpurKandi Project (Punjab) and SaryuNaharPariyojna (Uttar Pradesh) are under execution. Lakhwar Multipurpose Project has been accepted by Advisory Committee of MoWR. Three projects namely Kishau Multipurpose Project, Renuka Project and Ken-Betwa Link Project are under appraisal. Remaining seven projects are at various stages of investigation /DPR preparation. During XI Plan central assistance of Rs 2787.176 crore was released and during XII Plan central assistance of Rs 472098 crore has been released upto October 2013.

New projects could be considered for inclusion under the scheme of National Projects on receipt of proposals from the in the prescribed format from the state Governments after investment clearance from Planning Commission, clearance from Expenditure Finance Committee /Project Investment Board and on the recommendation there upon of high powered Steering Committee constituted for the purpose of overseeing the entire process of selection and implementation of National Projects and the approval by the Union Cabinet.

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 different Command Area Development (CAD) Programmes etc.

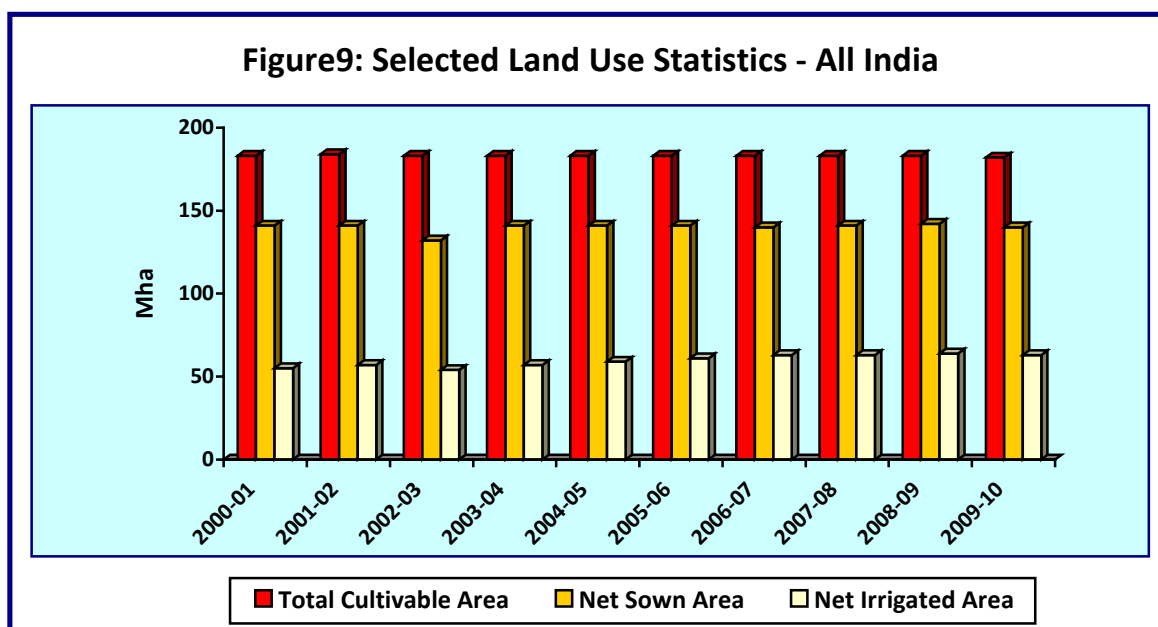
Land Use Statistics

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 T13⁵ and Figure 9 for the period 2000-2010. Over the decade the table shows that Net Sown Area is undulating while Total Cultivable Area has a declined trend but Forest Area, Gross Sown 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 2009-10 thereby indicating that 55% of the sown area – gross or net – doesn't have irrigation facility.

Table T13: Land Use and Irrigation Statistics – All India								
('000 ha)								
YEAR	Population ('000)	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)	(9)
2000-01	1028610	328726	69843	141336	183455	185340	76187	55205
2001-02	1045547	328726	69720	140700	183551	188286	78420	56920
2002-03	1062388	328726	69821	132051	183449	174108	73094	53884
2003-04	1079117	328726	69968	140708	183132	189669	78038	57046
2004-05	1095722	328726	69960	140642	182946	191119	81076	59218
2005-06	1112186	328726	69994	141162	182685	192756	84280	60831
2006-07	1128521	328726	70002	139848	182508	192408	86756	62744
2007-08	1144734	328726	70020	141377	182691	195138	87980	63291
2008-09	1160813	328726	70034	141929	182514	195357	88867	63740
2009-10	1176742	328726	70042	140022	182466	192197	86423	63256

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

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. From the published data of Ministry of Agriculture Table T14 giving gross irrigated area for a few selected crops has been presented. It shows that gross irrigated area during 2009-10 was 86.4 Mha of which foodgrain crops contributed about 67.9%.

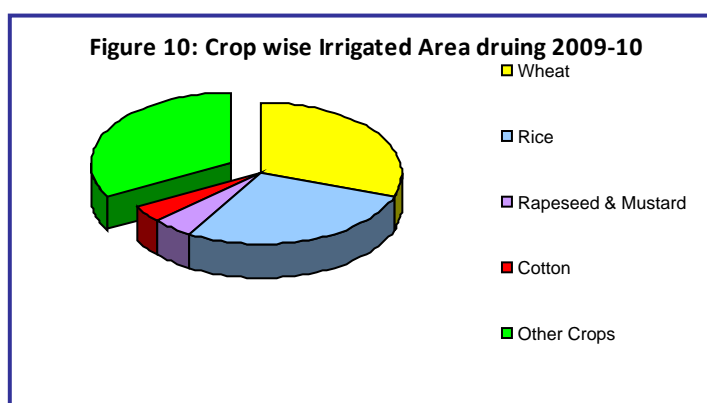
Table T14: Gross Irrigated Area for a Few Selected Crops – All India

('000 ha)

Crop / Year	1950-51	1960-61	1970-71	1980-81	1990-91	2000-01	2007-08	2008-09	2009-10
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Wheat	3402	4233	9924	15553	19511	22798	26101	25681	26209
Rice	9844	12523	14339	16364	19469	24337	25199	26597	24545
Rapeseed & Mustard	N.A.	138	356	990	3076	2759	4203	4449	3866
Foodgrains	18317	22065	30117	37851	44866	53609	59450	60372	58641
Cotton	465	967	1358	2115	2487	2766	3487	3313	3542
Total Gross Irrigated Area	22563	27980	38195	49775	63204	76187	87980	88867	86423

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

Among the cereals, it is observed that irrigated area under rice varied between 24.3 and 26.6 Mha during the period 2000-01 to 2009-10. The irrigated area under wheat remained between 22.8 to 26.2 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 tubewells. These data are available from two sources. Ministry of Agriculture collects data on irrigation by its source and compiles irrigated area by source at various levels – district / State / Country. However, Planning Commission collects data on Irrigation Potential Area Created (IPC) and Utilised (IPU) for major and medium irrigation projects⁶. For minor irrigation schemes, Ministry of Water Resources conducts a census once in 5-6 years. These censuses provide IPC and IPU by source of irrigation. The last census was conducted in 2006-07. However, the last published data of Minor irrigation census pertains to 2000-01.

Analysing the data relating to net area irrigated by source for the year 2009-10⁷, it is observed that the major source of irrigation is ground water. Wells (considering all types of wells viz. dug well, shallow tubewell, deep tubewell) provided about 62% irrigation followed by canals with 26% at all- India level.

Year	Canal	Tank	Wells	Other Sources	Total (All Sources)
(1)	(2)	(3)	(4)	(5)	(6)
2000-01	16012	2466	33818	2909	55205
2001-02	15200	2186	35183	4350	56920
2002-03	14071	1803	34348	3662	53884
2003-04	14455	1916	36383	4292	57046
2004-05	14763	1734	35189	7531	59218
2005-06	16716	2083	36070	5962	60831
2006-07	17026	2078	37641	5998	62744
2007-08	16812	1978	38400	6103	63291
2008-09	16945	1985	38795	6015	63740
2009-10	16697	1638	39042	5880	63256

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

Irrigation development in the country

As indicated earlier irrigation projects are classified as major, medium or minor irrigation projects⁸. 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.

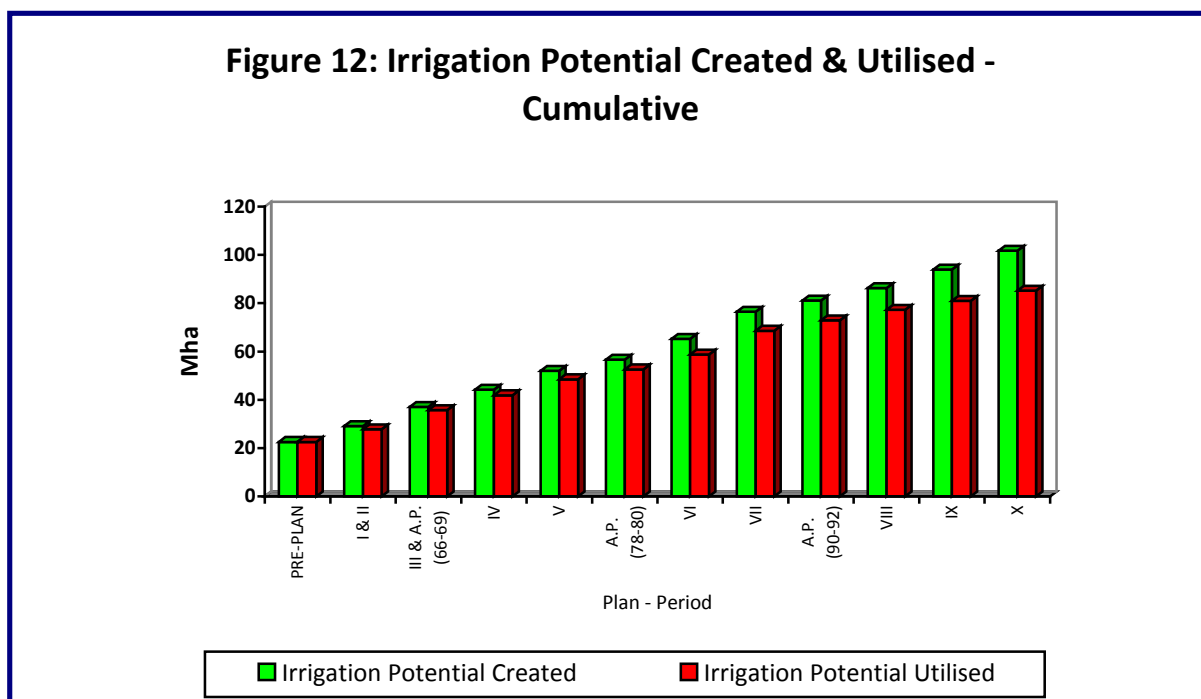
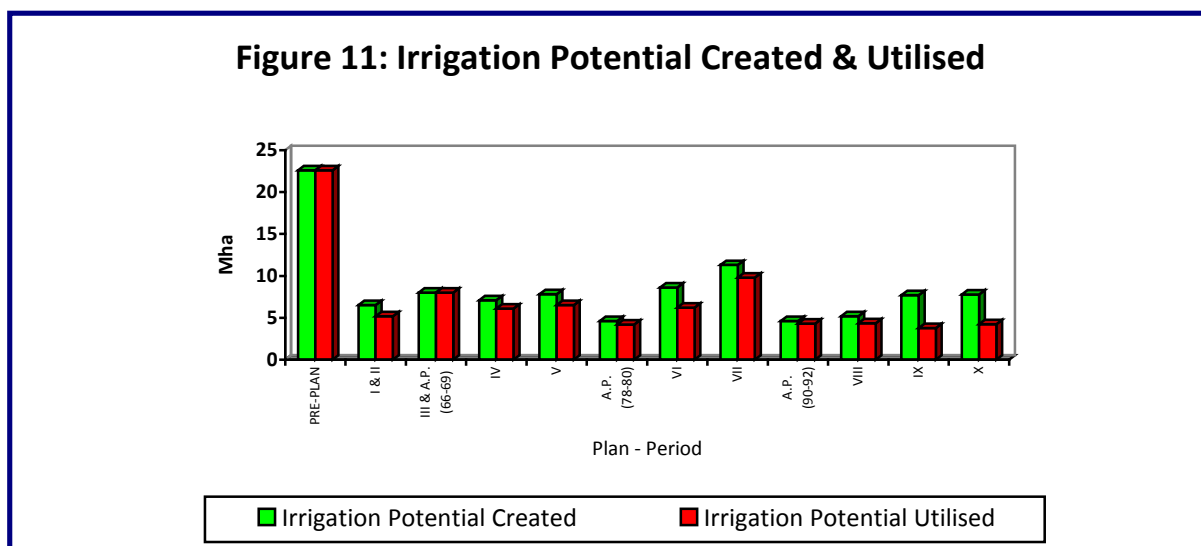
⁶ Irrigation projects are classified on the basis of culturable command area (CCA) of the project. A project having CCA of more than 10,000 ha is termed as major irrigation project while CCA more than 2,000 ha and upto 20,000 ha is medium irrigation project. A project/scheme having CCA upto 2,000 ha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

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

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

Analysing the data on potential created and utilised over different Plan periods, it is observed that irrigation potential created has increased from 22.6 Mha in pre-plan era to 101.7 Mha by the end of X Plan (2002-07). It is likely that irrigation potential created achieved as 108.91 Mha up to 2010-11 of XI Plan, out of this 45.3 Mha is from major & medium schemes and the remaining 63.6 Mha from minor schemes.

As regards irrigation potential utilised it is observed that the utilisation of total potential created was 22.6 Mha in pre-plan period which increased to 87.4 Mha by the end of 2010-11. The percentage of IPU to IPC upto VIII Plan remained 90% or more. However, the percentage started declining in subsequent plans. In XI Plan (upto 2010-11) it was around 80%.



Among the States, for major & medium, projects, the potential created at the end of X Plan (2002-07) is highest for Uttar Pradesh with 8.8 Mha followed by Andhra Pradesh and

Maharashtra with 3.6 and 3.5 Mha respectively. The total share of these three States was about 38% in creation of total irrigation potential. The percentage of potential created upto the end of X Plan to ultimate potential through Major & Medium Irrigation projects is 71% at national level.

Table 16 gives ultimate irrigation potential (UIP), IPC and IPU of the States having percentage of IPU to IPC at least 80%.

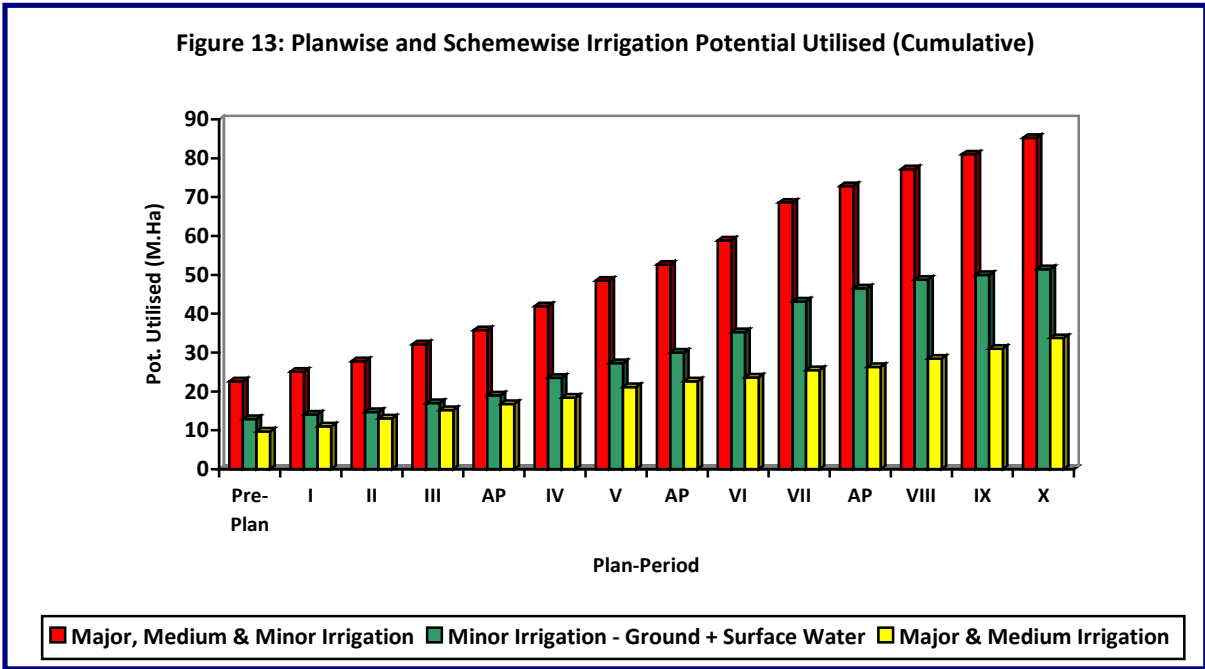
Table T16: Achievements of Irrigation Potential Created / Utilised for Major & Medium Irrigation					
('000 ha.)					
States	Ultimate Irrigation Potential (UIP)	Potential Created upto X Plan (IPC)	Potential Utilised upto X Plan (IPU)	% of IPC to UIP	% of IPU to IPC
(1)	(2)	(3)	(4)	(5)	(6)
Andhra Pradesh	5000	3600.2	3244.6	72.0	90.1
Haryana	3000	2193.7	1893.3	73.1	86.3
Jammu & Kashmir	250	187.3	174.6	74.9	93.2
Karnataka	2500	2637.7	2119.7	105.5	80.4
Orissa	3600	1974.4	1878.7	54.8	95.2
Punjab	3000	2574.7	2510.5	85.8	97.5
Rajasthan	2750	2861.6	2526.1	104.1	88.3
Tamil Nadu	1500	1562.6	1556.9	104.2	99.6
West Bengal	2300	1754.8	1573.6	76.3	89.7
All India	58465	41637.9	33739.6	71.2	81.0

Analysing the data on potential utilisation at the end of X Plan, it is found that about 81% of the potential created was utilised under major & medium irrigation projects at All-India level. Among the States, Tamil Nadu was at top with 99.6% utilisation whereas Punjab, Orissa, and Jammu & Kashmir and Andhra Pradesh were having 90% or more utilisation.

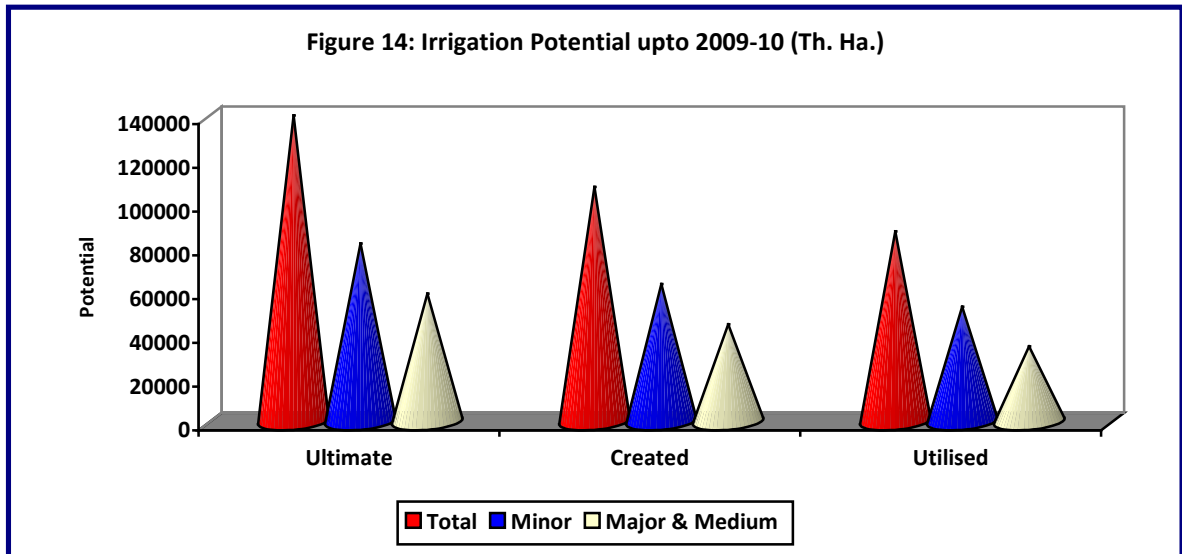
For Minor Irrigation, the total ultimate potential for the country as whole is 81.4 Mha, while Potential Created and Utilised till the end of X Plan were 60.1 and 51.5 Mha respectively at All-India level. The percentage of potential created upto X Plan to ultimate potential is 73.8 at national level.

The percentage of potential utilised for minor irrigation till 2006-07 corresponding to potential created was 86% at All-India level. Among the States it is the highest for Tamil Nadu with 99.6% potential utilisation followed by Punjab at 98.2%.

In a nutshell, at the end of X Plan, if all the major, medium and minor schemes are considered cumulatively, out of 140 Mha of ultimate potential 72.7% has been created of which 83.8% has been utilised at the national level.



State-wise data on irrigation potential created and utilised upto 2009-10 as per Planning Commission along with the Gross Irrigated Area from the Ministry of Agriculture are presented. It is observed that if all the Major, Medium and Minor schemes are considered cumulatively, a total of 107.2 Mha of irrigation potential has been created at the All-India level upto 2009-10 out of which 81% has been utilised. The gross irrigated area for 2009-10 is 86.4 Mha. Among the states the potential created upto 2009-10 is the highest for Uttar Pradesh at 33.8 Mha followed by Bihar and Andhra Pradesh at 8.0 and 7.2 Mha respectively. In terms of the GIA for the year 2009-01, Uttar Pradesh ranks first at 18.9 Mha followed by Punjab and Rajasthan at 7.7 and 7.3 Mha respectively.



Number of Major & Medium Irrigation Projects

Up to X Plan (1902-2007), there were 260 completed major projects and another 35 have been completed in XI Plan (2007-2012). The number of spilled over major projects in XII Plan is 149 out of which 49 are in Maharashtra and 30 in Andhra Pradesh. Among the States the

largest numbers of major projects completed up to the end of X Plan were in Uttar Pradesh (57) followed by Maharashtra (26) and Gujarat (19). The largest number of new Major Projects, 16, was identified in Madhya Pradesh while the maximum number of 49 ongoing major projects is in Maharashtra.

A total of 956 medium projects were completed up to the X Plan and another 62 are completed in XI Plan period. 138 new medium projects have been included in XII Plan. The largest number of new projects (13) was identified in Madhya Pradesh. For ongoing medium projects, the maximum number is in Maharashtra (71) followed by Madhya Pradesh (13).

Besides major & medium projects there are Extension, Renovation and Modernisation (ERM) Projects also. 121 such projects were completed up to X Plan and 19 projects have been completed in XI Plan. Whereas, there are 39 ongoing ERM projects in XII Plan and 27 ERM new projects have been identified in XII Plan.

AIBP Programme:

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. 48562.329 Crores for Major and Medium irrigation (MMI) Projects to various States has been released till March 2013. 293 MMI projects have been benefitted by AIBP out of which 142 projects have been completed by various States up to March, 2013, 5 have been deferred and the remaining 146 are ongoing. The annual potential creation rate during the VII Plan and VIII Plan was 440 Th. ha. per year which increased to 820 Th. ha per year during the IX Plan and 1060 Th. ha. per year during X Plan after the introduction of AIBP. Further details have been provided in appendix table.

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 (till the end of March 2012) and 2.12 Mha field drains (upto March 2011) have been created. Analysing cumulative data for all the states, it is observed that the development of field channels up to March 2012 is the highest for Uttar Pradesh followed by Karnataka and Rajasthan. These States accounted for 50.4% of the total achievement under the programme. As regards Field drains under the programme, cumulative physical achievement upto March 2011 was 2.1 million hectare. Further details are available in appendix table.

At present, new AIBP guidelines for 12th Plan effective from October, 2013. More emphasis were 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 Odissa
- (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 upto 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 Ist Install) after release of at least of 50% of State Share and balance 10% (IInd Install) after obtaining the UC of minimum of 50% of CA released earlier and
- (ii) For projects receiving higher than 50 % CA: - 50% (Ist Install) after the State Releases its full Share and 50% (IInd Install) same as above.

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

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

Chapter 4

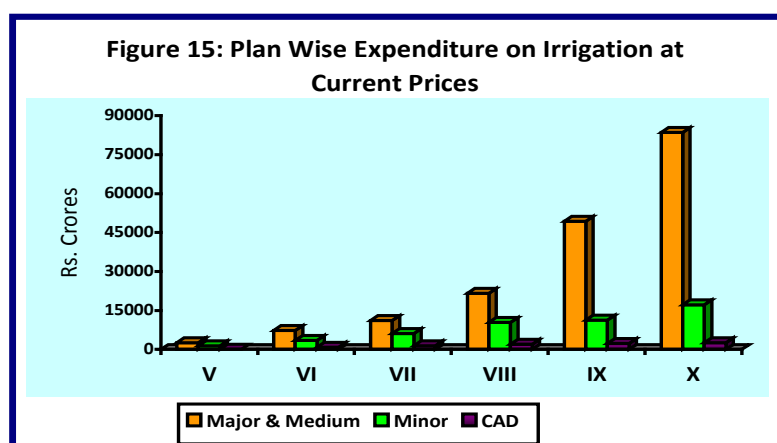
Financial Performance

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

Financial Expenditure on Irrigation

There has been a consistent increase in the annual average financial expenditure on irrigation sector over plan periods. But the expenditure has not matched with the growth of total plan expenditure on all sectors as is evident from the share of expenditure on irrigation to the total which declined from 23% in I Plan to about 7% in XI Plan.

Table T19: Expenditure on Irrigation						
Plan	Major & Medium	Minor	CAD	Total Expenditure on Irrigation	Total Plan Expenditure in All Sector	% of Expenditure on Irrigation to Total Plan Expenditure
(1)	(2)	(3)	(4)	(5)	(6)	(7)
I Plan	376.2	65.6	-	441.8	1960	23
X Plan	83647.1	17181.8	2534.8	103363.7	1525639	7
XI Plan	174473.3	40665.1	4921.8	220060.2	2888654	7.6



At constant prices⁹ (1993 - 94 = 100), the expenditure on irrigation sector is estimated to have increased from Rs. 6839.9 crores in 1st Plan to Rs. 55464.5 crores in the X Plan. It may be noted that the share of major & medium schemes is estimated to have declined from as high as 85% of the total expenditure in the irrigation sector in the I Plan to nearly 81% in the X Plan. This is apparently due to progressive emphasis on Minor Irrigation and Command Area Development Programmes in the subsequent years. Institutional assistance has also contributed

⁹ All-India Wholesale Price Index Number (Base 1993-94=100) has been used as deflator.

quite significantly in the development of minor irrigation in the country as is evident from the increasing institutional support to minor irrigation schemes in terms of total financial expenditure over different Plans. However, the total institutional expenditure also decreased in X Plan as compared to that in the IX Plan.

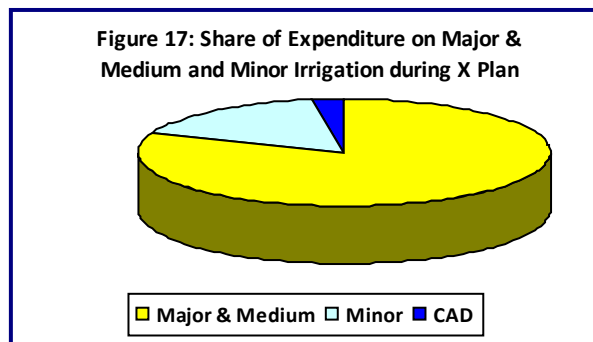
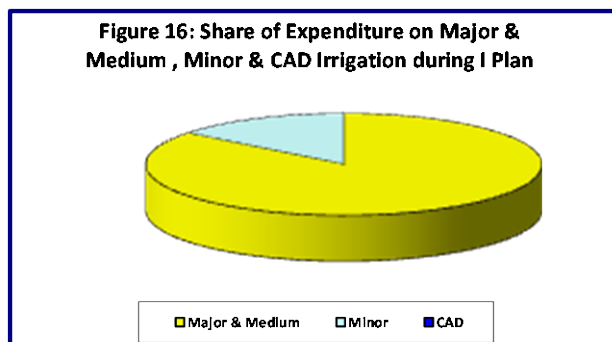


Table T20: Share of Expenditure on Major & Medium, Minor and CAD at constant Prices

Plan	Major & Medium	Minor	CAD
1	2	3	4
I Plan	85.15%	14.85%	-
X Plan	80.93%	16.62%	2.45%

Of the total expenditure (estimated) on major & medium irrigation schemes, a large share of above 81% is estimated to be contributed by the states of Andhra Pradesh, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, and Uttar Pradesh during X Plan. Of the total expenditure on minor irrigation under State Expenditure during X Plan, about 66% was incurred by the States of Andhra Pradesh, Bihar, Chhattisgarh, Gujarat, Karnataka, Madhya Pradesh and Maharashtra. Under institutional minor irrigation schemes a large share (83%) of the total expenditure during X Plan was contributed by states Andhra Pradesh, Bihar, Karnataka, Madhya Pradesh, Maharashtra, Punjab, Rajasthan and Uttar Pradesh.

Table T21: Expenditure on Major, Medium and Minor Irrigation – Contribution of Selected States during X Plan

(Rs. Crores)

States	Major & medium	Minor State Sector	Minor Institutional
1	2	3	4
Andhra Pradesh	20434.2	1742.2	277.8
Gujarat	10496.2	1638.6	148.7
Karnataka	16505.4	987.9	235.7
Madhya Pradesh	5429.3	1222.5	368.5
Maharashtra	10313.3	1560.3	277.6
Uttar Pradesh	4876.1	618.6	754.7

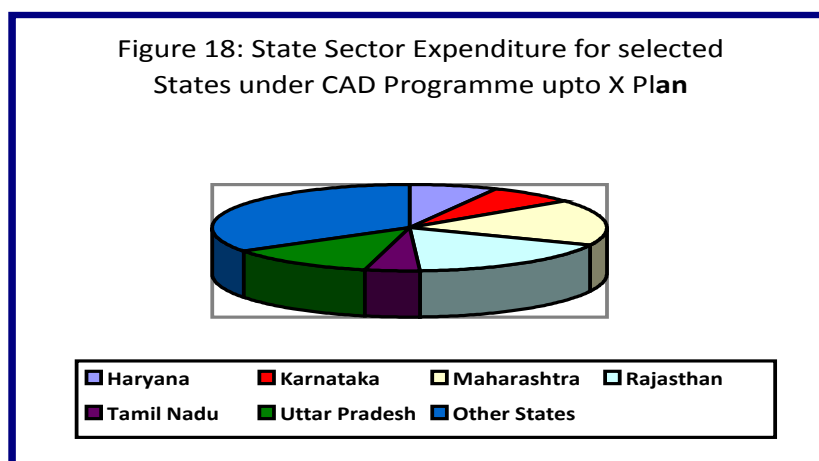
Command Area Development Programme

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 leveling, field channel, warabandi etc. Beginning with the CAD share of 3.6% in V Plan of the combined expenditure on major & medium, minor and CAD programmes it decreased to 2.45% during X Plan.

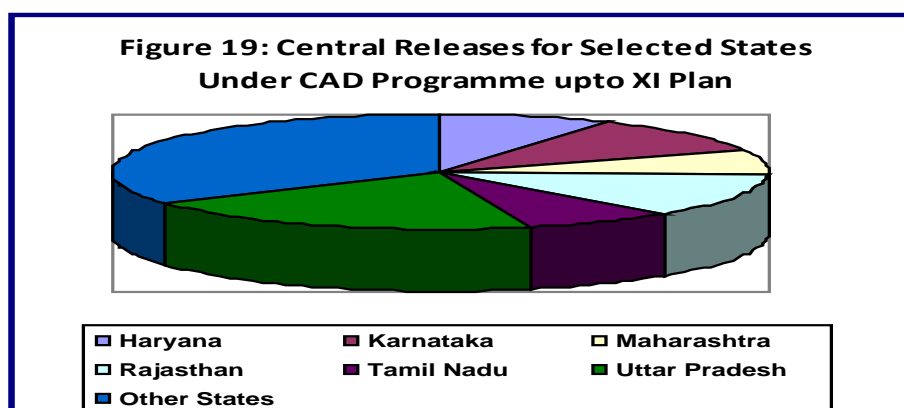
As regards, expenditure under State sector of CAD programmes Haryana, Karnataka, Maharashtra, Rajasthan and Uttar Pradesh Constituted about 61% of the total State sector expenditure upto X Plan.

Table T22: Expenditure for Selected States under Command Area Development Programme up to X Plan						
(Rs. Crores)						
State	Haryana	Karnataka	Maharashtra	Rajasthan	Tamil Nadu	Uttar Pradesh
Expenditure: State Sector	452.51	451.85	1087.90	1092.45	276.20	767.55



Haryana, Karnataka, Maharashtra, Rajasthan, Tamil Nadu & Uttar Pradesh are the major States accounting for about 66% of releases till XI Plan as under Central assistance to CAD programme.

Table T23: Expenditure for Selected States under Command Area Development Programme up to X Plan						
(Rs. Crores)						
	Haryana	Karnataka	Maharashtra	Rajasthan	Tamil Nadu	Uttar Pradesh
Central Releases	452.71	525.42	346.72	663.76	378.60	1056.25

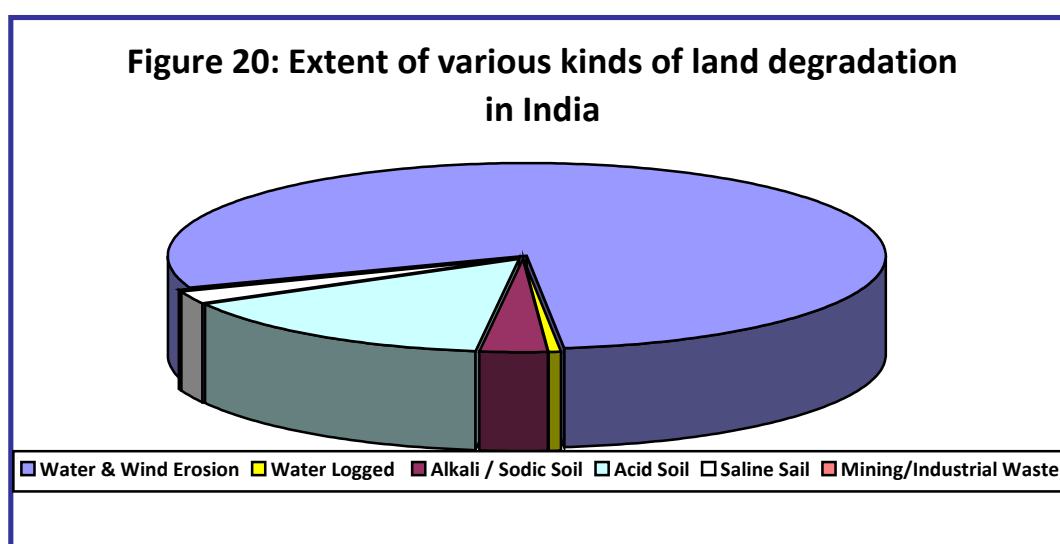


Chapter 5

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 Degradation¹⁰

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 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.

¹⁰ For further details please see website of Ministry of Agriculture (NRMD, DAC)

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.

Land degradation affects availability of land for agricultural use and fertility of soil and has ultimate bearing on productivity and consequently on production. Land affected by special problems, erosion and other problems, therefore, needs immediate treatment in the light of rapid population growth and increasing demand for food grain production which is important for food security. In view of importance and gravity of the problem, the Ministries of Agriculture and Rural Development have taken up a number of programmes for treatment of degraded lands through various Watershed Development Programmes. A total of 219.73 lakh ha of land is reported to have been treated up to March 2012 in the country involving an expenditure of Rs.12244.98 crores through the schemes under M/o Agriculture while 356.40 lakh ha of area in the country is reported to have been treated up to March 2012 with an investment of Rs 15723.02 crores through the schemes under Ministry of Rural Development.

Table T25: Progress of Watershed Development Programme upto XI Plan

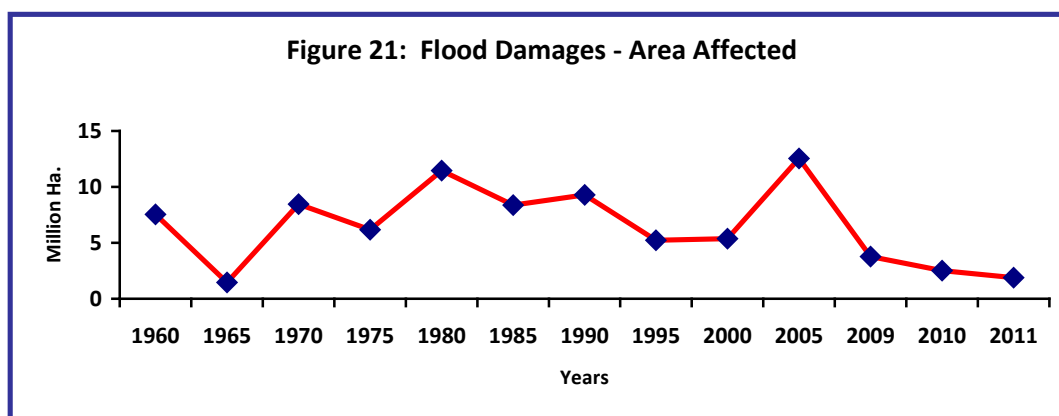
	Area Developed (Lakh ha)	Expenditure (Rs. Crores)
(A) Ministry of Agriculture	219.73	12244.98
(B) Ministry of Rural Development	356.40	15723.02
Total (A+B)	576.13	27968.00

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 1.90 Mha in 2011 with a peak of 17.5 Mha during 1978. At current prices, the damage to crops was in the wide range of Rs. 5.87 crore in 1965 and Rs. 5880.7 crore in 2010. The floods also caused damage to crops worth Rs 1393.85 crore in 2011. 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.19490 crore during 2010. Orissa and Uttar Pradesh were worst effected in terms of public utilities, as per the information available for the States for 2011 (up to 31.12.11).

Table T26: 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)
2011	1.90	15.97	1393.85	410.48	6053.57	36	1761	7857.89
Maximum (Year)	17.50 (1978)	70.45 (1978)	7307.23 (2003)	10809.80 (2009)	17509.35 (2009)	618 (1979)	11316 (1977)	32554.78 (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 crore during I Plan to Rs.4344 crore during X Plan and Rs 17,130 in XI plan. The central assistance in flood control work has risen from Rs. 453.7 crore in the IX plan to Rs.742.8 crore in X Plan and Rs 1194 crore in XI Plan.

Table T27: Expenditure under Flood Management Work (Rs. crores)			
	States & UT's	Centre	Total
I Plan	13.2	-	13.2
V Plan	242.5	56.1	298.6
X Plan	3601.4	742.8	4344.2
XI Plan	15936.7	1193.5	17130.2

Among the states the maximum expenditure for flood management during X Plan is for Uttar Pradesh followed by Bihar and West Bengal. As far as the area benefited upto 2011 due to flood management work is concerned, Punjab ranks first followed by Bihar and West Bengal.

Table T28: Expenditure on Flood Management Work for Selected States	
	(Rs. crores)
State	Expenditure (upto X Plan)
West Bengal	1639.5
Bihar	1518.9
Uttar Pradesh	1404.6
Andhra Pradesh	932.0
Punjab	829.4
Haryana	643.1

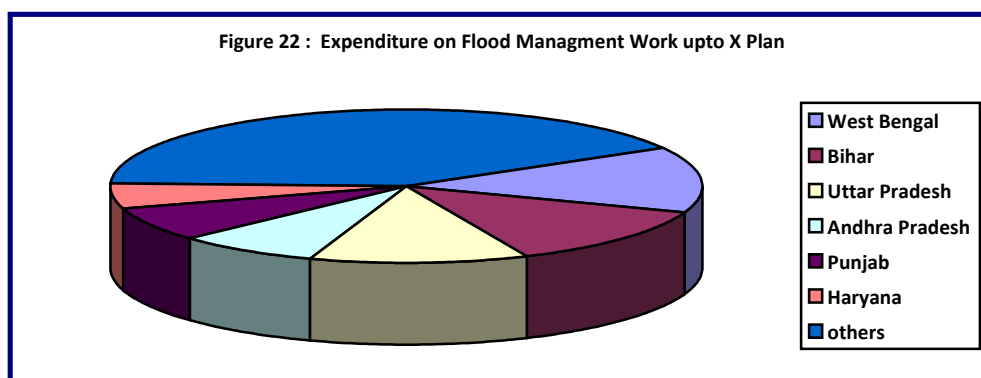


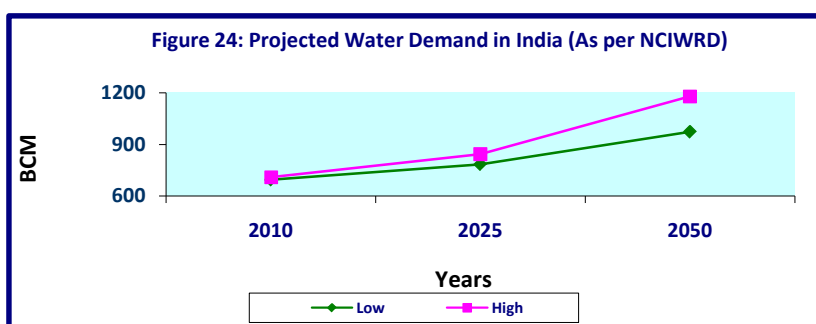
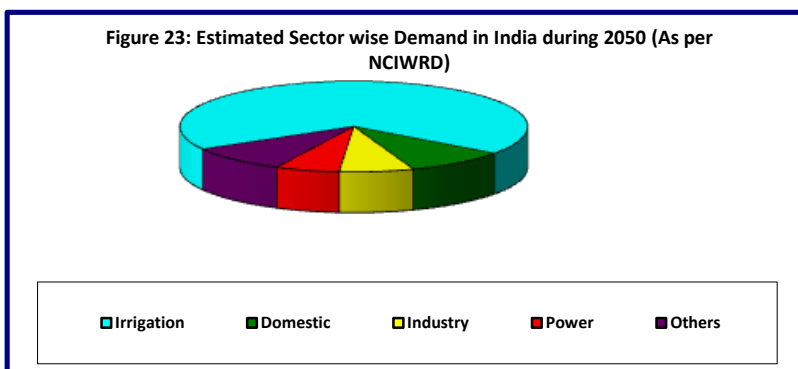
Table : T29 Flood Forecasting Performance

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

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 2010 (7378 accurate forecasts out of 7519 issued) has been very successful 98.12% of forecasts were correct within +/-15 cms or +/- 20% cumecs. Over the years, the percentage of forecasts accuracy has been maintained at 96 to 97% 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 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.



Different schemes and programmes are being implemented with the objective of providing access to safe drinking water in rural areas of the whole country. Data on status of coverage of rural habitations under the Rural Water Supply scheme as on April 2012 has been provided in Appendix.

Expenditure under Accelerated Rural Water Supply Programme¹¹ for supply of drinking water to rural areas during XI Plan was Rs.34636 crore out of which the maximum expenditure was by Rajasthan (Rs.4541 crore) followed by Uttar Pradesh (Rs 3587 crore) and Maharashtra (Rs.2869 crore).

-----XXX-----

¹¹ For further details see website of Ministry of Drinking Water and Sanitation

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-Brahmaputra-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 assesment of availability and requirement of water for diverse uses in the country, August 2000

Table 2: Basin Wise Storage in India as on 31.03.2013

Basin Code as per WRIS	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	
1	Indus	73.3	16.223	0.1002	16.323	22.3
2a	Ganga	525.0	48.677	7.649	56.326	10.7
2b	Brahmaputra	537.2	1.718	0.795	2.513	0.5
2c	Barak & Others	48.4	0.719	9.172	9.891	20.4
3	Godavari	110.5	35.033	8.412	43.444	39.3
4	Krishna	78.1	50.651	4.156	54.807	70.2
5	Cauvery	21.4	9.083	0.015	9.098	42.5
6	Subernarekha	12.4	0.309	2.150	2.459	19.8
7	Brahmani & Baitarni	28.5	5.515	0.703	6.218	21.8
8	Mahanadi	66.9	13.006	1.461	14.467	21.6
9	Pennar	6.3	2.938	2.141	5.079	80.6
10	Mahi	11.0	5.017	0.150	5.167	47.0
11	Sabarmati	3.8	1.577	0.109	1.686	44.4
12	Narmada	45.6	17.622	6.835	24.457	53.6
13	Tapi	14.9	9.137	1.558	10.695	71.8
14	WFR from Tapi to Tadri	87.4	14.668	2.430	17.098	19.6
15	WFR fom Tadri to Kanyakumari	113.5	11.023	1.416	12.439	11.0
16	EFR between Mahanandi and Pennar	22.5	2.676	1.181	3.857	17.1
17	EFR between Pennar and Kanyakumari	16.5	1.441	0.015	1.456	8.8
18	WFR of Saurashtra and Kutchh including Luni	15.1	6.336	0.511	6.847	45.3
19	Area of Inland Drainage of Rajasthan	-	0.000	0.000	0.000	
20	Minor River Draining into Myanmar and Bengladesh	31.0	0.019	0.000	0.019	0.1
20a	Area of North Ladakh not draining into Indus	0.00	0.000	0.000	0.000	
TOTAL in BCM		1869.4	253.388	50.959	304.348	16.3

Source : Central Water Commission (WM Directorate)

Table 3: Live Storage Capacity of Reservoirs in India as on 31.03.2013

Sl.No.	Name of State	TOTAL LIVE STORAGE CAPACITY (BCM)		
		Completed Projects	Under Construction Projects	Total
1	2	3	4	5
1	ANDHRA PRADESH	28.716	7.062	35.778
2	ASSAM	0.012	0.547	0.559
3	ARUNACHAL PRADESH	0.000	0.241	0.241
4	BIHAR	2.613	0.436	3.049
5	CHHATTISGARH	6.736	0.877	7.613
6	GOA	0.290	0.000	0.290
7	GUJARAT	18.359	8.175	26.534
8	HIMACHAL PRADESH	13.792	0.100	13.891
9	JAMMU AND KASHMIR	0.029	.000	0.029
10	JHARKHAND	2.436	6.039	8.475
11	KARNATAKA	31.896	0.736	32.632
12	KERALA	9.768	1.264	11.032
13	MADHYA PRADESH	33.075	1.695	34.770
14	MAHARASHTRA	37.358	10.736	48.094
15	MANIPUR	0.407	8.509	8.916
16	MEGHALAYA	0.479	0.007	0.486
17	MIZORAM	0.000	0.663	0.663
18	NAGALAND	1.220	0.000	1.220
19	ORISSA	23.934	0.896	24.830
20	PUNJAB	2.402	0.00002	2.402
21	RAJASTHAN	9.708	0.443	10.152
22	SIKKIM	0.007	0.000	0.007
23	TAMILNADU	7.859	0.013	7.872
24	TRIPURA	0.312	0.000	0.312
25	UTTARAKHAND	5.670	1.613	7.283
26	UTTAR PARDESH	14.263	0.724	14.987
27	WEST BENGAL	2.027	0.184	2.212
28	ANDAMAN & NICOBAR ISLAND	0.019	0.000	0.019
TOTAL in BCM		253.388	50.959	304.348

Source : 1. Central Water Commission (WM Directorate)

Note : BCM: BILLION CUBIC METRE

Table 4(A): Storage Position of Important Reservoirs of India at the end of each month during June 2010 to May 2011

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	June 2010			July 2010			August 2010		
				Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
1*	SRISAILAM	(AP)	8.288	246.28	1.34	89	256.73	3.085	106	269.7	8.262	144
2*	NAGARJUNA SAGAR	(AP)	6.841	158.8	1.75	117	158.56	1.701	92	175.69	5.667	166
3	SRIRAMSAGAR	(AP)	2.3	318.94	0.129	33	327.69	1.131	549	332.35	1.591	164
4	SOMASILA	(AP)	1.994	90.61	0.543	253	92.15	0.694	371	95.06	1.031	358
5	LOWER MANAIR	(AP)	0.621	266.84	0.062	43	267	0.064	44	278.71	0.551	233
6	TENUGHAT	(JHA)	0.821	257.01	0.225	90	258.62	0.285	96	259.95	0.339	106
7	MAITHON	(JHA)	0.471	136.54	0.062	38	138.31	0.134	49	143.42	0.291	74
8*	PANCHET HILL	(JHA)	0.184	120.8	0.03	47	122.81	0.09	76	122.62	0.083	49
9	KONAR	(JHA)	0.176	417.91	0.058	322	417.91	0.058	66	419.28	0.074	60
10	TILAIYA	(JHA)	0.142	364.11	0.012	50	364.33	0.016	28	364.62	0.021	26
11*	UKAI	(GUJ)	6.615	87.27	0.616	49	93.1	1.688	66	102.17	5.061	118
12	SABARMATI(DHAROI)	(GUJ)	0.735	176.59	0.013	14	179.3	0.079	42	184	0.281	97
13*	KADANA	(GUJ)	1.472	120.32	0.552	120	119.71	0.512	83	121.72	0.651	92
14	SHETRUNJI	(GUJ)	0.3	47.42	0.016	22	52.87	0.133	88	54.62	0.232	132
15	BHADAR	(GUJ)	0.188	100.22	0.01	25	105.12	0.09	107	107.81	0.185	175
16	DAMANGANGA	(GUJ)	0.502	66.45	0.086	75	70.1	0.166	97	75.2	0.315	96
17	DANTIWADA	(GUJ)	0.399	162.06	0	0	164.21	0.007	17	171.3	0.063	64
18	PANAM	(GUJ)	0.697	107.45	0.014	8	110.15	0.05	18	118.35	0.226	59
19*	GOBIND SAGAR(BHAKRA)	(HP)	6.229	464.09	0.805	48	491.35	3.069	99	511.06	5.799	124
20*	PONG DAM(BEAS)	(HP)	6.157	390.38	0.417	47	401.1	1.588	73	421.55	5.416	141
21	KRISHNARAJA SAGARA	(KAR)	1.163	739.92	0.115	57	744.63	0.387	56	748.83	0.742	78
22*	TUNGABHADRA	(KAR)	3.276	484.97	0.317	72	493.15	1.51	71	497.7	2.94	103

Contd...

Table 4(A): Storage Position of Important Reservoirs of India at the end of each month during June 2010 to May 2011

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	June 2010			July 2010			August 2010		
				Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
23	GHATAPRABHA(HIDKAL)	(KAR)	1.391	638.61	0.174	84	653.96	0.8	88	661.49	1.282	102
24	BHADRA	(KAR)	1.785	647.26	0.767	168	650.44	1.025	94	654.53	1.426	95
25	LINGANAMAKKI	(KAR)	4.294	535.51	0.595	74	543.77	1.775	80	547.49	2.682	81
26	NARAYANPUR	(KAR)	0.863	488	0.391	86	489.04	0.491	74	491.35	0.748	96
27	MALAPRABHA(RENUKA)	(KAR)	0.972	624.62	0.174	249	627.82	0.386	110	630.36	0.581	99
28	KABINI	(KAR)	0.275	691.47	0.034	31	695.43	0.232	103	695.08	0.214	94
29	HEMAVATHY	(KAR)	0.927	876.22	0.094	52	883.71	0.422	67	886.83	0.622	82
30	HARANGI	(KAR)	0.22	858.91	0.049	77	870.15	0.18	90	871.32	0.216	100
31	SUPA	(KAR)	4.12	520.74	0.626	88	533	1.307	86	542.19	1.923	79
32	VANI VILAS SAGAR	(KAR)	0.802	636.94	0.093	60	636.2	0.089	59	637.53	0.106	70
33*	ALMATTI	(KAR)	3.105	514	1.079	179	518.93	2.728	119	519.56	3.071	107
34*	GERUSOPPA	(KAR)	0.13	49.6	0.1	91	53.22	0.119	106	54.29	0.126	113
35	KALLADA(PARAPPAR)	(KRL)	0.507	98.42	0.17	108	107.75	0.318	128	111.02	0.403	124
36*	IDAMALAYAR	(KRL)	1.018	132.3	0.18	77	144.75	0.402	80	152.2	0.59	84
37*	IDUKKI	(KRL)	1.46	708.2	0.37	132	714.57	0.64	111	720.91	0.866	105
38*	KAKKI	(KRL)	0.447	951.3	0.118	110	965.89	0.234	109	972.05	0.305	102
39*	PERIYAR	(KRL)	0.173	860.76	0.051	78	862.81	0.087	93	961.83	0.069	77
40*	GANDHI SAGAR	(MP)	6.827	381.18	0.023	9	381.02	0	0	384.51	0.535	26
41	TAWA	(MP)	1.944	346.83	0.804	181	350.89	1.279	118	355.18	1.944	111
42*	BARGI	(MP)	3.18	404.25	0.134	56	410.45	0.729	64	418.75	2.115	91
43*	BANSAGAR	(MP)	5.166	324.35	0.148	166	327.59	0.653	165	330.75	1.345	126
44*	INDIRA SAGAR	(MP)	9.745	244.17	0.276	484	245.28	0.539	42	254.48	4.09	128

Contd...

Table 4(A): Storage Position of Important Reservoirs of India at the end of each month during June 2010 to May 2011

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	June 2010			July 2010			August 2010		
				Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
45*	MINIMATA BANGO	(CHH)	3.046	343.9	0.832	80	348.25	1.314	88	349.04	1.411	69
46	MAHANADI	(CHH)	0.767	339.94	0.15	41	342.22	0.272	53	347.92	0.693	114
47	JAYAKWADI(PAITHAN)	(MAH)	2.171	455.63	0.011	3	456.76	0.201	31	459.13	0.681	60
48*	KOYANA	(MAH)	2.652	634.95	0.808	95	649.53	1.865	96	657.07	2.553	101
49	BHIMA(UJJANI)	(MAH)	1.517	492.73	0.363	141	493.89	0.647	200	495.7	1.156	128
50	ISAPUR	(MAH)	0.965	424.51	-0.05	-20	435.05	0.454	129	440.61	0.927	172
51	MULA	(MAH)	0.609	536.14	0.04	73	541.93	0.182	66	547.3	0.371	85
52	YELDARI	(MAH)	0.809	445.57	-0.031	-41	452.68	0.16	129	461.61	0.793	274
53	GIRNA	(MAH)	0.524	383.74	0.035	70	384	0.04	30	387.3	0.119	47
54	KHADAKVASLA	(MAH)	0.056	578.51	0.011	73	582.47	0.056	193	581	0.037	95
55*	UPPER VAITARNA	(MAH)	0.331	593.57	0.069	64	597.93	0.163	75	601.58	0.269	91
56	UPPER TAPI	(MAH)	0.255	210.94	0.099	413	211.55	0.127	235	212.3	0.162	91
57*	PENCH(TOTLADOH)	(MAH)	1.091	467.5	0.054	68	473.3	0.193	60	484.7	0.879	150
58*	HIRAKUD	(ORI)	5.378	181.55	0.462	75	185.38	1.782	105	187.46	2.811	70
59*	BALIMELA	(ORI)	2.676	440.65	0.122	145	444.06	0.382	127	450.43	0.994	115
60	SALANADI	(ORI)	0.558	63.25	0.089	54	60.3	0.063	30	57.7	0.036	12
61*	RENGALI	(ORI)	3.432	109.81	0.016	6	111.01	0.201	18	113.98	0.74	32
62*	MACHKUND(JALAPUT)	(ORI)	0.893	817.96	-0.006	-2	825.85	0.175	48	831.89	0.442	79
63*	UPPER KOLAB	(ORI)	0.935	844.68	0.022	17	848.75	0.216	79	852.21	0.442	95
64*	UPPER INDRAVATI	(ORI)	1.456	625.43	0.029	11	629.2	0.281	47	633.78	0.646	59
65*	THEIN DAM	(PUN)	2.344	500.91	0.666	86	510.91	1.166	122	522.24	1.899	159
66*	MAHI BAJAJ SAGAR	(RAJ)	1.711	261	0.077	37	261.5	0.098	15	269.6	0.563	55

Contd...

Table 4(A): Storage Position of Important Reservoirs of India at the end of each month during June 2010 to May 2011

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	June 2010			July 2010			August 2010		
				Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
67	JHAKAM	(RAJ)	0.132	336.65	0.008	50	336.65	0.008	17	345.7	0.033	41
68*	RANA PRATAP SAGAR	(RAJ)	1.436	345.76	0.26	50	346.97	0.392	59	348.42	0.644	67
69	LOWER BHAWANI	(TN)	0.792	269.65	0.306	97	270.43	0.3	68	272.01	0.407	82
70*	METTUR(STANLEY)	(TN)	2.647	228.7	1.197	127	229.02	1.227	107	230.72	1.393	92
71	VAIGAI	(TN)	0.172	264.51	0.004	9	269.84	0.027	50	273.99	0.072	104
72	PARAMBIKULAM	(TN)	0.38	539.97	0.078	79	545.35	0.167	80	549.63	0.246	88
73	ALIYAR	(TN)	0.095	312.95	0.052	226	315.56	0.067	146	319.16	0.09	132
74*	SHOLAYAR	(TN)	0.143	972.85	0.03	63	990.33	0.086	83	994.62	0.104	85
75	GUMTI	(TRP)	0.312	88.6	0.111	88	89	0.117	69	90.1	0.162	81
76	MATATILA	(UP)	0.707	305.38	0.409	254	306.45	0.502	170	307.45	0.604	111
77*	RIHAND	(UP)	5.649	253.69	0.184	43	255.82	0.794	62	256.86	1.106	46
78*	RAMGANGA	(UKH)	2.196	319.4	0.053	23	332.56	0.431	88	352.99	1.343	148
79*	TEHRI	(UKH)	2.615	742.8	0.043	21	782.7	0.966	121	821.2	2.254	153
80	MAYURAKSHI	(WB)	0.48	111.12	0.074	68	112.59	0.108	45	112.53	0.107	44
81	KANGSABATI	(WB)	0.914	121.92	0.013	10	122.16	0.022	7	123.78	0.082	19
Total Storage			151.768	20.312			46.224			92.351		
Percentage				13			30			61		

Contd...

**Table 4(A): Storage Position of Important Reservoirs of India at the end of each month
During June 2010 to May 2011**

Sl. No	Name of Reservoirs	Location	Live Capacity at FRL in BCM	Sept-2010			Oct-2010			Nov-2010		
				Level (m)	Live Storage BCM	Percent - age of normal storage	Level (m)	Live Storage BCM	Percent - age of normal storage	Level (m)	Live Storage BCM	Percent - age of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
1*	SRISAILAM	(AP)	8.288	269.65	8.239	126	269.6	8.204	122	269.55	8.175	134
2*	NAGARJUNA SAGAR	(AP)	6.841	178.73	6.524	174	179.56	6.763	147	179.19	6.841	188
3	SRIRAMSAGAR	(AP)	2.3	332.54	1.684	119	332.54	2.3	175	332.54	2.3	265
4	SOMASILA	(AP)	1.994	97.26	1.352	257	97.48	1.387	150	99.9	1.854	190
5	LOWER MANAIR	(AP)	0.621	280.42	0.621	209	280.42	0.621	188	280.42	0.621	176
6	TENUGHAT	(JHA)	0.821	259.89	0.337	103	260.24	0.354	108	259.7	0.329	101
7	MAITHON	(JHA)	0.471	146.64	0.459	99	145.67	0.404	88	145.08	0.373	81
8*	PANCHET HILL	(JHA)	0.184	125.83	0.184	105	122.98	0.097	56	123.26	0.107	60
9	KONAR	(JHA)	0.176	420.35	0.088	56	420.02	0.084	54	419.65	0.078	55
10	TILAIYA	(JHA)	0.142	364.83	0.026	23	364.97	0.028	25	364.88	0.027	28
11*	UKAI	(GUJ)	6.615	103.59	5.814	114	103.05	5.529	115	102.88	5.438	124
12	SABARMATI(DHAROI)	(GUJ)	0.735	186.68	0.467	136	186.49	0.452	137	186.08	0.421	149
13*	KADANA	(GUJ)	1.472	125.71	0.989	115	123.01	0.755	93	123.14	0.765	96
14	SHETRUNJI	(GUJ)	0.3	55.53	0.3	162	55.53	0.3	169	57.42	0.291	181
15	BHADAR	(GUJ)	0.188	107.9	0.188	158	107.77	0.184	161	107.59	0.175	184
16	DAMANGANGA	(GUJ)	0.502	79.65	0.493	109	79.9	0.502	105	79.9	0.502	111
17	DANTIWADA	(GUJ)	0.399	173.23	0.093	84	172.44	0.08	79	170.81	0.057	73
18	PANAM	(GUJ)	0.697	123.6	0.448	109	123.05	0.42	107	122.8	0.407	110
19*	GOBIND SAGAR(BHAKRA)	(HP)	6.229	512.27	5.992	119	511.78	5.913	127	509.29	5.524	136
20*	PONG DAM(BEAS)	(HP)	6.157	424.59	6.15	145	423.1	5.78	154	420.23	5.102	163
21	KRISHNARAJA SAGARA	(KAR)	1.163	751.14	0.994	110	752.44	1.155	124	752.5	1.163	146
22*	TUNGABHADRA	(KAR)	3.276	497.74	2.955	107	797.57	2.893	111	497.74	2.955	142

Contd...

**Table 4(A): Storage Position of Important Reservoirs of India at the end of each month
During June 2010 to May 2011**

Sl. No	Name of Reservoirs	Location	Live Capacity at FRL in BCM	Sept-2010			Oct-2010			Nov-2010		
				Level (m)	Live Storage BCM	Percent - age of normal storage	Level (m)	Live Storage BCM	Percent - age of normal storage	Level (m)	Live Storage BCM	Percent - age of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
23	GHATAPRABHA(HIDKAL)	(KAR)	1.391	662.95	1.387	110	662.95	1.387	116	661.87	1.316	142
24	BHADRA	(KAR)	1.785	657.27	1.729	117	657.58	1.764	124	657.58	1.77	133
25	LINGANAMAKKI	(KAR)	4.294	552	3.572	104	552.61	3.749	113	552.96	3.846	128
26	NARAYANPUR	(KAR)	0.863	491.72	0.795	103	491.92	0.822	109	491.55	0.773	99
27	MALAPRABHA(RENUKA)	(KAR)	0.972	631.82	0.729	117	631.9	0.738	118	632.1	0.76	156
28	KABINI	(KAR)	0.275	694.18	0.165	82	693.06	0.108	53	694.3	0.171	130
29	HEMAVATHY	(KAR)	0.927	888.8	0.769	110	888.49	0.745	118	890.47	0.913	202
30	HARANGI	(KAR)	0.22	871.2	0.212	113	869.36	0.161	119	868.91	0.151	256
31	SUPA	(KAR)	4.12	547.86	2.305	88	548.39	2.442	95	548.28	2.431	103
32	VANI VILAS SAGAR	(KAR)	0.802	639.15	0.145	83	641.79	0.221	97	647.77	0.427	187
33*	ALMATTI	(KAR)	3.105	519.6	3.051	102	519.6	3.051	106	519.6	3.051	129
34*	GERUSOPPA	(KAR)	0.13	51.04	0.107	92	51	0.107	90	50.69	0.106	91
35	KALLADA(PARAPPAR)	(KRL)	0.507	112.63	0.415	113	115.81	0.488	118	116.08	0.493	118
36*	IDAMALAYAR	(KRL)	1.018	157.56	0.694	92	161.64	0.807	106	162.76	0.838	116
37*	IDUKKI	(KRL)	1.46	724.44	1.03	111	727.87	1.209	123	729.62	1.304	133
38*	KAKKI	(KRL)	0.447	974.22	0.333	102	976.35	0.362	103	978.63	0.397	111
39*	PERIYAR	(KRL)	0.173	861.31	0.061	73	861.47	0.063	62	865.52	0.14	124
40*	GANDHI SAGAR	(MP)	6.827	386.8	1.032	47	386.51	0.959	47	384.37	0.509	32
41	TAWA	(MP)	1.944	355.4	1.944	108	355.09	1.944	109	353.84	1.746	117
42*	BARGI	(MP)	3.18	422.7	3.175	115	422.15	3.045	118	421.5	2.87	133
43*	BANSAGAR	(MP)	5.166	334.02	2.217	177	332.8	1.861	186	332.28	1.709	213
44*	INDIRA SAGAR	(MP)	9.745	259.65	7.548	177	259.11	7.118	182	258.46	6.624	213

Contd...

**Table 4(A): Storage Position of Important Reservoirs of India at the end of each month
During June 2010 to May 2011**

Sl. No	Name of Reservoirs	Location	Live Capacity at FRL in BCM	Sept-2010			Oct-2010			Nov-2010		
				Level (m)	Live Storage BCM	Percent - age of normal storage	Level (m)	Live Storage BCM	Percent - age of normal storage	Level (m)	Live Storage BCM	Percent - age of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
45*	MINIMATA BANGO	(CHH)	3.046	351.68	1.73	79	348.88	1.393	66	348.54	1.352	72
46	MAHANADI	(CHH)	0.767	348.49	0.747	131	348.7	0.767	157	348.71	0.767	155
47	JAYAKWADI(PAITHAN)	(MAH)	2.171	461.2	1.238	92	461.39	1.295	95	461.89	1.448	118
48*	KOYANA	(MAH)	2.652	659.44	2.652	103	659.33	2.652	107	659.18	2.652	117
49	BHIMA(UJJANI)	(MAH)	1.517	496.83	1.517	152	496.83	1.517	142	496.83	1.517	153
50	ISAPUR	(MAH)	0.965	440.99	0.963	162	441	0.964	156	441	0.964	168
51	MULA	(MAH)	0.609	551.03	0.543	112	551.66	0.575	115	552.3	0.609	131
52	YELDARI	(MAH)	0.809	461.77	0.809	206	461.77	0.809	184	461.77	0.809	207
53	GIRNA	(MAH)	0.524	388.86	0.163	52	389.15	0.171	54	389.4	0.178	62
54	KHADAKVASLA	(MAH)	0.056	581.13	0.038	97	579.52	0.02	71	579.7	0.022	79
55*	UPPER VAITARNA	(MAH)	0.331	603.5	0.331	107	603.5	0.331	107	603.5	0.331	110
56	UPPER TAPI	(MAH)	0.255	213.99	0.254	109	214	0.255	101	214	0.255	105
57*	PENCH(TOTLADOH)	(MAH)	1.091	489.6	1.017	151	488.13	0.911	161	487.39	0.861	191
58*	HIRAKUD	(ORI)	5.378	192.02	5.377	111	191.61	5.149	109	191.87	5.292	120
59*	BALIMELA	(ORI)	2.676	458.14	1.985	169	458.73	2.066	153	459.94	2.272	175
60	SALANADI	(ORI)	0.558	65.68	0.126	33	62.39	0.078	24	60.05	0.058	18
61*	RENGALI	(ORI)	3.432	118.21	1.726	59	118.57	1.832	65	118.52	1.835	79
62*	MACHKUND(JALAPUT)	(ORI)	0.893	836.52	0.758	110	836.8	0.769	106	837.85	0.861	130
63*	UPPER KOLAB	(ORI)	0.935	855.61	0.709	124	855.88	0.734	124	856.09	0.755	137
64*	UPPER INDRAVATI	(ORI)	1.456	638.45	1.082	87	639.42	1.177	99	639.4	1.175	108
65*	THEIN DAM	(PUN)	2.344	524	2.039	166	521.23	1.818	166	518.86	1.651	171
66*	MAHI BAJAJ SAGAR	(RAJ)	1.711	274.35	0.986	84	274.15	0.965	83	272.3	0.796	78

Contd...

**Table 4(A): Storage Position of Important Reservoirs of India at the end of each month
During June 2010 to May 2011**

Sl. No	Name of Reservoirs	Location	Live Capacity at FRL in BCM	Sept-2010			Oct-2010			Nov-2010		
				Level (m)	Live Storage BCM	Percent - age of normal storage	Level (m)	Live Storage BCM	Percent - age of normal storage	Level (m)	Live Storage BCM	Percent - age of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
67	JHAKAM	(RAJ)	0.132	351.35	0.063	70	351.5	0.065	72	348.45	0.046	64
68*	RANA PRATAP SAGAR	(RAJ)	1.436	349.02	0.756	79	349.29	0.789	87	349.12	0.762	112
69	LOWER BHAWANI	(TN)	0.792	269.99	0.32	71	268.57	0.267	56	274.02	0.563	104
70*	METTUR(STANLEY)	(TN)	2.647	226.93	1.039	69	224.07	0.811	51	240.34	2.58	159
71	VAIGAI	(TN)	0.172	276.73	0.118	182	273.83	0.07	67	278.86	0.164	134
72	PARAMBIKULAM	(TN)	0.38	550.34	0.259	88	552.16	0.295	98	555	0.353	119
73	ALIYAR	(TN)	0.095	319.84 1000.1	0.094	157	319.95 1000.6	0.095	158	319.95 1001.0	0.095	153
74*	SHOLAYAR	(TN)	0.143	8	0.13	107	2	0.132	120	5	0.134	135
75	GUMTI	(TRP)	0.312	90.35	0.172	79	91.2	0.207	98	90.48	0.178	98
76	MATATILA	(UP)	0.707	308.27	0.688	103	306.64	0.521	82	304.71	0.349	67
77*	RIHAND	(UP)	5.649	258.17	1.551	48	257.92	1.468	48	257.68	1.386	51
78*	RAMGANGA	(UKH)	2.196	364.23	2.114	173	365.43	2.196	169	365.39	2.196	169
79*	TEHRI	(UKH)	2.615	823.6	2.367	128	819.77	2.197	119	818.3	2.152	124
80	MAYURAKSHI	(WB)	0.48	114.99	0.179	51	112.64	0.109	35	112.59	0.108	37
81	KANGSABATI	(WB)	0.914	125.38	0.149	26	124.13	0.095	21	124.16	0.097	21
Total Storage			151.768	114.601			112.921			113.473		
Percentage				76			74			75		

Contd...

**Table 4(A): Storage Position of Important Reservoirs of India at the end of each month
During June 2010 to May 2011**

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	Dec-2010			Jan-2011			Feb-2011		
				Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
1*	SRISAILAM	(AP)	8.288	268.8	7.735	141	267.15	6.826	144	264.45	5.57	155
2*	NAGARJUNA SAGAR	(AP)	6.841	178.25	6.386	227	174.56	5.354	267	170.11	4.227	250
3	SRIRAMSAGAR	(AP)	2.300	332.08	2.3	391	330.71	1.892	901	329.24	1.5	1744
4	SOMASILA	(AP)	1.994	99.59	1.789	193	99.55	1.781	226	99.41	1.753	271
5	LOWER MANAIR	(AP)	0.621	279.94	0.621	166	278.13	0.511	158	275.6	0.354	136
6	TENUGHAT	(JHA)	0.821	259.25	0.309	98	258.58	0.283	95	257.86	0.255	91
7	MAITHON	(JHA)	0.471	144.18	0.327	72	142.52	0.253	59	141.59	0.21	53
8*	PANCHET HILL	(JHA)	0.184	123.07	0.1	55	122.48	0.078	43	120.83	0.031	22
9	KONAR	(JHA)	0.176	419.19	0.073	57	418.55	0.065	57	418	0.06	58
10	TILAIYA	(JHA)	0.142	364.87	0.026	40	364.76	0.024	57	364.66	0.023	82
11*	UKAI	(GUJ)	6.615	102.14	5.045	127	101.19	4.586	131	100.24	4.143	138
12	SABARMATI(DHAROI)	(GUJ)	0.735	185.13	0.353	152	183.94	0.277	146	182.24	0.188	125
13*	KADANA	(GUJ)	1.472	122.53	0.715	92	121.64	0.645	87	119.91	0.525	75
14	SHETRUNJI	(GUJ)	0.300	55.32	0.283	195	54.92	0.253	222	54.27	0.208	234
15	BHADAR	(GUJ)	0.188	106.88	0.145	216	105.96	0.115	250	105	0.086	269
16	DAMANGANGA	(GUJ)	0.502	79.2	0.472	113	77.87	0.417	114	76.15	0.349	105
17	DANTIWADA	(GUJ)	0.399	168.13	0.029	53	163.36	0.004	11	163.25	0.004	14
18	PANAM	(GUJ)	0.697	122.05	0.368	107	121.2	0.332	107	120.25	0.293	102
19*	GOBIND SAGAR(BHAKRA)	(HP)	6.229	503.88	4.705	145	499.26	4.051	167	494.17	3.392	193
20*	PONG DAM(BEAS)	(HP)	6.157	417	4.39	171	414.95	3.958	182	411.77	3.337	180
21	KRISHNARAJA SAGARA	(KAR)	1.163	751.83	1.078	154	750.67	0.94	170	748.9	0.747	190
22*	TUNGABHADRA	(KAR)	3.276	497.74	2.955	194	494.3	1.804	187	491.53	1.159	206

Contd...

**Table 4(A): Storage Position of Important Reservoirs of India at the end of each month
During June 2010 to May 2011**

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	Dec-2010			Jan-2011			Feb-2011		
				Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
23	GHATAPRABHA(HIDKAL)	(KAR)	1.391	657.49	1.007	160	652.94	0.742	202	648.29	0.519	260
24	BHADRA	(KAR)	1.785	657.75	1.785	135	656.45	1.635	140	654.24	1.395	147
25	LINGANAMAKKI	(KAR)	4.294	551.82	3.52	133	549.92	3.03	137	547.75	2.517	139
26	NARAYANPUR	(KAR)	0.863	491.34	0.747	95	490.87	0.691	93	491.01	0.708	109
27	MALAPRABHA(RENUKA)	(KAR)	0.972	630.58	0.592	191	628.12	0.391	209	626.7	0.291	294
28	KABINI	(KAR)	0.275	694.38	0.175	154	694.58	0.185	146	693.78	0.146	166
29	HEMAVATHY	(KAR)	0.927	888.85	0.774	289	888.61	0.755	315	887.09	0.642	310
30	HARANGI	(KAR)	0.220	864.35	0.084	420	865.13	0.092	354	865.41	0.095	380
31	SUPA	(KAR)	4.120	545.87	2.22	107	542.8	1.97	108	539.1	1.696	110
32	VANI VILAS SAGAR	(KAR)	0.802	647.03	0.442	200	646.88	0.433	210	646.3	0.399	218
33*	ALMATTI	(KAR)	3.105	518.51	2.54	143	517.57	2.151	178	514.15	1.114	153
34*	GERUSOPPA	(KAR)	0.130	46.18	0.083	73	50.63	0.105	98	51.3	0.109	101
35	KALLADA(PARAPPAR)	(KRL)	0.507	113.91	0.445	112	113.68	0.439	124	111.08	0.373	127
36*	IDAMALAYAR	(KRL)	1.018	157.3	0.687	107	153.8	0.604	110	147.88	0.468	104
37*	IDUKKI	(KRL)	1.460	729.16	1.279	144	726.19	1.117	146	722.39	0.936	150
38*	KAKKI	(KRL)	0.447	978.02	0.387	119	975.65	0.353	125	973.14	0.319	130
39*	PERIYAR	(KRL)	0.173	865.37	0.137	159	863.78	0.105	194	862.07	0.073	197
40*	GANDHI SAGAR	(MP)	6.827	382.76	0.243	20	382.24	0.163	18	381.13	0.015	2
41	TAWA	(MP)	1.944	351.65	1.396	122	348.63	0.997	131	344.94	0.642	128
42*	BARGI	(MP)	3.180	420.05	2.464	145	418.4	2.038	154	416.15	1.57	149
43*	BANSAGAR	(MP)	5.166	331.65	1.557	229	330.38	1.256	249	329.28	0.996	242
44*	INDIRA SAGAR	(MP)	9.745	256.76	5.445	227	255	4.333	255	253.41	3.532	257

Contd...

**Table 4(A): Storage Position of Important Reservoirs of India at the end of each month
During June 2010 to May 2011**

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	Dec-2010			Jan-2011			Feb-2011		
				Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
45*	MINIMATA BANGO	(CHH)	3.046	348.37	1.331	75	347.93	1.279	77	347.62	1.245	81
46	MAHANADI	(CHH)	0.767	348.68	0.765	153	347.62	0.664	140	346.18	0.547	121
47	JAYAKWADI(PAITHAN)	(MAH)	2.171	461.6	1.358	125	461.14	1.222	132	460.55	1.047	132
48*	KOYANA	(MAH)	2.652	658.22	2.652	129	655.22	2.336	127	651.33	2.014	123
49	BHIMA(UJJANI)	(MAH)	1.517	496.83	1.517	178	496.5	1.407	204	495.54	1.106	214
50	ISAPUR	(MAH)	0.965	440.32	0.9	178	439.53	0.828	186	438.63	0.732	193
51	MULA	(MAH)	0.609	552.07	0.597	154	550.33	0.508	162	549.68	0.476	193
52	YELDARI	(MAH)	0.809	461.53	0.785	234	460.62	0.693	259	459.54	0.592	279
53	GIRNA	(MAH)	0.524	389.38	0.179	76	388.81	0.161	86	388	0.139	95
54	KHADAKVASLA	(MAH)	0.056	579.33	0.018	90	579.94	0.025	167	578.05	0.007	47
55*	UPPER VAITARNA	(MAH)	0.331	602.85	0.31	108	601.98	0.283	112	601.32	0.262	128
56	UPPER TAPI	(MAH)	0.255	213.74	0.239	112	213.26	0.212	116	212.59	0.176	114
57*	PENCH(TOTLADOH)	(MAH)	1.091	486.72	0.817	227	484.79	0.697	197	483.64	0.63	261
58*	HIRAKUD	(ORI)	5.378	191.69	5.186	127	190.65	4.596	131	189.22	3.786	123
59*	BALIMELA	(ORI)	2.676	460.13	2.304	197	458.14	1.987	204	455.8	1.666	211
60	SALANADI	(ORI)	0.558	59.44	0.053	18	57.75	0.037	15	54.48	0.016	7
61*	RENGALI	(ORI)	3.432	118.35	1.785	78	117.77	1.628	86	116.7	1.363	81
62*	MACHKUND(JALAPUT)	(ORI)	0.893	838.05	0.778	122	837.36	0.815	148	836.89	0.773	166
63*	UPPER KOLAB	(ORI)	0.935	856.07	0.753	147	855.41	0.69	153	854.1	0.584	149
64*	UPPER INDRAVATI	(ORI)	1.456	638.87	1.123	113	637.65	1.004	120	636.4	0.882	127
65*	THEIN DAM	(PUN)	2.344	513.62	1.332	173	506.73	0.951	175	504.39	0.836	167
66*	MAHI BAJAJ SAGAR	(RAJ)	1.711	269.2	0.531	66	265.8	0.315	50	263.1	0.169	36

Contd...

**Table 4(A): Storage Position of Important Reservoirs of India at the end of each month
During June 2010 to May 2011**

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	Dec-2010			Jan-2011			Feb-2011		
				Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
67	JHAKAM	(RAJ)	0.132	346	0.035	65	342.65	0.022	61	337.2	0.009	43
68*	RANA PRATAP SAGAR	(RAJ)	1.436	348.83	0.712	108	345.86	0.274	49	345.45	0.215	40
69	LOWER BHAWANI	(TN)	0.792	274.7	0.544	112	273.47	0.478	124	272.09	0.41	125
70*	METTUR(STANLEY)	(TN)	2.647	240.63	2.623	176	237.62	2.203	212	237.27	2.158	217
71	VAIGAI	(TN)	0.172	278.59	0.158	186	276.47	0.113	209	274.55	0.08	167
72	PARAMBIKULAM	(TN)	0.380	555.07	0.354	131	554.28	0.338	153	551.42	0.281	161
73	ALIYAR	(TN)	0.095	319.66	0.093	190	315.7	0.068	213	315.46	0.066	264
74*	SHOLAYAR	(TN)	0.143	993.63	0.099	162	965.71	0.016	67	963.68	0.012	100
75	GUMTI	(TRP)	0.312	89.64	0.146	96	88.55	0.109	90	87.25	0.07	72
76	MATATILA	(UP)	0.707	303.12	0.243	63	302.97	0.235	71	301.05	0.137	49
77*	RIHAND	(UP)	5.649	257.25	1.241	54	256.61	1.025	53	255.91	0.82	51
78*	RAMGANGA	(UKH)	2.196	364.02	2.099	196	359.38	1.755	189	355.44	1.484	195
79*	TEHRI	(UKH)	2.615	817.15	2.133	142	819.6	2.19	194	809.15	1.82	233
80	MAYURAKSHI	(WB)	0.480	112.55	0.107	36	112.4	0.103	37	112.14	0.098	45
81	KANGSABATI	(WB)	0.914	124.27	0.101	27	124.3	0.102	37	124.3	0.102	52
Total Storage			151.768		104.214		89.403		73.779			
Percentage					69		59		49			

Contd...

**Table 4(A): Storage Position of Important Reservoirs of India at the end of each month
During June 2010 to May 2011**

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	March-2011			April-2011			May-2011		
				Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
1*	SRISAILAM	(AP)	8.288	256.63	3.062	134	247.85	1.564	107	246.75	1.427	117
2*	NAGARJUNA SAGAR	(AP)	6.841	170.20	4.248	309	168.62	3.870	288	168.89	3.934	278
3	SRIRAMSAGAR	(AP)	2.300	326.59	0.928	239	323.85	0.471	86	323.42	0.419	73
4	SOMASILA	(AP)	1.994	99.02	1.672	309	98.40	1.559	346	97.21	1.345	444
5	LOWER MANAIR	(AP)	0.621	273.89	0.272	154	271.59	0.181	130	271.32	0.171	133
6	TENUGHAT	(JHA)	0.821	257.01	0.224	86	256.26	0.199	86	255.36	0.171	63
7	MAITHON	(JHA)	0.471	139.83	0.151	47	138.21	0.101	54	136.58	0.063	48
8*	PANCHET HILL	(JHA)	0.184	120.82	0.031	37	120.86	0.032	145	120.98	0.035	184
9	KONAR	(JHA)	0.176	417.15	0.050	58	416.51	0.043	62	415.69	0.035	76
10	TILAIYA	(JHA)	0.142	364.46	0.019	136	364.33	0.016	145	364.13	0.012	150
11*	UKAI	(GUJ)	6.615	98.70	3.482	140	96.99	2.820	154	95.05	2.137	176
12	SABARMATI(DHAROI)	(GUJ)	0.735	180.72	0.120	95	180.34	0.106	102	179.87	0.090	101
13*	KADANA	(GUJ)	1.472	119.03	0.469	72	118.04	0.411	69	116.38	0.324	62
14	SHETRUNJI	(GUJ)	0.300	52.57	0.122	230	50.27	0.056	311	48.47	0.028	350
15	BHADAR	(GUJ)	0.188	104.33	0.070	269	103.94	0.061	277	103.33	0.070	368
16	DAMANGANGA	(GUJ)	0.502	74.65	0.298	102	71.75	0.209	86	64.15	0.043	36
17	DANTIWADA	(GUJ)	0.399	163.02	0.003	15	162.82	0.002	20	162.40	0.001	50
18	PANAM	(GUJ)	0.697	119.35	0.260	104	119.10	0.251	129	118.85	0.242	160
19*	GOBIND SAGAR(BHAKRA)	(HP)	6.229	487.53	2.529	220	482.98	2.174	233	479.73	1.880	174
20*	PONG DAM(BEAS)	(HP)	6.157	410.10	3.034	194	411.07	3.207	220	411.49	3.284	322
21	KRISHNARAJA SAGARA	(KAR)	1.163	746.77	0.552	232	745.82	0.475	332	742.48	0.248	359
22*	TUNGABHADRA	(KAR)	3.276	487.58	0.558	347	481.89	0.142	182	482.25	0.158	168

Contd...

**Table 4(A): Storage Position of Important Reservoirs of India at the end of each month
During June 2010 to May 2011**

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	March-2011			April-2011			May-2011		
				Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
23	GHATAPRABHA(HIDKAL)	(KAR)	1.391	641.97	0.277	220	640.72	0.236	315	636.92	0.131	468
24	BHADRA	(KAR)	1.785	651.59	1.133	161	648.31	0.848	186	644.58	0.576	202
25	LINGANAMAKKI	(KAR)	4.294	544.59	1.890	141	541.54	1.397	153	536.65	0.803	146
26	NARAYANPUR	(KAR)	0.863	488.53	0.440	88	487.02	0.305	92	486.63	0.268	85
27	MALAPRABHA(RENUKA)	(KAR)	0.972	622.94	0.104	151	622.63	0.092	170	622.37	0.083	189
28	KABINI	(KAR)	0.275	691.72	0.045	115	690.83	0.007	64	689.11	0.000	0
29	HEMAVATHY	(KAR)	0.927	883.05	0.388	273	878.49	0.175	211	874.52	0.053	126
30	HARANGI	(KAR)	0.220	865.37	0.094	427	864.54	0.086	430	864.51	0.086	453
31	SUPA	(KAR)	4.120	534.21	1.358	112	529.05	1.039	111	524.28	0.784	114
32	VANI VILAS SAGAR	(KAR)	0.802	646.12	0.389	232	645.20	0.351	225	644.99	0.342	239
33*	ALMATTI	(KAR)	3.105	511.64	0.622	240	509.62	0.315	254	509.24	0.268	288
34*	GERUSOPPA	(KAR)	0.130	52.32	0.114	102	52.04	0.113	95	53.93	0.123	111
35	KALLADA(PARAPPAR)	(KRL)	0.507	104.50	0.255	120	98.02	0.163	107	90.60	0.085	71
36*	IDAMALAYAR	(KRL)	1.018	140.60	0.321	96	132.94	0.189	79	123.99	0.076	50
37*	IDUKKI	(KRL)	1.460	717.18	0.706	149	713.06	0.541	163	706.47	0.314	145
38*	KAKKI	(KRL)	0.447	966.52	0.240	127	958.90	0.173	125	946.19	0.091	100
39*	PERIYAR	(KRL)	0.173	861.07	0.060	150	861.99	0.072	147	862.05	0.073	140
40*	GANDHI SAGAR	(MP)	6.827	381.15	0.018	4	380.49	-0.049	-13	380.17	0.000	0
41	TAWA	(MP)	1.944	342.93	0.471	116	342.81	0.461	116	342.60	0.442	114
42*	BARGI	(MP)	3.180	414.40	1.254	155	411.95	0.914	169	409.10	0.583	191
43*	BANSAGAR	(MP)	5.166	328.54	0.843	248	327.74	0.682	341	326.50	0.434	368
44*	INDIRA SAGAR	(MP)	9.745	251.40	2.606	242	249.88	1.998	270	247.56	1.201	270

Contd...

**Table 4(A): Storage Position of Important Reservoirs of India at the end of each month
During June 2010 to May 2011**

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	March-2011			April-2011			May-2011		
				Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
45*	MINIMATA BANGO	(CHH)	3.046	347.34	1.215	87	346.94	1.173	96	346.26	1.124	106
46	MAHANADI	(CHH)	0.767	343.00	0.320	75	340.61	0.183	49	339.08	0.109	33
47	JAYAKWADI(PAITHAN)	(MAH)	2.171	459.87	0.862	132	459.08	0.668	138	458.19	0.473	146
48*	KOYANA	(MAH)	2.652	647.07	1.662	122	641.38	1.198	117	634.77	0.799	110
49	BHIMA(UJJANI)	(MAH)	1.517	494.84	0.902	335	493.40	0.523	1687	491.96	0.192	93
50	ISAPUR	(MAH)	0.965	437.57	0.638	197	436.55	0.559	222	435.83	0.506	291
51	MULA	(MAH)	0.609	546.63	0.345	174	544.92	0.281	228	541.07	0.156	390
52	YELDARI	(MAH)	0.809	457.96	0.460	295	456.82	0.378	525	455.44	0.290	853
53	GIRNA	(MAH)	0.524	387.69	0.130	114	386.77	0.105	119	385.68	0.079	127
54	KHADAKVASLA	(MAH)	0.056	578.57	0.011	100	578.08	0.007	88	579.21	0.017	213
55*	UPPER VAITARNA	(MAH)	0.331	599.50	0.207	128	597.30	0.148	125	597.07	0.142	173
56	UPPER TAPI	(MAH)	0.255	211.69	0.132	109	211.06	0.105	131	209.70	0.035	106
57*	PENCH(TOTLADOH)	(MAH)	1.091	482.38	0.561	319	481.37	0.510	421	480.27	0.457	502
58*	HIRAKUD	(ORI)	5.378	187.93	3.068	140	185.76	1.943	134	183.34	0.990	146
59*	BALIMELA	(ORI)	2.676	453.12	1.319	271	450.13	0.961	255	447.81	0.720	661
60	SALANADI	(ORI)	0.558	53.34	0.011	7	52.86	0.009	6	52.65	0.009	7
61*	RENGALI	(ORI)	3.432	115.82	1.162	93	114.42	0.843	104	110.80	0.164	62
62*	MACHKUND(JALAPUT)	(ORI)	0.893	836.07	0.714	192	835.33	0.661	223	834.56	0.604	277
63*	UPPER KOLAB	(ORI)	0.935	852.80	0.486	161	851.24	0.370	180	849.05	0.231	188
64*	UPPER INDRAVATI	(ORI)	1.456	634.57	0.711	142	632.11	0.508	161	630.14	0.346	206
65*	THEIN DAM	(PUN)	2.344	504.29	0.832	140	508.96	2.344	282	511.64	1.184	128
66*	MAHI BAJAJ SAGAR	(RAJ)	1.711	260.50	0.060	17	260.35	0.053	19	260.15	0.043	20

Contd...

**Table 4(A): Storage Position of Important Reservoirs of India at the end of each month
During June 2010 to May 2011**

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	March-2011			April-2011			May-2011		
				Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
67	JHAKAM	(RAJ)	0.132	336.95	0.008	47	336.60	0.008	47	336.25	0.007	47
68*	RANA PRATAP SAGAR	(RAJ)	1.436	345.22	0.180	34	345.03	0.154	29	345.00	0.148	30
69	LOWER BHAWANI	(TN)	0.792	271.15	0.368	126	269.67	0.307	131	268.80	0.275	107
70*	METTUR(STANLEY)	(TN)	2.647	237.14	2.140	220	238.36	2.288	236	239.43	2.449	245
71	VAIGAI	(TN)	0.172	274.43	0.079	158	273.88	0.071	145	273.18	0.061	136
72	PARAMBIKULAM	(TN)	0.380	551.94	0.291	233	551.62	0.284	334	551.25	0.278	397
73	ALIYAR	(TN)	0.095	315.88	0.069	276	316.25	0.071	237	313.81	0.057	204
74*	SHOLAYAR	(TN)	0.143	955.12	0.001	14	961.21	0.008	133	964.82	0.014	127
75	GUMTI	(TRP)	0.312	85.55	0.028	42	84.31	0.009	18	84.90	0.017	31
76	MATATILA	(UP)	0.707	301.52	0.266	88	303.46	0.263	91	301.57	0.158	89
77*	RIHAND	(UP)	5.649	255.30	0.643	53	254.66	0.460	54	254.18	0.322	63
78*	RAMGANGA	(UKH)	2.196	349.32	1.142	202	346.72	1.010	227	343.66	0.866	342
79*	TEHRI	(UKH)	2.615	793.45	1.314	324	771.75	0.677	464	743.60	0.059	72
80	MAYURAKSHI	(WB)	0.480	111.77	0.088	62	111.60	0.074	117	111.18	0.075	136
81	KANGSABATI	(WB)	0.914	122.89	0.049	48	122.92	0.050	119	122.91	0.050	128
Total Storage			151.768	58.256			47.322			36.441		
Percentage			38			31			24			

Source : Central Water Commission (WM Directorate)

FRL : Full Reservoir Level, **BCM**: Billion Cubic Metre, **m** : Metre * : Hydel Power Project having capacity more than 60 M.Watt.

Note : 1. Position at the 'End of the month ' refers to the position as on last Day of the month
2.Col. 7 refers to Percentage of this year's live storage to average of the last ten year's storage

Table 4(B): Storage Position of Important Reservoirs of India at the end of each month during June 2009 to May 2010

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	Jun-09			Jul-09			Aug-09		
				Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
1*	SRISAILAM	(AP)	8.288	245.73	1.316	88	259.33	3.753	115	263.28	5.496	89
2*	NAGARJUNA SAGAR	(AP)	6.841	154.84	0.998	64	153.07	0.68	34	154.38	0.915	23
3	SRIRAMSAGAR	(AP)	2.300	318.64	-0.754	297	318.82	-0.748	-187	322.75	-0.521	-42
4	SOMASILA	(AP)	1.994	88.91	0.399	189	86.18	0.207	99	85.38	0.158	45
5	LOWER MANAIR	(AP)	0.621	268.30	0.089	60	267.84	0.079	52	267.68	0.076	27
6	TENUGHAT	(JHA)	0.821	254.81	0.152	58	258.07	0.265	89	261.61	0.413	133
7	MAITHON	(JHA)	0.471	134.89	0.032	18	138.02	0.096	33	145.59	0.4	103
8*	PANCHET HILL	(JHA)	0.184	120.05	0.012	16	122.76	0.088	70	127.34	0.184	114
9	KONAR	(JHA)	0.176	414.83	0.029	362	415.34	0.033	35	417.81	0.057	44
10	TILAIYA	(JHA)	0.142	364.01	0.010	40	364.3	0.015	23	365.35	0.037	44
11*	UKAI	(GUJ)	6.615	88.09	0.738	56	95.08	2.148	84	95.7	2.358	51
12	SABARMATI(DHAROI)	(GUJ)	0.735	177.82	0.038	48	182.16	0.182	113	182.94	0.212	79
13*	KADANA	(GUJ)	1.472	121.11	0.606	121	124	0.837	134	123.22	0.771	112
14	SHETRUNJI	(GUJ)	0.300	46.52	0.008	12	53.52	0.166	120	53.42	0.16	95
15	BHADAR	(GUJ)	0.188	100.28	0.011	30	103.4	0.049	60	104.94	0.084	79
16	DAMANGANGA	(GUJ)	0.502	63.27	0.027	23	69.45	0.151	85	74.15	0.283	86
17	DANTIWADA	(GUJ)	0.399	162.23	0.001	20	165.32	0.012	32	165.17	0.011	12
18	PANAM	(GUJ)	0.697	115.70	0.151	85	118.25	0.223	83	118.05	0.216	56
19*	GOBIND SAGAR(BHAKRA)	(HP)	6.229	463.71	0.783	48	478.49	1.776	55	491.84	3.12	64
20*	PONG DAM(BEAS)	(HP)	6.157	388.64	0.295	34	394.88	0.845	38	402.03	1.717	40
21	KRISHNARAJA SAGARA	(KAR)	1.163	736.37	0.000	0	752.47	1.159	180	751.91	1.09	115
22*	TUNGABHADRA	(KAR)	3.276	483.58	0.226	46	497.69	2.938	140	497.7	2.94	102

Contd...

Table 4(B): Storage Position of Important Reservoirs of India at the end of each month during June 2009 to May 2010

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	Jun-09			Jul-09			Aug-09		
				Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
23	GHATAPRABHA(HIDKAL)	(KAR)	1.391	630.17	0.013	5	660.77	1.228	136	661.75	1.301	103
24	BHADRA	(KAR)	1.785	641.04	0.362	69	656.06	1.591	145	657.74	1.784	119
25	LINGANAMAKKI	(KAR)	4.294	530.71	0.331	39	550.72	3.229	150	552.15	3.615	109
26	NARAYANPUR	(KAR)	0.863	487.36	0.332	71	491.61	0.781	127	492.06	0.838	109
27	MALAPRABHA(RENUKA)	(KAR)	0.972	620.31	0.022	26	629.87	0.536	146	629.95	0.542	89
28	KABINI	(KAR)	0.275	690.39	0.000	0	696.02	0.266	121	694.06	0.161	69
29	HEMAVATHY	(KAR)	0.927	874.00	0.037	20	890.37	0.904	151	889.3	0.811	106
30	HARANGI	(KAR)	0.220	854.88	0.021	30	871.28	0.215	109	871.37	0.218	101
31	SUPA	(KAR)	4.120	518.53	0.536	75	541.34	1.859	120	545.16	2.155	87
32	VANI VILAS SAGAR	(KAR)	0.802	633.33	0.031	21	633.17	0.029	20	634.18	0.043	28
33*	ALMATTI	(KAR)	3.105	507.75	0.095	13	519.31	2.907	128	519.6	3.051	107
34*	GERUSOPPA	(KAR)	0.130	49.24	0.098	88	52.53	0.116	104	53.24	0.12	108
35	KALLADA(PARAPPAR)	(KRL)	0.507	94.46	0.122	66	102.22	0.221	80	105.14	0.266	77
36*	IDAMALAYAR	(KRL)	1.018	124.28	0.079	31	150.88	0.536	105	156.58	0.669	92
37*	IDUKKI	(KRL)	1.460	702.77	0.202	60	714.48	0.597	97	716.78	0.689	79
38*	KAKKI	(KRL)	0.447	959.94	0.182	161	972.84	0.315	146	974.18	0.332	111
39*	PERIYAR	(KRL)	0.173	858.96	0.024	33	863.36	0.097	102	861.34	0.061	67
40*	GANDHI SAGAR	(MP)	6.827	381.30	-0.067	-22	385.06	0.641	93	386.12	0.874	40
41	TAWA	(MP)	1.944	338.57	0.194	37	353.05	1.611	154	354.67	1.906	110
42*	BARGI	(MP)	3.180	404.35	0.141	51	410.6	0.747	63	412.55	0.996	40
43*	BANSAGAR	(MP)	5.166	324.10	0.118	128	326.17	0.368	87	326.54	0.443	39
44*	INDIRA SAGAR	(MP)	9.745	244.24	0.291	493	253.75	3.581	423	254.82	4.26	141

Contd...

Table 4(B): Storage Position of Important Reservoirs of India at the end of each month during June 2009 to May 2010

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	Jun-09			Jul-09			Aug-09		
				Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
45*	MINIMATA BANGO	(CHH)	3.046	346.14	1.116	113	348.72	1.373	94	351.6	1.719	83
46	MAHANADI	(CHH)	0.767	341.31	0.216	66	346.62	0.583	129	346.55	0.572	98
47	JAYAKWADI(PAITHAN)	(MAH)	2.171	457.06	0.250	64	457.55	0.344	50	457.67	0.367	30
48*	KOYANA	(MAH)	2.652	634.49	0.784	87	654.56	2.281	117	656.89	2.529	100
49	BHIMA(UJJANI)	(MAH)	1.517	490.16	-0.166	108	493.75	0.611	158	493.94	0.651	70
50	ISAPUR	(MAH)	0.965	424.00	-0.066	-22	425.06	-0.032	-7	425.98	-0.001	0
51	MULA	(MAH)	0.609	534.45	0.006	9	543.89	0.245	88	544.74	0.274	60
52	YELDARI	(MAH)	0.809	443.95	-0.053	-54	445.27	-0.035	-22	447.59	-0.002	-1
53	GIRNA	(MAH)	0.524	384.98	0.061	117	386.39	0.095	73	386.31	0.093	35
54	KHADAKVASLA	(MAH)	0.056	578.57	0.011	73	582.41	0.055	200	579.7	0.022	54
55*	UPPER VAITARNA	(MAH)	0.331	592.60	0.057	51	598.87	0.188	86	599.82	0.216	71
56	UPPER TAPI	(MAH)	0.255	207.70	0.000	0	210.11	0.067	122	213.3	0.214	127
57*	PENCH(TOTLADOH)	(MAH)	1.091	464.97	0.010	9	483.98	0.648	225	483.55	0.625	104
58*	HIRAKUD	(ORI)	5.378	181.38	0.413	70	184.94	1.327	78	187.31	2.725	64
59*	BALIMELA	(ORI)	2.676	438.21	-0.042	-37	443.97	0.377	117	444.46	0.418	44
60	SALANADI	(ORI)	0.558	52.45	0.008	5	60.76	0.065	34	67.36	0.155	49
61*	RENGALI	(ORI)	3.432	109.72	-0.002	-9	115.09	0.98	90	117.22	1.49	61
62*	MACHKUND(JALAPUT)	(ORI)	0.893	823.67	0.110	45	831.19	0.404	115	831.66	0.43	73
63*	UPPER KOLAB	(ORI)	0.935	844.51	0.017	12	848.47	0.202	72	848.9	0.223	45
64*	UPPER INDRAVATI	(ORI)	1.456	625.20	0.013	5	635.5	0.795	144	637.2	0.96	87
65*	THEIN DAM	(PUN)	2.344	500.12	0.627	93	500.19	0.631	69	498.63	0.569	48
66*	MAHI BAJAJ SAGAR	(RAJ)	1.711	258.95	0.000	0	267.6	0.429	74	270.65	0.652	65

Contd...

Table 4(B): Storage Position of Important Reservoirs of India at the end of each month during June 2009 to May 2010

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	Jun-09			Jul-09			Aug-09		
				Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
67	JHAKAM	(RAJ)	0.132	337.55	0.009	60	345.4	0.032	74	348	0.044	53
68*	RANA PRATAP SAGAR	(RAJ)	1.436	346.26	0.332	66	347.51	0.511	78	348.31	0.625	65
69	LOWER BHAWANI	(TN)	0.792	261.64	0.086	26	272.84	0.447	103	272.1	0.411	81
70*	METTUR(STANLEY)	(TN)	2.647	222.77	0.717	70	232.99	1.637	146	233.31	1.674	115
71	VAIGAI	(TN)	0.172	265.12	0.006	11	270.8	0.035	59	273.2	0.061	80
72	PARAMBIKULAM	(TN)	0.380	541.22	0.098	85	551.19	0.276	128	552.67	0.306	107
73	ALIYAR	(TN)	0.095	309.20	0.032	119	319.55	0.092	209	319.34	0.091	140
74*	SHOLAYAR	(TN)	0.143	966.36	0.017	31	1002.38	0.141	138	1000.09	0.13	106
75	GUMTI	(TRP)	0.312	85.80	0.015	12	88	0.091	53	89.18	0.13	62
76	MATATILA	(UP)	0.707	300.81	0.126	72	301.87	0.175	54	302.64	0.217	37
77*	RIHAND	(UP)	5.649	254.08	0.296	65	256.4	0.962	72	257.74	1.406	53
78*	RAMGANGA	(UKH)	2.196	322.52	0.129	53	322.74	0.134	26	329.59	0.332	34
79*	TEHRI	(UKH)	2.615	746.30	0.111	59	775	0.76	90	803	1.587	110
80	MAYURAKSHI	(WB)	0.480	109.68	0.046	34	111.74	0.087	33	113.22	0.126	45
81	KANGSABATI	(WB)	0.914	121.34	-0.002	-1	123.21	0.061	18	129.71	0.422	94
Total Storage			151.768		13.719		54.403		67.775			
Percentage					9		36		45			

Table 4(B): Storage Position of Important Reservoirs of India at the end of each month during June 2009 to May 2010

SI. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	Sep-09			Oct-09			Nov-09		
				Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
1*	SRISAILAM	(AP)	8.288	269.55	8.175	128	269.4	8.086	120	269.38	8.074	134
2*	NAGARJUNA SAGAR	(AP)	6.841	163.46	2.623	66	175.9	5.727	124	170.81	4.396	120
3	SRIRAMSAGAR	(AP)	2.300	325.74	-0.123	-7	325.77	-0.118	-8	325.37	-0.181	-17
4	SOMASILA	(AP)	1.994	88.17	0.42	83	97.73	1.432	178	98.27	1.533	181
5	LOWER MANAIR	(AP)	0.621	267.71	0.077	24	267.63	0.075	21	267.46	0.072	20
6	TENUGHAT	(JHA)	0.821	261.12	0.39	125	261.27	0.398	125	261.15	0.393	124
7	MAITHON	(JHA)	0.471	149.01	0.471	102	148.04	0.471	102	147.32	0.471	103
8*	PANCHET HILL	(JHA)	0.184	127.39	0.184	105	126.23	0.184	106	125.71	0.184	103
9	KONAR	(JHA)	0.176	425.20	0.165	104	425.44	0.17	108	424.95	0.161	112
10	TILAIYA	(JHA)	0.142	369.90	0.142	126	369.31	0.142	127	368.61	0.134	140
11*	UKAI	(GUJ)	6.615	98.96	3.59	67	98.6	3.443	69	98.26	3.309	72
12	SABARMATI(DHAROI)	(GUJ)	0.735	183.09	0.23	72	182.47	0.199	67	181.15	0.142	53
13*	KADANA	(GUJ)	1.472	125.45	0.966	123	124.39	0.869	117	124.16	0.85	117
14	SHETRUNJI	(GUJ)	0.300	53.37	0.157	91	53.27	0.152	92	51.67	0.091	59
15	BHADAR	(GUJ)	0.188	105.00	0.086	77	104.59	0.075	69	103.02	0.042	46
16	DAMANGANGA	(GUJ)	0.502	79.15	0.47	104	79.85	0.501	105	79.8	0.499	111
17	DANTIWADA	(GUJ)	0.399	164.90	0.01	9	164.68	0.009	9	164.3	0.007	9
18	PANAM	(GUJ)	0.697	117.95	0.213	51	116.65	0.176	44	115.7	0.151	40
19*	GOBIND SAGAR(BHAKRA)	(HP)	6.229	499.56	4.09	79	499.54	4.088	85	495.76	3.598	87
20*	PONG DAM(BEAS)	(HP)	6.157	407.99	2.661	58	405.21	2.188	54	402.6	1.799	53
21	KRISHNARAJA SAGARA	(KAR)	1.163	751.99	1.098	124	751.86	1.081	115	752.2	1.124	143
22*	TUNGBHADRA	(KAR)	3.276	497.72	2.947	106	497.44	2.846	108	496.28	2.437	116

Contd...

Table 4(B): Storage Position of Important Reservoirs of India at the end of each month during June 2009 to May 2010

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	Sep-09			Oct-09			Nov-09		
				Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
23	GHATAPRABHA(HIDKAL)	(KAR)	1.391	662.95	1.387	111	662.7	1.373	115	659.67	1.151	124
24	BHADRA	(KAR)	1.785	657.75	1.785	122	657.39	1.742	123	657.17	1.77	134
25	LINGANAMAKKI	(KAR)	4.294	553.98	4.155	124	553.6	4.038	124	552.58	3.74	128
26	NARAYANPUR	(KAR)	0.863	492.17	0.856	112	491.5	0.767	101	492.02	0.834	108
27	MALAPRABHA(RENUKA)	(KAR)	0.972	630.63	0.606	98	632.84	0.848	139	632.3	0.783	169
28	KABINI	(KAR)	0.275	694.77	0.192	96	694.26	0.169	80	692.39	0.076	54
29	HEMAVATHY	(KAR)	0.927	890.46	0.912	134	889.15	0.799	126	885.65	0.543	117
30	HARANGI	(KAR)	0.220	871.37	0.218	121	868.92	0.151	111	862.25	0.072	122
31	SUPA	(KAR)	4.120	549.13	2.509	95	549.46	2.54	98	547.56	2.367	99
32	VANI VILAS SAGAR	(KAR)	0.802	637.96	0.117	70	639.73	0.159	66	639.93	0.164	67
33*	ALMATTI	(KAR)	3.105	519.60	3.051	102	519.59	3.046	106	519.6	3.051	135
34*	GERUSOPPA	(KAR)	0.130	54.55	0.127	111	50.24	0.103	85	53.35	0.12	103
35	KALLADA(PARAPPAR)	(KRL)	0.507	109.80	0.359	97	114.7	0.46	112	115.48	0.478	116
36*	IDAMALAYAR	(KRL)	1.018	161.90	0.813	108	162.48	0.83	108	161.5	0.802	111
37*	IDUKKI	(KRL)	1.460	721.41	0.889	94	723.75	0.998	100	724.8	1.047	106
38*	KAKKI	(KRL)	0.447	978.92	0.401	125	980.9	0.437	127	980.6	0.43	124
39*	PERIYAR	(KRL)	0.173	862.11	0.074	93	862.2	0.076	72	866.4	0.16	152
40*	GANDHI SAGAR	(MP)	6.827	388.07	1.339	57	387.88	1.298	58	387.1	1.098	62
41	TAWA	(MP)	1.944	355.37	1.944	108	355.21	1.944	109	354.73	1.918	131
42*	BARGI	(MP)	3.180	416.45	1.63	56	416.4	1.62	60	416.45	1.63	74
43*	BANSAGAR	(MP)	5.166	330.71	1.335	107	330.06	1.181	121	329.95	1.155	151
44*	INDIRA SAGAR	(MP)	9.745	259.38	7.331	196	259.54	7.459	224	258.85	6.918	279

Contd...

Table 4(B): Storage Position of Important Reservoirs of India at the end of each month during June 2009 to May 2010

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	Sep-09			Oct-09			Nov-09		
				Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
45*	MINIMATA BANGO	(CHH)	3.046	350.80	1.612	70	348.4	1.335	60	348.2	1.311	67
46	MAHANADI	(CHH)	0.767	345.32	0.48	83	344.73	0.433	84	344.64	0.426	81
47	JAYAKWADI(PAITHAN)	(MAH)	2.171	458.19	0.473	33	458.33	0.502	33	458.4	0.516	38
48*	KOYANA	(MAH)	2.652	658.50	2.652	103	658.55	2.652	108	657.07	2.553	113
49	BHIMA(UJJANI)	(MAH)	1.517	495.26	1.025	101	496.85	1.517	142	497.29	1.517	157
50	ISAPUR	(MAH)	0.965	427.37	0.053	8	427.39	0.054	8	427.23	0.048	7
51	MULA	(MAH)	0.609	546.20	0.328	65	546.31	0.332	63	548.88	0.439	93
52	YELDARI	(MAH)	0.809	449.52	0.05	11	449.79	0.057	11	449.86	0.059	13
53	GIRNA	(MAH)	0.524	387.29	0.119	37	387.48	0.124	37	389.77	0.188	64
54	KHADAKVASLA	(MAH)	0.056	580.34	0.029	69	580.46	0.03	103	580.77	0.034	136
55*	UPPER VAITARNA	(MAH)	0.331	600.46	0.232	73	600.61	0.236	74	600.5	0.234	75
56	UPPER TAPI	(MAH)	0.255	214.00	0.255	113	214	0.255	104	214	0.255	105
57*	PENCH(TOTLADOH)	(MAH)	1.091	486.83	0.825	118	484.4	0.673	110	483.03	0.596	121
58*	HIRAKUD	(ORI)	5.378	189.90	4.167	84	191.01	4.799	101	190.65	4.595	103
59*	BALIMELA	(ORI)	2.676	446.20	0.568	45	447.26	0.667	46	449.48	0.889	65
60	SALANADI	(ORI)	0.558	70.62	0.221	57	70.86	0.226	63	67.65	0.16	45
61*	RENGALI	(ORI)	3.432	119.98	2.269	74	120.52	2.452	84	120.05	2.331	97
62*	MACHKUND(JALAPUT)	(ORI)	0.893	833.20	0.517	71	833.78	0.561	74	832.82	0.496	72
63*	UPPER KOLAB	(ORI)	0.935	849.78	0.266	43	849.78	0.266	42	849.46	0.25	43
64*	UPPER INDRAVATI	(ORI)	1.456	637.90	1.029	81	637.58	0.997	82	637.1	0.951	87
65*	THEIN DAM	(PUN)	2.344	499.03	0.574	47	498.91	0.58	57	500.12	0.627	74
66*	MAHI BAJAJ SAGAR	(RAJ)	1.711	274.55	1.008	89	275	1.047	93	272.75	0.835	85

Contd...

Table 4(B): Storage Position of Important Reservoirs of India at the end of each month during June 2009 to May 2010

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	Sep-09			Oct-09			Nov-09		
				Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage	Level (m)	Live Storage BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
67	JHAKAM	(RAJ)	0.132	352.20	0.07	77	352.1	0.069	76	348.95	0.049	67
68*	RANA PRATAP SAGAR	(RAJ)	1.436	348.38	0.637	66	347.69	0.535	60	346.3	0.338	48
69	LOWER BHAWANI	(TN)	0.792	270.93	0.358	81	270.12	0.325	66	276.84	0.673	129
70*	METTUR(STANLEY)	(TN)	2.647	234.79	1.847	138	226.45	0.998	57	232.45	1.577	91
71	VAIGAI	(TN)	0.172	275.02	0.088	133	276.11	0.107	99	276.94	0.126	106
72	PARAMBIKULAM	(TN)	0.380	556.15	0.377	129	555.96	0.373	124	556.23	0.379	128
73	ALIYAR	(TN)	0.095	319.58	0.092	167	319.49	0.092	161	319.86	0.094	152
74*	SHOLAYAR	(TN)	0.143	1002.57	0.142	120	1001.65	0.137	123	1000.18	0.13	131
75	GUMTI	(TRP)	0.312	89.35	0.135	59	89.3	0.134	60	88.34	0.102	53
76	MATATILA	(UP)	0.707	307.76	0.638	95	308.27	0.688	108	307.03	0.559	106
77*	RIHAND	(UP)	5.649	259.24	1.948	54	258.93	1.835	53	258.66	1.733	57
78*	RAMGANGA	(UKH)	2.196	337.70	0.622	48	338.66	0.66	48	339.04	0.675	49
79*	TEHRI	(UKH)	2.615	820.00	2.206	127	819.8	2.198	127	817.15	2.094	130
80	MAYURAKSHI	(WB)	0.480	118.51	0.327	90	113.77	0.141	41	113.37	0.129	39
81	KANGSABATI	(WB)	0.914	131.08	0.524	87	127.65	0.273	53	126.7	0.221	42
Total Storage			151.768	89.835			92.592			87.782		
Percentage				59			61			58		

Contd...

Table 4(B): Storage Position of Important Reservoirs of India at the end of each month During June 2009 to May 2010

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	Dec-09			Jan-10			Feb-10		
				Level (m)	Live Storage in BCM	Percentage of normal storage	Level (m)	Live Storage in BCM	Percentage of normal storage	Level (m)	Live Storage in BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
1*	SRISAILAM	(AP)	8.288	268.20	7.383	136	266.28	6.4	137	261.65	4.478	124
2*	NAGARJUNA SAGAR	(AP)	6.841	168.25	3.78	136	162.18	2.437	125	160.23	2.001	122
3	SRIRAMSAGAR	(AP)	2.300	324.95	-0.243	-33	324.06	-0.375	-136	323.27	-0.47	7833
4	SOMASILA	(AP)	1.994	97.91	1.474	182	96.78	1.275	187	95.84	1.132	206
5	LOWER MANAIR	(AP)	0.621	267.25	0.068	17	267.87	0.08	23	268.47	0.092	33
6	TENUGHAT	(JHA)	0.821	260.79	0.377	123	260.27	0.353	121	259.95	0.34	125
7	MAITHON	(JHA)	0.471	146.61	0.458	101	145.59	0.4	91	143.92	0.315	77
8*	PANCHET HILL	(JHA)	0.184	125.5	0.184	101	124.99	0.184	101	123.57	0.12	81
9	KONAR	(JHA)	0.176	424.28	0.149	114	423.44	0.135	117	422.7	0.123	119
10	TILAIYA	(JHA)	0.142	368.2	0.121	181	367.51	0.098	233	366.26	0.059	211
11*	UKAI	(GUJ)	6.615	97.33	2.943	71	96.44	2.621	72	95.05	2.138	67
12	SABARMATI(DHAROI)	(GUJ)	0.735	179.74	0.091	41	178.98	0.068	37	178.34	0.051	35
13*	KADANA	(GUJ)	1.472	124.13	0.848	119	123.55	0.798	116	123.09	0.76	117
14	SHETRANJI	(GUJ)	0.300	51.12	0.076	54	50.02	0.052	47	48.77	0.032	37
15	BHADAR	(GUJ)	0.188	102.59	0.036	56	102.14	0.03	70	101.74	0.024	83
16	DAMANGANGA	(GUJ)	0.502	79.35	0.478	115	78.4	0.439	121	77.45	0.4	121
17	DANTIWADA	(GUJ)	0.399	164.07	0.006	11	163.84	0.006	16	163.6	0.005	18
18	PANAM	(GUJ)	0.697	113.95	0.109	31	111.6	0.072	23	108.6	0.026	9
19*	GOBIND SAGAR(BHAKRA)	(HP)	6.229	490.19	2.931	89	482.51	2.127	86	473.31	1.38	76
20*	PONG DAM(BEAS)	(HP)	6.157	398.25	1.217	43	395.53	0.912	38	395.91	0.95	47
21	KRISHNARAJA SAGARA	(KAR)	1.163	751.87	1.083	159	750.83	0.957	182	748.77	0.736	201
22*	TUNGABHADRA	(KAR)	3.276	494.81	1.954	127	492.55	1.373	141	489.65	0.832	144

Contd...

Table 4(B): Storage Position of Important Reservoirs of India at the end of each month During June 2009 to May 2010

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	Dec-09			Jan-10			Feb-10		
				Level (m)	Live Storage in BCM	Percentage of normal storage	Level (m)	Live Storage in BCM	Percentage of normal storage	Level (m)	Live Storage in BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
23	GHATAPRABHA(HIDKAL)	(KAR)	1.391	655.67	0.876	140	650.54	0.622	171	646.13	0.428	224
24	BHADRA	(KAR)	1.785	657.66	1.773	135	656.87	1.683	147	654.86	1.462	159
25	LINGANAMAKKI	(KAR)	4.294	550.98	3.297	129	548.91	2.778	130	546.83	2.315	132
26	NARAYANPUR	(KAR)	0.863	491.74	0.798	104	491.84	0.812	112	491.98	0.83	134
27	MALAPRABHA(RENUKA)	(KAR)	0.972	630.35	0.58	206	628.66	0.433	283	626.57	0.281	380
28	KABINI	(KAR)	0.275	692.51	0.082	69	693.2	0.116	91	692.4	0.076	87
29	HEMAVATHY	(KAR)	0.927	880.68	0.264	93	878.17	0.163	62	877.42	0.135	61
30	HARANGI	(KAR)	0.220	856.28	0.03	158	857.87	0.04	167	858.24	0.043	187
31	SUPA	(KAR)	4.120	545.65	2.201	105	543.18	2	109	539.56	1.729	112
32	VANI VILAS SAGAR	(KAR)	0.802	639.13	0.16	67	639.59	0.156	71	638.13	0.12	61
33*	ALMATTI	(KAR)	3.105	518.70	2.622	159	517.25	2.029	185	514.82	1.276	196
34*	GERUSOPPA	(KAR)	0.130	52.01	0.118	104	51.33	0.109	103	50.3	0.103	94
35	KALLADA(PARAPPAR)	(KRL)	0.507	115.56	0.481	124	112.15	0.406	116	107.85	0.32	110
36*	IDAMALAYAR	(KRL)	1.018	159.26	0.739	116	155.56	0.646	118	150.02	0.515	114
37*	IDUKKI	(KRL)	1.460	723.38	0.981	109	720.83	0.862	112	717.26	0.709	113
38*	KAKKI	(KRL)	0.447	978.05	0.388	124	975.35	0.348	128	972.58	0.312	133
39*	PERIYAR	(KRL)	0.173	862.99	0.09	108	860.37	0.045	85	859	0.024	60
40*	GANDHI SAGAR	(MP)	6.827	385.47	0.738	54	383.66	0.385	39	383.25	0.315	44
41	TAWA	(MP)	1.944	353.51	1.692	154	351.04	1.302	180	348.2	0.946	201
42*	BARGI	(MP)	3.180	416.00	1.54	91	415.15	1.379	105	414.3	1.238	120
43*	BANSAGAR	(MP)	5.166	329.61	1.074	169	328.38	0.812	173	328	0.735	196
44*	INDIRA SAGAR	(MP)	9.745	256.98	5.589	299	254.02	3.845	286	252.12	2.925	262

Contd...

Table 4(B): Storage Position of Important Reservoirs of India at the end of each month During June 2009 to May 2010

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	Dec-09			Jan-10			Feb-10		
				Level (m)	Live Storage in BCM	Percentage of normal storage	Level (m)	Live Storage in BCM	Percentage of normal storage	Level (m)	Live Storage in BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
45*	MINIMATA BANGO	(CHH)	3.046	348.10	1.299	71	347.75	1.259	75	347.35	1.216	79
46	MAHANADI	(CHH)	0.767	344.3	0.401	75	343.88	0.375	75	343.55	0.355	75
47	JAYAKWADI(PAITHAN)	(MAH)	2.171	458.13	0.462	37	457.36	0.306	29	456.95	0.233	25
48*	KOYANA	(MAH)	2.652	656.08	2.435	120	654.69	2.292	126	653.42	2.186	138
49	BHIMA(UJJANI)	(MAH)	1.517	497.02	1.517	189	496.85	1.517	246	496.16	1.302	291
50	ISAPUR	(MAH)	0.965	427.10	0.043	7	426.96	0.037	7	426.64	0.025	6
51	MULA	(MAH)	0.609	548.90	0.44	113	546.83	0.352	111	545.71	0.309	126
52	YELDARI	(MAH)	0.809	451.38	0.111	28	450.33	0.072	22	449.35	0.045	17
53	GIRNA	(MAH)	0.524	390.06	0.196	81	389.93	0.193	104	389.25	0.174	123
54	KHADAKVASLA	(MAH)	0.056	580.49	0.031	172	580.4	0.03	214	580.49	0.031	238
55*	UPPER VAITARNA	(MAH)	0.331	600.35	0.231	79	599.42	0.205	80	598.32	0.173	83
56	UPPER TAPI	(MAH)	0.255	213.91	0.249	119	213.44	0.221	123	212.82	0.186	123
57*	PENCH(TOTLADOH)	(MAH)	1.091	482.55	0.57	144	480.54	0.47	125	478.8	0.392	151
58*	HIRAKUD	(ORI)	5.378	190.41	4.459	108	189.77	4.097	117	188.63	3.457	114
59*	BALIMELA	(ORI)	2.676	449.03	0.843	69	450.34	0.984	100	448.64	0.804	103
60	SALANADI	(ORI)	0.558	67.34	0.155	46	66.08	0.133	47	65.46	0.123	50
61*	RENGALI	(ORI)	3.432	119.56	2.164	92	119.39	2.108	109	118.95	1.966	116
62*	MACHKUND(JALAPUT)	(ORI)	0.893	831.50	0.421	63	829.5	0.321	55	827.17	0.225	45
63*	UPPER KOLAB	(ORI)	0.935	849.44	0.249	47	849.42	0.248	54	848.9	0.223	56
64*	UPPER INDRAVATI	(ORI)	1.456	637.22	0.962	97	636.78	0.919	105	635.68	0.812	110
65*	THEIN DAM	(PUN)	2.344	499.51	0.604	92	497.77	0.536	123	498.75	0.574	146
66*	MAHI BAJAJ SAGAR	(RAJ)	1.711	270.05	0.603	78	267.2	0.399	65	262.9	0.16	34

Contd...

Table 4(B): Storage Position of Important Reservoirs of India at the end of each month During June 2009 to May 2010

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	Dec-09			Jan-10			Feb-10		
				Level (m)	Live Storage in BCM	Percentage of normal storage	Level (m)	Live Storage in BCM	Percentage of normal storage	Level (m)	Live Storage in BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
67	JHAKAM	(RAJ)	0.132	344.65	0.029	55	338.1	0.01	29	337.9	0.01	50
68*	RANA PRATAP SAGAR	(RAJ)	1.436	345.54	0.228	33	345.53	0.226	37	345.63	0.238	42
69	LOWER BHAWANI	(TN)	0.792	275.65	0.599	129	274.48	0.532	148	273.31	0.47	155
70*	METTUR(STANLEY)	(TN)	2.647	232.40	1.572	100	227.66	1.103	97	226.99	1.045	96
71	VAIGAI	(TN)	0.172	274.74	0.083	97	271.63	0.043	78	269.02	0.022	42
72	PARAMBIKULAM	(TN)	0.380	555.6	0.366	137	553.99	0.332	153	552.28	0.298	176
73	ALIYAR	(TN)	0.095	315.07	0.075	150	313.75	0.056	187	313.85	0.057	285
74*	SHOLAYAR	(TN)	0.143	985.92	0.069	103	969.47	0.023	70	962.65	0.011	52
75	GUMTI	(TRP)	0.312	87.70	0.083	51	86.2	0.042	32	85.47	0.027	25
76	MATATILA	(UP)	0.707	307.21	0.578	146	306.96	0.552	179	306.75	0.531	221
77*	RIHAND	(UP)	5.649	258.05	1.51	58	257.19	1.22	55	256.61	1.025	54
78*	RAMGANGA	(UKH)	2.196	336.30	0.567	50	332.61	0.433	44	331.82	0.406	50
79*	TEHRI	(UKH)	2.615	810.45	1.845	133	797.75	1.415	137	783.9	0.999	142
80	MAYURAKSHI	(WB)	0.480	113.29	0.127	38	113.1	0.122	39	112.93	0.117	51
81	KANGSABATI	(WB)	0.914	126.70	0.221	52	124.59	0.113	35	124.59	0.113	50
Total Storage			151.768	78.033			64.709			52.701		
Percentage				51			43			35		

Contd...

Table 4(B): Storage Position of Important Reservoirs of India at the end of each month during June 2009 to May 2010

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	Mar-10			Apr-10			May-10		
				Level (m)	Live Storage in BCM	Percentage of normal storage	Level (m)	Live Storage in BCM	Percentage of normal storage	Level (m)	Live Storage in BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
1*	SRISAILAM	(AP)	8.288	253.88	2.410	103	247.25	1.490	103	245.03	1.246	111
2*	NAGARJUNA SAGAR	(AP)	6.841	157.86	1.568	117	157.61	1.520	116	158.64	1.719	121
3	SRIRAMSAGAR	(AP)	2.300	320.95	-0.651	186	319.86	-0.707	133	319.28	0.732	132
4	SOMASILA	(AP)	1.994	95.08	1.033	231	94.09	0.910	249	91.95	0.673	283
5	LOWER MANAIR	(AP)	0.621	268.19	0.087	44	267.98	0.082	52	267.20	0.068	46
6	TENUGHAT	(JHA)	0.821	257.68	0.249	96	256.82	0.218	93	256.02	0.192	70
7	MAITHON	(JHA)	0.471	142.23	0.241	70	138.16	0.099	50	137.00	0.071	51
8*	PANCHET HILL	(JHA)	0.184	123.14	0.103	137	120.57	0.025	125	119.92	0.009	43
9	KONAR	(JHA)	0.176	421.74	0.109	131	419.53	0.077	107	418.08	0.060	120
10	TILAIYA	(JHA)	0.142	364.30	0.016	123	364.06	0.012	120	363.90	0.008	114
11*	UKAI	(GUJ)	6.615	93.40	1.745	67	91.57	1.362	71	88.75	0.843	65
12	SABARMATI(DHAROI)	(GUJ)	0.735	177.87	0.039	32	177.39	0.029	29	176.84	0.018	21
13*	KADANA	(GUJ)	1.472	122.68	0.727	121	121.57	0.639	116	120.65	0.573	118
14	SHETRUNJI	(GUJ)	0.300	48.52	0.029	57	48.07	0.023	144	47.52	0.017	283
15	BHADAR	(GUJ)	0.188	101.19	0.018	75	100.40	0.012	60	99.45	0.006	33
16	DAMANGANGA	(GUJ)	0.502	76.30	0.355	123	74.55	0.294	123	68.15	0.123	95
17	DANTIWADA	(GUJ)	0.399	163.25	0.004	20	162.91	0.003	30	162.38	0.001	50
18	PANAM	(GUJ)	0.697	108.00	0.018	7	107.85	0.017	9	107.65	0.016	10
19*	GOBIND SAGAR(BHAKRA)	(HP)	6.229	462.72	0.731	63	463.18	0.753	83	462.44	0.717	67
20*	PONG DAM(BEAS)	(HP)	6.157	395.45	0.904	54	395.46	0.905	59	393.37	0.690	65
21	KRISHNARAJA SAGARA	(KAR)	1.163	746.09	0.497	234	743.44	0.306	255	739.95	0.116	215
22*	TUNGABHADRA	(KAR)	3.276	483.93	0.247	143	479.61	0.064	83	481.37	0.121	138

Contd...

Table 4(B): Storage Position of Important Reservoirs of India at the end of each month during June 2009 to May 2010

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	Mar-10			Apr-10			May-10		
				Level (m)	Live Storage in BCM	Percentage of normal storage	Level (m)	Live Storage in BCM	Percentage of normal storage	Level (m)	Live Storage in BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
23	GHATAPRABHA(HIDKAL)	(KAR)	1.391	641.65	0.263	216	638.06	0.159	209	634.92	0.089	287
24	BHADRA	(KAR)	1.785	652.22	1.192	177	649.22	0.922	216	646.39	0.702	275
25	LINGANAMAKKI	(KAR)	4.294	543.50	1.700	132	539.82	1.162	134	536.74	0.702	136
26	NARAYANPUR	(KAR)	0.863	490.02	0.594	121	487.03	0.306	94	487.62	0.356	123
27	MALAPRABHA(RENUKA)	(KAR)	0.972	625.48	0.215	430	624.87	0.187	505	624.51	0.168	600
28	KABINI	(KAR)	0.275	690.82	0.006	15	689.70	0.000	0	688.31	0.000	0
29	HEMAVATHY	(KAR)	0.927	876.09	0.090	60	874.61	0.054	62	874.22	0.044	113
30	HARANGI	(KAR)	0.220	856.59	0.032	168	855.03	0.021	117	855.63	0.026	163
31	SUPA	(KAR)	4.120	533.49	1.311	108	527.34	0.943	100	522.65	0.709	103
32	VANI VILAS SAGAR	(KAR)	0.802	637.93	0.116	64	636.54	0.085	50	637.08	0.095	61
33*	ALMATTI	(KAR)	3.105	512.40	0.756	402	511.86	0.660	1158	510.99	0.515	1256
34*	GERUSOPPA	(KAR)	0.130	48.49	0.094	82	50.20	0.103	84	53.00	0.118	107
35	KALLADA(PARAPPAR)	(KRL)	0.507	101.30	0.207	98	97.03	0.151	99	93.94	0.116	97
36*	IDAMALAYAR	(KRL)	1.018	142.62	0.360	105	135.66	0.230	91	128.20	0.123	73
37*	IDUKKI	(KRL)	1.460	712.26	0.512	107	708.94	0.396	120	704.91	0.266	125
38*	KAKKI	(KRL)	0.447	965.81	0.235	131	957.83	0.164	125	948.23	0.101	117
39*	PERIYAR	(KRL)	0.173	858.72	0.021	47	858.94	0.024	45	859.15	0.027	47
40*	GANDHI SAGAR	(MP)	6.827	382.92	0.263	51	382.36	0.181	47	381.82	0.106	34
41	TAWA	(MP)	1.944	347.38	0.851	242	347.20	0.835	246	346.95	0.814	244
42*	BARGI	(MP)	3.180	412.95	1.081	140	410.35	0.717	138	407.85	0.436	151
43*	BANSAGAR	(MP)	5.166	327.58	0.651	213	326.54	0.441	255	325.41	0.273	276
44*	INDIRA SAGAR	(MP)	9.745	249.57	1.883	199	247.14	1.104	163	245.74	0.692	171

Contd...

Table 4(B): Storage Position of Important Reservoirs of India at the end of each month during June 2009 to May 2010

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	Mar-10			Apr-10			May-10		
				Level (m)	Live Storage in BCM	Percentage of normal storage	Level (m)	Live Storage in BCM	Percentage of normal storage	Level (m)	Live Storage in BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
45*	MINIMATA BANGO	(CHH)	3.046	346.85	1.167	85	346.05	1.109	94	344.25	0.874	85
46	MAHANADI	(CHH)	0.767	343.18	0.331	76	341.70	0.240	65	340.52	0.179	56
47	JAYAKWADI(PAITHAN)	(MAH)	2.171	456.48	0.154	20	455.96	0.072	12	455.65	0.018	4
48*	KOYANA	(MAH)	2.652	650.16	1.917	147	643.00	1.340	136	635.84	0.855	119
49	BHIMA(UJJANI)	(MAH)	1.517	494.82	0.897	410	493.87	0.630	2739	492.42	0.293	113
50	ISAPUR	(MAH)	0.965	426.27	0.010	3	426.01	0.000	0	424.30	-0.057	-25
51	MULA	(MAH)	0.609	544.80	0.276	142	540.41	0.138	111	536.75	0.052	133
52	YELDARI	(MAH)	0.809	449.24	0.042	22	445.93	-0.026	-25	445.61	-0.030	-56
53	GIRNA	(MAH)	0.524	388.05	0.140	132	387.16	0.115	142	385.55	0.075	132
54	KHADAKVASLA	(MAH)	0.056	580.00	0.025	278	578.39	0.009	112	577.96	0.006	67
55*	UPPER VAITARNA	(MAH)	0.331	596.72	0.135	82	595.23	0.098	82	593.80	0.071	84
56	UPPER TAPI	(MAH)	0.255	212.20	0.157	134	211.33	0.117	154	209.94	0.060	200
57*	PENCH(TOTLADOH)	(MAH)	1.091	476.92	0.316	170	473.41	0.199	154	469.35	0.091	97
58*	HIRAKUD	(ORI)	5.378	187.89	2.506	114	185.01	1.633	117	183.80	1.143	188
59*	BALIMELA	(ORI)	2.676	447.13	0.656	140	445.37	0.496	141	443.03	0.300	390
60	SALANADI	(ORI)	0.558	65.72	0.110	61	63.19	0.088	57	63.16	0.088	66
61*	RENGALI	(ORI)	3.432	117.23	1.493	118	115.00	0.972	121	113.09	0.581	270
62*	MACHKUND(JALAPUT)	(ORI)	0.893	824.56	0.137	34	821.86	0.064	20	819.24	0.013	6
63*	UPPER KOLAB	(ORI)	0.935	848.26	0.192	64	846.93	0.127	63	846.30	0.096	83
64*	UPPER INDRAVATI	(ORI)	1.456	633.76	0.644	117	630.95	0.413	111	628.23	0.216	93
65*	THEIN DAM	(PUN)	2.344	497.84	0.539	109	497.83	0.539	75	500.46	0.644	79
66*	MAHI BAJAJ SAGAR	(RAJ)	1.711	261.50	0.098	28	261.40	0.094	34	261.10	0.081	39

Contd...

Table 4(B): Storage Position of Important Reservoirs of India at the end of each month during June 2009 to May 2010

Sl. No.	Name of Reservoirs	Location	Live Capacity at FRL in BCM	Mar-10			Apr-10			May-10		
				Level (m)	Live Storage in BCM	Percentage of normal storage	Level (m)	Live Storage in BCM	Percentage of normal storage	Level (m)	Live Storage in BCM	Percentage of normal storage
1	2	3	4	5	6	7	8	9	10	11	12	13
67	JHAKAM	(RAJ)	0.132	337.65	0.010	62	337.35	0.009	56	337.05	0.008	57
68*	RANA PRATAP SAGAR	(RAJ)	1.436	345.93	0.284	52	345.62	0.239	43	345.62	0.238	45
69	LOWER BHAWANI	(TN)	0.792	271.04	0.363	134	269.08	0.285	133	268.84	0.276	116
70*	METTUR(STANLEY)	(TN)	2.647	226.14	0.973	91	226.26	0.983	92	227.37	1.077	98
71	VAIGAI	(TN)	0.172	267.82	0.015	26	266.54	0.010	18	266.64	0.011	22
72	PARAMBIKULAM	(TN)	0.380	548.82	0.231	194	545.19	0.165	201	541.16	0.097	139
73	ALIYAR	(TN)	0.095	313.40	0.055	275	314.91	0.063	242	312.88	0.052	217
74*	SHOLAYAR	(TN)	0.143	961.60	0.009	64	961.40	0.009	100	960.47	0.007	64
75	GUMTI	(TRP)	0.312	81.35	0.000	0	82.99	0.000	0	84.20	0.007	10
76	MATATILA	(UP)	0.707	307.85	0.647	252	307.09	0.575	229	304.98	0.373	244
77*	RIHAND	(UP)	5.649	255.67	0.749	52	254.54	0.426	41	253.96	0.262	41
78*	RAMGANGA	(UKH)	2.196	328.10	0.285	48	323.68	0.159	34	321.82	0.112	40
79*	TEHRI	(UKH)	2.615	764.60	0.504	135	748.90	0.163	116	743.35	0.054	61
80	MAYURAKSHI	(WB)	0.480	111.92	0.092	63	110.76	0.066	106	110.54	0.062	64
81	KANGSABATI	(WB)	0.914	122.28	0.026	23	122.01	0.016	36	121.80	0.010	23
Total Storage			151.768	39.097			28.613			22.792		
Percentage				26			19			15		

Source : Central Water Commission (WM Directorate)

FRL : Full Reservoir Level, BCM: Billion Cubic Metre, m : Metre * : Hydel Power Project having capacity more than 60 M.Watt.**Note** : 1. Position at the 'End of the month ' refers to the position as on last Day of the month

2. Col 7 refers to Percentage of this year's live storage to average of the last ten year's storage

Table 5: Basin-wise Number of Hydrological Observation Stations by type

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 Basin	Jharkhand	0	0	0	0	1	0	1	0
		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 between Mahanadi and Pennar	Andhra Pradesh	1	1	0	0	2	0	4	0
		Orissa	6	1	0	0	2	0	9	0
		SubTotal	7	2	0	0	4	0	13	0
4	East flowing rivers between Pennar and Kanyakumari	Andhra pradesh	0	0	2	0	0	0	2	0
		Puducherry	0	0	1	0	0	0	1	0
		Tamil Nadu	0	0	9	0	5	0	14	0
		SubTotal	0	0	12	0	5	0	17	1
5	Ganga/ Brahmaputra/ Meghna/ Barak Basin	Arunachal Pradesh	12	4	2	2	0	4	24	0
		Assam	28	2	7	3	16	17	73	0
		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	5
		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	39	101	24	445	13

Contd...

Table 5: Basin-wise Number of Hydrological Observation Stations by type

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	4
		Jammu & Kashmir	3	4	3	1	4	0	15	19
		SubTotal	7	8	3	2	6	0	26	23
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

Contd...

Table 5: Basin-wise Number of Hydrological Observation Stations by type

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
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
16	West flowing rivers from Tapi to Tadri	Dadra & Nagar Haveli	4	0	0	0	0	0	4	0
		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 from Tadri to Kanyakumari	Karnataka	0	0	5	0	1	0
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 of Kutchh & Saurashtra	Gujarat	3	3	1	0	3	0	10	0
		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 Bangladesh		2	0	0	3	0	0	5	0
		Sub Total	2	0	0	3	0	0	5	0
Grand Total			295	154	131	33	239	26	878	36

Source : R.D. Dte., Central Water Commission

Note: One of the site is H.O. site, where Sg observations are also being observed. Hence not counted for total number of stations.

G - Gauge Site, GD - Gauge & Discharge Site

GQ - Gauge & Water Quality Site

GDS - Gauge, Discharge & Silt Site

GDQ - Gauge, Discharge & Water Quality Site

GDSQ - Gauge, Discharge, Silt & Water Quality Site

Sg - Snow Gauge Site

Table 6: Ultimate Irrigation Potential by State

('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 : Central Water Commission, P & P Directorate and Ministry of Water Resources (Minor Irrigation Division).

Table 7: Number of Large Dams having capacity as on 30th November 2012 Abstract by State

Sl. No.	State/U.T.	Number of Dams Completed During The Period								Year of Construction not Available	Total Completed Dams	Under Construction	Total
		Upto 1900	1901 to 1950	1951 to 1960	1961 to 1970	1971 to 1980	1981 to 1990	1991 to 2000	2001 & Beyond				
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1*	Andaman & Nicobar Islands	0	0	0	0	1	0	0	1	0	2	0	2
2	Andhra Pradesh	7	35	16	22	31	26	15	12	126	290	44	334
3	Arunachal Pradesh	0	0	0	0	0	0	0	1	0	1	0	1
4	Assam	0	0	0	0	0	0	0	1	2	3	2	5
5	Bihar	1	0	1	8	5	6	1	2	0	24	4	28
6	Chhattisgarh	0	11	1	18	51	98	37	26	1	243	14	257
7	Goa	0	0	0	0	0	3	2	0	0	5	0	5
8	Gujarat	6	59	57	86	154	151	56	23	6	621	45	666
9	Himachal Pradesh	0	0	0	1	2	2	1	5	2	13	6	19
10	Haryana								1		1		1
11	Jammu & Kashmir	0	0	0	0	2	2	1	4	3	12	2	14
12	Jharkhand	0	0	9	5	11	21	0	0	3	49	28	77
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	67	220	301	93	66	28	899	7	906
16	Maharashtra	20	40	23	152	622	416	304	113	3	1693	152	1845
17	Manipur	0	0	0	0	1	0	1	1	0	3	2	5
18	Meghalaya	0	0	1	1	1	0	1	1	0	5	1	6
19	Mizoram	0	0	0	0	0	0	0	0	0	0	0	0
20	Nagaland	0	0	0	0	0	0	0	0	0	0	0	0
21	Orissa	2	2	4	8	55	77	33	13	4	198	6	204
22	Punjab	0	0	1	0	0	4	6	3	0	14	1	15
23	Rajasthan	31	8	33	23	29	36	26	15	0	201	10	211
24	Sikkim	0	0	0	0	0	0	1	1	0	2	0	2
25	Tamil Nadu	0	10	10	26	26	17	8	19	0	116	0	116

Contd...

Table 7: Number of Large Dams having capacity as on 30th November 2012 Abstract by State

Sl. No.	State/U.T.	Number of Dams Completed During The Period								Year of Construction not Available	Total Completed Dams	Under Construction	Total
		Upto 1900	1901 to 1950	1951 to 1960	1961 to 1970	1971 to 1980	1981 to 1990	1991 to 2000	2001 & Beyond				
1	2	3	4	5	6	7	8	9	10	11	12	13	14
26	Tripura	0	0	0	0	1	0	0	0	0	1	0	1
27	Uttar Pradesh	4	24	21	22	16	14	11	2	0	114	16	130
28	Uttarakhand	0	0	0	5	4	2	0	2	0	13	6	19
29	West Bengal	0	0	1	1	4	16	2	4	0	28	0	28
Total		81	300	233	499	1295	1256	625	333	194	4839	348	5187

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

* Union Territory (UT)

DEFINITION OF LARGE DAMS FOR INCLUSION UNDER NRLD

Dams other than Earthen and Rock fill dams

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 one of the following conditions is satisfied:

- length of crest of the dam is not less than 500 metres or
- capacity of the reservoir formed by the dam is not less than one million cubic metres or
- the maximum flood discharge dealt with by the dam is not less than 2000 cubic metres per second or
- the dam has specially difficult foundation problems, or
- the dam is of unusual design

Earthen and Rock fill dams

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 m³ and storage exceeds 1 million m³ or the maximum flood discharge exceeds 2000 cumecs.”

Table 8: Plan-wise Achievements of Irrigation Potential Created/Utilised(Cumulative) under Major & Medium Irrigation Projects by State

Sl. No.	State/UTs.	Ultimate Potential	Sixth Plan		Seventh Plan		Annual Plan		Eighth Plan		Ninth Plan		Tenth Plan		% of IPC to UIP	% of IPU to IPC
			1980-85		1985-90		1990-92		1992-97		1997-2002		2002-07			
			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

Contd...

Table 8: Plan-wise Achievements of Irrigation Potential Created/Utilised(Cumulative) under Major & Medium Irrigation Projects by State

('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
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	Included 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 : Central water Commission (P&P Dte.) and Planning Commission.

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

Total may not tally due to rounding off.

Table 9: Irrigation Potential Created and Utilized over plan periods

(Million ha)												
Sl.No.	Plan		Potential created					Potential Utilized				
			Major & Medium	Minor			Total	Major & Medium	Minor			Total
				Surface Water	Ground Water	Total			Surface Water	Ground Water	Total	
1	2		3	4	5	6	7	8	9	10	11	12
1	Upto 1951 (Pre-Plan)	Cumulative	9.70	6.40	6.50	12.90	22.60	9.70	6.40	6.50	12.90	22.60
2	I Plan	During	2.50	0.03	1.13	1.16	3.66	1.28	0.03	1.13	1.16	2.44
	(1951-56)	Cumulative	12.20	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	8.30	14.75	29.08	13.05	6.45	8.30	14.75	27.80
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	17.00	33.57	15.17	6.48	10.52	17.00	32.17
5	Annual Plans	During	1.53	0.02	1.98	2.00	3.53	1.58	0.02	1.98	2.00	3.58
	(1966-69)	Cumulative	18.10	6.50	12.50	19.00	37.10	16.75	6.50	12.50	19.00	35.75
6	IV Plan	During	2.60	0.50	4.00	4.50	7.10	1.64	0.50	4.00	4.50	6.14
	(1969-1974)	Cumulative	20.70	7.00	16.50	23.50	44.20	18.39	7.00	16.50	23.50	41.89
7	V Plan	During	4.02	0.50	3.30	3.80	7.82	2.70	0.50	3.30	3.80	6.50
	(1974-1978)	Cumulative	24.72	7.50	19.80	27.30	52.02	21.16	7.50	19.80	27.30	48.46
8	Annual Plans	During	1.89	0.50	2.20	2.70	4.59	1.48	0.50	2.20	2.70	4.18
	(1978-1980)	Cumulative	26.61	8.00	22.00	30.00	56.61	22.64	8.00	22.00	30.00	52.64
9	VI Plan	During	1.09	1.70	5.82	7.52	8.61	0.93	1.01	4.24	5.25	6.18
	(1980-1985)	Cumulative	27.70	9.70	27.82	37.52	65.22	23.57	9.01	26.24	35.25	58.82
10	VII Plan	During	2.22	1.29	7.80	9.09	11.31	1.90	0.96	6.91	7.87	9.77
	(1985-1990)	Cumulative	29.92	10.90	35.62	46.52	76.44	25.47	9.97	33.15	43.12	68.59

Contd...

Table 9: Irrigation Potential Created and Utilized over plan periods

(Million ha)

Sl.No.	Plan		Potential created				Potential Utilized					
			Major & Medium	Minor		Total	Major & Medium	Minor		Total		
				Surface Water	Ground Water			Total	Surface Water		Ground Water	Total
1	2	3	4	5	6	7	8	9	10	11	12	
11	Annual Plan (1990-1992)	During	0.82	0.47	3.27	3.74	4.56	0.85	0.32	3.10	3.42	4.27
		Cumulative	30.74	11.46	38.89	50.35	81.09	26.31	10.29	36.25	46.54	72.85
12	VIII Plan (1992-1997)	During	2.21	1.05	1.91	2.96	5.17	2.13	0.78	1.45	2.23	4.36
		Cumulative	32.95	12.51	40.80	53.31	86.26	28.44	11.07	37.70	48.77	77.21
13	IX Plan (1997-2002)	During	4.10	1.09	2.50	3.59	7.69	2.57	0.37	0.85	1.22	3.79
		Cumulative	37.05	13.60	43.30	56.90	93.95	31.01	11.44	38.55	49.99	81.00
14	X Plan (2002-2007)	During	4.59	N.A	N.A	3.20	7.79	2.73	N.A	N.A	1.49	4.22
		Cumulative	41.64	N.A	N.A	60.10	101.74	33.74	N.A	N.A	51.48	85.22
15	XI Plan* (2007-2012)	During	3.70	N.A	N.A	3.47	7.17	0.92	N.A	N.A	1.25	2.17
		Cumulative	45.34	N.A	N.A	63.57	108.91	34.66	N.A	N.A	52.73	87.39

Source : Planning Commission (Report of the working group on MMI and CAD for the XII Five Year Plan)

* : The figures upto 2010-11 have been considered. It includes likely achievement figure for 2010-11.

Table 10: Year-wise Achievements of Irrigation Potential Created/Utilised under Major & Medium Irrigation of XI plan* by State

('000 Hectare)

Sl. No	Name of State/ UT	Ultimate Irrigation Potential	XI Plan											
			Target		Achievement 2007-08		Achievement 2008-09		Achievement 2009-10		Likely achievement 2010-11		Target for 2011-12	
			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
1	Andhra Pradesh	5000.00	3326.36	NF	142.06	NF	177.25	NF	47.21	NF	64.91	NF	517.00	NF
2	Arunachal Pradesh	0.00	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
3	Assam	970.00	132.38	NF	2.15	NF	8.85	NF	35.69	NF	85.51	NF	93.46	NF
4	Bihar	5223.50	1560.57	NF	NF	NF	10.00	NF	7.00	NF	6.20	NF	65.00	NF
5	Chhattisgarh	1146.93	196.00	NF	6.62	NF	19.60	NF	36.10	NF	35.00	NF	35.00	NF
6	Goa	62.00	17.95	25.03	8.00	0.22	3.27	0.31	0.76	0.29	3.82	0.51	5.95	NF
7	Gujarat	3000.00	1545.00	NF	401.49	NF	428.52	NF	34.58	7.30	270.00	20.00	314.00	10.00
8	Haryana	3000.00	46.16	NF	2.37	NF	7.16	NF	2.31	NF	NF	NF	NF	NF
9	Himachal Pradesh	50.00	16.00	NF	2.50	NF	2.00	NF	3.00	NF	3.50	NF	4.00	NF
10	Jharkhand	1276.50	148.20	NF	NF	NF	12.55	NF	0.50	NF	34.00	NF	62.70	NF
11	Jammu Kashmir	250.00	12.96	12.96	5.99	6.01	11.89	NF	NF	NF	2.00	2.00	110.00	NF
12	Karnataka	2500.00	440.34	328.24	82.50	63.25	47.20	18.88	42.02	22.99	59.45	17.30	94.50	90.00
13	Kerala	1000.00	50.00	NF	8.00	NF	3.20	NF	12.00	NF	NF	NF	NF	NF
14	Madhya Pradesh	4853.07	777.06	NF	104.03	NF	93.24	NF	67.41	NF	93.70	NF	206.15	NF
15	Maharashtra	4100.00	1512.00	NF	107.56	NF	118.00	NF	60.00	NF	NF	NF	209.00	NF
16	Manipur	135.00	46.95	NF	10.92	NF	4.14	NF	1.80	NF	15.00	NF	20.09	NF
17	Meghalaya	20.00	-	-	-	-	-	-	-	-	-	-	-	-
18	Mizoram	0.00	-	-	-	-	-	-	-	-	-	-	-	-
19	Nagaland	10.00	10.00	NF	-	-	-	-	-	-	-	-	-	-
20	Orissa	3600.00	321.73	NF	10.40	NF	25.03	NF	36.06	NF	28.61	NF	50.51	NF

Contd...

Table 10: Year-wise Achievements of Irrigation Potential Created/Utilised under Major & Medium Irrigation of XI plan* by State
(’000 Hectare)

Sl. No	Name of State/ UT	Ultimate Irrigation Potential	XI Plan												
			Target		Achievement 2007-08		Achievement 2008-09		Achievement 2009-10		Likely achievement 2010-11		Target for 2011-12		
			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	
21	Punjab	3000.00	177.32	NF	43.51	NF	29.25	NF	NF	NF	NF	NF	NF	NF	NF
22	Rajasthan	2750.00	824.30	NF	124.20	NF	54.20	NF	59.85	NF	32.50	NF	34.50	NF	NF
23	Sikkim	20.00	-	-	-	-	-	-	-	-	-	-	-	-	-
24	TamilNadu	1500.00	NF	NF	4.23	NF	3.48	NF	4.00	NF	NF	NF	NF	NF	NF
25	Tripura	100.00	8.97	NF	1.01	NF	1.27	NF	3.85	NF	6.57	NF	3.03	NF	NF
26	Uttar Pradesh	12154.00	1170.00	1170.13	85.82	165.00	49.53	200.00	29.00	150.00	172.80	250.00	163.97	250.00	
27	Uttarakhand	346.00	-	-	-	-	-	-	-	-	-	-	-	-	-
28	West Bengal	2300.00	303.07	NF	NF	NF	5.00	NF	5.34	NF	30.97	NF	76.18	NF	NF
29	Union Territories	98.00	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Total		58465.00	12643.32	1536.36	1153.35	234.48	1114.63	219.19	488.49	180.58	944.54	289.81	2065.04	350.00	

Source : Planning Commission

* : Figures under reconciliation with states

NF: Not furnished by the State

Table 11: Year-wise Achievements of Irrigation Potential Created/Utilised under Minor Irrigation Projects of XI plan* by State

('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		Likely achievement 2010-11		Target for 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	6260.00	3092.42	2843.92	222.70	NF	58.40	NF	60.01	NF	33.84	NF	34.68	NF	55.46	NF
2	Arunachal Pradesh	168.00	114.37	86.61	42.00	NF	7.00	NF	4.35	NF	1.57	NF	2.46	NF	2.50	NF
3	Assam	1900.00	631.98	508.56	137.86	NF	11.45	NF	25.65	NF	45.46	NF	188.86	NF	154.57	NF
4	Bihar	5663.50	4758.78	3793.33	1384.00	NF	NF	NF	366.00	NF	NF	NF	NF	NF	400.00	NF
5	Chhattisgarh	571.00	556.76	378.11	604.00	NF	20.39	NF	60.40	NF	4.75	NF	120.00	NF	80.00	NF
6	Goa	54.00	24.39	20.92	2.70	2.30	0.27	0.23	0.31	0.26	0.11	0.09	0.56	0.46	0.30	0.25
7	Gujarat	3103.00	2019.42	1892.54	60.00	NF	1.98	2.94	16.27	NF	9.30	4.79	20.00	10.00	5.00	5.00
8	Haryana	1512.00	1637.67	1583.50	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
9	Himachal Pradesh	303.00	171.09	144.77	15.00	NF	2.70	NF	2.80	NF	3.63	NF	3.00	NF	3.00	NF
10	Jharkhand	1183.50	661.09	500.83	120.00	NF	15.52	NF	17.73	NF	10.32	NF	14.14	NF	26.87	NF
11	Jammu Kashmir	1108.00	390.35	367.63	3.34	3.34	23.76	20.53	31.09	NF	NF	NF	21.00	15.20	68.00	NF
12	Karnataka	3474.00	1641.89	1592.22	50.00	50.00	8.94	8.94	16.04	16.04	17.30	17.30	14.26	14.26	10.00	10.00
13	Kerala	1679.00	687.02	629.36	200.00	NF	20.00	NF	8.63	NF	26.00	NF	NF	NF	NF	NF
14	Madhya Pradesh	11361.00	2340.88	2217.28	267.00	NF	22.68	NF	49.48	NF	28.70	NF	46.30	NF	46.30	NF
15	Maharashtra	4852.00	3055.60	2648.12	276.00	NF		NF		NF	43.00	NF	NF	NF	52.00	NF
16	Manipur	469.00	92.69	73.30	22.30	NF		NF	7.50	NF	NF	NF	9.00	NF	11.50	NF
17	Meghalaya	148.00	61.57	53.89	16.50	NF	1.80	NF	2.03	NF	3.28	NF	4.33	NF	4.76	NF
18	Mizoram	70.00	21.26	14.95	21.26	NF	9.00	NF	9.00	NF	3.87	2.30	4.93	3.00	3.68	2.20
19	Nagaland	75.00	93.17	72.20	22.00	NF	0.78	NF	3.50	NF	9.61	NF	8.95	NF	8.50	NF
20	Orissa	5203.00	1648.91	1441.97	147.27	NF	33.40	NF	35.79	NF	53.25	NF	32.40	NF	62.20	NF
21	Punjab	2967.00	3430.08	3368.20	108.68	NF	26.67	NF	17.92	NF	NF	NF	NF	NF	NF	NF
22	Rajasthan	2378.00	2467.90	2374.44	70.47	NF	5.00	NF	5.87	NF	2.99	NF	3.00	NF	3.00	NF

Contd...

Table 11: Year-wise Achievements of Irrigation Potential Created/Utilised under Minor Irrigation Projects of XI plan* by State

('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		Likely achievement 2010-11		Target for 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	50.00	34.47	25.62	10.00	NF	1.50	NF	1.13	NF	1.14	NF	1.50	NF	1.50	NF
24	TamilNadu	4032.00	2137.33	2128.40	NF	NF	4.83	NF	52.83	NF	69.00	NF	NF	NF	NF	NF
25	Tripura	181.00	134.98	116.35	30.00	NF	2.13	NF	1.83	NF	1.97	NF	9.33	NF	11.63	NF
26	Uttar Pradesh	17481.00	23603.67	18871.32	2990.36	2218.39	520.05	406.10	407.96	312.53	275.90	208.30	240.00	165.20	261.50	179.20
27	Uttarakhand	518.00	518.75	408.84	187.36	NF	17.49	NF	23.00	NF	NF	NF	12.14	NF	13.97	NF
28	West Bengal	4618.00	4022.68	3282.25	174.00	NF	NF	NF	47.00	38.00	NF	NF	NF	NF	NF	NF
Total(States)		81382.00	60051.17	51443.44	7184.80	2274.03	815.72	438.74	1274.12	366.83	611.14	232.78	756.16	208.12	1230.78	196.65
29	A&N Islands		2.10	1.88	1.50	NF	0.35	NF	0.07	NF	0.07	NF	0.07	NF	0.04	NF
30	Chandigarh		0.30	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	0.04	NF	0.06	NF
32	Daman&Diu		17.76	10.44	2.00	NF	2.00	NF	2.00	NF	2.00	NF	2.00	NF	2.00	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)		46.00	51.12	38.26	3.95	0.00	2.35	0.00	2.13	0.00	2.10	0.00	2.11	0.00	2.10	0.00
Total(States&UT"s)		81428.00	60102.29	51481.70	7188.75	2274.03	818.07	438.74	1276.24	366.83	613.24	232.78	758.27	208.12	1232.88	196.65

Source : Planning Commission

*: Figures under reconciliation with states

NF: Not furnished by the State

**Table 12: Irrigation Potential Created ,Utilised and Gross Irrigated Area
by State, 2009-10**

('000 Hectare)

Sl. No.	Name of the State/UTs.	Potential Created Upto 2009-10			Potential Utilised * Upto 2009-10			Gross Irrigated Area* 2009-10	Gap (8)-(9)
		Major & Medium	Minor	Total	Major& Medium	Minor	Total		
1	2	3	4	5	6	7	8	9	10
1	Andhra Pradesh	3967	3245	7211	3245	2844	6089	5764	325
2	Arunachal Pradesh	1	127	128	1	87	87	56	31
3	Assam	349	715	1064	211	509	720	225	495
4	Bihar	2896	5125	8021	1815	3793	5608	4625	983
5	Chhattisgarh	1199	642	1842	948	378	1326	1487	-161
6	Goa	46	25	71	24	22	46	38	8
7	Gujarat	3095	2047	5142	1843	1900	3743	4933	-1190
8	Haryana	2206	1638	3843	1893	1584	3477	5545	-2068
9	Himachal Pradesh	23	180	203	8	145	153	188	-35
10	Jharkhand	411	705	1115	246	501	747	155	592
11	Jammu & Kashmir	205	445	650	181	392	573	480	93
12	Karnataka	2809	1684	4494	2225	1635	3859	4096	-237
13	Kerala	693	742	1434	591	629	1221	455	766
14	Madhya Pradesh	2197	2442	4638	1173	2217	3391	7162	-3771
15	Maharashtra	3780	3099	6878	2313	2648	4961	4352	609
16	Manipur	123	100	224	81	73	155	52	103
17	Meghalaya	0	69	69	0	54	54	74	-20
18	Mizoram	0	43	43	0	17	17	10	7
19	Nagaland	0	107	107	0	72	72	85	-13
20	Orissa	2046	1771	3817	1879	1442	3321	3197	124
21	Punjab	2647	3475	6122	2511	3368	5879	7714	-1835
22	Rajasthan	3100	2482	5582	2526	2374	4901	7309	-2408
23	Sikkim	0	38	38	0	26	26	18	8
24	Tamil Nadu	1574	2264	3838	1557	2128	3685	3238	447

Contd...

**Table 12: Irrigation Potential Created ,Utilised and Gross Irrigated Area
by State, 2009-10**

('000 Hectare)

Sl. No.	Name of the State/UTs.	Potential Created Upto 2009-10			Potential Utilised * Upto 2009-10			Gross Irrigated Area* 2009-10	Gap (8)-(9)
		Major & Medium	Minor	Total	Major & Medium	Minor	Total		
1	2	3	4	5	6	7	8	9	10
25	Tripura	20	141	161	10	116	127	106	21
26	Uttar Pradesh	8946	24808	33754	7324	19798	27123	18896	8227
27	Uttarakhand	289	559	848	191	409	600	567	33
28	West Bengal	1765	4070	5835	1574	3320	4894	5525	-631
Total States		44388	62752	107174	34370	52482	86852	85353	1499
Total U.Ts.		7	58	64	4	38	42	70	-28
Grand Total		44394	62810	107238	34374	52520	86894	86423	471

Source : (i) Planning Commission. (ii) Ministry of Agriculture (DE & S)

Note : Totals may not tally due to rounding off. * : Provisional

Table 13 (1) : Project -wise Irrigation Potential Created (IPC) under AIBP

('000 Hectare)

State	Sr. No	Project Name	Project Potential			Irrigation Potential created under AIBP during 2011-12	Potential Created under AIBP upto 3/2012
			Ultimate Potential	Created before AIBP	Target for AIBP		
1	2	3	4	5	6	7	8
Andhra Pradesh							
	C 1	Sriramsagar St.I	392.000	255.040	137.040		137.040
	C 2	Cheyeru(Annamaya)	7.890	0.000	9.105		9.105
	C 3	Priyadarshini Jurala	41.360	1.200	40.160		40.160
	C 4	Somasila	38.475	0.000	38.475		39.774
	C 5	Nagarjunsagar	89.280	848.850	27.944		27.944
	C 6	Madduvalasa	99.280	0.000	10.000		10.000
	C 7	Gundalavagu	1.045	0.000	1.045		1.045
	C 8	Maddigedda	2.520	1.105	1.415		1.415
	x 9	Kanupur Canal	7.638	7.077	0.561		0.000
	10.	Yerrakalva Res.	9.996	3.035	6.961		5.060
	C 11	Vamsdhara St-II Ph I	25.203	8.100	17.103		24.487
	12.	FFC of SRSP	40.000	0.000	40.000		0.000
	13.	SRSP St.II	178.066	0.000	178.066		119.416
	14.	Tadipudi LIS	83.609	0.000	83.609		50.601
	15.	Pushkara LIS	75.235	4.051	71.184		48.559
	16.	Ralivagu	2.428	0.000	2.428		1.012
	17.	Gollavagu	3.845	0.000	3.845		0.607
	18.	Mathadivagu	3.440	0.000	3.440		2.024
	19.	Peddavagu	6.073	0.000	6.073		0.000
	20.	Gundlakdamma	32.400	0.000	32.400		23.440
	C 21	Veligallu	9.713	0.000	9.713		9.713
	C 22	Alisagar LIS	21.770	0.000	21.770		21.769
	23.	J. Chokka Rao LIS	249.000	0.000	249.000		16.188
	C 24	Guthpa LIS	15.698		15.698		15.698
	25.	Neelwai	5.260	0.000	5.260		0.000
	26	Sri Komaram Bheem	9.915	0.000	9.915		0.000
	27.	Thotapally Barrage	48.563	0.000	48.563		25.900
	28	Tarakarama thirtha Sagaram	10.000	0.000	10.000		0.000
	C 29	Swarnamukhi	4.656	0.000	4.656		3.651
	30	Palemvagu	4.100	0.000	4.100		0.000
	31.	Musurumilli	9.164	0.000	9.164		6.537
	32	Rajiv Bhima LIS	82.153	0.000	82.153		0.000
	33.	Indira Sagar (Polavaram)	436.000	0.000	436.000		0.000
	Total		2045.775	1128.458	1616.846	0.000	641.145
Assam							
	C 1	Pahumara	12.955	1.200	11.755		10.551
	C 2	Hawaiipur lift	3.887	0.000	3.887		3.887
	C 3.	Rupahi Lift	5.668	0.000	2.768		2.768
	4.	Dhansiri	83.366	15.000	68.366		41.258

Contd..

Table 13 (1) : Project -wise Irrigation Potential Created (IPC) under AIBP

('000 Hectare)

State	Sr. No	Project Name	Project Potential			Irrigation Potential created under AIBP during 2011-12	Potential Created under AIBP upto 3/2012	
			Ultimate Potential	Created before AIBP	Target for AIBP			
1	2	3	4	5	6	7	8	
Bihar	5.	Champamati	24.994	0.000	24.994		9.746	
	6.	Borolia	13.562	0.000	13.562		3.300	
	C 7	Bordikarai	34.042	25.452	7.406		7.203	
	8.	Burhi Dihing lift	5.054	0.564	4.490		2.425	
	C 9	Intg. Irr. Scheme in Kollong Basin	34.400	25.753	8.647		3.775	
	C 10	Kolonga @	2.690	0.000	2.690		0.000	
	C 11	Mod. Of Jamuna Irr.	42.014	28.256	13.758		12.700	
	Total			262.632	96.225	162.323	0.000	97.613
								0.000
		1.	Western Kosi	234.800	22.750	212.050		145.675
		C 2	Upper Kiul	19.000	7.320	11.680		10.180
	3.	Durgawati	36.317	16.020	20.297		3.300	
		Bansagar [IS]	94.000	0.000	94.000		0.000	
	C 4	Orni Reservoir	9.717	0.160	9.557		9.459	
	C 5.	Bilasi Reservoir	4.000	0.000	4.000		4.000	
	C 6	Sone Modernisation	900.000	585.420	314.580		290.580	
	7.	Batane	12.126	7.320	4.806		0.000	
	8.	Punpun	13.680	0.000	13.680	0.000	0.000	
	C 9	Restoration of Kosi Barrage and its appurtenants for sustaining created irrigation Potential (ERM)	0.000	792.000	0.000		0.000	
	Total		1323.640	1430.990	684.650	0.000	463.194	
Chhattisgarh							0.000	
	C 1	Hasdeo Bango	392.000	122.500	86.500		86.500	
	C 2	Shivnath Diversion	5.870	0.632	5.238		5.238	
	C 3	Jonk Diversion	14.569	5.000	9.569		7.870	
	4.	Koserteda	11.120	0.000	11.120		6.500	
	C 5	Mahanadi Res Project	264.311	250.428	13.883		13.760	
	C 6	Barnai	2.820	1.312	1.508		1.508	
	C 7	Minimata (Hasdeo Bango Ph. IV)	40.874	2.474	38.400		38.400	
	8.	Kelo Project	22.810	0.000	22.810		0.000	
	9.	Kharung(ERM)	15.800	5.500	10.300	4.000	5.000	
	10.	Sutiapat	6.960	4.060	2.900	0.600	0.600	
	11.	Maniyari Tank (ERM)	14.515	3.037	11.478			
	Total		791.649	391.906	213.706	4.600	165.376	
Goa							0.000	
	C 1	Salauli Ph-I	14.106	4.806	9.300		9.300	
	2.	Tillari	14.521	0.000	14.521	0.170	8.747	
	Total		28.627	4.806	23.821	0.170	18.047	

Contd..

Table 13 (1) : Project -wise Irrigation Potential Created (IPC) under AIBP

('000 Hectare)

State	Sr. No	Project Name	Project Potential			Irrigation Potential created under AIBP during 2011-12	Potential Created under AIBP upto 3/2012
			Ultimate Potential	Created before AIBP	Target for AIBP		
1	2	3	4	5	6	7	8
Gujarat							0.000
	1.	Sardar Sarovar	1792.000	0.000	1792.000	21.267	545.276
	C 2	Jhuj	5.810	2.912	2.907		2.907
	C 3	Sipu	22.080	19.665	1.016		1.016
	C 4	Mukteshwar	6.190	0.565	5.066		5.066
	C 5	Harnav - II	3.440	2.940	0.000		0.000
	C 6	Umaria	2.370	2.062	0.162		0.162
	C 7.	Damanganga	51.650	42.594	6.686		6.686
	C 8	Karjan	70.380	55.730	5.989		5.989
	C 9	Sukhi	25.250	21.585	3.488		3.488
	C 10	Deo	8.530	7.580	0.103		0.103
	C 11	Watrak	16.870	12.574	3.714		3.714
	C 12	Aji-IV	3.750	0.000	3.750		3.750
	C 13	Ozat-II	9.400	0.000	1.800		3.338
	C 14	Brahmini-II	2.062	0.000	2.062		2.062
	C 15	Bhadar-II	8.570	0.000	1.500		6.000
	Total		2028.352	168.207	1830.243	21.267	589.557
Haryana							0.000
	C 1	Gurgaon canal #	81.000	61.000			0.000
	C 2	WRCP	155.500	23.530	131.970		115.222
	x 3	J. L. N. Lift Irr.	164.000	95.000	69.000		0.000
	Total		400.500	179.530	200.970	0.000	115.222
Himachal Pradesh							0.000
	1.	Shahnehar Irr. project	24.760	0.000	24.760		18.026
	2.	Sidhata	5.350	0.000	5.350		0.823
	3.	Changer Lift	3.041	0.000	3.041		3.041
	4.	Balh Vally (Left Bank)	4.354	0.000	4.354		0.940
	Total		37.505	0.000	37.505	0.000	22.830
J&K							0.000
	C 1.	Marwal Lift*	11.420	0.030	11.390		0.000
	C 2	Lethpora Lift*	3.200	0.542	2.658		2.656
	C 3.	Koil Lift*	2.300	0.150	2.150		0.000
	4.	Mod. of Ranbir Canal*	15.266	1.600	13.666		7.442
	5.	Mod. of New Pratap Canal	13.309	10.511	2.619		2.348
	C 6	Mod. of Kathua Canal	3.300	0.093	3.207		3.207
	7.	Rajpora Lift	2.430	0.000	2.430		1.593
	8.	Tral Lift	6.000	0.000	6.000		0.910
	C 9	Igophey	4.373	0.900	3.473		3.473
	C 10	Rafiabad High Lift Irr.	2.932	0.000	2.932		2.932
	C 11.	Mod. of Zaingir Canal	2.140	0.000	2.140		2.140

Contd..

Table 13 (1) : Project -wise Irrigation Potential Created (IPC) under AIBP

('000 Hectare)

State	Sr. No	Project Name	Project Potential			Irrigation Potential created under AIBP during 2011-12	Potential Created under AIBP upto 3/2012
			Ultimate Potential	Created before AIBP	Target for AIBP		
1	2	3	4	5	6	7	8
	12.	Mod. Of Dadi Canal	4.650	2.077	2.573		1.973
	C 13	Mod. Of Martand Canal	6.498	4.709	1.789		1.789
	C 14	Mod. Of Mav Khul	9.352	6.806	2.547		2.547
	C 15	Mod. of Babul Canal	3.077	2.388	0.689		0.289
	16.	Mod. Kandi Canal	3.229	0.000	3.229		0.000
	17.	Prakachik Khows Canal	2.262	0.000	2.262		0.400
	18.	Mod. Of Ahji Canal	8.316	6.101	2.215		0.730
	19.	Restoration & Mod. Of Main Ravi Canal	50.749	12.232	38.517		0.000
	Total		154.803	48.139	106.486	0.000	34.429
Jharkhand							0.000
	1.	Gumani	16.194	0.000	16.194		0.000
	x 2	Torai +	8.000	0.000	8.000		0.000
	C 3.	Latratu	9.900	3.800	6.100		6.100
	C 4	Kansjore	6.264	0.000	6.264		6.264
	5.	Sonua	8.008	0.000	8.008		0.000
	6.	Surangi	2.601	0.000	2.601		0.000
	C 7.	Tapkara Reservoir	1.860	0.041	1.819		1.520
	8.	Upper Sankh	7.069	0.000	7.069		0.400
	9.	Panchkhero	3.085	0.000	3.085		0.000
	10.	Subernarekha Multipurpose	236.846	2.200	234.646		
	Total		299.827	6.041	293.786	0.000	14.284
Karnataka							0.000
	1.	Upper Krishna St.I	458.894	215.000	243.904		148.799
	2.	Malaprabha	218.190	161.556	48.090		49.031
	C 3	Hirehalla	8.330	0.000	8.330		4.180
	C 4	Ghataprabha St.III	177.822	38.098	148.800		111.574
	5.	Karanja	35.640	4.674	30.966		18.119
	6.	Upper Krishna St.II	226.688	18.799	178.321		165.247
	C 7	Gandori Nala	8.094	0.000	8.094		7.943
	C 8	Maskinallah	3.001		3.001		3.502
	C 9	Votehole	7.487	7.487	0.000		0.000
	10.	Varahi	15.702	0.142	15.560		0.383
	11.	Dudhganga	15.167	3.800	11.367		0.000
	12.	Mod. Canal System of Bhadra Reservoir Canal System (ERM)	177.337	153.223	24.114		147.561
	13.	Hipparagi LIS	74.742	0.000	74.742		31.813
	14.	Restoration Bhimasamundra Tank	3.600	2.800	0.800		0.000
	15.	Bhima LIS	24.292	0.000	24.292		0.581
	16.	Guddada Malapura Lift	5.261	0.000	5.261		0.000
	Total		1460.247	605.579	825.642	0.000	688.733

Contd..

Table 13 (1) : Project -wise Irrigation Potential Created (IPC) under AIBP

('000 Hectare)

State	Sr. No	Project Name	Project Potential			Irrigation Potential created under AIBP during 2011-12	Potential Created under AIBP upto 3/2012
			Ultimate Potential	Created before AIBP	Target for AIBP		
1	2	3	4	5	6	7	8
Kerala							0.000
	C 1	Kallada	80.579	43.778	9.276		9.276
	2.	Muvattupuzha	37.737	4.900	32.105	0.268	25.654
	3.	Karapuzha	9.874	0.000	9.874	0.000	0.608
	4.	Kanhirapuzha	9.714	8.467	1.247	1.060	1.240
	5.	Chitturpuzha	16.940	11.976	4.964	6.226	6.226
	Total		154.844	57.145	57.466	7.554	43.004
Madhya Pradesh							0.000
	1.	Indira Sagar Unit- I	0.000				0.000
		Indira Sagar Unit- II (CCA)	169.000	0.000	62.200	6.121	41.727
	C 2	Bansagar Unit-I	0.000	0.000	0.000		0.000
		Bansagar Unit-II (CCA)	249.359	0.000	154.543	30.660	128.744
	C 3	Upper Wainganga	105.300	70.000	28.255		28.255
	C C	Rajghat Dam	0.000	0.000	0.000		0.000
	4.	Sindh Phase II	162.100	3.053	159.047	2.175	79.429
	C 5	Sindh Phase I	44.900	31.984	10.580		5.212
	6.	Mahi	26.430	0.000	26.430	2.000	26.430
	7.	Bariarpur LBC	43.850	0.000	43.850	8.000	32.460
	C 8	Urmil R.B.C.	7.700	4.877	2.123		2.123
	C 9.	Banjar	2.400	1.334	1.095		1.095
	10.	Bawanthadi	29.412	0.000	29.412	1.000	28.018
	11.	Mahan	19.740	0.000	19.740	4.254	9.000
	12.	Omkareshwar Phase I (CCA)	24.000	0.000	24.000		10.800
	13.	Bargi Diversion Ph - I		0.000	21.194		15.248
		Bargi Diversion Ph -II	245.000	0.000	31.899	0.800	21.584
		Bargi Diversion Ph -I I I		0.000	26.000	0.000	0.000
	14.	Pench Div-I	96.959	0.000	28.268		0.000
		Omkareshwar, Ph.-II	19.578	0.000	19.578		0.300
		Omkareshwar, Ph.-III	48.592	0.000	48.592	16.195	17.200
		Indira Sagar Canal Ph. III	20.700	0.000	20.700	0.000	0.000
	15.	Upper Beda	9.917	0.000	9.917	1.301	8.694
	16.	Punasa LIS	35.008	0.000	35.008	5.000	17.600
	17.	Lower Goi	15.686	0.000	15.686	0.000	0.000
		Indira Sagar Unit IV	19.600	0.000	19.600	0.000	0.000
		Bargi Diversion Ph-IV		0.000	34.000	0.000	0.000
	18.	Jobat	9.848	7.000	2.848	0.548	2.048
	19.	Sagar(Sagad)	17.061	0.000	17.061	0.000	0.000
	20.	Singhpur	10.200	0.000	10.200	0.000	0.000
	21.	Sanjay Sagar (Bah)	17.807	0.000	17.807	0.000	0.000
	Total		1450.147	118.248	919.633	78.054	475.967

Contd..

Table 13 (1) : Project -wise Irrigation Potential Created (IPC) under AIBP

('000 Hectare)

State	Sr. No	Project Name	Project Potential			Irrigation Potential created under AIBP during 2011-12	Potential Created under AIBP upto 3/2012
			Ultimate Potential	Created before AIBP	Target for AIBP		
1	2	3	4	5	6	7	8
Maharashtra							0.000
	1.	Gosikhurd	250.800	0.000	231.081		25.185
	C 2	Surya	27.190	22.088	2.968		0.460
	3.	Waghur	38.570	0.000	38.570	0.140	13.655
	C 4.	Bhima	259.540	184.441	58.758		44.017
	C 5	Upper Tapi #	55.140	50.500	1.398		1.398
	C 6	Upper Wardha	75.080	37.822	37.258		34.522
	C 7	Wan	19.177	3.902	15.275		14.921
	C 8	Jayakwadi Stage-II	129.690	89.143	7.273		7.273
	C 9	Vishnupuri	33.724	15.630	2.636		2.636
	C 10	Bahula	4.654	0.352	4.302		1.668
	C 11	Krishna	74.000	54.412	19.588		19.588
	C 12	Kukadi (CCA)	156.278	103.135	53.143		40.715
	13.	Upper Manar(W)	8.280	0.000	8.280	2.503	4.339
	C 14	Hetwane	6.668	0.500	6.168		0.546
	C 15	Chaskaman	32.824	6.635	26.189		24.996
	16.	Upper Penganga	116.728	70.959	44.472	1.188	26.301
		Bawanthadi	27.708	0.000	27.708	1.500	26.203
	17.	Lower Dudhna (W)	44.482	0.000	44.482	7.456	18.275
		Tillari (Maharashtra Portion)(W)	6.676	0.106	6.570		4.757
	18.	Warna	150.882	3.558	54.749		5.875
	C 19	Wan - II	19.177	13.747	5.080		0.000
	20.	Punad	10.846	0.000	10.846	1.027	8.902
	C 21	Pothra Nalla	9.380	4.221	5.159		5.159
	C 22	Utawali	5.394	0.320	5.074		5.074
	C 23	Purna (W)	7.530	0.023	7.507		7.507
	C 24	Nandur Madhmeshwar	45.123	20.500	24.623		32.246
	C 25	Kar (W)	6.744	3.500	3.244		1.675
	26.	Lower Wardha (W)	63.333	0.000	63.333	2.000	17.379
	C 27	Lal Nalla (W)	7.290	0.146	7.144		3.421
	28.	Khadakpurna (W)	24.864	0.000	24.864	2.200	13.900
	C 29	Arunavati (W)	24.003	23.234	0.769		0.769
	C 30	Tajnapur LIS	3.622	0.000	3.622		4.471
	C 31	Khadakwasla	62.146	61.522	0.624		0.624
	C 32	Kadvi	9.220	8.855	0.365		0.365
	C 33	Kasarsai	4.119	1.083	3.036		3.036
	C 34	Jawalgaon	5.341	3.506	1.807		1.807
	C 35	Kumbhi	8.711	3.277	5.434		3.604
	C 36	Kasari	9.458	8.223	1.235		1.235
	C 37	Patgoan	8.100	6.108	1.992		1.992

Contd..

Table 13 (1) : Project -wise Irrigation Potential Created (IPC) under AIBP

('000 Hectare)

State	Sr. No	Project Name	Project Potential			Irrigation Potential created under AIBP during 2011-12	Potential Created under AIBP upto 3/2012
			Ultimate Potential	Created before AIBP	Target for AIBP		
1	2	3	4	5	6	7	8
	C 38	Madan Tank	3.280	0.000	3.28		1.200
	39.	Dongargaon Tank	3.942	1.176	2.766		1.977
	C 40	Shivna Takli	6.389	0.000	6.389		6.390
	C 41	Amravati	2.606	0.000	2.606		2.000
	42.	Gul	3.025	0.000	3.025		1.331
	43.	Bembla	52.543	0.000	52.543	6.356	34.519
	C 44	Chandarbhaga	6.732	4.808	1.920		1.924
	C 45	Sapan	6.380	1.954	4.426		2.781
	46.	Uttermand	5.280	0.550	4.730		3.145
	47.	Sangola Branch Canal	11.288	0.000	11.288		5.815
	C 48	Pentakli	14.332	11.112	3.220		2.100
	49.	Tarali	14.276	0.000	14.276	1.266	3.766
	50.	Dhom Balakwadi	18.100	0.000	18.100	0.909	5.680
	51.	Morna (Gureghar)	3.075	0.000	3.075		0.085
	52.	Arjuna	9.411	0.000	9.411	0.000	0.868
	C 53	Prakasha Barrage	10.307	0.000	10.307		10.307
	C 54	Sulwade Barrage	8.582	0.000	8.582		8.582
	C 55	Sarangkheda	11.519	0.000	11.519		11.519
	56.	Lower Pedhi	17.023	0.000	17.023	0.000	0.000
	57.	Upper Kundalika	2.800	0.000	2.800	0.100	0.100
	58.	Wang Project	7.068	0.000	7.068		0.615
	59.	Lower Panzara	7.585	0.800	6.785	0.780	2.075
	60.	Aruna	9.027	0.000	9.027	0.000	0.000
	61.	Krishna Koyana Lift	109.127	4.960	104.167	12.018	20.267
	62.	Naradave (Mahammadwadi)	8.084	0.160	7.924	0.075	0.462
	63.	Gadnadi	4.296	0.823	3.473	0.000	0.500
	64.	Kudali	5.327	0.000	5.327	0.000	0.000
		Nandur Madhmeshwar Ph-II	20.500	0.000	20.500	0.000	0.000
	Total		2234.396	827.791	1222.183	39.518	558.504
Manipur							0.000
	1.	Khuga	15.000	0.000	15.000	0.000	10.000
	2.	Thoubal	33.449	4.000	29.449		10.861
	3.	Dolaithabi Barrage	7.545	0.000	7.545		0.000
	Total		55.994	4.000	51.994	0.000	20.861
Meghalaya							0.000
	x 1	Rangai Valley	4.775	0.000	4.775		0.000
	Total		4.775	0.000	4.775	0.000	0.000
Orissa							0.000
	1.	Upper Indravati(KBK)	86.389	0.000	86.389		66.338

Contd..

Table 13 (1) : Project -wise Irrigation Potential Created (IPC) under AIBP

('000 Hectare)

State	Sr. No	Project Name	Project Potential			Irrigation Potential created under AIBP during 2011-12	Potential Created under AIBP upto 3/2012
			Ultimate Potential	Created before AIBP	Target for AIBP		
1	2	3	4	5	6	7	8
	2.	Subernarekha	187.462	4.326	183.136		39.858
	3.	Rengali	143.490	0.000	143.490		22.515
	4.	Anandpur Barr. Ph.-I / Integrated Anandpur Barr.	65.877	40.800	5.877		5.877
	C 5	Upper Kolab(KBK)	88.760	68.010	21.400		21.400
	C 6	Titlagarh St-II (KBK)	2.670	0.470	2.200		2.700
	7.	Lower Indra(KBK)	38.870	0.000	38.870		17.160
	8.	Lower Suktel(KBK)	40.424	0.000	40.424		0.000
	C 9	Potteru(KBK)	109.880	102.600	7.280		7.280
	C 10	Naraj Barrage	0.000	0.000	0.000		0.000
	11.	Telengiri(KBK)	13.829	0.000	13.829		0.000
	12.	RET Irrigation(KBK)	8.500	0.000	8.500		0.000
	13.	Kanupur	29.578	0.000	29.578		0.000
	14.	Chheligada Dam	3.000	0.000	3.000		0.000
	C 15	Improvement to Sason Canal System	0.000	0.000	16.282		16.282
	C 16	Salandi Left Main Canal- 6.84 km - 14.33 km (Ambahata Canal)	0.000	0.000	3.650		3.650
	C 17	Improvement to Salki Irrigation	0.000	0.000	20.140		20.140
	18.	Rukura-Tribal	7.648	0.000	7.648		0.000
	Total		826.377	216.206	631.693	0.000	223.200
Punjab							0.000
	C 1.	Ranjit Sagar Dam	0.000	0.000	0.000		0.000
	C 2	Remodelling of UBDC \$	118.000	0.000	118.000		100.990
	C 3	Irr. to H.P. below Talwara	0.000	0.000	0.000		0.000
	4.	Shahpur Kandi Dam [NP]	0.000	0.000	0.000		0.000
	5.	Kandi Canal Extension (Ph.II) \$	23.326	0.000	23.326	0.000	17.728
	6.	Rehabilitation of Ist Patiala Feeder and Kotla Branch Project	68.624	0.000	68.624	0.000	61.600
	7.	RF Relining of Rajasthan Feeder Cannal & Sirhind Feeder Canal [RD 179000 to RD 496000]	93.117	0.000	93.117	0.000	0.000
	SF		34.548	0.000	34.548	0.000	0.000
	Total		337.615	0.000	337.615	0.000	180.318
Rajasthan							0.000
	C 1.	Jaismand (Modernisation)	8.353	4.634	2.398		2.398
	C 2	Chhapi	7.000	0.000	6.991		6.556
	C 3	Panchana	10.606	4.500	6.106		6.106
	4.	IGNP Stage-II			1071.000		407.000
	C 5.	Bisalpur	55.224	0.000	1.800		1.800
	6.	Narmada Canal	245.881	0.000	245.881	11.000	216.093
	C 7.	Gambhiri (Modernisation)	4.770	2.532	0.925		0.925
	C 8	Chauli	8.963	0.000	8.963		8.960

Contd..

Table 13 (1) : Project -wise Irrigation Potential Created (IPC) under AIBP

('000 Hectare)

State	Sr. No	Project Name	Project Potential			Irrigation Potential created under AIBP during 2011-12	Potential Created under AIBP upto 3/2012
			Ultimate Potential	Created before AIBP	Target for AIBP		
1	2	3	4	5	6	7	8
	C 9	Mahi Bajaj Sagar	71.200	52.794	18.406		18.406
	10.	Mod. of Gang Canal	96.510	5.646	69.694	0.925	68.328
	Total		508.507	70.106	1432.164	11.925	736.572
Tripura							0.000
	1.	Manu	7.600	0.000	7.600		3.185
	2.	Gumti	9.800	2.180	7.620		4.765
	3.	Khowai	9.320	0.000	9.320		8.642
	Total		26.720	2.180	24.540	0.000	16.592
Tamilnadu							0.000
	C 1.	WRCP	0.000		0.000		0.000
	Total		0.000	0.000	0.000	0.000	0.000
Uttar Pradesh							0.000
	C 1	Upper Ganga including	187.000	132.820	18.270		18.270
		Madhya Ganga Canal			35.905		34.107
	C 2	Sarda Sahayak	1925.100	1536.640	388.460		366.680
	3.	Saryu Nahar	1076.000	92.000	505.000		563.800
	C 4	Providing Kharif Channel in H.K. Doab	11.600	0.000	11.040		11.038
	C 5	Rajghat Dam	0.000	0.000	0.000		0.000
	C 6	Gunta Nala Dam	3.880	0.000	3.880		3.880
	7.	Bansagar Canal	150.132	0.000	150.132		0.000
	C 8	Gyanpur Pump Canal	37.260	35.760	1.500		1.500
	C 9	Eastern Ganga Canal	105.000	32.714	72.286		69.125
	C 10	Rajghat Canal	138.661	77.571	43.353		41.005
	C 11	Mod. of Agra Canal	50.000	15.000	35.000		37.800
	C 12	Jarauli Pump Canal	39.750	0.000	39.748		17.625
	13.	Mod. of Lachhura Dam	46.485	31.910	14.575		31.910
	14.	Improving Irr. Intensity of Hardoi Branch System	95.961	0.000	95.961		83.188
	15.	Madhya Ganga Canal Ph-II	146.532	0.000	146.532		33.960
	16.	Kachnoda Dam	10.850	0.000	10.850		3.255
	17.	Arjun Shyak	59.485	15.104	44.381		0.000
	18.	Restoring Cap. of Sarda Sahayak [NP]	790.000	0.000	790.000		105.560
	Total		4873.696	1969.519	2406.873	0.000	1422.703
Uttrakhand							0.000
	x 1	Lakhwar Vyasi	40.000	0.000	0.000		0.000
	C 2	Tehri	270.000	0.000	270.000		0.000
	Total		310.000	0.000	270.000	0.000	0.000
West Bengal							0.000
	1.	Teesta Barrage	526.688	79.610	342.150		88.660
	C 2.	Kangsabati	401.660	319.600	82.060		17.800

Contd..

Table 13 (1) : Project -wise Irrigation Potential Created (IPC) under AIBP

('000 Hectare)

State	Sr. No	Project Name	Project Potential			Irrigation Potential created under AIBP during 2011-12	Potential Created under AIBP upto 3/2012
			Ultimate Potential	Created before AIBP	Target for AIBP		
1	2	3	4	5	6	7	8
	C 3	Mod. of Barrage and Irri. System of DVC	8.000	0.000	8.000		4.896
	4.	Tatko	2.494	1.296	1.198		0.674
	5.	Patloi	2.158	0.000	2.158		0.270
	C 6	Hanumata	2.766	1.512	1.254		1.189
	7.	Subarnarekha Barrage	114.198	0.000	114.198		0.000
Total			1057.964	402.018	551.018	0.000	113.489
294.		Grand Total	20674.592	7734.601	13905.932	163.088	6641.639

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

C : Completed

X : Deferred

Table 13(ii) : Year-wise Irrigation Potential Created by Major and Medium Irrigation Projects under AIBP

('000 Hectare)

State	Project Potential			Potential Created under AIBP during																Potential Created under AIBP upto 3/2012
	Ultimate Potential	Created before AIBP	Target for AIBP	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	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Andhra Pradesh	2045.775	1128.458	1616.846	0	18.66	40.665	16.921	8.839	36.449	75.825	11.288	14.121	82.505	48.422	91.499	85.4225	11.296	99.232	0	641.145
Assam	262.632	96.225	162.323	1.130	4.446	4.725	7.900	7.206	7.999	3.653	3.950	4.118	2.692	2.800	4.326	8.795	7.162	26.711	0.000	97.613
Bihar	1323.640	1430.990	684.650	1.180	0.000	8.000	7.791	13.525	43.299	47.950	44.785	60.377	174.648	44.770	6.400	10.000	0.469	0.000	0.000	463.194
Chhattisgarh	791.649	391.906	213.706	0.000	0.000	0.000	3.500	2.696	36.192	19.207	11.906	15.969	11.646	11.940	15.820	18.862	10.205	2.833	4.600	165.376
Goa	28.627	4.806	23.821	0.000	0.000	1.479	0.539	0.147	0.893	1.716	2.920	1.800	0.252	0.414	4.891	1.500	0.526	0.800	0.170	18.047
Gujarat	2028.352	168.207	1830.243	16.120	20.383	36.529	28.438	40.616	15.355	11.980	61.364	77.946	34.087	81.840	68.197	20.885	25.658	28.892	21.267	589.557
Haryana	400.500	179.530	200.970	12.090	12.400	14.970	21.120	11.230	12.320	3.266	2.956	7.885	6.896	10.089	0.000	0.000	0.000	0.000	0.000	115.222
Himachal Pradesh	37.505	0.000	37.505	0.000	0.000	0.243	0.243	0.332	0.165	0.324	0.486	0.486	0.486	3.533	3.335	4.146	4.042	5.011	0.000	22.830
J&K	154.803	48.139	106.486	0.000	0.000	0.000	0.622	0.878	2.428	5.587	2.620	1.076	1.319	1.190	4.523	4.737	4.231	5.218	0.000	34.429
Jharkhand	299.827	6.041	293.786	0.000	0.000	1.800	1.400	1.800	3.600	2.020	1.000	0.000	0.000	0.500	0.000	0.000	0.507	1.657	0.000	14.284
Karnataka	1460.247	605.579	825.642	0.770	3.105	7.190	8.481	4.816	66.920	54.970	129.232	69.148	50.478	76.012	21.732	42.012	108.121	45.746	0.000	688.733
Kerala	154.844	57.145	57.466	0.426	1.578	0.000	0.802	1.646	5.924	4.800	9.219	4.995	0.646	2.712	0.953	0.117	1.632	0.000	7.554	43.004
Madhya Pradesh	1450.147	118.248	919.633	0.000	0.000	0.000	5.000	9.473	9.318	16.680	11.161	51.298	18.981	15.449	82.060	49.832	37.554	91.107	78.054	475.967
Maharashtra	2234.396	827.791	1222.183	0.460	26.938	24.124	11.981	21.548	10.490	12.899	27.587	35.971	39.626	50.327	78.147	77.356	68.944	32.588	39.518	558.504
Manipur	55.994	4.000	51.994	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.000	5.921	4.140	1.800	4.000	0.000	20.861
Meghalaya	4.775	0.000	4.775	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Orissa	826.377	216.206	631.693	1.312	17.221	13.541	8.725	13.039	6.409	4.070	40.000	15.518	4.150	4.605	14.401	10.731	29.373	40.105	0.000	223.200
Punjab	337.615	0.000	337.615	0.000	0.000	0.000	0.000	14.160	79.750	2.090	0.000	4.990	4.534	4.666	4.796	27.442	12.890	25.000	0.000	180.318
Rajasthan	508.507	70.106	1432.164	0.825	51.620	58.987	34.774	12.700	29.095	37.363	50.367	55.327	79.191	60.148	127.465	52.000	44.000	30.785	11.925	736.572
Tripura	26.720	2.180	24.540	0.620	0.210	0.100	0.670	0.750	0.890	0.000	0.000	0.519	2.050	3.008	1.725	1.266	4.273	0.511	0.000	16.592
Tamilnadu	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Uttar Pradesh	4873.696	1969.519	2406.873	29.020	42.610	38.200	56.100	351.230	68.220	78.860	30.069	93.549	111.300	88.616	79.650	105.178	37.343	212.758	0.000	1422.703
Uttarakhand	310.000	0.000	270.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
West Bengal	1057.964	402.018	551.018	11.700	3.150	10.000	11.346	16.249	10.135	5.428	2.545	2.474	5.153	2.309	7.6	4.85	5.28	15.27	0	113.489
Grand Total	20674.592	7727.094	13905.932	75.653	202.321	260.553	226.353	532.880	445.851	388.688	443.455	517.567	630.640	518.350	623.441	529.272	415.306	668.223	163.088	6641.639

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

Table 13(iii) : Year-wise Central Assistance releases to States for Major, Medium, ERM Projets for the period 1996-97 to 2012-13 under AIBP

(Rs. In crores')

Sr. No	State	CLA released	Grant released									Cumulative CLA/Grant released
		Total upto 2004-05	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total upto 31.03.2013
1	2	3	4	5	6	7	8	9	10	11	12	13
1.	ANDHRA PRADESH	930.614	26.264	311.382	816.422	987.769	623.520	1300.728	22.792	256.131	0.000	5275.622
2.	ASSAM	98.052	0.068	12.600	0.000	15.190	83.250	12.004	49.500	46.965	0.000	317.627
3.	BIHAR	454.901	11.165	16.238	3.230	58.690	74.854	77.913	23.400	0.000	0.000	720.390
4.	CHHATISGARH	267.328	0.878	7.665	0.000	37.394	42.020	44.847	43.012	22.252	15.525	480.919
5.	GOA	130.855	0.195	0.000	1.910	32.480	39.230	20.250	20.000	20.250	8.000	273.170
6.	GUJARAT	4107.172	45.750	339.600	121.889	585.720	258.610	6.080	361.420	0.000	1285.934	7112.174
7.	HARYANA	78.030	3.341	6.000	3.170	0.000	0.000	0.000	0.000	0.000	0.000	90.540
8.	HIMACHAL PRADESH	60.108	1.589	16.057	2.220	70.540	81.810	52.860	11.121	82.590	0.000	378.894
9.	JAMMU & KASHMIR	75.794	6.574	24.763	18.247	94.040	95.309	13.674	38.297	61.650	12.707	441.055
10.	JHARKHAND	77.813	6.386	5.037	1.290	9.224	3.720	0.000	11.240	335.540	515.721	965.970
11.	KARNATAKA	2269.010	81.503	140.776	160.373	349.900	442.419	773.471	533.121	452.236	207.357	5410.165
12.	KERALA	123.698	14.832	9.359	16.647	0.000	0.905	3.812	10.017	0.000	0.000	179.270
13.	MADHYA PRADESH	1866.694	155.010	168.097	25.810	386.200	418.913	585.373	456.189	262.177	491.510	4815.973
14.	MAHARASHTRA	973.882	158.786	267.986	395.221	892.307	1535.760	1395.386	1812.912	1122.682	840.175	9395.097
15.	MANIPUR	102.900	10.350	70.304	138.072	54.180	182.113	0.000	209.497	0.000	375.000	1142.415
16.	MEGHALAYA	4.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.000
17.	ORISSA	873.161	7.267	147.999	134.105	609.489	705.097	826.243	563.827	614.947	14.818	4496.953
18.	PUNJAB	415.470	0.000	26.317	0.000	13.500	9.540	22.050	140.476	43.630	0.000	670.983
19.	RAJASTHAN	1387.427	105.871	90.295	11.600	156.530	178.620	143.407	41.920	3.375	0.000	2119.045
20.	TRIPURA	30.920	2.700	16.200	0.940	0.000	22.669	4.860	48.000	0.000	0.000	126.288
21.	TAMILNADU	20.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	20.000
22.	UTTAR PRADESH	1337.289	42.276	108.105	81.895	150.690	315.473	238.081	432.738	279.844	144.638	3131.029
23.	UTTRAKHAND	574.230	10.500	25.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	609.753
24.	WEST BENGAL	166.133	4.035	0.029	6.700	0.830	22.810	0.914	81.000	102.546	0.000	384.997
	Grand Total	16425.477	695.338	1809.829	1939.741	4504.674	5136.641	5521.955	4910.478	3706.8134	3911.384	48562.329

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

Table 14(i) : Number of Major, Medium and ERM Irrigation Projects in India by State

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	30	1	45	69	7	14	10	NR
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	Chhattisgarh	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	0	0	0	6	10	2	0	0	0
11	Jharkhand	0	1	0	NR	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

Contd...

Table 14(i) : Number of Major, Medium and ERM Irrigation Projects in India by State

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
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	NR	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	0	0	0	7	39	0	0	0	0
25	Tripura	0	0	0	NR	NR	NR	0	0	0	NR	NR	NR
26	Uttarakhand	0	0	5	0	0	0	0	0	0	0	0	0
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	149	27	143	773	40	62	138	32

Contd...

Table 14(i) : Number of Major, Medium and ERM Irrigation Projects in India by State

(in Nos.)

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	2	0	56	74	19	28	177	42	1
2	Arunachal Pradesh	0	0	NR	NR	NR	0	0	0	NR	NR	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	Chhattisgarh	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	0	0	0	7	15	4	0	26	0	0
11	Jharkhad	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

Contd...

Table 14(i) : Number of Major, Medium and ERM Irrigation Projects in India by State

(in Nos.)

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
19	Nagaland	0	0	0	0	0	0	0	0	0	0	0	0
20	Orissa	8	13	5	5	21	6	51	22	6	85	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	NR	NR	NR
24	Tamil Nadu	11	1	0	0	0	24	55	1	0	80	0	0
25	Tripura	0	0	NR	NR	NR	0	0	0	NR	NR	NR	NR
26	Uttarakhand	0	1	0	0	0	0	0	6	0	6	0	0
27	Uttar Pradesh	20	0	0	3	0	15	102	0	0	117	9	1
28	W.Bengal	0	0	0	0	0	3	20	0	1	24	2	0
TOTAL		91	30	19	39	27	217	1018	102	116	1453	326	86

Source: Central Water Commission (P & P Directorate)

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

Note- * : Figures are likely to be changed after receiving final data.

NR : Non availability of data

Table 14 (ii) : 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

Contd..

Table 14 (ii) : 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

Contd..

Table 14 (ii) : 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

Contd..

Table 14 (ii) : 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 Rehabilitation	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	Modernisation of canal and Renovation of drains	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	rechargeground water 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

Contd..

Table 14 (ii) : 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 (HP)	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 Sidhatha	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	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

Contd..

Table 14 (ii) : 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

Contd..

Table 14 (ii) : 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

Contd..

Table 14 (ii) : 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	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	

Contd..

Table 14 (ii) : 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: Report of the Working Group on Major & Medium and Command Area Development for the XII Five Year Plan (2012-17) MoWR

Table 14 (iii) : 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

Contd..

Table 14 (iii) : 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
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

Contd..

Table 14 (iii) : 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	
						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	
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	

Contd..

Table 14 (iii) : 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	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

Contd..

Table 14 (iii) : 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
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		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		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

Contd..

Table 14 (iii) : 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	Gardada	Medium	Improve ment of Water Manage ment	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	Improve ment of Water Manage ment	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	Improve ment of Water Manage ment	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	
RAJASTHAN	Takli	Medium	Improve ment of Water Manage ment	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 Applicab le	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	Improve ment of Water Manage ment	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	777.40	679.09	642.97	915.039	1340.18	6028.9	2	16001.86	

Source: Report of the Working Group on Major & Medium and Command Area Development for the XII Five Year Plan (2012-17) MoWR

Table 14 (iv): Abstract of New Projects under Appraisal in CWC.

Sl no.	Name of States	Major			Medium			Total		
		A	B	Total	A	B	Total	A	B	Total
1	2	3	4	5	6	7	8	9	10	11
1	Andhra Pradesh	2	2	4	0	6	6	2	8	10
2	Arunachal Pradesh	0	0	0	0	0	0	0	0	0
3	Assam	0	0	0	1	0	1	1	0	1
4	Bihar	0	4	4	0	0	0	0	4	4
5	Chhattisgarh	0	1	1	0	0	0	0	1	1
6	Goa, Daman, Diu	0	0	0	0	0	0	0	0	0
7	Gujarat	0	1	1	0	0	0	0	1	1
8	Haryana	0	2	2	0	0	0	0	2	2
9	Himachal Pradesh	1	0	1	2	1	3	3	1	4
10	J & K	0	1	1	1	3	4	1	4	5
11	Jharkhand	0	3	3	0	0	0	0	3	3
12	Karnataka	2	2	4	1	0	1	3	2	5
13	Kerala	0	1	1	0	0	0	0	1	1
14	Madhya Pradesh	4	2	6	2	2	4	6	4	10
15	Maharashtra	5	3	8	14	3	17	19	6	25
16	Manipur	0	2	2	2	5	7	2	7	9
17	Meghalaya	0	0	0	0	0	0	0	0	0
18	Mizoram	0	0	0	0	0	0	0	0	0
19	Nagaland	0	0	0	0	0	0	0	0	0
20	Orissa	2	4	6	6	6	12	8	10	18
21	Punjab	0	3	3	0	1	1	0	4	4
22	Rajasthan	1	3	4	1	3	4	2	6	8
23	Sikkim	0	0	0	0	0	0	0	0	0
24	Tamil Nadu	1	0	1	0	0	0	1	0	1
25	Tripura	0	0	0	0	0	0	0	0	0
26	Uttar Pradesh	0	6	6	0	0	0	0	6	6
27	Uttarakhand	2	1	3	0	2	2	2	3	5
28	West Bengal	0	0	0	0	0	0	0	0	0
	Grand Total	20	41	61	30	32	62	50	73	123

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

Table 14 (v) : List of Projects Accepted By Advisory Committee of MoWR upto December 2012.

Sl no	Meeting no	Date of meeting	Name of project	State	Major/Medium	Estimated cost Rs. Cr	Price level	Benefits in Ha./ MW	Date of approval by Planning Commission
1	2	3	4	5	6	7	8	9	10
1	113th	12.01.2012	Eastern Gandak Canal System (Gandak Phase-II),	Bihar	Mjajor-New-ERM	1799.5	2011-12	146,000	12/13.9.12
2	113th	12.01.2012	Udersthan Barrage & other Iner-connected and Independent Schemes.	Bihar	Major-New-ERM	531.01	2011-12	41,052	28.05.2012
3	113th	12.01.2012	Madhya Pradesh Water Sector Restructuring Project (MPWSRP)	Madhya Pradesh	New-ERM	1919	2011.12	488,682	5/11/2012
4	113th	12.01.2012	Orissa Integrated Irrigated Agriculture and Water Management Investment Programme (OIIAWMIP)- Tranche-II	Orissa	New-ERM	471.43	2010-11	79,863	
5	113th	12.01.2012	Rajgarh Medium Irrigation Project	Rajasthan	New-Medium	192.13 (irrigation-140.46, drinking water supply-51.46)	2010-11	8,568	21.09.2012
6	113th	12.01.2012	Bank Protection Works from Ismailpur to Bindtoli in downstream of Vikramshila Bridge on the left bank of river Ganga in Bhagalpur District.	Bihar	Flood Control	23.39	2011-12	90,215 (Population 150000 nos)	26.06.2012
7	113th	12.01.2012	Bagaha Town Protection Works Phase-I on the left bank of river Gandak in west Champaran District	Bihar	Flood Control	48.91	2011-12	4000 (Population 100000 nos)	26.06.2012
8	113th	12.01.2012	Flood Protection Works along left and right banks of river Beas in Districts Gurdaspur, Hoshiarpur and kapurthala.	Punjab	Flood Control	46.12	2009	1800 (Popualtion 225000)	5/22/2012
9	113th	12.01.2012	Purna Barrage (Ner Dhamana) Irrigation Project.(Revised)	Maharashtra	Medium Revised	617.46	2009-10	7024	26.03.2012

Contd..

Table 14 (v) : List of Projects Accepted By Advisory Committee of MoWR upto December 2012.

Sl no	Meeting no	Date of meeting	Name of project	State	Major/Medium	Estimated cost Rs. Cr	Price level	Benefits in Ha./ MW	Date of approval by Planning Commission
10	114th	28.03.2012	Raising and Strengthening of Adhwara and Khiroi left embankment from RD 0.0 Km to RD 43.60 Km & from RD 44.00 Km to RD 90.50 Km. and Right embankment from RD 0.0 Km to RD 81.50 Km in Sitamarhi, Madhubani and Darbhanga districts of Bihar.	Bihar	New- Flood Control	167.03	2011	141760 ha./Population 17,32,000 nos.	
11	114th	28.03.2012	Improvement of embankment and ancillary works in Kandi and other adjoining areas of the districts of Murshidabad	West Bengal	New- Flood Control	438.94	2011	51000 ha./ Ppulation5,00,000 nos.	13.06.2012
12	114th	28.03.2012	Construction of Mahadewa- uska embankment along right bank of river Kunra in Siddharthnagar district of Uttar Pradesh (Scope Change)	Uttar Pradesh	Revised-Flood Control	27.76	2008-09	1924 ha./Population 16184 nos.	
13	114th	28.03.2012	Construction of Balrampur-Bhadaria embankment along right bank of river Rapti in Balrampur district of Uttar Pradesh	Uttar Pradesh	Revised-Flood Control	25.61	2008-09	14373 ha./Population 56000nos.	
14	115th	24.07.2012	Andhra Pradesh Irrigation and Livelihood Improvement Project	Andhra Pradesh	Major - ERM	1131.136	2010-11	114,878	
15	115th	24.07.2012	Restoration of Western Gandak Canal System, (Saran Main Canal & Its Distribution System)	Bihar	New - Major - ERM	2169.51	2011-12	478,000	
16	115th	24.07.2012	Minimata (Hasdeo) Bango Project	Chhattisgarh	Major - ERM	492.31	2011-12	45,116 restoration	
17	115th	24.07.2012	Medium Irrigation Project to Nadaun Area in Tahsil - Nadaun, District - Hamirpur	Himachal Pradesh	Medium -New	97.59	Jul-11	6,471	
18	115th	24.07.2012	Mahuar Medium Irrigation Project	Madhya Pradesh	New - Medium	191.2707	2009	13,775	
19	115th	24.07.2012	Bilgaon Irrigation Project	Madhya Pradesh	New - Medium	182.22	2009	12,285	14.12.2012
20	115th	24.07.2012	Thoubal Multipurpose Project	Manipur	Revised - Major	1387.85	2011	33,387	12.09.2012

Contd..

Table 14 (v) : List of Projects Accepted By Advisory Committee of MoWR upto December 2012.

Sl no	Meeting no	Date of meeting	Name of project	State	Major/Medium	Estimated cost Rs. Cr	Price level	Benefits in Ha./ MW	Date of approval by Planning Commission
21	115th	24.07.2012	Khuga Multipurpose Project	Manipur	Revised-Medium	433.91	2011	14,755	19.09.2012
22	115th	24.07.2012	Dolaithabi Barrage Project	Manipur	Revised-Medium	360.05	2011	7,545	20.09.2012
23	115th	24.07.2012	Imphal Barrage Project	Manipur	ERM- Medium	16.8	2011	6,400	
24	115th	24.07.2012	Sekmal Barrage Project	Manipur	ERM- Medium	10.2	2011	8,500	
25	115th	24.07.2012	Revised Estimate of Rehabilitation of 1st Patiala Feeder & Kotla Branch with 20% enhanced capacity and changed value of "N"	Punjab	Revised- Major	199.39	2011-12	334,109	
26	115th	24.07.2012	Construction of Lining of Tumaria- Bahalla & Naktiya Feeder	Uttarkhand	ERM- Medium	11.2	2010-11	7,890 restoration 2,54 and Add.creation10 ha	14.12.2012
27	116th	14.12.2012	Anti erosion works from km 0.650 of Retired bund -1 of Sakraur Bhikharipur Ring bund to km 13.600 of Main bund of Sakraur Bhikharipur along left bank of river Sarayu/Ghaghra in Gonda district	Uttar Pradesh	Flood Control .	41.51	2010	2,675 ha, Population 18430	
28	116th	14.12.2012	Construction of Marginal Embankment upstream of Elgin bridge along right bank of river Ghaghra in the district of Barabanki	Uttar Pradesh	Flood Control .	170.08	2010	44,250 ha, Population 334680	
29	116th	14.12.2012	Flood protection works along left bank of river Ghaghra in the district of Basti	Uttar Pradesh	Flood Control .	80.24	2010	24,743 ha, Population 496480	
30	116th	14.12.2012	ERM of Malan Canal System	Uttarakhand	ERM- Medium	11.4	2010-11	3984 ha (Restoration 753 ha and Additional	
31	116th	14.12.2012	Lakhwar Multipurpose project	Uttarakhand	Multipurpose	3966.51	2012	33,780	

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

Table 15: Physical Achievements of Field Channels (F.C.) under CAD Programme by State

Sl. No.	Name of States	Cummulative Achievement of of F.C. up to end of				Achievemnet During					Total XI Plan	Cumulative Achievement upto XI Plan (31.03.2012)
		VII Plan 1985-90	VIII Plan 1992-97	IX.Plan 1997-02	X.Plan 2002-07	XI Plan						
						2007-08	2008-09	2009-10	2010-11	2011-12		
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Andhra Pradesh	650.8	664.6	680.2	738.1	30.9	4.3	4.0	0.0	0.3	39.4	777.5
2	Arunachal Pradesh	0.0	0.0	1.0	9.0	9.1	0.0	1.2	0.3	0.8	11.5	20.4
3	Assam	38.4	54.1	56.1	56.6	0.0	0.0	2.0	1.4	1.5	4.9	61.5
4	Bihar	1220.9	1282.4	1297.3	1344.0	0.0	31.6	19.0	37.0	39.0	126.4	1470.5
5	Chattisgarh	0.0	0.0	1.5	51.3	40.7	27.7	29.0	29.0	27.9	154.3	205.6
6	Goa	5.3	10.3	10.4	10.4	1.0	0.0	0.9	0.6	0.5	3.0	13.4
7	Gujarat	766.1	852.0	889.9	1107.6	21.0	7.0	0.2	1.6	13.0	42.9	1150.4
8	Haryana	114.3	312.7	429.4	597.3	17.9	85.9	54.0	53.8	44.0	255.6	852.9
9	Himachal Pradesh	6.3	10.7	15.7	22.2	0.0	0.0	0.1	0.5	0.0	0.6	22.9
10	Jammu & Kashmir	27.4	55.5	77.9	98.3	6.0	10.2	9.7	14.8	16.7	57.4	155.7
11	Jharkhand	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	Karnataka	897.8	1043.0	1116.2	1485.5	36.8	26.5	12.1	21.9	17.4	114.8	1600.3
13	Kerala	46.2	153.7	174.1	182.3	0.4	0.5	0.1	0.2	0.2	1.4	183.7
14	Madhya Pradesh	833.5	995.8	1031.2	1073.1	9.5	9.5	10.3	10.2	22.4	62.0	1135.0
15	Maharashtra	889.2	1113.1	1223.9	1248.1	34.0	11.5	20.7	12.4	10.3	88.9	1337.0
16	Manipur	20.8	36.8	50.6	63.9	0.0	3.4	5.4	6.0	7.1	22.0	85.9
17	Meghalaya	0.0	1.0	1.1	2.2	0.0	0.0	0.0	0.1	0.3	0.4	2.5
18	Mizoram	0.0	0.0	0.1	0.9	0.0	0.0	0.0	0.0	0.1	0.1	0.9
19	Nagaland	0.0	0.0	2.0	3.7	0.0	0.0	0.0	0.0	0.1	0.1	3.8
20	Orissa	256.8	346.5	396.4	437.4	11.0	14.0	18.5	27.4	33.0	103.9	541.3
21	Punjab	0.0	0.0	222.7	351.5	38.3	59.8	56.2	54.7	42.5	251.4	603.0
22	Rajasthan	613.6	925.5	1177.2	1427.1	17.5	12.3	40.8	46.2	14.4	131.3	1558.4
23	Sikkim	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2
24	Tamil Nadu	317.9	629.6	850.8	1041.7	20.4	20.8	18.6	23.8	26.4	110.0	1151.8

Contd...

Table 15: Physical Achievements of Field Channels (F.C.) under CAD Programme by State

(* 000 Hactare)

Sl. No.	Name of States	Cummulative Achievement of of F.C. up to end of				Achievemnet During					Total XI Plan	Cumulative Achievement upto XI Plan (31.03.2012)
		VII Plan 1985-90	VIII Plan 1992-97	IX.Plan 1997-02	X.Plan 2002-07	XI Plan						
						2007-08	2008-09	2009-10	2010-11	2011-12		
1	2	3	4	5	6	7	8	9	10	11	12	13
25	Tripura	0.1	0.3	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4
26	Uttar Pradesh	4378.0	5375.0	5936.0	6575.3	98.6	85.8	67.0	69.0	79.1	399.5	6974.9
27	Uttrakhand	0.0	0.0	0.0	4.9	0.0	0.5	6.6	0.0	0.0	7.0	11.9
28	West Bengal	55.3	90.1	112.5	135.5	1.6	18.6	8.2	1.9	60.6	90.9	226.4
Total		11138.7	13952.7	15754.6	18068.7	394.7	429.7	384.5	412.9	457.7	2079.5	20148.2

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 16: Physical Achievements of Field Drains under CAD Programme by State

Sl. No.	Name of States	Cumulative Achievement of Field Drains up to end of				Achievement During					Cumulative Achievement upto 31.03.2011
		VII Plan 1985-90	VIII Plan 1992-97	IX. Plan 1997-02	X. Plan 2002-07	2007-08	2008-09	2009-10	2010-11	TOTAL (four Years)	
1	2	3	4	5	6	7	8	9	10	11	12
1	Andhra Pradesh	9.1	9.1	9.1	9.1	0.0	0.0	0.0	0.0	0.0	9.1
2	Arunachal Pradesh	0.0	0.0	0.7	6.9	0.4	0.3	0.0	0.0	0.7	7.6
3	Assam	11.6	21.0	21.8	22.1	0.0	0.0	0.0	0.0	0.0	22.1
4	Bihar	0.0	0.0	0.0	18.8	0.0	12.1	1.6	0.1	13.8	32.7
5	Chattisgarh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	Goa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	Gujarat	2.2	2.9	2.9	33.7	0.0	0.0	0.0	0.0	0.0	33.7
8	Haryana	0.0	0.0	0.0	24.3	0.0	1.5	15.4	0.0	17.0	41.3
9	Himachal Pradesh	0.0	0.6	2.3	6.0	0.0	0.0	0.0	0.0	0.0	6.0
10	Jammu & Kashmir	0.4	6.8	13.5	26.8	1.9	1.3	7.3	9.4	19.9	46.7
11	Jarkhand	0.0	0.0	0.0	0.0	0.0	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	82.1	152.1
13	Kerala	0.0	7.1	95.7	129.9	0.6	1.7	0.0	0.2	2.4	132.3
14	Madhya Pradesh	19.8	37.8	37.8	37.8	0.0	0.0	0.0	0.0	0.0	37.8
15	Maharashtra	165.8	292.4	392.5	439.0	0.0	0.0	17.1	4.4	21.6	460.6
16	Manipur	4.1	11.2	12.6	15.6	0.0	4.1	5.5	2.2	11.8	27.4
17	Meghalaya	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	Mizoram	0.0	0.0	0.1	1.0	0.0	0.0	0.0	0.0	0.0	1.0
19	Nagaland	0.0	5.8	7.8	11.0	0.0	0.0	0.0	0.0	0.0	11.0

Contd...

Table 16: 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 upto 31.03.2011
		VII Plan 1985-90	VIII Plan 1992-97	IX. Plan 1997-02	X. Plan 2002-07	2007-08	2008-09	2009-10	2010-11	TOTAL (four Years)	
1	2	3	4	5	6	7	8	9	10	11	12
20	Orissa	31.3	96.1	114.4	133.6	1.8	3.4	0.6	8.8	14.6	148.2
21	Punjab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	Rajasthan	9.2	16.3	35.0	42.8	1.4	0.0	0.0	0.5	1.9	44.8
23	Sikkim	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1
24	Tamil Nadu	29.2	29.2	29.4	173.9	48.2	72.3	0.8	1.2	122.5	296.4
25	Tripura	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1
26	Uttar Pradesh	133.1	209.0	310.7	562.4	12.2	14.4	14.8	2.1	43.5	605.9
27	Uttarakhand	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5
28	West Bengal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total		423.9	773.0	1124.3	1765.4	69.8	129.5	94.1	58.5	351.9	2117.3

Source : Ministry of Water Resources (CAD Wing)

Note : Totals may not tally due to rounding off.

**Table 17 : List of On-going Projects under CADWM Programme during the period
of XI Plan (2007-08 To 2011-12) as on March, 2012**

('000 ha)						
S. No.	Project Name	Districts benefitted	Year of Inclusion	CCA	CCA Covered till 31.3.2012	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	411.000	393.941	17.059
2	Srisailam R.B.C	Kurnool	1995-96	76.890	32.322	44.568
			TOTAL	487.890	426.263	61.627
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	2.760	2.760	0.000
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	7.470	4.527	2.943
5	Cluster of 39 MI schemes under Namsai Circle	Lower/Upper Dibang, Lohit Anjaw, Tirap	2006-07	3.340	2.164	1.176
			TOTAL	13.570	9.451	4.119
ASSAM						
6	Bordikarai	Sonitpur	1992-93	16.990	0.410	16.580
7	Kaldiya	Barpeta	1992-93	9.830	7.560	2.270
8	Dakadong	Barpeta	1992-93	4.940	3.350	1.590
9	Pahumara Irrigation	Barpeta	2010-11	9.259	1.000	8.259
			TOTAL	41.019	12.320	28.699
BIHAR						
10	Gandak	Muzaffarpur, Vaishali, East. Champaran, Gopalganj, Siwan, saran, Samastipur	1974-75	960.000	622.819	337.181
11	Badua and Chandan	Bhagalpur, banka, Munger	1974-75	106.380	70.115	36.265

Contd...

**Table 17 : List of On-going Projects under CADWM Programme during the period
of XI Plan (2007-08 To 2011-12) as on March, 2012**

('000 ha)						
S. No.	Project Name	Districts benefitted	Year of Inclusion	CCA	CCA Covered till 31.3.2012	Reported balance of executable CCA
1	2	3	4	5	6	7
12	Kiul	Lakhisari, Shekhpura, Jamui	1991-92	22.260	16.635	5.625
13	Kosi	Saharsa, Supaul, Madhupura, Purnia, Araria, Katihar, Darbhanga, Madhubani	1974-75	440.000	418.911	21.089
14	Sone	Patna, Bhojpur, Buxar, Rohtas, Bhabhus, Aurangabad, Gaya, Jehanabad and arwal	1974-75	865.000	482.442	382.558
15	North Koel Project	Aurangabad, Gaya	1991-92	123.000	7.391	115.609
			TOTAL	2516.640	1618.313	898.327
CHHATISGARH						
16	Ballar	Raipur	1985-86	6.550	4.362	2.188
17	Mahanadi, Tandula, Jonk and Kodar	Dhamtari, Raipur, Durg, Mahasamund	1983-84	497.659	231.503	266.156
18	Hasdeo Phase-2	Korba, Raigarh, Janjgir-Champa	2003-04	168.000	105.291	62.709
19	Khapri Irrigation Project	Durg	2011-12	4.588	0.000	4.588
			TOTAL	676.797	341.156	335.641
GUJARAT						
20	Sardar Sarovar Phase –I	Vadodara, Bharuch, Narmada, Panchmahal	2003-04	446.610	277.836	168.774
			TOTAL	446.610	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	94.530	257.323

Contd...

**Table 17 : List of On-going Projects under CADWM Programme during the period
of XI Plan (2007-08 To 2011-12) as on March, 2012**

('000 ha)						
S. No.	Project Name	Districts benefitted	Year of Inclusion	CCA	CCA Covered till 31.3.2012	Reported balance of executable CCA
1	2	3	4	5	6	7
23	Western Yamuna canal Phase -VI	Rothak, Jhajjar, Sonapat, Jind, Bhiwani, Hisar, Gurgaon & Panipat.	2007-08	205.600	70.145	135.455
24	JLN Canal Phase-II	Jhajjar, Rewari, Mahandergarh, Bhiwani & Gurgaon.	2007-08	99.383	6.564	92.819
			TOTAL	656.836	171.239	485.597
HIMACHAL PRADESH						
25	Cluster of 40 MI schemes in Drang & Sadar block of Dist. Mandi.	Mandi	2003-04	1.377	1.300	0.077
26	Cluster of 38 MI schemes in pandonga haroli saloh area in Tehsil Una of Dist. Una.	Una	2003-04	1.468	1.108	0.360
27	Cluster of 42 MI schemes in Tehsil Sarkaghat District Mandi	Mandi	2003-04	1.087	0.870	0.217
28	Cluster of 27 MI schemes in Nallagarh area of District Solan	Solan	2003-04	2.209	0.260	1.949
29	Cluster of 12 MI schemes in Rampur block of District Shimla	Shimla	2003-04	0.766	0.232	0.534
30	Cluster of various MI schemes in Paonta & Shillai Tehsil in Distt. Sirmour	Sirmour	2007-08	2.342	0.000	2.342
31	Shah Nahar Project	Kangra	2011-12	15.287	0.000	15.287
			TOTAL	24.536	4.258	20.278
JAMMU & KASHMIR						
32	Ego-Phey Canal	Leh	1987-88	3.000	0.873	2.127
33	Dachnipora-Rajpora	Anantnag, Pulwama	2007-08	12.526	6.437	6.089
34	Ahaji Beerua	Budgam	2008-09	8.813	2.450	6.363
35	Ganderbal	Ganderbal, Srinagar	2011-12	6.892	0.097	6.795
36	Ranbir Canal	Jammu	2006-07	38.600	22.552	16.048

Contd...

**Table 17 : List of On-going Projects under CADWM Programme during the period
of XI Plan (2007-08 To 2011-12) as on March, 2012**

('000 ha)						
S. No.	Project Name	Districts benefitted	Year of Inclusion	CCA	CCA Covered till 31.3.2012	Reported balance of executable CCA
1	2	3	4	5	6	7
37	Dehgam Veernag	Anantnag, Kulgam	2006-07	2.934	2.584	0.350
38	Tongri Canal	Shopian and Kulgam	2010-11	4.064	0.752	3.312
39	Zainegeer canal (Kashmir CADA)	Baramulla , Bandipora	2003-04	5.100	4.544	0.556
40	Sonawari	Baramulla and Bandipora	2010-11	20.370	0.752	19.618
41	Kathua canal Command (Jammu CADA)	Proposed for closure	2003-04	8.463	4.627	3.836
42	Arin-Bandipora	Bandipora	2007-08	2.860	2.116	0.744
43	Khemil-Kupwara	Kupwara	2007-08	7.300	2.526	4.774
44	Doda-Sangaldhan Gool-Rajouri Cluster	Doda, Rajouri, Ramban	2007-08	4.177	4.235	0.000
45	Ferozpora Tangmarg Project of Kashmir Command	Baramulla	2009-10	9.644	2.057	7.587
46	New Partap Canal Project of Jammu Command	Jammu	2010-11	9.028	0.595	8.433
47	Vaishow Command Project	Pulwama, Ahopian and Kulgam	2011-12	13.738	0.089	13.649
48	Kargil Projects	Kargil	2011-12	12.000	0.097	11.903
49	Uri-Narvaw Project	Baramulla	2011-12	6.770	0.682	6.088
			TOTAL	176.279	58.065	118.272
JHARKHAND						
50	Kanchi Weir Scheme		2003-04	17.800	0.000	17.800
51	Mayurakshi Left Bank Canal System		2003-04	9.500	0.000	9.500
			TOTAL	27.300	0.000	27.300
KARNATAKA						
52	Ghataprabha	Belgaum and Bagalakote	1974-75	317.430	259.608	57.822
53	Malaparaba	Dharwad, Belgaum, Gadag, Bagalakote	1974-75	214.980	193.588	21.392
54	Tungbhadra	Koppal & Raichur, Bellary	1974-75	529.000	354.615	174.385
55	Upper Krishna	Gulbarga, Yadgiri, Bagalkot, Bijapur, raichur	1974-75	622.000	567.297	54.703
56	Bhadra Reservoir	Chikmagalur, Shimoga and Davanagree	1996-97	105.570	92.196	13.374

Contd...

**Table 17 : List of On-going Projects under CADWM Programme during the period
of XI Plan (2007-08 To 2011-12) as on March, 2012**

('000 ha)						
S. No.	Project Name	Districts benefitted	Year of Inclusion	CCA	CCA Covered till 31.3.2012	Reported balance of executable CCA
1	2	3	4	5	6	7
57	Amarja	Gulbarga	2003-04	8.903	0.035	8.868
58	Bennithora	Cittapur Taluka, Gulbarga	2003-04	20.234	18.891	1.343
59	Karanja Irrigation Project	Bidar	2009-10	35.614	20.922	14.692
60	Upper Mullamari	Bidar	2010-11	3.279	0.000	3.279
61	Gandorinala	Gulbarga	2010-11	8.094	6.246	1.848
62	Lower Mullamari	Gulbarga	2010-11	9.713	2.283	7.430
63	Chulkinala	Gulbarga	2010-11	4.047	0.000	4.047
			TOTAL	1878.864	1515.681	363.183
KERALA						
64	Kallada	Kollam, Pathanamthitta, Alappuzha	2006-07	53.514	0.225	53.289
65	Muvattupuzha Valley Irrigation Project	Idukki, Ernakulam, Kottayam	2009-10	19.237	0.000	19.237
66	Kanhirapuzha	Palakkad	1998-99	9.720	7.434	2.286
67	Pazhassi	Kannur	1998-99	11.530	1.882	9.648
			TOTAL	94.001	9.541	84.460
MADHYA PRADESH						
68	Kolar	Sehore	1985-86	45.000	11.354	33.646
69	Rani Avanti Bai(Bargi)	Jabalpur, Narsinghpur	1990-91	157.000	33.967	123.033
70	Upper Wainganga	Seoni	1985-86	112.900	103.007	9.893
71	Bagh	Balaghat	1985-86	16.600	16.412	0.188
72	Harsi	Gwalior	1985-86	44.354	41.979	2.375
73	Kunwar Chain Sagar (dudhi)	Rajgarh	2003-04	3.700	3.136	0.564
74	Rajghat Canal Project	Ashok Nagar, Shivpuri, Tikamgarh, Datia, Bhind	2010-11	164.789	0.388	164.401
75	Bariyarpur Left Bank Canal	Chhatarpur	2011-12	46.682	0.000	46.682
76	Bansagar Project	Rewa, Satna, Sidhi and Shahdol	2011-12	154.687	0.000	154.687
			TOTAL	745.712	220.478	525.234

Contd...

**Table 17 : List of On-going Projects under CADWM Programme during the period
of XI Plan (2007-08 To 2011-12) as on March, 2012**

('000 ha)						
S. No.	Project Name	Districts benefitted	Year of Inclusion	CCA	CCA Covered till 31.3.2012	Reported balance of executable CCA
1	2	3	4	5	6	7
MAHARASHTRA						
77	Khadakwasla *	Pune	1983-84	77.680	46.457	31.223
78	Kukadi		1979-80	132.000	138.361	0.000
79	Surya **		1983-84	14.700	1.100	13.600
80	Krishna		1974-75	74.000	72.939	1.061
81	Chaskaman	Pune	1996-97	43.420	34.774	8.646
82	Upper Penganga	Nanded, Hingoli, Yeotmal	1974-75	104.000	83.076	20.924
83	Lower Wunna	Nagpur, Wardha	1996-97	21.594	17.475	4.119
84	Bhima	Solapur	1974-75	126.000	113.783	12.217
85	Nandur Madhumeshwar Canal Project	Ahmednagar, Aurangabad	2009-10	52.864	11.198	41.666
86	Dhombalkawadi Irr.Project	Pune and Satara	2010-11	28.100	1.165	26.935
TOTAL				674.358	520.328	160.391
* 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						
87	cluster of 21 MI scheme in Bishnupur District	Bishnupur	2007-08	9.600	6.539	3.061
88	Cluster of 37 MI scheme in Thoubal,Ukhrul, Chandel and Churachandpur district	Thoubal, Uhrul and Churachandpur	2007-08	6.420	4.754	1.666
89	Cluster of 28 MI scheme in East and West Districts of Imphal	Imphal West, Imphal East	2007-08	6.665	5.743	0.922
90	Khuga Multipurpose Project	Churachandpur	2010-11	9.575	3.317	6.258
91	Thoubal Irrigation Project, Ph-II	Thoubal	2010-11	2.485	1.900	0.585
TOTAL				34.745	28.292	6.453
MEGHALAYA						
92	Cluster of 10 MI schemes viz. Tienglam and Pdem etc.		2001-02	2.440	1.354	1.086

Contd...

**Table 17 : List of On-going Projects under CADWM Programme during the period
of XI Plan (2007-08 To 2011-12) as on March, 2012**

('000 ha)						
S. No.	Project Name	Districts benefitted	Year of Inclusion	CCA	CCA Covered till 31.3.2012	Reported balance of executable CCA
1	2	3	4	5	6	7
93	Cluster of 6 MI schemes -Kynrut, Phudumjer, Nongtraw, Kharukol, Nekora, Madan Umtheid	West khasi Hills, Ri-Bhoi, South Garo Hills	2010-11	0.380	0.371	0.009
			TOTAL	2.820	1.725	1.095
	MIZORAM					
94	Cluster of 5 Minor Irrigation projects	Aizawl, Champai	2011-12	0.222	0.000	0.222
95	Cluster of 60MI Schemes Phase-II I Aizawl, Lunget and Chhimtuipui District		2003-04	3.040	0.000	3.040
			TOTAL	3.262	0.000	3.262
	NAGALAND					
96	Cluster of 13 Minor Irrigation Projects at Changki Valley	Mokokchung	2011-12	1.080	0.000	1.080
			TOTAL	1.080	0.000	1.080
	ORISSA					
97	Sunie Irrigation Project	Mayurganj, Balasore	2009-10	10.000	5.850	4.150
98	Jaimangla	Ganjam	1998-99	7.350	2.352	4.998
99	Hirakud	Sambalpur, Badgarh, Bolangir, Subaranpur	1974-75	153.240	145.555	7.685
100	Rengali Irrigation Project, LBC-I & LBC-II Phase-I	Angul, Dhenkanal,	2011-12	41.333	0.000	41.333
101	Mahanadi delta 1974-75	Puri, Khurda, Cuttack, Jajpur, Kendrapara, Jagatsinghpur	1974-75	336.300	30.079	306.221
102	Rushikulya	Ganjam	1994-95	61.230	17.995	43.235
103	Salandi Right	Bhadrak, Keonjhar	1994-95	40.180	12.037	28.143
104	Baitarani	Bhadra, Jajpur	1998-99	32.770	9.395	23.375
105	Potteru	Malkangiri	1985-86	70.100	17.763	52.337
106	Upper Kolab	Koraput	2003-04	47.200	19.808	27.392
107	Gohira Irrigation Project	Deogarh	2009-10	9.172	5.600	3.572
108	Upper Indrawati Major Irrigation Project	Kalahandi	2009-10	128.000	5.441	122.559
109	Remal Irrigation Project	Keonjhar	2009-10	4.313	3.313	1.000
			TOTAL	941.188	275.188	666.000

Contd...

Table 17 : List of On-going Projects under CADWM Programme during the period of XI Plan (2007-08 To 2011-12) as on March, 2012

('000 ha)						
S. No.	Project Name	Districts benefitted	Year of Inclusion	CCA	CCA Covered till 31.3.2012	Reported balance of executable CCA
1	2	3	4	5	6	7
PUNJAB						
110	Bhatinda Br Part-II	Ludhiana, Barnala, Bathinda & Muktsar	2008-09	181.707	66.941	114.766
111	Upper Bari Doab Canal Command	Guraspur, Amritsar, & Taran Taran	2003-04	184.861	33.504	151.357
112	Sirhind Feeder Part-II Command Project	Ferozpur, faridkot & Muktsar.	2007-08	314.496	128.573	185.923
			TOTAL	681.064	229.018	452.046
RAJASTHAN						
113	Chambal	Kota, Bundi, baran	1974-75	229.000	120.578	108.422
114	Amar Singh Sub-Branch and Jassana district of Bhakra canal System.	Hanumangarh	1998-99	67.210	31.738	35.472
115	Sidhmukh Nohar	Hanumangarh, Churu	2003-04	111.460	98.310	13.150
116	Bisalpur Project	Tonk, Deoli, Todarisng, Uniyara	2005-06	81.800	31.605	50.195
117	Gang Canal	Sriganganagar	2010-11	183.201	0.000	183.201
			TOTAL	672.671	282.231	390.440
SIKKIM						
118	A Cluster of 17 Minor irrigation of North and East district of Sikkim		2000-01	1.030	0.000	1.030
119	A Cluster of 21 MI Schemes of South & West district of Sikkim		2000-01	1.220	0.107	1.113
			TOTAL	2.250	0.107	2.143
TAMIL NADU						
120	Wellington Reservoir	Cuddalore	2008-09	11.153	9.650	1.503
121	Kalingarayan Anicut	Erode	2011-12	4.800	0.000	4.800
						Contd...
122	Gundar-Chittar-Karuppanadi	Tirunelveli	2008-09	15.000	15.002	0.000
123	Kodiveri Anicut	Erode	2008-09	9.916	8.884	1.032
124	Thirukoilur Anicut	Villupuram	2008-09	9.783	9.466	0.317
125	Varadhamanadhi reservoir	Dindigul	2011-12	2.323	0.000	2.323

**Table 17 : List of On-going Projects under CADWM Programme during the period
of XI Plan (2007-08 To 2011-12) as on March, 2012**

('000 ha)						
S. No.	Project Name	Districts benefitted	Year of Inclusion	CCA	CCA Covered till 31.3.2012	Reported balance of executable CCA
1	2	3	4	5	6	7
126	Vaigai Project	Maduri, Sivagangai, Ramnathapuram	2010-11	50.188	22.486	27.702
127	Kodaganar Project (DPAP criteria)	Dindigul, Karur	2010-11	4.117	2.748	1.369
			TOTAL	107.280	68.236	39.046
TRIPURA						
128	Cluster of 4 MI Projects		2003-04	0.440	0.216	0.224
			TOTAL	0.440	0.216	0.224
UTTAR PRADESH						
129	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	330.000	46.012	283.988
130	Tumaria dam canal System	Allahabad	2000-01	64.010	23.010	41.000
131	Sarda Canal Project	Bareilly, Pilibhit, Shahjahanpur, Hardoi, Unnao, Raebareilly, Kheri, sitapur, Lucknow, Barabanki	1989-90	1613.000	925.982	687.018
132	East Ganga Canal	Bijnor, Jyotiba Fule Nagar	1990-91	233.000	76.510	156.490
133	Lower Rajghat	Lalitpur	2009-10	43.210	18.700	24.510
134	Betwa & Gursarai Canal	Jhansi, Jaloun, Hamirpur	1990-91	422.000	271.190	150.810
135	Ken Canal System	Banda	1990-91	222.000	109.410	112.590
136	Belan Pump Canal System	Allahabad	1997-98	71.050	43.920	27.130
137	Tons Pump Canal System	Allahabad	1997-98	34.000	27.560	6.440
138	Jakhloun Pump Canal System	Lalitpur	2009-10	29.870	18.470	11.400
139	Son Pump Canal System		1997-98	93.650	48.600	45.050

Contd...

**Table 17 : List of On-going Projects under CADWM Programme during the period
of XI Plan (2007-08 To 2011-12) as on March, 2012**

('000 ha)						
S. No.	Project Name	Districts benefitted	Year of Inclusion	CCA	CCA Covered till 31.3.2012	Reported balance of executable CCA
1	2	3	4	5	6	7
140	Saryu Canal System Phase-II	Bahraich, Gonda, Sidharth Nagar, Basti, Gorakhpur, Santkabirnagar, Balrampur, Sravasti	2009-10	280.000	24.316	255.684
141	Upper Ganga Canal	Manda, Meja, Korawan, Urua	1990-91	457.000	363.510	93.490
142	Madhya Ganga Canal	Allahabad	1990-91	229.000	77.340	151.660
143	Sirsi dam Project	Allahabad, Mirzapur	2010-11	44.880	0.600	44.280
			TOTAL	4166.670	2075.130	2091.540
UTTARAKHAND						
144	Laster Canal's Offshoots		2001-02	1.120	0.000	1.120
145	Nathuwala & Balawala Canals		2001-02	1.120	1.605	0.000
146	Jatowala & Prateetpurcanal		2001-02	0.540	0.262	0.278
147	Tumaria Dam canal system		2003-04	32.530	2.094	30.436
			TOTAL	35.310	3.961	31.834
WEST BENGAL						
148	D.V.C System	Burdwan, Hooghly, Bankura, Howrah	1974-75	391.970	73.647	318.323
149	Kangsabati	Bankura, Midnapur, Hooghly	1974-75	340.750	91.671	249.079
150	Mayurakshi	Birbhum, Murshidabad, Burdwan	1974-75	226.630	45.128	181.502
151	Teesta Barrage	Jalpaiguri, Darjeeling, Uttar Dinajpur, Cooch Behar, Malda	1983-84	165.000	4.861	160.139
			Total=	1124.350	215.307	909.043
			G.Total=	16248.06	8368.19	7886.78

Source : Ministry of Water Resources (CAD Wing)

Note : CCA - Cultural Command Area.

Table 18: Plan-wise Financial Expenditure on Irrigation in India

(Rs. Crores)

Sl. No.	Period	Major & Medium	Minor			Command Area Deveopment	Major, Medium, Minor and CAD			Total Plan Expenditure in All Sectors	Percentage of Expend on Irrigation to Total
			State	Institu-tional	Total		Total	Cumul-ative	Average per year		
1	2	3	4	5	6	7	8	9	10	11	12
1.	First Plan(1951-56)	376.2	65.6	NEG.	65.6	-	441.8	441.8	88.4	1960	23
2.	Second Plan(1956-61)	380.0	142.2	19.4	161.6	-	541.6	983.4	108.3	4672	12
3.	Third Plan(1961-66)	576.0	326.1	115.4	441.5	-	1017.5	2000.9	203.5	8577	12
4.	Annual Plans(1966-69)	429.8	321.3	234.7	556.0	-	985.9	2986.7	328.6	6625	15
5.	Fourth Plan(1969-74)	1242.3	506.2	661.1	1167.3	-	2409.6	5396.3	481.9	15779	15
6.	Fifth Plan(1974-78)	2516.2	627.5	798.8	1426.3	147.6	4090.1	9486.4	1022.5	28653	14
7.	Annual Plans(1978-80)	2078.6	496.2	480.4	976.6	215.3	3270.5	12756.9	1635.3	22950	14
8.	Sixth Plan(1980-85)	7368.8	1979.3	1437.6	3416.8	743.1	11528.7	24285.6	2305.8	109292	11
9.	Seventh Plan(1985-90)	11107.3	3131.9	3061.0	6192.9	1447.5	18747.7	43033.2	3749.5	218730	9
10.	Annual Plan(1990-91)	2634.8	812.2	675.6	1487.8	285.6	4408.2	47441.5	4408.2	58369	8
11.	Annual Plan(1991-92)	2824.0	844.1	674.0	1518.1	333.8	4675.9	52117.4	4675.9	64751	7
12.	Eighth Plan (1992-97)	21669.2	6230.6	4241.8	10472.4	1937.9	34079.5	86196.9	6815.9	485457	7
13	Ninth Plan (1997-2002)	49289.6	8635.0	2661.7	11296.7	2222.8	62809.1	149006.0	12561.8	859200	7
14	Tenth Plan (2002 - 2007)	83647.1	13924.3	3257.4	17181.7	2534.8	103363.6	252369.7	20672.7	1525639	7
15	Eleventh Plan (2007 - 2012)										
(a)	Actual Expenditure (2007-2008)	29390.6	4449.9	435.2	4885.1	1070.3	35346.0	287715.7	35346.0	371569	10
(b)	Actual Expenditure (2008-2009)	32341.8	5770.8	545.9	6316.7	572.4	39230.8	39230.8	39230.8	477236	8

Contd...

Table 18: Plan-wise Financial Expenditure on Irrigation in India

(Rs. Crores)

Sl. No.	Period	Major & Medium	Minor			Command Area Deveopment	Major, Medium, Minor and CAD			Total Plan Expenditure in All Sectors	Percentage of Expend on Irrigation to Total
			State	Institu-tional	Total		Total	Cumul-ative	Average per year		
1	2	3	4	5	6	7	8	9	10	11	12
(c)	Actual Expenditure (2009-2010)	33168.8	7038.1	496.8	7534.9	702.9	41406.5	80637.4	41406.5	529024	8
(d)	Revi. Approved Outlay (2010-2011)	34310.1	8241.0	920.3	9161.3	970.5	44441.9	125079.3	44441.9	688816	6
(e)	Approved Outlay (2011-12)	45262.0	12106.6	660.5	12767.1	1605.7	59634.8	184714.0	59634.8	822009	7

Source: 1. Ministry of Water Resources, Minor Irrigation Division (for Column 5),
2. Annual Plan Document of Planning Commission (for Column-3, 4& 7).
3. Economic Survey 2011-12(for Column-11)
Totals may not tally due to rounding off.

Table 19: Plan-wise Financial Expenditure on Irrigation in India (at 1993-94 prices)

(Rs.Crores)

Sl. No.	Period	Major & Medium	Minor			Command Area Development	Major, Medium, Minor and CAD			Total Plan Expenditure in All Sectors	Percentage of Expend on Irrigation to Total
			State	Institutional	Total		Total	Cumulative	Average per year		
1	2	3	4	5	6	7	8	9	10	11	12
1.	First Plan(1951-56)	5824.1	1015.8	NEG.	1015.8	-	6839.6	6839.0	1368.0	30340.6	23
2.	Second Plan(1956-61)	5277.8	1975.4	268.8	2244.2	-	7521.9	13658.1	1504.4	64888.9	12
3.	Third Plan(1961-66)	6414.3	3631.4	1284.7	4916.1	-	11330.4	22281.2	2266.1	95512.2	12
4.	Annual Plans(1966-69)	3376.4	2524.0	1844.0	4367.9	-	7744.3	23461.9	2581.3	52042.4	15
5.	Fourth Plan(1969-74)	7783.8	3171.7	4142.0	7313.7	-	15097.5	33811.2	3019.4	98865.9	15
6.	Fifth Plan(1974-78)	9886.8	2465.6	3138.7	5604.3	580.0	16071.1	37274.5	4017.7	112585.5	14
7.	Annual Plans(1978-80)	7192.3	1717.0	1662.3	3379.2	745.1	11316.6	44141.4	5658.5	79411.8	14
8.	Sixth Plan(1980-85)	17330.3	4654.9	3380.9	8035.8	1747.5	27113.6	57115.6	5422.9	257036.7	11
9.	Seventh Plan(1985-90)	18980.3	5351.8	5230.6	10582.5	2473.5	32036.3	73535.9	6407.2	373769.7	9
10.	Annual Plan(1990-91)	3575.1	1102.0	916.7	2018.7	387.5	5981.3	64371.0	5981.3	79198.1	8

Contd...

Table 19: Plan-wise Financial Expenditure on Irrigation in India (at 1993-94 prices)

(Rs.Crores)

Sl. No.	Period	Major & Medium	Minor			Command Area Development	Major, Medium, Minor and CAD			Total Plan Expenditure in All Sectors	Percentage of Expend on Irrigation to Total
			State	Institutional	Total		Total	Cumulative	Average per year		
1	2	3	4	5	6	7	8	9	10	11	12
11.	Annual Plan(1991-92)	3365.9	1006.1	803.3	1809.5	397.9	5573.2	62118.5	5573.2	77176.4	7
12.	Eighth Plan (1992-97)	19567.6	5626.3	3830.4	9456.7	1750.0	30774.3	77837.2	6154.9	438375.7	7
13	Ninth Plan (1997-2002)	33493.9	5867.8	1808.7	7676.5	1510.5	42680.8	101254.4	8536.2	583854.3	7
14	Tenth Plan (2002 - 2007)	44884.7	7471.7	1747.9	9219.7	1360.2	55464.5	135420.5	11092.9	818651.5	7
15	Eleventh Plan (2007 - 2012)	13625.7	2063.0	201.8	2264.8	496.2	16386.7	133387.0	16386.6	172261.9	10
(a)	Actual Expenditure (2007-2008)										
(b)	Actual Expenditure (2008-2009)	13827.2	2467.2	233.4	2700.6	244.7	16772.5	16772.5	16772.5	204034.2	8
(c)	Actual Expenditure (2009-2010)	13655.3	2897.5	204.5	3102.0	289.4	17046.7	33197.8	17046.7	217795.0	8

Source: 1. Ministry of Water Resources, Minor Irrigation Division (for Column 5),

2. Annual Plan Document of Planning Commission (for Column-3,4& 7).

3. Economic Survey 2011-12(for Column-11)

Totals may not tally due to rounding off.

Note : (All India WPI (Base 1993-94=100) has been used as deflator)

Table 20 : 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)	Actual Expenditure (2009-10)	Revised Appoved Outlay (2010-11)	Appoved Outlay (2011-12)
1	2	3	4	5	6	7	8	9
1	Andhra Pradesh	4045.8	20434.2	11285.5	8097.9	10488.1	9072.3	12054.5
2	Arunachal Pradesh	1.7	2.2	0.5	0.5	0.0	0.6	0.7
3	Assam	213.0	106.2	23.3	80.9	90.5	36.2	151.6
4	Bihar	1621.9	1597.3	559.2	519.9	514.5	561.8	984.9
5	Chhatisgarh	160.6	1503.4	444.4	586.7	850.5	720.1**	1253.8
6	Goa	224.2	571.5	118.2	117.5	88.6	107.2**	110.7
7	Gujarat	5298.4	10496.2	4020.4	6907.6	4299.7	4560.1**	8080.1
8	Haryana	1154.4	1297.8	662.6	705.2	669.7	575.0**	600.0
9	Himachal Pradesh	65.1	153.9	96.0	80.0	85.1	62.0	101.8
10	Jammu & Kashmir	128.5	262.1	49.9	62.1	118.0*	101.8**	125.8
11	Jharkhad	167.0	1248.2	694.5	322.9	215.4	408.0	886.3
12	Karnataka	8700.5	16505.4	2058.4	2020.9	2939.4	3600.0	5434.0
13	Kerala	703.3	672.0	121.7	117.2	82.2	218.0	271.1
14	Madhya Pradesh	2203.7	5429.3	1941.1	1691.5	1652.3	2042.7**	2323.4
15	Maharashtra	14807.3	10313.3	2982.5	6196.1	6278.7	6985.3**	6113.0
16	Manipur	171.7	229.8	107.4	40.7	126.6	275.2	262.3
17	Meghalaya	10.7	2.8	0.0	0.0	0.0	0.2**	23.6
18	Mizoram	0.1	0.1	0.0	0.0	0.0	0.0	0.0
19	Nagaland	0.9	0.1	0.1	0.1	0.2	0.0	0.0
20	Orissa	2331.2	2388.6	1298.4	1283.4	1182.8	1189.1	1310.0
21	Punjab	334.9	500.4	91.8	77.3	78.2	187.3	503.6
22	Rajasthan	1725.1	3028.8	595.3	586.6	569.8	447.5	609.9
23	Sikkim	2.2	0.0	0.0	0.0	0.0	0.0**	0.0

Contd...

Table 20 : 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)	Actual Expenditure (2009-10)	Revised Approved Outlay (2010-11)	Approved Outlay (2011-12)
1	2	3	4	5	6	7	8	9
24	Tamil Nadu	1218.5	1091.0	220.4	384.1	644.3	324.4	370.9
25	Tripura	32.4	41.7	6.1	9.7	15.6	58.8	38.2
26	Uttar Pradesh	3014.7	4876.1	1695.2	1971.1	1609.0	1831.7	1920.0
27	Uttarakhand	61.0	316.9	127.8	216.3	310.3	399.7**	290.5
28	West Bengal	667.8	293.1	98.3	118.9	87.5	362.7**	1160.0
Total for States		49066.7	83361.9	29298.7	32194.9	32996.7	34127.5	44980.3
Total for U.Ts.		4.2	4.0	0.1	1.1	2.6	1.1**	4.6
Total States & U.Ts.		49070.9	83365.9	29298.8	32196.0	32999.3	34128.6	44984.9
Central Sector		218.7	281.2	91.8	145.8	169.5	181.5	277.1
GRAND TOTAL		49289.6	83647.1	29390.6	32341.8	33168.8	34310.1	45262.0

Source : Planning Commission

Remarks : Totals may not tally due to rounding off.

* :Revised Approved Outlay.** : Approved Outlay.

Table 21: State-wise and Plan-wise Financial Expenditure on Minor Irrigation - State Sector

(Rs.Crores)

Sl. No.	State/U.ts.	Ninth Plan (1997-02)	Tenth Plan (2002-07)	Actual Expenditure (2007-08)	Actual Expenditure (2008-09)	Actual Expenditure (2009-10)	Revised Approved Outlay (2010-11)	Approved Outlay (2011-12)
1	2	3	4	5	6	7	8	9
1.	Andhra Pradesh	976.3	1742.2	661.1	684.4	954.6	1681.4	2563.6
2.	Arunachal Pradesh	94.6	142.8	58.7	70.1	70.2	113.9	74.1
3.	Assam	382.2	145.6	9.9	144.1	370.3	431.0	192.5
4.	Bihar	231.6	825.1	109.7	80.9	78.4	64.9	255.5
5.	Chattisgarh	71.5	972.3	509.0	296.1	154.3	69.9**	758.4
6.	Goa	26.7	99.5	31.5	39.2	39.3	60.0**	69.1
7.	Gujarat	933.3	1638.6	697.9	875.1	1016.9	986.5**	1140.5
8.	Haryana	200.9	0.0	0.0	0.0	0.0	0.0**	0.0
9.	Himachal Pradesh	232.7	327.7	89.2	140.4	130.4	141.5	161.9
10.	Jammu & Kashmir	142.9	275.6	59.0	113.7	196.1*	152.3**	209.8
11.	Jharkhand	39.3	199.8	102.5	77.2	46.5	50.0**	648.7
12.	Karnataka	459.0	987.9	362.0	591.3	551.9	787.6	956.8
13.	Kerala	225.8	113.7	28.8	34.1	37.0	78.2	75.3
14.	Madhya Pradesh	746.3	1222.5	130.1	540.2	627.8	691.7**	694.0
15.	Maharashtra	1348.6	1560.3	114.8	463.9	895.5	809.7**	1200.0
16.	Manipur	30.1	197.7	57.3	3.9	50.3	63.4	63.4
17.	Meghalaya	34.2	33.7	11.9	40.8	43.1	86.0**	101.6
18.	Mizoram	26.3	85.1	33.1	66.4	48.0	59.4	78.4
19.	Nagaland	25.3	57.5	45.5	49.7	74.0	143.3	141.6
20.	Orissa	435.7	403.1	175.7	180.8	228.8	256.0	592.4
21.	Punjab	189.0	185.0	60.9	145.9	202.9	169.9	140.3
22.	Rajasthan	259.5	505.5	225.9	176.2	144.3	144.3	257.0
23.	Sikkim	19.4	21.0	6.2	15.5	30.9	99.9**	46.6
24.	Tamil Nadu	287.7	393.2	82.1	84.6	20.0	45.6	173.8
25.	Tripura	75.3	137.5	23.6	23.7	21.2	14.8	99.3
26.	Uttar Pradesh	362.0	618.6	303.8	354.6	431.1	566.9	619.0
27.	Uttarakhand	19.6	393.4	218.6	275.7	368.6	209.0**	235.0
28.	West Bengal	346.1	161.0	62.7	129.1	114.8	147.5**	390.5
Total States		8221.7	13445.9	4271.3	5697.5	6947.1	8124.5	11939.0
Union Territories								
29.	A & N Island		3.6	67.4	2.1	2.0	2.2**	2.4
30.	Chandigarh		8.0	0.4	0.5	0.5	0.5**	0.2***
31.	D & N Haveli		4.2	3.1	0.0	1.4	8.6**	10.1
32.	Daman & Diu		0.6	0.4	0.2	0.2	0.2**	0.2
33.	Delhi		0.2	28.2	1.9	0.3	0.2**	0.1
34.	Lakshadweep		0.0	0.0	0.0	0.0	0.0**	0.0
35.	Puducherry		54.5	13.1	11.6	13.8	13.3	20.2
Total U.Ts		55.3	98.7	112.5	16.2	18.2	25.0	33.1
Total States & U.Ts		8277.0	13544.6	4383.9	5713.7	6965.3	8149.5	11972.1
Central Sector		358.0	379.7	66.0	57.1	72.8	91.5	134.5
Grand Total		8635.0	13924.3	4449.9	5770.8	7038.1	8241.0	12106.6

Source : Ministry of Water Resources(Minor Irrigation Division),Annual Plan Documents & Planning Commission

* : Revised Approved Outlay.

** : Approved Outlay.

*** : Approval yet to be issued

Note : Totals may not tally due to rounding off.

Table 22: State-wise and Plan-wise Financial Expenditure on Minor Irrigation - Institutional
(Rs. Crores)

Sl. No.	State/ U.T.	IX th Plan (1997-02)	X th Plan (2002-07)	XI th Plan				
				(2007-08)	(2008-09)	(2009-10)	(2010-11)	(2011-12)
1	2	3	4	5	6	7	8	9
1	Andhra Pradesh	364.69	277.84	14.84	43.85	47.72	42.57	70.12
2	Arunachal Pradesh	0.00	0.30	0.28	0.15	0.00	0.00	0.00
3	Assam	0.02	1.72	2.61	0.01	0.09	0.00	0.14
4	Bihar	12.92	283.58	12.49	0.00	1.08	39.38	32.73
5	Chhattisgarh	Included in M.P.	40.97	5.03	3.58	2.81	1.22	0.51
6	Goa,Daman & Diu	0.94	0.18	0.00	0.06	0.00	0.00	0.00
7	Gujarat	40.46	148.73	19.32	19.19	45.82	52.70	75.22
8	Haryana	183.90	168.88	64.71	98.44	138.26	192.64	144.03
9	Himachal Pradesh	113.10	21.25	3.14	6.76	0.00	9.90	0.00
10	Jammu & Kashmir	0.51	0.08	0.00	0.00	0.00	0.00	0.00
11	Jharkhand	Included in Bihar	1.82	2.53	0.01	0.00	1.93	0.00
12	Karnataka	127.43	235.73	49.17	97.63	26.43	215.69	28.74
13	Kerala	92.59	73.65	7.52	11.31	8.54	0.14	131.97
14	Madhya Pradesh	146.29	368.52	60.20	59.98	17.37	35.57	26.20
15	Maharashtra	102.16	277.57	23.65	11.52	7.84	35.18	18.89
16	Manipur	0.00	0.38	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
18	Mizoram	0.11	0.18	0.00	0.00	0.00	0.00	0.00
19	Nagaland	0.00	0.00	0.33	0.33	0.00	0.00	0.00
20	Orissa	1.24	21.64	3.31	1.22	1.74	0.97	0.10
21	Punjab	197.80	275.91	30.81	87.43	16.25	146.83	26.02
22	Rajasthan	363.74	252.79	22.54	31.59	53.20	40.91	27.63
23	Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	Tamil Nadu	15.72	54.49	6.90	17.43	22.00	26.34	29.76
25	Tripura	0.09	0.12	0.00	0.00	0.00	0.00	0.00
26	Uttarakhand	Included in U.P.	0.08	0.13	0.06	0.00	0.15	0.00
27	Uttar Pradesh	884.08	754.70	103.91	54.87	106.88	77.19	47.95
28	West Bengal	11.85	13.98	1.67	0.32	0.70	0.99	0.51
	Total States	2659.64	3255.09	435.09	545.74	496.73	920.32	660.51
29	A & N Island	-	0.04	0.00	0.01	0.01	0.02	0.00
30	Chandigarh	-	0.00	0.00	0.04	0.00	0.00	0.00
31	Dadar & N. Haveli	-	0.00	0.00	0.00	0.00	0.00	0.00
4	Daman & Diu	-	0.00					
32	Delhi	-	0.00	0.00	0.00	0.00	0.00	0.00
33	Puducherry	-	2.19	0.11	0.07	0.01	0.00	0.00
34	Lakshadweep	-	0.03	0.00	0.00	0.00	0.00	0.00
	Total U.Ts.	2.00	2.26	0.11	0.12	0.02	0.02	0.00
	GRAND TOTAL	2661.64	3257.35	435.20	545.86	496.75	920.34	660.51

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

Note: - Total may not tally due to rounding off.

TABLE 23: Central Releases under the Command Area Development Programme by State

Sl. No.	Name of the State	Total upto end of VIII Plan	Up to IX Plan	Upto X Plan	During XI Plan					Total XI Plan	Cumulative upto 31.03.2012
					2007-08	2008-09	2009-10	2010-11	2011-12		
					6	7	8	9	10		
1	Andhra Pradesh	5458.2	9297.74	9297.74	0.00	0.00	0.00	0.00	0.00	0.00	9297.74
2	Arunachal Pradesh	0.0	48.50	573.86	238.59	250.00	0.00	40.98	56.39	585.96	1159.81
3	Assam	1874.0	2066.41	2066.41	0.00	594.61	0.00	226.00	0.00	820.61	2887.02
4	Bihar	10918.4	11218.43	11848.54	0.00	0.00	6095.19	2669.09	2943.86	11708.14	23556.68
5	Chattisgarh	0.0	46.32	2106.34	0.00	0.00	0.00	8285.09	1392.17	9677.26	11783.60
6	Goa	897.9	917.93	917.93	0.00	0.00	0.00	80.56	6.42	86.98	1004.91
7	Gujarat	9838.8	10928.72	15038.72	3057.66	0.00	0.00	893.86	682.00	4633.52	19672.24
8	Haryana	8372.8	14450.80	22509.31	2332.22	4411.19	5451.28	4767.24	5800.62	22762.55	45271.86
9	Himachal Pradesh	414.5	780.41	1184.70	0.00	0.00	0.00	0.00	0.00	0.00	1184.70
10	Jammu & Kashmir	1881.1	2890.36	4753.74	777.61	1292.83	1432.35	2250.19	2005.52	7758.50	12512.24
11	Jharkhand	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	Karnataka	11031.2	18310.06	31450.96	5771.29	1500.00	3170.04	5341.51	5308.00	21090.84	52541.80
13	Kerala	6475.1	9522.83	9990.23	0.00	0.00	0.00	106.25	418.08	524.33	10514.56
14	Madhya Pradesh	8259.4	8818.12	10966.79	490.07	0.00	589.67	1000.00	5510.11	7589.85	18556.64
15	Maharashtra	21443.6	25327.54	25873.48	622.27	2623.63	3404.79	0.00	2148.27	8798.96	34672.44
16	Manipur	813.0	1273.41	2065.16	184.07	554.47	938.77	1200.00	927.02	3804.33	5869.49
17	Meghalaya	55.9	74.29	118.02	0.00	0.00	3.56	25.52	0.00	29.08	147.10
18	Mizoram	0.0	11.88	72.95	6.43	0.00	0.00	0.00	13.00	19.43	92.38
19	Nagaland	10.0	164.59	339.19	19.43	0.00	0.00	0.00	15.00	34.43	373.62
20	Orissa	4682.4	7594.18	9455.11	1101.91	2976.25	1577.80	3563.07	3102.85	12321.88	21776.99
21	Punjab	0.0	5985.55	12262.93	3589.24	6091.13	0.00	6000.00	3000.00	18680.37	30943.29
22	Rajasthan	30109.1	43117.43	54716.28	1804.38	4630.31	2980.85	0.00	2244.07	11659.61	66375.89
23	Sikkim	0.0	5.50	6.75	0.00	0.00	0.00	0.00	0.00	0.00	6.75
24	Tamil Nadu	9504.5	17914.50	26969.48	1740.48	0.00	4650.00	1500.00	2999.82	10890.30	37859.78

Contd...

TABLE 23: Central Releases under the Command Area Development Programme by State

Sl. No.	Name of the State	Total upto end of VIII Plan	Up to IX Plan	Upto X Plan	During XI Plan					Total XI Plan	Cumulative upto 31.03.2012
					2007-08	2008-09	2009-10	2010-11	2011-12		
					6	7	8	9	10		
1	2	3	4	5	6	7	8	9	10	11	12
25	Tripura	12.2	12.18	19.70	0.00	0.00	0.00	0.00	0.00	0.00	19.70
26	Uttar Pradesh	33944.1	49287.65	66308.40	5746.30	7094.76	9475.99	7000.00	10000.00	39317.05	105625.46
27	Uttarakhand	0.0	0.00	435.49	0.00	409.92	0.00	0.00	0.00	409.92	845.41
28	West Bengal	2077.7	3174.18	3748.14	231.58	0.00	1600.00	690.95	0.00	2522.53	6270.67
Total		168073.84	243239.50	325096.33	27713.517	32429.10	41370.29	45640.31	48573.20	195726.42	520822.75

Source : Ministry of Water Resources (CAD Wing)

Table 24: State-wise Expenditure under CAD Programme - State Sector

(Rs. Crores)										
Sl. No.	Name of the State/UT	Eighth Plan (1992-97)	Ninth Plan (1997-02)	Tenth Plan (2002-07)	Cummulative upto Tenth Plan	Actual Expenditure (2007-08)	Actual Expenditure (2008-09)	Actual Expenditure (2009-10)	Revised Approved Outlay (2010-11)	Appoved Outlay (2011-12)
1	2	3	4	5	6	7	8	9	10	11
1	Andhra Pradesh	80.14	49.18	38.60	274.81	17.07	9.68	6.06	15.56	26.53
2	Arunachal Pradesh	1.61	4.99	11.16	17.76	2.40	2.50	0.30	1.51	3.00
3	Assam	13.34	31.14	47.99	109.05	0.75	2.95	7.18	11.10	19.28
4	Bihar	31.53	62.66	48.22	212.97	434.39	25.95	73.12	55.00	90.00
5	Chhattisgarh	0.00	1.57	73.42	74.99	20.98	30.06	21.35	64.12**	21.96
6	Goa	5.19	9.70	16.27	40.28	3.75	4.16	5.50	6.31**	6.92
7	Gujarat	43.75	61.34	19.05	200.40	6.08	5.71	12.53	11.38**	13.63
8	Haryana	29.92	143.03	182.76	452.51	26.84	27.32	45.85	141.00**	90.00
9	Himachal Pradesh	2.86	4.38	11.91	21.85	1.34	0.02	0.00	2.00	10.00
10	Jammu & Kashmir	8.95	20.58	46.77	93.00	19.50	23.84	11.00*	18.00**	18.00
11	Jharkhand	0.00	0.00	6.00	6.00	0.12	0.12	21.62	2.00**	2.00
12	Karnataka	77.29	97.90	140.92	451.85	64.68	69.41	73.00	104.00	438.15
13	Kerala	41.86	41.80	39.36	157.53	4.79	4.06	2.65	6.27	4.25
14	Madhya Pradesh	37.72	17.43	21.50	346.70	5.11	6.35	7.71	10.00**	18.25

Contd...

Table 24: State-wise Expenditure under CAD Programme - State Sector

(Rs. Crores)										
Sl. No.	Name of the State/UT	Eighth Plan (1992-97)	Ninth Plan (1997-02)	Tenth Plan (2002-07)	Cummulative upto Tenth Plan	Actual Expenditure (2007-08)	Actual Expenditure (2008-09)	Actual Expenditure (2009-10)	Revised Approved Outlay (2010-11)	Appoved Outlay (2011-12)
1	2	3	4	5	6	7	8	9	10	11
15	Maharashtra	291.03	219.47	104.24	1087.90	0.00	22.60	0.12	43.45**	44.00
16	Manipur	4.94	6.63	26.66	43.13	6.50	7.48	9.00	21.65	17.00
17	Meghalaya	1.28	0.87	1.09	4.69	0.09	0.01	0.08	0.50**	0.55
18	Mizoram	0.00	0.47	0.70	1.17	0.19	0.15	0.15	0.15	0.15
19	Nagaland	0.16	0.53	3.86	4.55	0.08	0.00	0.08	0.50	1.00
20	Orissa	14.83	26.53	20.38	96.95	14.01	69.94	61.65	47.43	76.00
21	Punjab	0.00	189.34	120.20	343.60	17.20	85.53	124.48	214.76	255.00
22	Rajasthan	258.84	253.35	257.41	1092.45	54.07	72.41	68.00	90.72	102.00
23	Sikkim	0.00	0.11	4.74	4.85	0.04	0.36	0.04	0.00**	0.55
24	Tamil Nadu	41.30	65.88	81.96	276.20	22.77	19.49	19.30	21.03	24.67
25	Tripura	0.25	0.04	1.30	1.93	0.00	0.00	0.00	0.00	0.50
26	Uttar Pradesh	83.99	155.31	222.77	767.55	54.19	64.71	79.19	63.52	294.78
27	Uttarakhand	0.00	0.00	7.95	7.95	5.54	1.50	5.03	0.00**	0.00
28	West Bengal	6.58	26.53	33.08	83.66	7.68	15.86	12.62	16.00**	24.00
Total States		1077.36	1490.76	1590.45	6276.37	790.16	572.17	667.61	967.96	1602.17

Contd...

Table 24: State-wise Expenditure under CAD Programme - State Sector

(Rs. Crores)										
Sl. No.	Name of the State/UT	Eighth Plan (1992-97)	Ninth Plan (1997-02)	Tenth Plan (2002-07)	Cummulative upto Tenth Plan	Actual Expenditure (2007-08)	Actual Expenditure (2008-09)	Actual Expenditure (2009-10)	Revised Approved Outlay (2010-11)	Appoved Outlay (2011-12)
1	2	3	4	5	6	7	8	9	10	11
Union Territories										
29	A & N Island	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00**	0.00
29	Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00**	0.00
29	D & N Haveli	0.00	0.77	1.07	4.51	2.30	0.20	2.00	2.50**	3.50
30	Daman & Diu	0.00	0.10	0.05	0.48	0.00	0.00	0.00	0.00**	0.00
33	Delhi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00**	0.00
34	Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00**	0.00
35	Puducherry	0.00	0.00	0.00	0.00	0.00	0.00	33.28	0.00	0.00
Total U.Ts.		0.00	0.87	1.12	4.99	2.30	0.20	35.28	2.50	3.50
Total States & Uts		1077.36	1491.63	1591.57	6281.36	792.46	572.37	702.89	970.46	1605.67

Source : Ministry of Water Resources (CAD Wing). & Planning Commission

Note : Totals may not tally due to rounding off. * : Revised Approved Outlay ** : Approved Outlay

Table 25: Water Rates for flow Irrigation by State

SI No.	States/UTs	FOR IRRIGATION PURPOSES		Status as on
		Flow Irrigation		
		Rate (Rs/ha)	Date since applicable	
1	2	3	4	5
1	Andhra Pradesh	148.20 to 1235.00	01.07.1996	12.01.2010
2	Arunachal Pradesh	No water rates	-	29.12.2008
3	Assam	150.00 to 751.00	30.03.2000	07.03.2009
4	Bihar	74.10 to 370.50	17.11.95/26.11.01*	08.02.2010
5	Chhattisgarh	123.50 to 741.00	15.06.1999	05.02.2010
6	Delhi	34.03 to 1067.04	N.A.	14.01.2009
7	Goa	60.00 to 300.00	01.02.1988	09.03.2010
8	Gujarat	160.00 to 300.00	01.01.2007	04.02.2010
9	Haryana	24.70 to 197.60	27.07.2000	02.02.2010
10	Himachal Pradesh	28.17	01.04.2009	03.02.2010
11	Jammu & Kashmir	29.65 to 74.13	01.04.2005	04.02.2010
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	30.01.2009
14	Kerala	37.00 to 99.00	18.09.1974	06.02.2009
15	Madhya Pradesh	50.00 to 960.00	01.11.2005	05.01.2010
16	Maharashtra	238.00 to 6297.00	01.07.2003	02.04.2009
17	Manipur	45.00 to 150.00	August,2003	27.12.2008
18	Meghalaya	No water rates	-	09.03.2010
19	Mizoram	No water rates	-	06.02.2009
20	Nagaland	No water rates	-	15.01.2009
21	Orissa	28.00 to 930.00	05.04.2002	05.01.2010

Contd...

Table 25: Water Rates for flow Irrigation by State

SI No.	States/UTs	FOR IRRIGATION PURPOSES		Status as on
		Flow Irrigation		
		Rate (Rs/ha)	Date since applicable	
1	2	3	4	5
22	Punjab	375.00	28.01.2010	01.02.2010
23	Rajasthan	29.64 to 607.62	24.05.1999	21.1.2010
24	Sikkim	10.00 to 250.00	2002	19.01.2010
25	Tamil Nadu	2.77 to 61.78	06.11.1987	04.03.2002
26	Tripura	312.50	01.10.2003	01.04.2009
27	Uttarakhand	35.00 to 474.00	18.09.1995	18.12.2006
28	Uttar Pradesh	30.00 to 474.00	18.09.1995	11.09.2007
29	West Bengal	37.06 to 123.50	06.04.1977	03.02.2010
30	A & N Islands	No water rates	-	01.01.2009
31	Chandigarh	No water rates	-	01.02.2010
32	Dadra & Nagar Haveli	110.00 to 830.00	29.01.1996	31.08.2005
33	Daman & Diu	200.00	1980	28.08.2008
34	Lakshadweep	No water rates	-	12.06.2008
35	Puducherry	No water rates	01.01.2005	12.12.2008

Source: Hydrology Data Directorate, ISO, Central Water Commission,
Remarks : * For Wheat crops

Table 26: Water Rates for Lift Irrigation by State

SI No.	States/UTs	FOR IRRIGATION PURPOSES		Status as on
		Lift Irrigation		
		Rate (Rs/ha)	Date since applicable	
1	2	3	4	5
1	Andhra Pradesh	148.20 to 1235.00	07.01.1996	12.01.2010
2	Arunachal Pradesh	No water rates specified for irrigation	-	29.12.2008
3	Assam	150.00 to 751.00	30.03.2000	07.03.2009
4	Bihar	333.45. to 1970.75	06.05.1998	08.02.2010
5	Chhattisgarh	123.50 to 741.00	15.06.1999	05.02.2010
6	Delhi	33.35 to 1067.04	N.A.	14.01.2009
7	Goa	120.00 to 600.00	01.02.1988	09.03.2010
8	Gujarat	160.00 to 300.00	01.01.2007	04.02.2010
9	Haryana	43.23 to 98.80	27.07.2000	02.02.2010
10	Himachal Pradesh	56.34	01.04.2009	03.02.2010
11	Jammu & Kashmir	74.13 to 741.30	01.04.2005	04.02.2010
12	Jharkhand	No separate rate for lift irrigation	-	13.01.2009
13	Karnataka	No separate rate for lift irrigation	-	30.01.2009
14	Kerala	17.00 to 148.50	18.09.1974	09.03.2010
15	Madhya Pradesh	50.00 to 960.00	01.11.2005	15.03.2010
16	Maharashtra	297.00 to 5405.00	01.07.2003	13.04.2010
17	Manipur	45.00 to 150.00	01.08.2003	27.12.2008
18	Meghalaya	No water rates	-	23.02.2010
19	Mizoram	No water rates	-	31.01.2010
20	Nagaland	No water rates	-	12.01.2009
21	Orissa	No separate rate for lift irrigation	05.04.2000	30.03.2010

Contd...

Table 26: Water Rates for Lift Irrigation by State

SI No.	States/UTs	FOR IRRIGATION PURPOSES		Status as on
		Lift Irrigation		
		Rate (Rs/ha)	Date since applicable	
1	2	3	4	5
22	Punjab	375	08.01.2010	01.02.2010
23	Rajasthan	14.80 to 1215.24	24.05.1999	21.01.2010
24	Sikkim	No separate rate for lift irrigation	-	19.01.2010
25	Tamil Nadu	No separate rate for lift irrigation	-	02.01.2009
26	Tripura	312.50	01.10.2003	01.04.2009
27	Uttarakhand	15.00 to 237.00	18.09.1995	06.01.2009
28	Uttar Pradesh	15.00 to 237.00	18.09.1995	30.12.2008
29	West Bengal	251.94 to 2015.52	01.07.2003	03.02.2010
30	A & N Islands	No water rates	-	13.01.2009
31	Chandigarh	23.00 per hour	01.01.2010	01.02.2010
32	Dadra & Nagar Haveli	75.00 to 275.00	NA	31.08.2005
33	Daman & Diu	200.00	1980	28.08.2008
34	Lakshadweep	No water rates	-	12.06.2008
35	Puducherry	No separate rate for lift irrigation	01.01.2005	12.12.2008

Source: Hydrology Data Directorate, ISO, Central Water Commission

TABLE 27: Flood Damage/Heavy Rains in India

Sl. No.	Year	Area affected (M.Ha.)	Population affected (Million)	Damage to Crops		Damage to		Cattle lost Nos. (‘000)	Human live lost (Nos.)	Damage to public utilities (Rs. Crore)	Total damages Crops, Houses & Public utilities in Rs. Crores (Col. 6+8+11)
				Area (M.Ha.)	Value (Rs. Crore)	Nos. (‘000)	Value (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	1960	7.53	8.35	2.27	42.55	610	14.31	14	510	6.31	63.17
3	1965	1.46	3.61	0.27	5.87	113	0.20	7	79	1.07	7.14
4	1970	8.46	31.83	4.91	162.78	1434	48.61	19	1076	76.44	287.83
5	1975	6.17	31.36	3.85	271.49	804	34.10	17	686	166.05	471.64
6	1980	11.46	54.12	5.55	366.37	2533	170.85	59	1913	303.28	840.50
7	1985	8.38	59.59	4.65	1425.37	2450	583.86	43	1804	2050.04	4059.27
8	1990	9.30	40.26	3.18	695.61	1020	213.73	134	1855	455.27	1708.92
9	1991	6.36	33.89	2.70	579.02	1134	180.42	41	1187	728.89	1488.33
10	1992	2.65	19.26	1.75	1027.58	687	306.28	79	1533	2010.67	3344.53
11	1993	11.44	30.41	3.21	1308.63	1926	528.32	211	2864	1445.53	3282.49
12	1994	4.81	27.55	3.96	888.62	915	165.21	52	2078	740.76	1794.59
13	1995	5.25	35.93	3.25	1714.79	2002	1307.89	62	1814	679.63	3702.31
14	1996	8.05	44.73	3.83	1124.49	727	176.59	73	1803	861.39	3005.74
15	1997	4.57	29.66	2.26	692.74	505	152.50	28	1402	1985.93	2831.18
16	1998	10.85	47.44	7.50	2594.17	1933	1108.78	107	2889	5157.77	8860.72
17	1999	7.77	27.99	1.75	1850.87	1613	1299.06	91	745	462.83	3612.76
18	2000	5.38	45.01	3.58	4246.62	2629	680.94	123	2606	3936.98	8864.54
19	2001	6.18	26.46	3.96	688.48	716	816.47	33	1444	5604.46	7109.42
20	2002	7.09	26.32	2.19	913.09	762	599.37	22	1001	1062.08	2574.54
21	2003	6.12	43.20	4.27	7307.23	775	756.48	15	2166	3262.15	11325.87

Contd..

TABLE 27: Flood Damage/Heavy Rains in India

Sl. No.	Year	Area affected (M.Ha.)	Population affected (Million)	Damage to Crops		Damage to		Cattle lost Nos. (‘000)	Human live lost (Nos.)	Damage to public utilities (Rs. Crore)	Total damages Crops, Houses & Public utilities in Rs. Crores (Col. 6+8+11)
				Area (M.Ha.)	Value (Rs. Crore)	Nos. (‘000)	Value (Rs. Crore)				
1	2	3	4	5	6	7	8	9	10	11	12
22	2004	5.31	43.73	2.89	778.69	1664	879.60	134	1813	1656.09	3529.71
23	2005	12.56	22.93	12.30	2370.92	716	380.53	120	1455	4688.22	7660.49
24	2006	1.10	25.22	1.82	2850.67	1497	3636.85	267	1431	13303.93	21546.29
25	2007	7.14	41.40	8.79	3121.53	3280	2113.11	89	3389	8049.04	13425.34
26	2008	3.43	29.91	3.19	3401.56	1567	1141.89	102	2876	5046.48	9595.34
27	2009	3.84	29.54	3.59	4232.61	1236	10809.80	63	1513	17509.35	32554.77
28	2010	2.62	18.30	4.99	5887.38	294	875.95	40	1582	12757.25	19520.59
29	2011	1.90	15.97	2.72	1393.85	1153	410.48	36	1761	6053.57	7857.89
TOTAL		426.25	1913.39	223.57	66009.63	74042	33373.32	5699	97551	110203.29	213114.90
AVG		7.22	32.43	3.79	1118.81	1255	565.65	97	1653	1867.85	3612.12
MAX		17.50	70.45	12.30	7307.23	3508	10809.80	618	11316	17509.35	32554.77
(YEAR		1978	1978	2005	2003	1978	2009	1979	1977	2009	2009

Source : Central Water Commission [FFM Directorate]

Table 28: Statewise Damage due to Flood / Heavy Rains during 2011*

Sl. No.	Name of the 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 utilities (Rs Crores)
				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	0.00	0.00	0.00	0	0.00	0	0	0.00	0.00
2	Arunachal Pradesh	0.00	0.12	0.00	0.50	0	0.00	3	20	1203.30	1203.80
3	Assam	0.00	0.00	0.00	0.00	0	0.00	0	0	0.00	0.00
4	Bihar	0.00	0.58	0.16	59.87	34906	17.79	39	143	25.79	103.45
5	Chhattisgarh	0.02	0.17	0.01	3.79	39126	4.49	318	21	53.78	62.06
6	Goa	0	0	Neg	1.00	185	1.00	13	1	0.00	1.15
7	Gujarat	0.00	0.018	0.00	3.06	5007	3.35	212	110	5.83	12.24
8	Haryana	0.00	0.00	0.00	0.00	0	0.00	0	0	0.00	0.00
9	Himachal Pradesh	0.03	0.61	0.16	417.39	8467	0.48	2372	51	618.60	1036.47
10	Jammu&Kashmir	0.00	0.00	0.00	0.00	0	0.00	0	0	0	0.00
11	Jharkhand	0.00	0.00	0.00	0.00	0	0.00	0	0	0.00	0.00
12	Karnataka	0.00	0.00	0.00	0.00	0	0.00	0	0	0.00	0.00
13	Kerala	0.00	0.37	0.01	60.21	8436	9.32	466	119	71.53	141.07
14	Madhya Pradesh	0.00	0.00	0.008	0.004	15431	6.51	203	82	2.45	8.97
15	Maharashtra	0.00	0.00	0.00	0.00	0	0.00	0	106	0.00	0.00
16	Manipur	0.083	0.066	0.025	7.75	Nil	Nil	Nil	Nil	5.90	13.65
17	Meghalaya	0.00	0.00	0.00	0.00	0	0.00	0	0	0.00	0.00
18	Mizoram	0.00	0.00	0.00	0.00	0	0.00	0	0	0.00	0.00
19	Nagaland	0.00	0.00	0.00	0.00	0	0.00	0	0	0.00	0.00

Contd...

Table 28: Statewise Damage due to Flood / Heavy Rains during 2011*

Sl. No.	Name of the 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 utilities (Rs Crores)
				Area (M.Ha.)	Value (Rs.Crores)	Nos	Value (Rs.Crores)				
1	2	3	4	5	6	7	8	9	10	11	12
20	Orissa	0.00	5.98	0.52	0.00	178481	0.00	1487	87	2874.41	2874.41
21	Punjab	0.00	0.00	0.20	59.56	2538	6.47	28901	38	31.19	97.22
22	Rajasthan	0.00	0.00	0.00	0.00	0	0.00	0	0	0.00	0.00
23	Sikkim	0.00	0.00	0.00	0.00	0	0.00	0	0.00	0.00	0.00
24	Tamil Nadu	0.00	0.00	0.00	0.00	0	0.00	0	0	0.00	0.00
25	Tripura	0.002	0.08	0.00	5.86	653	0.60	29	14	1.05	7.50
26	U.P	0.53	2.31	0.40	199.94	313436	79.37	239	729	1159.13	1438.44
27	Uttarakhand	0.00	0	0	0	3325	0	1407	54	0	0.00
28	West Bengal	1.23	5.68	1.23	575.30	542519	281.56	293	186	0.60	857.46
29	Andaman&Nicobar	0.00	0.00	0.00	0.00	0	0.00	0	0	0.00	0.00
30	Chandigarh	0.00	0.00	0.00	0.00	0	0.00	0	0	0.00	0.00
31	Dadra & Nagar Haveli	0.00	0.00	0.00	0.00	0	0.00	0	0	0.00	0.00
32	Daman & Diu	0.00	0.00	0.00	0.00	0	0.00	0	0	0.00	0.00
33	Delhi	0.00	0.00	0.00	0.00	0	0.00	0	0	0.00	0.00
34	Lakshadweep	0.00	0.00	0.00	0.00	0	0.00	0	0	0.00	0.00
35	Puducherry	0.00	0.00	Neg	0.00	8	0.02	0	0	0.00	0.02
Total		1.90	15.97	2.72	1393.85	1152518	410.48	35982	1761	6053.57	7857.89

Source : Central water Commision (FFM Directorate)

* : Figures are Tentative.

Note : Neg : Negliable

TABLE 29: Flood Damage in India during 1953 TO 2011 (At 1993-94 Prices)**(Rs Crore)**

Sl. No.	Year	Damage to Crops		Total Damages	
		Current Price	1993-94 Prices	Value	1993-94 Prices
1	2	3	4	5	6
1	1953	42.08	637.58	52.40	793.94
2	1954	40.52	653.55	57.23	923.06
3	1955	77.80	1318.64	102.73	1741.19
4	1956	44.44	663.28	53.63	800.45
5	1957	14.12	204.64	23.37	338.70
6	1958	38.28	539.15	43.97	619.30
7	1959	56.76	767.03	86.20	1164.86
8	1960	42.55	538.61	63.17	799.62
9	1961	24.04	304.30	31.37	397.09
10	1962	83.18	1014.39	94.89	1157.20
11	1963	30.17	346.78	36.61	420.80
12	1964	56.87	586.29	66.61	686.70
13	1965	5.87	56.44	7.14	68.65
14	1966	80.15	673.53	88.43	743.11
15	1967	133.31	1009.92	155.43	1177.50
16	1968	144.61	1103.89	211.10	1611.45
17	1969	281.90	2072.79	404.44	2973.82
18	1970	162.78	1138.32	287.83	2012.80
19	1971	423.13	2802.19	632.48	4188.61
20	1972	98.56	590.18	158.19	947.25
21	1973	428.03	2129.50	569.00	2830.85
22	1974	411.64	1640.00	569.02	2267.01
23	1975	271.49	1094.72	471.64	1901.77
24	1976	595.03	2351.90	888.69	3512.61
25	1977	720.61	2709.06	1201.85	4518.23
26	1978	911.09	3425.15	1454.76	5469.02
27	1979	169.97	544.78	614.20	1968.59
28	1980	366.37	992.87	840.50	2277.78
29	1981	524.56	1298.42	1196.50	2961.63
30	1982	589.40	1423.67	1644.88	3973.14
31	1983	1285.85	2838.52	2491.61	5500.24
32	1984	906.09	1864.38	1905.56	3920.91
33	1985	1425.37	2778.50	4059.27	7912.81
34	1986	1231.58	2280.70	3748.53	6941.72
35	1987	1154.64	1983.92	2569.72	4415.33

Contd...

TABLE 29: Flood Damage in India during 1953 TO 2011 (At 1993-94 Prices)**(Rs Crore)**

Sl. No.	Year	Damage to Crops		Total Damages	
		Current Price	1993-94 Prices	Value	1993-94 Prices
1	2	3	4	5	6
36	1988	2510.9	4036.82	4630.30	7444.21
37	1989	956.74	1430.10	2405.33	3595.41
38	1990	695.61	943.84	1708.92	2318.75
39	1991	579.02	690.13	1488.33	1773.93
40	1992	1027.58	1113.30	3344.53	3623.54
41	1993	1308.63	1308.63	3282.49	3282.49
42	1994	888.62	799.12	1794.59	1613.84
43	1995	1714.79	1426.61	3702.31	3080.12
44	1996	1124.49	895.29	3005.74	2393.11
45	1997	692.74	527.60	2831.18	2156.27
46	1998	2594.17	1867.65	8860.72	6379.21
47	1999	1850.87	1287.11	3612.76	2512.35
48	2000	4246.62	2779.20	8864.54	5801.40
49	2001	688.48	428.43	7109.41	4424.03
50	2002	913.09	554.40	2574.54	1563.17
51	2003*	7298.13	4208.84	11325.87	6525.05
52	2004*	772.04	417.55	3529.71	1903.63
53	2005*	2375.31	1226.28	7660.49	3954.56
54	2006*	2840.82	1399.42	21546.30	10606.46
55	2007*	3112.73	1462.75	13425.34	6293.70
56	2008*	3394.91	1462.06	9595.34	4119.87
57	2009*	4224.86	1781.89	32554.78	13724.75
58	2010*	5880.73	-	19520.59	-
59	2011*	1386.10	-	7857.89	-
Total		65950.83	78424.64	213114.91	183027.58
Average		1117.81	1375.87	3612.12	3211.01
Maximum (Year)		7298.13 (2003)	4208.84 (2003)	32554.78 (2009)	13724.75 (2009)

Source : Central Water Commision (FFM Directorate)**Note: Totals may not tally due to rounding off.*****: Figures are tentative.**

TABLE 30: Planwise Expenditure under Flood Management

(Rs Crore)

Sl. No.	Period	States & U.Ts	Centre	Total	Cumulative benefits (Area-protected in Million Ha. at the end of the period)
1	2	3	4	5	6
1.	First Plan (1954-56)	13.21	-	13.21	1.00
2.	Second Plan (1956-61)	48.06	-	48.06	3.24
3.	Third Plan (1961-66)	82.09	-	82.09	5.43
4.	Annual Plans(1966-69)	41.96	-	41.96	5.83
5.	Fourth Plan (1969-74)	157.37	4.67	162.04	8.04
6.	Fifth Plan (1974-78)	242.46	56.15	298.61	9.98
7.	Annual Plans (1978-80)	290.13	39.83	329.96	11.21
8.	Sixth Plan (1980-85)	618.88	167.97	786.85	13.01
9.	Seventh Plan(1985-90)	781.02	160.56	941.58	13.80
10.	Annual Plan(1990-92)	393.61	66.83	460.44	14.20
11	Eighth Plan (1992-97)	1,641.14	226.17	1,867.31	15.29
12	Ninth Plan (1997-2002)	2,469.59	453.70	2,923.29	N.A
13	Tenth Plan (2002-2007)	3,601.38	742.80	4,344.18	18.22
14	Annual Plan (2007-2008) Actual Expenditure	4,824.60	97.69	4,922.29	N.A
15	Annual Plan 2008-09 Actual Expenditure	2,094.90	250.36	2,345.26	N.A
16	Annual Plan 2009-10 Actual Expenditure	2,211.60	250.04	2,461.64	N.A
17	Annual Plan 2010-11 Revised Approved Outlay	2,225.95	287.00	2,512.95	18.78
18	Annual Plan 2011-12 Approved Outlay	4,579.62	308.41	4,888.03	N.A

Sources: Central Water Commission(FMP Directorate), Planning Commission.

**Table 31: Planwise Expenditure & Cumulative Benefits (Area Protected) under Flood Management
(At 1993-94 Prices)**

(Rs.Crore)					
Sl. No.	Period	States & UTs	Centre	Total	Cumulative benefits (Area-protected in Million ha at the end of the period)
1	2	3	4	5	6
1	First Plan (1951-56)	203.23	-	203.23	1.00
2	Second Plan (1956-61)	667.50	-	667.50	3.24
3	Third Plan (1961-66)	912.11	-	912.11	5.43
4	Annual Plan(1966-69)	330.39	-	330.39	5.83
5	Fourth Plan (1969-74)	983.56	29.19	1,012.75	8.04
6	Fifth Plan (1974-78)	950.82	220.20	1,171.02	9.98
7	Annual Plan (1978-80)	1,003.91	137.82	1,141.73	11.21
8	Sixth Plan (1980-85)	1,456.19	510.62	1,966.81	13.01
9	Seventh Plan(1985-90)	1,335.08	274.46	1,609.54	13.80
10	Annual Plan(1990-92)	499.51	84.81	584.31	14.20
11	Eighth Plan (1992-97)	1,482.51	204.31	1,686.82	15.29
12	Ninth Plan (1997 - 2002)	1,677.71	308.22	1,985.93	N.A
13	Tenth Plan(2002-07)	1,932.07	398.50	2,330.57	18.22
14	Annual Plan (2007-2008) Actual Expenditure	2,236.72	45.29	2,282.01	N.A
15	Annual Plan 2008-09 Actual Expenditure	895.64	107.04	1,002.68	N.A
16	Annual Plan 2009-10 Actual Expenditure	910.50	102.94	1,013.44	N.A

Source : Central Water Commission (FMP Dte.), Planning Commission

Table 32: State-wise Planwise 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 Expenditure (2007-08)	Actual Expenditure (2008-09)	Actual Expenditure (2009-10)	Revised Approved Outlay (2010-11)	Approved Outlay (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	290.67	202.70	325.06
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	137.52	60.00	648.87
4	Bihar	316.98	1044.57	474.37	1518.94	232.18	670.47	404.94	412.03	983.88
5	Chhatisgarh	0.09	0.09	3.02	3.11	3.70	3.34	5.39	5.00**	7.50
6	Goa	6.61	11.99	29.81	41.80	18.10	37.94	72.35	69.90**	79.95
7	Gujarat	15.60	70.21	7.76	77.97	90.13	84.05	99.85	112.32**	93.31
8	Haryana	93.62	390.51	252.56	643.07	69.98	86.00	82.61	73.40**	100.00
9	Himachal Pradesh	31.05	51.64	79.08	130.72	22.79	27.52	70.97	105.00	92.53
10	Jammu & Kashmir	76.35	244.66	127.91	372.57	7.23	9.83	25.68*	30.33**	96.66
11	Jharkhand	0.00	0.00	125.97	125.97	4.11	2.12	8.26	15.00**	18.00
12	Karnataka	51.81	109.35	50.68	160.03	19.37	13.70	14.08	16.30	14.50
13	Kerala	116.44	305.75	41.45	347.20	41.05	24.57	94.43	30.35	200.35
14	Madhya Pradesh	14.71	18.92	14.48	33.40	13.30	9.87	7.25	10.00**	11.00
15	Maharashtra	8.01	115.85	17.44	133.29	3107.03	17.36	8.77	15.85**	29.02
16	Manipur	32.14	81.76	48.55	130.31	18.08	27.38	21.67	167.58	97.22
17	Meghalya	12.04	22.51	10.05	32.56	2.26	3.12	2.50	2.50**	2.75
18	Mizoram	0.00	1.11	0.00	1.11	0.00	0.00	0.00	0.00	0.00
19	Nagaland	0.44	1.40	14.40	15.80	7.08	4.44	7.58	0.68	5.00
20	Orissa	53.50	160.20	15.39	175.59	53.50	38.69	129.86	154.50	270.00
21	Punjab	349.56	703.35	126.08	829.43	43.57	109.97	70.91	45.22	131.47
22	Rajasthan	28.45	132.71	28.34	161.05	1.86	1.62	1.82	2.00	2.00

Contd...

Table 32: State-wise Planwise Financial Expenditure on Flood Management Work**(Rs Crores)**

Sl. No.	State/ UT	During IX Plan	Upto IX Plan	During X Plan	Upto X Plan	Actual Expenditure	Actual Expenditure	Actual Expenditure	Revised Approved Outlay	Approved Outlay
		(1997-02)	(1997-02)	(1902-07)	(1902-07)	(2007-08)	(2008-09)	(2009-10)	(2010-11)	(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	6.68	9.20**	96.74
24	Tamil Nadu	0.00	34.70	0.00	34.70	0.00	0.00	0.00	155.39	182.80
25	Tripura	26.73	56.94	34.86	91.80	11.55	9.22	8.00	1.86	36.92
26	Uttar Pradesh	139.88	495.00	909.64	1404.64	301.13	314.97	238.17	298.45	535.00
27	Uttarakhand	3.52	3.52	83.42	86.94	23.62	18.14	6.50	5.50**	10.50
28	West Bengal	653.69	1220.57	418.89	1639.46	146.19	140.90	289.48	78.55**	328.25
	Total States	2348.73	6335.74	3357.72	9693.46	4588.91	2031.13	2142.08	2150.00	4439.04
29	A & N Island	0.00	2.52	12.38	14.90	202.08	2.94	4.92	9.61**	15.23
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	0.26	0.30**	2.40
33	Delhi	77.92	289.71	106.20	395.91	0.00	41.84	59.32	37.80**	59.95
34	Lakshadweep	18.39	31.21	16.21	47.42	4.65	4.00	5.02	4.00**	3.00
35	Puducherry	23.19	44.23	106.99	151.22	27.60	14.83	0.00	24.24	60.00
	Total U.Ts.	120.86	370.88	243.66	614.5	235.69	63.77	69.52	75.95	140.58
	Total States & Uts	2469.59	6706.62	3601.38	10308.00	4824.60	2094.90	2211.60	2225.95	4579.62
	Central Sector	453.70	3229.95	742.80	3972.75	97.69	250.36	250.04	287.00	308.41
	GRAND TOTAL	2923.29	9936.57	4344.18	14280.75	4922.29	2345.26	2461.64	2512.95	4888.03

Source: Annual Plan Documents & Planning Commission.

*: Revised Approved Outlay.

**: Approved Outlay.

Note: - Total may not tally due to rounding off.

Table 33: State-wise Progress of Physical Works under Flood Management till March 2011

Sl. No.	Name of the State/U.T	Area Benefitted Upto March 2011 (Million Ha)	Length of Embankments (Km)	Length of Drainage Channels (Km)	Villages Raised/Protected (No.)	Town/Village Protection Work (No.)	Raised Platforms (No.)
1	2	3	4	5	6	7	8
1	Andhra Pradesh	1.311	2230.00	13569.00	23	72	-
2	Arunachal Pradesh	0.100	65.23	16.92	17	30	-
3	Assam	2.110	4467.90	857.79	1100	795	-
4	Bihar	2.949	3610.00	365.00	0	204	58
5	Chhattisgarh	0.000	0.00	0.00	0	0	-
6	Delhi	0.078	83.00	453.00	0	0	-
7	Goa	0.003	23.19	32.77	0	2	-
8	Gujarat	0.483	104.12	271.00	30	805	-
9	Haryana	2.000	1144.00	4385.00	98	448	7
10	Himachal Pradesh	0.018	159.16	11.00	82	0	-
11	Jammu & Kashmir	0.217	560.68	324.00	1301	22	-
12	Jharkhand	0.001	14.00	0.00	5	2	-
13	Karnataka	0.005	73.52	10.00	0	30	-
14	Kerala	0.346	205.74	82.19	6	4	-
15	Madhya Pradesh	0.004	26.00	0.00	0	37	-
16	Maharashtra	0.001	44.50	110.00	0	0	-
17	Manipur	0.132	577.00	166.00	512	38	-
18	Meghalaya	0.015	112.00	0.00	10	8	-
19	Mizoram	0.000	0.00	0.00	0	38	-
20	Nagaland	0.632	10.52	0.00	0	8	-

Contd...

Table 33: State-wise Progress of Physical Works under Flood Management till March 2011

Sl. No.	Name of the State/U.T	Area Benefitted Upto March 2011 (Million Ha)	Length of Embankments (Km)	Length of Drainage Channels (Km)	Villages Raised/Protected (No.)	Town/Village Protection Work (No.)	Raised Platforms (No.)
1	2	3	4	5	6	7	8
21	Orissa	0.630	7137.75	650.00	14	29	-
22	Punjab	3.190	1370.00	6622.00	0	3	-
23	Rajasthan	0.082	145.00	197.00	0	25	-
24	Sikkim	0.041	101.81	64.86	0	18	-
25	Tamil Nadu	0.122	87.00	19.00	4	46	-
26	Tripura	0.033	141.74	95.23	0	11	-
27	Uttar Pradesh	1.703	2097.00	3995.00	4511	65	-
28	Uttarakhand	0.002	9.00	0.00	0	6	-
29	West Bengal	2.568	10539.00	7392.76	0	48	-
30	A&N Islands	0.000	0.00	0.00	0	0	-
31	Chandigarh	0.000	0.00	0.00	0	0	-
32	Dadra & Nagar Haveli	0.000	0.00	0.00	0	0	-
33	Daman & Diu	0.000	0.00	0.00	0	0	-
34	Lakshadweep	0.000	0.00	0.00	0	0	-
35	Puducherry	0.004	61.00	20.00	0	0	-
Grand Total		18.78	35199.86	39709.52	7713	2794	65

Source : Flood Management Planning (FMP) Directorate , Central Water Commission

Table 34 (A) : Flood Forecasting Performance at various Forecasting stations during the flood season 2010

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2010		During 2010		
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY: HH)	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
Ganga Basin												
1	Alaknanda	Srinagar	Uttarakhand	539.00	540.00	536.85	05/09/1995	536.00	19/09/2010 1:00	0	0	
2	Ganga	Rishikesh	Uttarakhand	339.50	340.50	341.72	03/09/1978	341.50	19/09/2010 5:00	35	27	77.14
3	Ganga	Haridwar	Uttarakhand	293.00	294.00	296.23	02/09/1978	296.30	19/09/2010 8:00	51	34	66.67
4	Ganga	Narora Barrage	Uttar Pradesh			180.18	06/09/1978	180.61	23/09/2010;10:00	72	70	97.22
5	Ganga	Kannauj	Uttar Pradesh	124.97	125.97	126.24	29/08/1998	126.78	27/09/2010;07:00	44	44	100.00
6	Ganga	Ankinghat	Uttar Pradesh	123.00	124.00	124.31	09/09/1978	124.49	28/09/2010;05:00	44	44	100.00
7	Ganga	Kanpur	Uttar Pradesh	113.00	114.00	113.47	02/09/1967	114.08	29/09/2010;14:00	53	51	96.23
8	Ganga	Dalmau	Uttar Pradesh	98.36	99.36	99.84	03/08/1973	99.63	30/09/2010;19:00	37	37	100.00
9	Ganga	Phphamau Allahabad	Uttar Pradesh	83.73	84.73	87.98	08/09/1978	81.36	02/10/2010:17	0	0	
10	Ganga	Chhatnag	Uttar Pradesh	83.73	84.73	88.03	08/09/1978	79.54	02/10/2010:12	0	0	
11	Ganga	Mirzapur	Uttar Pradesh	76.72	77.72	80.34	09/09/1978	72.76	03/10/2010:08	0	0	
12	Ganga	Varanasi	Uttar Pradesh	70.26	71.26	73.90	09/09/1978	67.58	03/10/2010:17	0	0	
13	Ganga	Ghazipur	Uttar Pradesh	62.11	63.11	65.22	09/09/1978	61.33	03/10/2010:16	0	0	
14	Ganga	Buxar	Bihar	59.32	60.32	62.09	1948	58.42	03/10/2010 (17-24) hrs	0	0	
15	Ganga	Ballia Patna	Uttar Pradesh	56.62	57.62	60.25	14/09/2003	57.60	26/09/2010:01	33	33	100.00
16	Ganga	Dighaghat Patna	Bihar	49.45	50.45	52.52	23/08/1975	49.77	25/09/2010 20 hrs	28	28	100.00
17	Ganga	Gandhighat	Bihar	47.60	48.60	50.27	14/08/1994	48.77	20/09/2010 20 hrs	46	46	100.00
18	Ganga	Hathidah	Bihar	40.76	41.76	43.15	07/08/1971	41.78	21/09/2010 08 hrs	44	44	100.00
19	Ganga	Munger	Bihar	38.33	39.33	40.99	19/09/1976	38.14	02/09/2010 14 hrs	0	0	

Contd...

Table 34 (A) : Flood Forecasting Performance at various Forecasting stations during the flood season 2010

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2010		During 2010		
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY: HH)	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
20	Ganga	Bhagalpur	Bihar	32.68	33.68	34.20	17/09/2003	33.26	03/09/2010 17 hrs	35	35	100.00
21	Ganga	Kahalgaon	Bihar	30.09	31.09	32.87	17/09/2003	31.59	03/09/2010 11 hrs	45	45	100.00
22	Ganga	Sahibgunj	Jharkhand	26.25	27.25	30.91	1998	27.96	03/09/2010 03 hrs	52	52	100.00
23	Ganga	Farakka	West Bengal	21.25	22.25	25.14	07/09/1998	23.13	03/09/2010 23 hrs	99	97	97.98
24	Ramganga	Moradabad	Uttar Pradesh	189.60	190.60	192.68	03/09/1978	192.88	21/09/2010;02:00	39	37	94.87
25	Ramganga	Bareilly	Uttar Pradesh	162.70	163.70	162.88	06/08/1978	162.82	22/09/2010;21:00	5	5	100.00
26	Yamuna	Tajewala Weir	Haryana			328.27	03/09/1978	338.10	20.09.10	0	0	
27	Yamuna	Mawi	Uttar Pradesh	230.00	230.85	232.45	26/09/1988	232.33	21.09.10	47	44	93.62
28	Yamuna	Delhi Rly Bridge	NCT Delhi	204.00	204.83	207.49	06/09/1978	207.11	22.09.10	46	42	91.30
29	Yamuna	Mathura	Uttar Pradesh	164.20	165.20	169.73	08/09/1978	167.34	26.09.10	65	65	100.00
30	Yamuna	Agra	Uttar Pradesh	151.40	152.40	154.76	09/09/1978	152.08	27/Sep/10 00	12	12	100.00
31	Yamuna	Etawa	Uttar Pradesh	120.92	121.92	126.13	11/09/1978	122.41	29/Sep/10 00	17	16	94.12
32	Yamuna	Auraiya	Uttar Pradesh	112.00	113.00	118.19	25/08/1996	105.13	30/Sep/10 00	0	0	
33	Yamuna	Kalpi	Uttar Pradesh	107.00	108.00	112.98	25/08/1996	100.09	23/09/2010 01	0	0	
34	Yamuna	Hamirpur	Uttar Pradesh	102.63	103.63	108.59	12/09/1983	94.43	23/09/2010 18	0	0	
35	Yamuna	Chilaghat	Uttar Pradesh	99.00	100.00	105.16	06/09/1978	91.99	05/09/2010 15	0	0	
36	Yamuna	Naini	Uttar Pradesh	83.74	84.74	87.99	08/09/1978	80.14	02/10/2010 18	0	0	
37	Sahibi	Dhansa	NCT Delhi	211.44	212.44	213.58	06/08/1977	210.38	23.09.10	0	0	
38	Chambal	Gandhisagar Dam	Madhya Pradesh							0	0	
39	Betwa	Mohana	Uttar Pradesh	121.66	122.66	133.35	11/09/1983	113.79	27/07/2010 19	0	0	

Contd...

Table 34 (A) : Flood Forecasting Performance at various Forecasting stations during the flood season 2010

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2010		During 2010		
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY: HH)	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
40	Betwa	Sahjina	Uttar Pradesh	103.54	104.54	108.67	12/09/1983	93.87	23/09/2010 17	0	0	
41	Ken	Banda Lucknow	Uttar Pradesh	103.00	104.00	113.29	7/7/2005	102.30	27/07/2010 20	0	0	
42	Gomati	HanumanSetu	Uttar Pradesh	108.50	109.50	110.85	11/09/1971	106.32	28/09/2010;20:00	0	0	
43	Gomati	Jaunpur	Uttar Pradesh	73.07	74.07	77.74	22/09/1971	70.06	30/09/2010:18	0	0	
44	SAI	Raibareli	Uttar Pradesh	100.00	101.00	104.81	17/09/1982	98.25	03/08/2010;13:00	0	0	
45	Ghaghra	Elgin Bridge	Uttar Pradesh	105.07	106.07	107.56	10/10/2009	107.16	26/08/2010 05	73	71	97.26
46	Ghaghra	Ayodhya	Uttar Pradesh	91.73	92.73	94.01	11/10/2009	93.91	27/08/2010 21	77	75	97.40
47	Ghaghra	Turtipar	Uttar Pradesh	63.01	64.01	66.00	28/08/1998	64.80	29/08/2010 21	76	75	98.68
48	Ghaghra	Darauli	Bihar	59.82	60.82	61.74	29/08/1998	61.05	29/08/2010 14 hrs	50	50	100.00
49	Ghaghra	Gangpur Siswan	Bihar	56.04	57.04	58.01	18/09/1983	57.41	31/08/2010 09 hrs	41	41	100.00
50	Ghaghra	Chhapra	Bihar	52.68	53.68	54.59	03/09/1982	50.88	26/09/2010 07hrs	0	0	
51	Rapti	Balrampur	Uttar Pradesh	103.62	104.62	105.25	11/09/2000	104.47	25/08/2010 22	21	21	100.00
52	Rapti	Bansi Gorakpur	Uttar Pradesh	83.90	84.90	85.82	21/08/1998	84.89	29/08/2010 22	29	29	100.00
53	Rapti	Birdghat	Uttar Pradesh	73.98	74.98	77.54	23/08/1998	75.98	29/08/2010 22	44	44	100.00
54	Sone	Inderpuri	Bihar	107.20	108.20	108.85	23/08/1975	104.10	14/07/2010 08 hrs	0	0	
55	Sone	Koelwar	Bihar	54.52	55.52	58.88	20/07/1971	52.01	25/09/2010 18 hrs	0	0	
56	Sone	Maner	Bihar	51.00	52.00	53.79	10/09/1976	51.31	25/09/2010 21 hrs	20	20	100.00
57	PunPun	Sripalpur	Bihar	49.60	50.60	53.91	18/09/1976	50.23	20/09/2010 06 hrs	6	6	100.00
58	Gandak	Khadda	Uttar Pradesh	95.00	96.00	97.50	23/07/2002	96.30	24/08/2010 15 hrs	109	109	100.00
59	Gandak	Chatia	Bihar	68.15	69.15	70.04	26/07/2002	69.45	27/08/2010 04 hrs	12	12	100.00

Contd...

Table 34 (A) : Flood Forecasting Performance at various Forecasting stations during the flood season 2010

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2010		During 2010		
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY: HH)	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
60	Gandak	Rewaghat	Bihar	53.41	54.41	55.41	17/09/1986	54.54	28/08/2010 10 hrs	28	28	100.00
61	Gandak Burhi	Hazipur	Bihar	49.32	50.32	50.93	1948	49.16	29/08/2010 06 hrs	0	0	
62	Gandak Burhi	Lalbeghiaghat Muzaffarpur	Bihar	62.20	63.20	67.09	30/07/1975	62.92	31/08/2010 13 hrs	9	9	100.00
63	Gandak Burhi	Sikandarpur	Bihar	51.53	52.53	54.29	15/08/1987	51.65	04/09/2010 04 hrs	4	4	100.00
64	Gandak Burhi	Samastipur	Bihar	45.02	46.02	49.38	15/08/1987	45.56	05/09/2010 07 hrs	8	8	100.00
65	Gandak Burhi	Rosera	Bihar	41.63	42.63	46.35	16/08/1987	42.34	05/09/2010 12 hrs	10	10	100.00
66	Gandak	Khagaria	Bihar	35.58	36.58	39.22	1976	36.95	06/09/2010 01 hr	41	41	100.00
67	Bagmati	Benibad	Bihar	47.68	48.68	50.01	12/07/2004	49.71	27/08/2010 18 hrs	93	93	100.00
68	Bagmati Adhwara	Hayaghat	Bihar	44.72	45.72	48.96	14/08/1987	45.15	01/09/2010 17 hrs	5	5	100.00
69	Group Adhwara	Kamtaul	Bihar	49.00	50.00	52.99	12/08/1987	50.03	29/08/2010 05hrs	13	13	100.00
70	Group	Ekmighat	Bihar	45.94	46.94	49.52	12/07/2004	46.30	30/08/2010 21 hrs	7	7	100.00
71	Kamla Balan	Jhanjharpur	Bihar	49.00	50.00	53.01	10/07/2004	51.69	25/08/2010 15 hrs	37	37	100.00
72	Kosi	Basua	Bihar	46.75	47.75	48.87	11/07/2004	49.17	25/08/2010 06 hrs	232	232	100.00
73	Kosi	Baltara	Bihar	32.85	33.85	36.40	15/08/1987	35.05	29/08/2010 19 hrs	88	88	100.00
74	Kosi	Kursela	Bihar	29.00	30.00	32.04	06/09/1998	30.66	03/09/2010 23 hrs	45	45	100.00
75	Mahananda	Dhengraghat	Bihar	34.65	35.65	38.09	1968	36.81	22/07/2010 14 hrs	76	76	100.00
76	Mahananda	Jhawa	Bihar	30.40	31.40	33.51	14/08/1987	32.05	23/07/2010 18 hrs	139	139	100.00

Contd...

Table 34 (A) : Flood Forecasting Performance at various Forecasting stations during the flood season 2010

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2010		During 2010		
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY: HH)	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
77	Mayurakshi	Massanjore Dam	Jharkhand	121.31		122.87	25/09/1999	115.47	15/10/2010 16 hrs	0	0	
78	Mayurakshi	Tilpara Barrage	West Bengal	62.79		67.05	27/09/1978	62.79	12/10/2010 11 hrs	0	0	
79	Mayurakshi	Narayanpur	West Bengal	26.99	27.99	29.69	27/09/1995	23.91	26/08/2010 21 hrs	0	0	
80	Ajoy	Gheropara	West Bengal	38.42	39.42	43.94	27/09/1978	37.65	26/08/2010 19 hrs	0	0	
81	Damodar	Tenughat Dam	Jharkhand	268.83		265.56	17/09/1985	260.16	20/09/2010 11 hrs	4	4	100.00
82	Damodar	Panchet Dam	Jharkhand	132.59		132.89	02/10/1959	126.03	28/09/2010 21 hrs	16	16	100.00
83	Damodar	Durgapur Barrage	West Bengal	64.47		64.47	31/10/2002	64.47	15/07/2010 01 hr	1	1	100.00
84	Barakar	Maithon Dam	Jharkhand	150.88		151.79	02/10/1959	146.70	29/09/2010 03 hrs	14	14	100.00
85	Mundeshwari	Harinkhola Kangsabati	West Bengal	11.80	12.80	14.58	29/09/1978	7.42	25/08/2010 18 hrs	0	0	
86	Kangsabati	Dam	West Bengal	134.11		134.71	02/09/1978	125.61	10/10/2010 06 hrs	0	0	
87	Kangsabati	Mohanpur	West Bengal	24.73	25.73	29.87	02/09/1978	20.26	01/07/2010 11 hrs	0	0	
Brahmaputra Basin												
88	Brahmaputra	Dibrugrah	Assam	103.24	104.24	106.48	03/09/1998	105.97	09/09/2010(18-21)	307	307	100.00
89	Brahmaputra	Neamatighat	Assam	84.04	85.04	87.37	11/07/1991	86.38	10/09/2010(13-15)	143	143	100.00
90	Brahmaputra	Tezpur	Assam	64.23	65.23	66.59	27/08/1988	65.69	11-12/9/2010(23-12)	95	95	100.00
91	Brahmaputra	Guwahati	Assam	48.68	49.68	51.46	21/07/2004	49.93	13/09/10 (10-18)hrs	59	59	100.00
92	Brahmaputra	Goalpara	Assam	35.27	36.27	37.43	31/07/1954	36.37	13/09/10(19-24)hrs	86	86	100.00
93	Brahmaputra	Dhubri	Assam	27.62	28.62	30.36	28/08/1988	29.30	29/06/2010 24 hr	252	252	100.00
94	Burhidihing	Naharkatia	Assam	119.40	120.40	122.69	17/06/1973	118.57	31/07/2010(18-19)	0	0	

Contd...

Table 34 (A) : Flood Forecasting Performance at various Forecasting stations during the flood season 2010

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2010		During 2010		
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY: HH	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
95	Burhidihing	Khowang	Assam	101.11	102.11	103.92	25/08/1988	102.52	23/07/2010(09-17)	50	50	100.00
96	Desang	Nanglamoraghat	Assam	93.46	94.46	96.49	06/09/1998	95.88	22/07/2010(06-09)	84	84	100.00
97	Dikhow	Shivsagar	Assam	91.40	92.40	95.62	08/07/1974	93.81	27-28/06/10(23-03)	101	100	99.01
98	Subansiri	Badatighat	Assam	81.53	82.53	86.84	28/06/1972	82.35	10/09/2010(21-24)	41	41	100.00
99	Dhansiri (S)	Golaghat	Assam	88.50	89.50	91.30	11/10/1986	89.98	09/10/2010(2400)	117	117	100.00
100	Dhansiri (S)	Numaligarh	Assam	76.42	77.42	79.87	24/09/1985	78.88	22/08/2010(13-15)	258	256	99.22
101	Jiabharali	Jiabharali_NTX	Assam	76.00	77.00	78.50	26/07/2007	77.75	23/08/2010(08-12)	355	352	99.15
102	Kopilli	Kampur	Assam	59.50	60.50	61.86	16/06/1973	61.52	10/10/2010(16-18)	12	12	100.00
103	Kopilli	Dharmatul Puthimari	Assam	55.00	56.00	58.09	21/07/2004	55.65	12/10/2010(09-24)	31	31	100.00
104	Puthimari	_NHX	Assam	50.81	51.81	55.08	31/08/2008	54.22	28/06/10(18-19)hrs	307	297	96.74
105	Pagladiya	Pagladia_NTX	Assam	51.75	52.75	55.45	08/07/2004	52.51	28/06/10(18-19)hrs	18	18	100.00
106	Beki	Beki Rd Bridge	Assam	44.10	45.10	46.20	04/08/2000	45.80	28/06/2010 (05-06) hrs	471	471	100.00
107	Manas	Manas NHX	Assam	47.81	48.42	50.08	15/09/1984	48.79	28/06/2010 (12-13)hrs	34	34	100.00
108	Sankosh	Golakganj	Assam	28.94	29.94	30.95	08/09/2007	30.45	12/07/2010 (04-06) hrs	170	169	99.41
109	Raidak-I	Tufanganj	West Bengal	34.22	35.30	36.36	21/07/1993	34.84	12/07/2010 (07-11) hrs	18	16	88.89
110	Torsa	Ghughumari	West Bengal	39.80	40.41	41.46	03/08/2000	40.58	21/07/2010 (19-21) hrs	58	57	98.28
111	Jaldhaka	NH-31	West Bengal	80.00	80.90	81.33	28/08/1972	80.30	09/7/2010 (14) hr	45	45	100.00
112	Jaldhaka	Mathabhanga	West Bengal	47.70	48.20	49.85	07/09/2007	48.00	21/07/2010 (16-17)hrs	5	5	100.00
113	Tista	Domohani	West Bengal	85.65	85.95	89.30	04/10/1968	86.09	24/08/2010 (02-03) hrs	115	115	100.00
114	Tista	Mekhliganj	West Bengal	65.45	65.95	66.45	13/07/1996	65.91	23/08/2010 (24)hr	45	45	100.00

Contd...

Table 34 (A) : Flood Forecasting Performance at various Forecasting stations during the flood season 2010

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2010		During 2010		
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY: HH)	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
Barak & Meghna Basins												
115	Barak	APGhat	Assam	18.83	19.83	21.84	01/08/1989	20.72	10/06/10(21-24)hrs	118	115	97.46
116	Katakhal	Matizuri	Assam	19.27	20.27	22.73	10/09/2007	21.13	06/06/10(06-07)	79	79	100.00
117	Kushiyara	Karimganj	Assam	13.94	14.94	16.55	09/09/2007	16.57	10/06/10(23-24)hrs	241	241	100.00
118	Manu	Kailashar	Tripura	24.34	25.34	25.79	07/06/1993	24.99	09/10/10(15-16)hrs	5	1	20.00
119	Gumti	Sonamura	Tripura	11.50	12.50	14.42	23/07/1993	11.77	09/10/10(08-09)hrs	2	1	50.00
Eastern Rivers (Excluding Mahanadi)												
120	Subernarekna	Rajghat NH_5_Road	Odisha	9.45	10.36	12.69	19/06/2008	7.11	20/09/2010 17 hrs	0	0	
121	Burhabalang	Bridge	Odisha	7.21	8.13	9.50	12/10/1973	7.34	19/09/2010 14 hrs	1	1	100.00
122	Baitarni	Anandpur	Odisha	37.44	38.36	41.20	19/08/1975	35.53	20/09/2010 06 hrs	0	0	
123	Baitarni	Akhuapada	Odisha		17.83	21.95	16/08/1960	17.40	25/07/2010 06 hrs	0	0	
124	Brahmani	Jenapur	Odisha	22.00	23.00	24.78	20/08/1975	19.72	07/08/2010 15 hrs	0	0	
125	Rushikuluya	Purushottampur	Odisha	15.83	16.83	19.65	04/11/1990	15.28	08/09/2010 15 hrs	0	0	
126	Vamsadhara	Gunupur	Odisha	83.00	84.00	88.75	17/09/1980	82.67	06/08/2010 06 hrs	0	0	
127	Vamsadhara	Kashinagar	Odisha	53.60	54.60	58.93	18/09/1980	55.00	05/08/2010 04 hrs	52	52	100.00
128	Vamsadhara	Gotta Barrage	Andhra Pradesh	34.84	34.84	39.92	07/10/1999	34.84	01/07/2010 01 hr	7	7	100.00
Mahanadi Basin												
129	Mahanadi	Hirakud Dam	Odisha	192.02		192.30	30/01/1998	192.02	25/09/2010 18 hrs	59	58	98.31

Contd...

Table 34 (A) : Flood Forecasting Performance at various Forecasting stations during the flood season 2010

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2010		During 2010		
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY: HH)	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
130	Mahanadi	Naraj	Odisha	25.41	26.41	27.61	31/08/1982	26.76	25/09/2010 24 hrs	12	12	100.00
131	Mahanadi	Alipingal Devi	Odisha	10.85	11.76	13.05	20/09/2008	8.50	21/09/2010 08 hrs	0	0	
132	Mahanadi	Nimapara	Odisha	9.85	10.76	11.60	31/08/1982	6.86	08/08/2010 24 hrs	0	0	
Godavari Basin												
133	Godavari	Kopergaon	Maharashtra	490.90	493.68	499.17	1969	489.85	04/08/2010 19 hrs	0	0	
134	Godavari	Jaikwadi Dam	Maharashtra	463.91		464.69	12/10/1990	461.31	11/10/2010 13 hrs	0	0	
135	Godavari	Gangakhed	Maharashtra	374.00	375.00	377.57	1947	369.91	13/08/2010 19 hrs	0	0	
136	Godavari	Nanded	Maharashtra	353.00	354.00	357.10	06/08/2006	346.30	07/08/2010 14 hrs	0	0	
137	Godavari	Sriram Sagar	Andhra Pradesh	332.54		332.72	13/10/1990	332.54	12/09/2010 19 hrs	29	27	93.10
138	Godavari	Kaleswaram	Andhra Pradesh	103.50	104.75	107.05	15/08/1986	103.81	09/09/2010 07 hrs	3	3	100.00
139	Godavari	Eturunagaram	Andhra Pradesh	73.29	75.79	77.66	24/08/1990	75.93	07/08/2010 24 hrs	61	56	91.80
140	Godavari	Dummagudam	Andhra Pradesh	53.00	55.00	60.25	16/08/1986	56.23	08/08/2010 07 hrs	51	47	92.16
141	Godavari	Bhadrachalam	Andhra Pradesh	45.72	48.77	55.66	16/08/1986	50.81	08/08/2010 14 hrs	72	68	94.44
142	Godavari	Kunavaram	Andhra Pradesh	37.74	39.24	51.30	16/08/1986	42.00	09/08/2010 03 hrs	62	56	90.32
143	Godavari	Rajamundry	Andhra Pradesh	17.68	19.51	20.48	16/08/1986	18.37	09/08/2010 07 hrs	25	22	88.00
144	Godavari	Dowalaiswaram	Pradesh	14.25	16.08	18.36	8/16/1986	16.14	09/08/2010 09 hrs	80	80	100.00
145	Wardha	Balharsha	Maharashtra	171.50	174.00	176.00	15/08/1986	172.25	08/08/2010 08 hrs	9	8	88.89

Contd...

Table 34 (A) : Flood Forecasting Performance at various Forecasting stations during the flood season 2010

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2010		During 2010		
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY: HH)	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
146	Wainganga	Bhandara	Maharashtra	244.00	244.50	250.90	16/09/2005	243.95	08/09/2010 22 hrs	0	0	
147	Wainganga	Pauni	Maharashtra	226.73	227.73	232.35	07/09/1994	226.38	09/09/2010 06 hrs	0	0	
148	Manjira	Singur Dam	Pradesh	523.60		523.60	15/10/1999	523.60	12/09/2010 08 hrs	21	20	95.24
149	Manjira	Nizamsagar Dam	Andhra Pradesh	428.24		428.24	10/15/1999	428.24	02/09/2010 24 hrs	13	13	100.00
150	Indravati	Jagdapur	Chhatisgarh	539.50	540.80	544.68	09/07/1973	544.08	06/08/2010 19 hrs	57	51	89.47
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	30/8/2010 06 hrs	31	30	96.77
153	Krishna	Narayanpur Dam	Karnataka	492.25		492.22	26/09/2008	492.03	21/10/2010 15 hrs	43	41	95.35
154	Krishna	Priyadarshini	Andhra Pradesh	318.52		316.50	21/10/1993	318.20	28/06/2010 09 hrs	133	127	95.49
155	Krishna	Srisailem Dam	Pradesh	269.75		273.25	03/10/2009	269.75	30/08/2010 01 hr	133	124	93.23
156	Krishna	Prakasham Barrage	Andhra Pradesh	18.30		21.50	07/10/1903	17.39	15/06/2010 01 hr	110	100	90.91
157	Bhima	Deongaon	Karnataka	402.00	404.50	407.34	13/08/2006	400.05	23/08/2010 17 hrs	0	0	
158	Tungbhadra	Tungabhadra Dam	Karnataka	497.74		497.74	05/10/1992	497.74	21/08/2010 16 hrs	150	145	96.67
159	Tungbhadra	Mantralayam	Andhra Pradesh	310.00	312.00	318.77	02/10/2009	312.69	25/08/2010 08 hrs	14	14	100.00
Southern River System:												
160	Pennar	Nellore	Andhra Pradesh	15.91	17.28	18.70	30/11/1882	13.60	28/08/2010 08 hrs	0	0	

Contd...

Table 34 (A) : Flood Forecasting Performance at various Forecasting stations during the flood season 2010

Sl.No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2010		During 2010		
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY: HH)	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
Western River Systems:												
161	Banas	Dantiwada Dam	Gujarat	182.88	185.06	186.04	01/09/1973	173.23	22/09/2010 11 hrs	0	0	
162	Sabarmati	Dharoi Dam	Gujarat	187.45	192.25	189.63	03/09/1990	186.77	08/10/2010 08 hrs	1	1	100.00
163	Sabarmati	Ahmedabad Shubhash Bridge	Gujarat	44.09	45.34	47.45	19/08/2006	41.84	15/10/2010 19 hrs	0	0	
164	Mahi	Kadana Dam	Gujarat	126.19	127.71	127.74	09/09/1989	125.96	25/09/2010 04 hrs	0	0	
165	Mahi	Wanakbori	Gujarat	71.00	72.54	76.10	12/08/2006	67.59	10/09/2010 09 hrs	0	0	
166	Naramada	Mandla	Madhya Pradesh	437.20	437.80	439.41	18/08/1974	436.22	26/07/2010 10 hrs	0	0	
167	Naramada	Hoshangabad	Madhya Pradesh	292.83	293.83	300.90	30/08/1973	290.05	05/09/2010 14 hrs	0	0	
168	Naramada	Garudeswar	Gujarat	30.48	31.09	41.65	06/09/1970	18.93	10/09/2010 06 hrs	0	0	
169	Naramada	Bharuch	Gujarat	6.71	7.31	12.65	07/09/1970	6.10	11/09/2010 06 hrs	0	0	
170	Tapi	Hatnur Dam	Maharashtra	212.00	214.00	214.00	12/10/1989	214.00	01/10/2010 08 hrs	111	110	99.10
171	Tapi	Ukai Dam	Gujarat	102.41	105.16	105.51	08/10/1990	103.81	19/09/2010 15 hrs	79	79	100.00
172	Tapi	Surat	Gujarat	8.50	9.50	12.50	09/08/2006	6.80	11/09/2010 07 hrs	0	0	
173	Damanganga	Madhuban Dam	Gujarat	79.86	82.40	80.60	27/09/1993	80.00	07/10/2010 06 hrs	1	1	100.00
174	Damanganga	Vapi Town	Gujarat	18.20	19.20	23.76	03/08/2004	16.10	09/09/2010 11 hrs	0	0	
175	Damanganga	Daman	Dadra & Nagar Haveli	2.60	3.40	4.00	03/08/2004	1.90	26/06/2010 16 hrs	0	0	
Total Forecasts										7519	7378	98.12
Level Forecasts										6491	6390	98.44
Inflow Forecast										1028	988	96.11

Source : Central Water Commission (Flood Forecasting Monitoring Directorate)

Note : FF : Flood Forecasting

m: Meter

Table 34 (B) : Flood Forecasting Performance at various Forecasting stations during Flood Season 2009

Sl. No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2009		During 2009		
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY: HH)	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	Uttaranchal	539.00	540.00	536.85	05/09/1995	534.35	11/Sep/09 01	0	0	
2	Ganga	Rishikesh	Uttaranchal	339.50	340.50	341.72	03/09/1978	339.02	11/Sep/09 04	0	0	
3	Ganga	Haridwar	Uttaranchal	293.00	294.00	296.23	02/09/1978	293.15	11/Sep/09 05	1	0	0
4	Ganga	Narora Barrage	Uttar Pradesh			180.18	06/09/1978	179.16	29/Jul/09 06	4	3	75
5	Ganga	Kannauj	Uttar Pradesh	124.97	125.97	126.24	29/08/1998	124.48	15/Sep/09 19	0	0	
6	Ganga	Ankinghat	Uttar Pradesh	123.00	124.00	124.31	09/09/1978	122.62	15/Sep/09 14	0	0	
7	Ganga	Kanpur	Uttar Pradesh	113.00	114.00	113.47	02/09/1967	111.98	16/Sep/09 09	0	0	
8	Ganga	Dalmau	Uttar Pradesh	98.36	99.36	99.84	03/08/1973	97.85	17/Sep/09 01	0	0	
9	Ganga	Phphamau Allahabad	Uttar Pradesh	83.73	84.73	87.98	08/09/1978	78.77	17/Aug/09 21	0	0	
10	Ganga	Chhatnag	Uttar Pradesh	83.73	84.73	88.03	08/09/1978	77.53	14/Sep/09 00	0	0	
11	Ganga	Mirzapur	Uttar Pradesh	76.72	77.72	80.34	09/09/1978	70.52	14/Sep/09 17	0	0	
12	Ganga	Varanasi	Uttar Pradesh	70.26	71.26	73.90	09/09/1978	65.31	15/Sep/09 02	0	0	
13	Ganga	Ghazipur	Uttar Pradesh	62.11	63.11	65.22	09/09/1978	59.29	15/Sep/09 21	0	0	
14	Ganga	Buxar	Bihar	59.32	60.32	62.09	1948	56.58	16/Sep/09 06	0	0	
15	Ganga	Ballia	Uttar Pradesh	56.62	57.62	60.25	14/09/2003	55.89	16/Sep/09 14	0	0	
16	Ganga	Patna Dighaghat	Bihar	49.45	50.45	52.52	23/08/1975	48.67	15/Oct/09 13	0	0	
17	Ganga	Patna Gandhighat	Bihar	47.60	48.60	50.27	14/08/1994	47.57	25/Aug/09 17	2	2	100
18	Ganga	Hathidah	Bihar	40.76	41.76	43.15	07/08/1971	40.91	26/Aug/09 13	7	7	100
19	Ganga	Munger	Bihar	38.33	39.33	40.99	19/09/1976	37.05	27/Aug/09 16	0	0	
20	Ganga	Bhagalpur	Bihar	32.68	33.68	34.20	17/09/2003	32.18	27/Aug/09 08	0	0	

Contd...

Table 34 (B) : Flood Forecasting Performance at various Forecasting stations during Flood Season 2009

Sl. No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2009		During 2009		
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY: HH)	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
21	Ganga	Kahalgaon	Bihar	30.09	31.09	32.87	17/09/2003	30.59	27/Aug/09 04	13	13	100
22	Ganga	Sahibgunj	Jharkhand	26.25	27.25	30.91	1998	27.19	28/Aug/09 05	34	34	100
23	Ganga	Farakka	West Bengal	21.25	22.25	25.14	07/09/1998	22.58	27/Aug/09 10	82	81	98.78
24	Ramganga	Moradabad	Uttar Pradesh	189.60	190.60	192.68	03/09/1978	189.95	13/Sep/09 17	5	5	100
25	Ramganga	Bareilly	Uttar Pradesh	162.70	163.70	162.88	06/08/1978	161.12	19/Aug/09 19	0	0	
26	Yamuna	Tajewala Weir	Haryana			328.27	03/09/1978	335.80	11/Sep/09 02	0	0	
27	Yamuna	Mawi	Uttar Pradesh	230.00	230.85	232.45	26/09/1988	230.98	12/Sep/09 21	4	4	100
28	Yamuna	Delhi Rly Bridge	NCT Delhi	204.00	204.83	207.49	06/09/1978	205.33	15/Sep/09 03	5	4	80
29	Yamuna	Mathura	Uttar Pradesh	164.20	165.20	169.73	08/09/1978	165.15	16/Sep/09 23	8	8	100
30	Yamuna	Agra	Uttar Pradesh	151.40	152.40	154.76	09/09/1978	149.98	17/Sep/09 18	0	0	
31	Yamuna	Etawa	Uttar Pradesh	120.92	121.92	126.13	11/09/1978	119.00	18/Sep/09 18	0	0	
32	Yamuna	Auraiya	Uttar Pradesh	112.00	113.00	118.19	25/08/1996	104.68	27/Jul/09 08	0	0	
33	Yamuna	Kalpi	Uttar Pradesh	107.00	108.00	112.98	25/08/1996	99.53	28/Jul/09 03	0	0	
34	Yamuna	Hamirpur	Uttar Pradesh	102.63	103.63	108.59	12/09/1983	93.46	28/Jul/09 18	0	0	
35	Yamuna	Chilaghat	Uttar Pradesh	99.00	100.00	105.16	06/09/1978	92.56	13/Sep/09 01	0	0	
36	Yamuna	Naini	Uttar Pradesh	83.74	84.74	87.99	08/09/1978	78.22	13/Sep/09 22	0	0	
37	Sahibi	Dhansa	NCT Delhi	211.44	212.44	213.58	06/08/1977	210.50	14/Sep/09 08	0	0	
38	Chambal	Gandhisagar Dam	Madhya Pradesh							0	0	
39	Betwa	Mohana	Uttar Pradesh	121.66	122.66	133.35	11/09/1983	114.95	12/Sep/09 02	0	0	
40	Betwa	Sahjina	Uttar Pradesh	103.54	104.54	108.67	12/09/1983	93.98	12/Sep/09 23	0	0	
41	Ken	Banda	Uttar Pradesh	103.00	104.00	113.29	7/7/2005	105.50	12/Sep/09 11	5	5	100.00

Contd...

Table 34 (B) : Flood Forecasting Performance at various Forecasting stations during Flood Season 2009

Sl. No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2009		During 2009		
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY: HH)	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
		Lucknow										
42	Gomati	HanumanSetu	Uttar Pradesh	108.50	109.50	110.85	11/09/1971	106.47	16/Oct/09 00	0	0	
43	Gomati	Jaunpur	Uttar Pradesh	73.07	74.07	77.74	22/09/1971	70.55	10/Oct/09 10	0	0	
44	SAI	Raibareli	Uttar Pradesh	100.00	101.00	104.81	17/09/1982	98.97	18/Sep/09 15	0	0	
45	Ghaghra	Elgin Bridge	Uttar Pradesh	105.07	106.07	107.48	23/09/2008	107.56	10/Oct/09 06	69	60	86.96
46	Ghaghra	Ayodhya	Uttar Pradesh	91.73	92.73	93.84	24/09/2008	94.01	11/Oct/09 11	79	75	94.94
47	Ghaghra	Turtipar	Uttar Pradesh	63.01	64.01	66.00	28/08/1998	64.71	13/Oct/09 15	58	57	98.28
48	Ghaghra	Darauli	Bihar	59.82	60.82	61.74	29/08/1998	60.82	14/Oct/09 12	22	22	100.00
49	Ghaghra	Gangpur Siswan	Bihar	56.04	57.04	58.01	18/09/1983	57.25	25/Aug/09 19	21	21	100.00
50	Ghaghra	Chhapra	Bihar	52.68	53.68	54.59	03/09/1982	51.23	16/Sep/09 20	0	0	
51	Rapti	Balrampur	Uttar Pradesh	103.62	104.62	105.25	11/09/2000	104.64	21/Aug/09 18	26	26	100.00
52	Rapti	Bansi Gorakpur	Uttar Pradesh	83.90	84.90	85.82	21/08/1998	84.87	25/Aug/09 12	22	21	95.45
53	Rapti	Birdghat	Uttar Pradesh	73.98	74.98	77.54	23/08/1998	76.00	22/Aug/09 06	39	37	94.87
54	Sone	Inderpuri	Bihar	107.20	108.20	108.85	23/08/1975	105.80	08/Sep/09 12	0	0	
55	Sone	Koelwar	Bihar	54.52	55.52	58.88	20/07/1971	53.66	10/Sep/09 23	0	0	
56	Sone	Maner	Bihar	51.00	52.00	53.79	10/09/1976	51.15	25/Aug/09 18	4	4	100.00
57	PunPun	Sripalpur	Bihar	49.60	50.60	53.91	18/09/1976	52.99	13/Sep/09 07	13	13	100.00
58	Gandak	Khadda	Uttar Pradesh	95.00	96.00	97.50	23/07/2002	95.84	18/Aug/09 21	44	42	95.45
59	Gandak	Chatia	Bihar	68.15	69.15	70.04	26/07/2002	68.31	20/Aug/09 18	2	2	100.00
60	Gandak	Rewaghat	Bihar	53.41	54.41	55.41	17/09/1986	53.53	21/Aug/09 07	6	6	100.00
61	Gandak	Hazipur	Bihar	49.32	50.32	50.93	1948	48.08	26/Aug/09 18	0	0	

Contd...

Table 34 (B) : Flood Forecasting Performance at various Forecasting stations during Flood Season 2009

Sl. No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2009		During 2009		
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY: HH)	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	62.76	24/Aug/09 06	5	5	100.00
63	Burhi Gandak	Muzaffarpur Sikandarpur	Bihar	51.53	52.53	54.29	15/08/1987	51.77	25/Aug/09 06	6	6	100.00
64	Burhi Gandak	Samastipur	Bihar	45.02	46.02	49.38	15/08/1987	45.76	28/Aug/09 02	15	15	100.00
65	Burhi Gandak	Rosera	Bihar	41.63	42.63	46.35	16/08/1987	42.70	28/Aug/09 07	19	19	100.00
66	Burhi Gandak	Khagaria	Bihar	35.58	36.58	39.22	1976	36.20	28/Aug/09 05	11	11	100.00
67	Bagmati	Benibad	Bihar	47.68	48.68	50.01	12/07/2004	49.72	09/Jul/09 22	68	67	98.53
68	Adhwara	Hayaghat	Bihar	44.72	45.72	48.96	14/08/1987	46.77	26/Aug/09 09	39	38	97.44
69	Group	Kamtaul	Bihar	49.00	50.00	52.99	12/08/1987	50.95	21/Aug/09 06	36	36	100.00
70	Group	Ekmighat	Bihar	45.94	46.94	49.52	12/07/2004	47.72	26/Aug/09 01	42	42	100.00
71	Kamla Balan	Jhanjharpur	Bihar	49.00	50.00	53.01	10/07/2004	51.83	21/Aug/09 00	60	59	98.33
72	Kosi	Basua	Bihar	46.75	47.75	48.87	11/07/2004	48.85	18/Aug/09 10	166	166	100.00
73	Kosi	Baltara	Bihar	32.85	33.85	36.40	15/08/1987	35.36	27/Aug/09 18	79	79	100.00
74	Kosi	Kursela	Bihar	29.00	30.00	32.04	06/09/1998	29.85	27/Aug/09 03	19	19	100.00
75	Mahananda	Dhengraghat	Bihar	34.65	35.65	38.09	1968	36.78	21/Aug/09 09	42	41	97.62
76	Mahananda	Jhawa	Bihar	30.40	31.40	33.51	14/08/1987	32.02	21/Aug/09 23	78	77	98.72
77	Mayurakshi	Massanjore Dam	Jharkhand	121.31		122.87	25/09/1999	119.31	09/Oct/09 22	5	5	100.00
78	Mayurakshi	Tilpara Barrage	West Bengal	62.79		67.05	27/09/1978	62.79	06/Oct/09 12	4	4	100.00
79	Mayurakshi	Narayanpur	West Bengal	26.99	27.99	29.69	27/09/1995	25.17	10/Sep/09 16	0	0	

Contd...

Table 34 (B) : Flood Forecasting Performance at various Forecasting stations during Flood Season 2009

Sl. No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2009		During 2009		
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY: HH)	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
80	Ajoy	Gheropara	West Bengal	38.42	39.42	43.94	27/09/1978	40.15	07/Sep/09 14	2	2	100.00
81	Damodar	Tenughat Dam	Jharkhand	268.83		265.56	17/09/1985	263.33	07/Sep/09 19	20	20	100.00
82	Damodar	Panchet Dam	Jharkhand	132.59		132.89	02/10/1959	131.57	07/Sep/09 23	40	40	100.00
83	Damodar	Durgapur Barrage	West Bengal	64.47		64.47	31/10/2002	64.47		28	28	100.00
84	Barakar	Maithon Dam	Jharkhand	150.88		151.79	02/10/1959	151.36	07/Sep/09 16	26	21	80.77
85	Mundeshwari	Harinkhola	West Bengal	11.80	12.80	14.58	29/09/1978	14.43	08/Sep/09 21	6	6	100.00
86	Kangsabati	Kangsabati Dam	West Bengal	134.11		134.71	02/09/1978	133.33	07/Sep/09 13	17	17	100.00
87	Kangsabati	Mohanpur	West Bengal	24.73	25.73	29.87	02/09/1978	24.18	09/Sep/09 08	0	0	
Brahmaputra Basin												
88	Brahmaputra	Dibrugrah	Assam	103.24	104.24	106.48	03/09/1998	105.53	01/Jul/09 07	307	307	100.00
89	Brahmaputra	Neamatighat	Assam	84.04	85.04	87.37	11/07/1991	85.56	02/Jul/09 09	71	71	100.00
90	Brahmaputra	Tezpur	Assam	64.23	65.23	66.59	27/08/1988	65.25	24/Aug/09 07	40	40	100.00
91	Brahmaputra	Guwahati	Assam	48.68	49.68	51.46	21/07/2004	48.94	24/Aug/09 01	8	8	100.00
92	Brahmaputra	Goalpara	Assam	35.27	36.27	37.43	31/07/1954	35.74	26/Aug/09 01	19	19	100.00
93	Brahmaputra	Dhubri	Assam	27.62	28.62	30.36	28/08/1988	28.99	22/Aug/09 06	103	103	100.00
94	Burhidihing	Naharkatia	Assam	119.40	120.40	122.69	17/06/1973	118.12	17/Aug/09 09	0	0	
95	Burhidihing	Khowang	Assam	101.11	102.11	103.92	25/08/1988	102.49	23/Aug/09 02	22	22	100.00
96	Desang	Nanglamoraghat	Assam	93.46	94.46	96.49	06/09/1998	96.04	11/Jul/09 21	64	64	100.00
97	Dikhow	Shivsagar	Assam	91.40	92.40	95.62	08/07/1974	94.14	11/Jul/09 08	46	46	100.00
98	Subansiri	Badatighat	Assam	81.53	82.53	86.84	28/06/1972	82.10	24/Aug/09 10	48	48	100.00
99	Dhansiri (S)	Golaghat	Assam	88.50	89.50	91.30	11/10/1986	88.90	26/Sep/09 00	9	9	100.00

Contd...

Table 34 (B) : Flood Forecasting Performance at various Forecasting stations during Flood Season 2009

Sl. No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2009		During 2009		
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY: HH)	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
100	Dhansiri (S)	Numaligarh	Assam	76.42	77.42	79.87	24/09/1985	77.80	25/Aug/09 12	106	106	100.00
101	Jiabharali	Jiabharali_NTX	Assam	76.00	77.00	78.50	26/07/2007	77.56	29/Jul/09 18	194	193	99.48
102	Kopilli	Kampur	Assam	59.50	60.50	61.86	16/06/1973	61.08	11/Oct/09 06	3	3	100.00
103	Kopilli	Dharmatul	Assam	55.00	56.00	58.09	21/07/2004	55.17	11/Oct/09 19	5	5	100.00
104	Puthimari	Puthimari_NHX	Assam	50.81	51.81	55.08	31/08/2008	52.82	03/Jul/09 19	228	225	98.68
105	Pagladiya	Pagladia_NTX	Assam	51.75	52.75	55.45	08/07/2004	52.78	02/Jul/09 19	20	20	100.00
106	Beki	Beki NHX	Assam	44.10	45.10	46.20	04/08/2000	45.38	20/Aug/09 00	292	292	100.00
107	Manas	Manas NHX	Assam	47.81	48.42	50.08	15/09/1984	48.08	17/Aug/09 11	5	5	100.00
108	Sankosh	Golakganj	Assam	28.94	29.94	30.95	08/09/2007	30.24	20/Aug/09 23	78	78	100.00
109	Raidak-I	Tufanganj	West Bengal	34.22	35.30	36.36	21/07/1993	34.65	06/Jul/09 07	7	7	100.00
110	Torsa	Ghughumari	West Bengal	39.80	40.41	41.46	03/08/2000	40.40	20/Aug/09 21	38	36	94.74
111	Jaldhaka	NH-31	West Bengal	80.00	80.90	81.33	28/08/1972	80.49	08/Oct/09 05	11	11	100.00
112	Jaldhaka	Mathabhanga	West Bengal	47.70	48.20	49.85	07/09/2007	48.18	20/Aug/09 17	2	2	100.00
113	Tista	Domohani	West Bengal	85.65	85.95	89.30	04/10/1968	86.45	20/Aug/09 11	56	56	100.00
114	Tista	Mekhliganj	West Bengal	65.45	65.95	66.45	13/07/1996	66.10	20/Aug/09 13	24	24	100.00
Barak & Meghna Basins												
115	Barak	APGhat	Assam	18.83	19.83	21.84	01/08/1989	19.48	02/Aug/09 12	16	16	100.00
116	Katakhal	Matizuri	Assam	19.27	20.27	22.73	10/09/2007	19.74	28/Aug/09 17	10	10	100.00
117	Kushiyara	Karimganj	Assam	13.94	14.94	16.55	09/09/2007	15.96	22/Aug/09 17	63	63	100.00
118	Manu	Kailashar	Tripura	24.34	25.34	25.79	07/06/1993	24.37	01/Jul/09 21	0	0	
119	Gumti	Sonamura	Tripura	11.50	12.50	14.42	23/07/1993	11.64	02/Jul/09 06	1	1	100.00

Contd...

Table 34 (B) : Flood Forecasting Performance at various Forecasting stations during Flood Season 2009

Sl. No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2009		During 2009		
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY: HH)	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 NH_5_Road	Orissa	9.45	10.36	12.69	19/06/2008	11.17	09/Sep/09 12	7	7	100.00
121	Burhabalang	Bridge	Orissa	7.21	8.13	9.50	12/10/1973	8.30	02/Oct/09 23	4	3	75.00
122	Baitarni	Anandpur	Orissa	37.44	38.36	41.20	19/08/1975	37.67	21/Jul/09 13	2	2	100.00
123	Baitarni	Akhuapada	Orissa		17.83	21.95	16/08/1960	18.00	03/Oct/09 10	7	7	100.00
124	Brahmani	Jenapur	Orissa	22.00	23.00	24.78	20/08/1975	22.50	22/Jul/09 09	2	2	100.00
125	Rushikuluya	Purushottampur	Orissa	15.83	16.83	19.65	04/11/1990	17.30	20/Jul/09 05	8	8	100.00
126	Vamsadhara	Gunupur	Orissa	83.00	84.00	88.75	17/09/1980	84.00	19/Jul/09 16	7	6	85.71
127	Vamsadhara	Kashinagar	Orissa	53.60	54.60	58.93	18/09/1980	55.65	19/Jul/09 19	81	76	93.83
128	Vamsadhara	Gotta Barrage	Andhra Pradesh	34.84	34.84	39.92	07/10/1999	38.12	25/Jul/09 22	10	10	100.00
Mahanadi Basin												
129	Mahanadi	Hirakud Dam	Orissa	192.02		192.30	30/01/1998			50	49	98.00
130	Mahanadi	Naraj	Orissa	25.41	26.41	27.61	31/08/1982	26.11	21/Jul/09 14	17	16	94.12
131	Mahanadi	Alipingal Devi	Orissa	10.85	11.76	13.05	20/09/2008	10.86	21/Jul/09 14	1	1	100.00
132	Mahanadi	Nimapara	Orissa	9.85	10.76	11.60	31/08/1982	10.04	21/Jul/09 19	4	4	100.00
Godavari Basin												
133	Godavari	Kopergaon	Maharashtra	490.90	493.68	499.17	1969	489.75	25/Jul/09 05	0	0	
134	Godavari	Jaikwadi Dam	Maharashtra	463.91		464.69	12/10/1990	458.47	06/Oct/09 12	0	0	
135	Godavari	Gangakhed	Maharashtra	374.00	375.00	377.57	1947	366.56	26/Aug/09 07	0	0	
136	Godavari	Nanded	Maharashtra	353.00	354.00	357.10	06/08/2006	344.52	06/Oct/09 17	0	0	

Contd...

Table 34 (B) : Flood Forecasting Performance at various Forecasting stations during Flood Season 2009

Sl. No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2009		During 2009		
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY: HH)	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
137	Godavari	Sriram Sagar	Andhra Pradesh	332.54		332.72	13/10/1990	326.17	08/Oct/09 16	0	0	
138	Godavari	Kaleswaram	Andhra Pradesh	103.50	104.75	107.05	15/08/1986	99.08	25/Jul/09 12	0	0	
139	Godavari	Eturunagaram	Andhra Pradesh	73.29	75.79	77.66	24/08/1990	70.47	29/Aug/09 04	0	0	
140	Godavari	Dummagudam	Andhra Pradesh	53.00	55.00	60.25	16/08/1986	49.09	28/Aug/09 21	0	0	
141	Godavari	Bhadrachalam	Andhra Pradesh	45.72	48.77	55.66	16/08/1986	42.06	29/Aug/09 00	0	0	
142	Godavari	Kunavaram	Andhra Pradesh	37.74	39.24	51.30	16/08/1986	30.32	29/Aug/09 09	0	0	
143	Godavari	Rajamundri	Andhra Pradesh	17.68	19.51	20.48	16/08/1986	14.50	29/Aug/09 07	0	0	
144	Godavari	Dowalaiswaram	Andhra Pradesh	14.25	16.08	18.36	16/08/1986	14.14	14/Jul/09 12	0	0	
145	Wardha	Balharsha	Maharashtra	171.50	174.00	176.00	15/08/1986	161.47	04/Sep/09 06	0	0	
146	Wainganga	Bhandara	Maharashtra	244.00	244.50	250.90	16/09/2005	244.05	23/Jul/09 14	3	3	100.00
147	Wainganga	Pauni	Maharashtra	226.73	227.73	232.35	07/09/1994	226.73	23/Jul/09 17	4	3	75.00
148	Manjira	Singur Dam	Andhra Pradesh	523.60		523.60	15/10/1999	520.15	12/Oct/09 06	0	0	
149	Manjira	Nizamsagar Dam	Andhra Pradesh	428.24		428.24	15/10/1999	421.90	11/Sep/09 15	0	0	
150	Indravati	Jagdulpur	Chhatisgarh	539.50	540.80	544.68	07/09/1973	538.80	26/Aug/09 22	0	0	
Krishna Basin												
151	Krishna	Arjunwad	Maharashtra	542.07	543.29	543.69	05/08/2005			0	0	

Contd...

Table 34 (B) : Flood Forecasting Performance at various Forecasting stations during Flood Season 2009

Sl. No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2009		During 2009		
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY: HH)	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
152	Krishna	Alamati Dam	Karnataka	519.60		519.60	18/09/2002	519.60	24/Aug/09 15	41	36	87.80
153	Krishna	Narayanpur Dam	Karnataka	492.25		492.22	9/26/2008	492.21	22/Sep/09 09	34	30	88.24
154	Krishna	Priyadarshini	Andhra Pradesh	318.52		316.50	21/10/1993	318.20	02/Oct/09 15	73	69	94.52
155	Krishna	Srisailem Dam	Andhra Pradesh	269.75		269.93	13/10/1990	273.25	03/Oct/09 11	95	87	91.58
156	Krishna	Prakasham Barrage	Pradesh	18.30		21.50	07/10/1903	20.45	06/Oct/09 00	30	27	90.00
157	Bhima	Deongaon	Karnataka	402.00	404.50	407.34	13/08/2006	404.22	01/Oct/09 18	8	7	87.50
158	Tungbhadra	Tungbhadra Dam	Karnataka	497.74		497.74	05/10/1992	497.74	08/Aug/09 06	141	136	96.45
159	Tungbhadra	Mantralayam	Andhra Pradesh	310.00	312.00	315.80	19/11/1992	318.77	02/Oct/09 22	17	16	94.12
Southern River System:												
160	Pennar	Nellore	Andhra Pradesh	15.91	17.28	18.70	30/11/1882	14.57	10/Nov/09 08	0	0	
Western River Systems:												
161	Banas	Dantiwada Dam	Gujarat	182.88	185.06	186.04	01/09/1973	165.32	30/Jul/09 04	0	0	
162	Sabarmati	Dharoi Dam	Gujarat	187.45	192.25	189.63	03/09/1990	183.14	18/Sep/09 08	5	5	100.00
163	Sabarmati	Shubhash Bridge	Ahmedabad Gujarat	44.09	45.34	47.45	19/08/2006	41.98	20/Sep/09 20	0	0	
164	Mahi	Kadana Dam	Gujarat	126.19	127.71	127.74	09/09/1989	125.99	15/Sep/09 13	0	0	
165	Mahi	Wanakbori	Gujarat	71.00	72.54	76.10	12/08/2006	67.97	29/Aug/09 15	0	0	
166	Naramada	Mandla	Madhya Pradesh	437.20	437.80	439.41	18/08/1974	434.54	09/Sep/10 12	0	0	

Contd...

Table 34 (B) : Flood Forecasting Performance at various Forecasting stations during Flood Season 2009

Sl. No.	Name of the river	Name of FF site	Name of State	Warning Level (m)	Danger level (m)	Highest Flood Level		Maximum Level -2009		During 2009		
						Level (m)	Date/ Month/ Year	Level (m)	Date and Time DD/MM/YY: HH)	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
167	Naramada	Hoshangabad	Madhya Pradesh	292.83	293.83	300.90	30/08/1973	296.70	10/Sep/09 04	11	10	90.91
168	Naramada	Garudeswar	Gujarat	30.48	31.09	41.65	06/09/1970	24.00	12/Sep/09 20	0	0	
169	Naramada	Bharuch	Gujarat	6.71	7.31	12.65	07/09/1970	6.10	13/Sep/09 12	0	0	
170	Tapi	Hatnur Dam	Maharashtra	212.00	214.00	214.00	12/10/1989	214.00	27/Sep/09 06	31	29	93.55
171	Tapi	Ukai Dam	Gujarat	102.41	105.16	105.51	08/10/1990	99.58	17/Sep/09 06	5	5	100.00
172	Tapi	Surat	Gujarat	8.50	9.50	12.50	09/08/2006	5.10	23/Jul/09 16	0	0	
173	Damanganga	Madhuban Dam	Gujarat	79.86	82.40	80.60	27/09/1993	79.75	15/Oct/09 18	8	8	100.00
174	Damanganga	Vapi Town	Gujarat	18.20	19.20	23.76	03/08/2004	17.30	22/Jul/09 23	0	0	
175	Damanganga	Daman	Dadra & Nagar Haveli	2.60	3.40	4.00	03/08/2004	2.30	24/Jul/09 16	0	0	
									Total Forecasts	4010	3927	97.93
									Level Forecasts	3343	3298	98.65
									Inflow Forecast	667	629	94.30

Source : Central Water Commission (Flood Forecasting Monitoring Directorate)

Note : FF : Flood Forecasting

m: Meter

Table 35 (A) : Broad Features of Flood Forecasting Performance during the Flood season 2010

Sl.No	Details of Flood Forecasting Performance during the Flood season 2010	No.of FF Sites	Percentage of FF sites
1	2	3	4
1	Number of Operational Flood Forecasting stations during the Flood season	175	100
2	Flood Forecasting Sites where no forecasts were issued/ required because water level/ inflow were below warning during the flood season	62	35.43
3	Flood Forecasting sites where forecasts were actually issued.	113	64.57
4	Sites with performance accuracy between 0.0 % to 25.0%	1	0.88%
5	Sites with performance accuracy between 25.1 % to 50.0%	1	0.88%
6	Sites with performance accuracy between 50.1 % to 75.0%	1	0.88%
7	Sites with performance accuracy between 75.1 % to 99.99%	36	31.87%
8	Sites with 100% performance accuracy i.e. where all forecasts issued were within permissible limit of accuracy	74	65.49%
9	Details of Unprecedented Flood Events during Flood Season - 2010 See separate statement with information of item 9		
10	Details of High Flood Events during Flood Season - 2010 See separate statement with information of item 10		

Contd...

Table 35 (A): Broad features of Flood Forecasting Performance during Flood Season 2010

Sl.No	River	Station	State	Danger level in metres	Existing Highest Flood Level (HFL)		New HFL		Duration	
					Level in metres	Date of occurrence	Level in metres	Date 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 - 2010 flood season										
1	Ganga	Haridwar	U.K.	294.00	296.23	02/09/1978	296.3	19/9/2010	19/09/2010 08:00	19.09.2010 10:00
2	Ganga	Kannauj	U.P.	125.97	126.24	29/08/1998	126.78	27/09/2010	23/09/2010; 14:00	30/09/2010;10:00
3	Ganga	Ankinghat	U.P.	124.00	124.305	9/9/1978	124.49	28/09/2010	26/09/2010; 05:00	28/09/2010; 24:00
4	Ganga	Kanpur	U.P.	114.00	113.47	2/9/1967	114.08	29/09/2010	25/09/2010; 07:00	02/10/2010; 16:00
5	Ramganga	Moradabad	U.P.	190.60	192.68	09/03/1978	192.88	21/09/2010	20/09/2010; 23:00	21/09/2010; 05:00
6	Kosi	Basua	Bihar	47.75	48.87	11.07.2004	49.17	25/Aug/10 00	21/08/2010 07:00 24/08/2010 09:00	21/08/2010 20:00 26/08/2010 07:00
7	Kushiyara	Karimgunj	Assam	14.94	16.55	09/09/07& 11/09/07	16.57	10/06/2010& 11/06/2010	10/06/2010 (2300)	11/06/10 (1000)

Unprecedented flood : Flood level => HF L

Contd...

Table 35 (A) : Broad features of Flood Forecasting Performance during Flood Season 2010

Sl.No	River	Station	State	District	Danger level in metres	Existing HFL		Duration of High Flood	
						Level in metres	Date of occurrence	From	To
1	2	3	4	5	6	7	8	9	10
10. High Flood Events during Flood Season - 2010									
1	Ganga	Rishikesh	Uttarakhand	Haridwar	340.50	341.72	05.09.1995	19.09.2010 01:00	19.09.2010 13:00
2	Ganga	Haridwar	Uttarakhand	Haridwar	294.00	296.23	02.09.1978	19.09.2010 02:00	19.09.2010 16:00
3	Ganga	Kannauj	U.P.	Kannauj	125.97	126.24	29/08/1998	27.08.2010 02:00	02.09.2010 24:00
4	Ganga	Ankinghat	U.P.	Kanpur Dehat	124	124.305	9/9/1978	18.09.2010 12:00	01.10.2010 17:00
5	Ganga	Kanpur	U.P.	Kanpur Dehat	114	113.47	2/9/1967	22.09.2010 14:00	01.10.2010 12:00
6	Ganga	Dalmau	U.P.	Raebareilly	99.36	99.84	3/8/1973	27.08.2010 04:00	03.09.2010 22:00
7	Ramganga	Moradabad	U.P.	Moradabad	190.60	192.68	3/9/1978	19.09.2010 03:00	03.10.2010 19:00
8	Ramganga	Bareilly	U.P.	Bareilly	163.07	162.881	6/8/1978	28.09.2010 17:00	02.10.2010 17:00
9	Yamuna	Mawi	U.P.	Muzaffar Nagar	230.85	232.45	26.09.88	20.09.2010 17:00	21.09.2010 14:00
10	Yamuna	Delhi Railway Bridge	Delhi	Delhi	204.83	207.49	06.09.78	20.09.2010 22:00	24.09.2010 02:00
11	Ghagra	Elgin Bridge	U.P.	Barabanki	106.07	107.556	10.10.2009	10.09.2010 07:00	10.09.2010 13:00
12	Ghagra	Ayodhya	U.P.	Faizabad	92.73	94.01	11.10.2009	22.09.2010 08:00	23.09.2010 08:00
13	Bagmathi	Benibad	Bihar	Muzzafarpur	48.68	50.01	12.07.2004	25/8/2010 00:00	28/08/2010 3:00
14	Kosi	Basua	Bihar	Supaul	47.75	48.87	11.07.2004	24/8/2010 21:00	5/9/2010 7:00
15	Sankosh	Golokganj	Assam	Dhubri	29.94	30.95	08.09.2007	26/8/2010 2:00	28/8/2010 21:00
16	Beki	Road Bridge	Assam	Barpeta	45.10	46.20	04.08.2000	17/8/2010 23:00	27/8/2010 8:00
								12/7/2010 00:00	12/7/2010 0300
								18/07/2010 1800	19/07/2010 0200
								21/07/2010 1600	22/07/2010 0200
17	Kopili	Kampur	Assam	Nagaon	60.5	61.86	16/06/1973	10/10/2010 1000	11/10/2010 0400
18	Kushiyara	Karimgunj	Assam	Karimgunj	14.94	16.55	09/09/07& 11/09/07	08/06/10(22) 15/06/10(01) 20/09/10(12)	12/06/10(17) 22/06/10(10) 22/09/10(17)

Source : Flood Forecasting Monitoring Directorate
High Flood : Flood level \geq HFL-0.5 m and $<$ HFL

Table 35 (B) : Broad Features of Flood Forecasting Performance during the Flood season 2009

Sl.No	Details of Flood Forecasting Performance during the Flood season 2009	No.of FF Sites	Percentage of FF sites
1	2	3	4
1	Number of Operational Flood Forecasting stations during the Flood season	175	100
2	Flood Forecasting sites where "No Forecast" was issued / required because water level at those sites were below warning stages during the flood season.	68	38.86
3	Flood Forecasting sites where forecasts were actually issued.	107	61.14
4	Sites with performance accuracy between 0.0 % to 25.0%	1	0.93
5	Sites with performance accuracy between 25.1 % to 50.0%	0	0.00
6	Sites with performance accuracy between 50.1 % to 75.0%	3	2.80
7	Sites with performance accuracy between 75.1 % to 99.99%	31	28.98
8	Sites with 100% performance accuracy i.e. where all forecasts issued were within permissible limit of accuracy	72	67.29
9	Details of Unprecedented Flood Events during Flood Season - 2009 See separate statement with information of item 9		
10	Details of High Flood Events during Flood Season - 2009 See separate statement with information of item 10		

Contd...

Table 35 (B) : Broad Features of Flood Forecasting Performance during the Flood season 2009

Sl .No	River	Station	State	Danger level in metres	Existing Highest Flood Level (HFL)		New HFL		Duration of Unprecedented Flood Situation	
					Level in metres	Date of occurrence	Level in metres	Date 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 - 2009 flood season										
1	Ghaghra	Elgin Bridge	Uttar Pradesh	106.07	107.48	23/09/2008	107.56	10/10/2009	10/10/2009 6:00:00 AM	10/10/2009 16:00:00
2	Ghaghra	Ayodhya	Uttar Pradesh	92.73	93.84	24/09/2008	94.01	11/10/2009	11/10/2009 11:00:00 AM	11/10/2009 20:00:00
3	Tungbhadra	Mantralayam	Andhra Pradesh	312.00	315.80	19/11/1992	318.77	2/10/2009	1/10/2009 22:00:00	3/10/2009 7:00:00 AM

Unprecedented flood : Flood level \geq HFL

Contd...

Table 35 (B) : Broad Features of Flood Forecasting Performance during the Flood season 2009

Sl.No	River	Station	State	District	Danger level in metres	Existing HFL		Duration of High Flood	
						Level in metres	Date of occurrence	From	To
1	2	3	4	5	6	7	8	9	10
10. High Flood Events during Flood Season - 2009									
1	Ghaghra	Elgin Bridge	Uttar Pradesh	Barabanki	106.07	107.48	23/09/2008	20/8/2009 13:00:00	22/8/2009 17:00:00
								8/10/2009 19:00:00	12/10/2009 04:00:00 AM
2	Ghaghra	Ayodhya	Uttar Pradesh	Faizabad	92.73	93.84	24/09/2008	21/8/2009 03:00:00 AM	24/8/2009 18:00:00
							24/09/2008	9/10/2009 09:00:00 AM	14/10/2009 08:00:00 AM
3	Bagmati	Benibad	Bihar	Muzaffarpur	48.68	50.01	12/07/2004	20/8/2009 17:00:00	23/8/2009 22:00:00
4	Kosi	Basua	Bihar	Supaul	47.75	48.87	11/07/2004	17/8/2009 11:00:00 AM	22/8/2009 4:00:00 AM
5	Mundeshwari	Harinkhola	West Bengal	Hooghly	12.8	14.58	29/9/1978	8/9/2009 12:00:00 PM	9/9/2009 4:00:00 PM
6	Desang	Nanglamoraghat	Assam	Sibsagar	94.46	96.49	06/09/1998	11/7/2009 4:00:00 PM	12/7/2009 3:00:00 PM
5	Tungbhadra	Mantralayam	Andhra Pradesh	Kurnool	312	315.8	19/11/1992	1/10/2009 7:00:00 PM	3/10/2009 8:00:00 AM

Source : Flood Forecasting Monitoring Directorate

High Flood : Flood level \geq HFL-0.5 m and $<$ HFL

Table 36 : Comparative Flood Forecasting Performance from 1986 to 2010

Year	No.of Level Forecasts issued			No.of Inflow Forecasts issued			Total No.of Forecasts issued		
	Total	Within +/-15 cm of deviation from actual	Percentage of accuracy	Total	Within +/-20% cumec of deviation from actual	Percentage of accuracy	Total	Within +/-15 cm or +/-20% cumec of deviation from actual	Percentage of accuracy
1	2	3	4	5	6	7	8	9	10
1986	3956	3635	91.89	831	744	89.53	4787	4379	91.48
1987	4793	4560	95.14	1021	965	94.52	5814	5525	95.03
1988	5472	5131	93.77	1510	1425	94.37	6982	6556	93.90
1989	4323	4081	94.40	1213	1181	97.36	5536	5262	95.05
1990	6578	6124	93.10	1988	1947	97.94	8566	8071	94.22
1991	5234	4890	93.43	1369	1335	97.52	6603	6225	94.28
1992	3588	3418	95.26	1176	1149	97.70	4764	4567	95.86
1993	5226	5066	96.94	1417	1372	96.82	6643	6438	96.91
1994	5472	5158	94.26	2004	1929	96.26	7476	7087	94.80
1995	5393	5201	96.44	1024	988	96.48	6417	6189	96.45
1996	5104	4945	96.88	1363	1321	96.92	6467	6266	96.89
1997	4059	3895	95.96	1406	1368	97.30	5465	5263	96.30
1998	6401	5264	82.24	1542	1511	97.99	7943	6775	85.30
1999	5550	5428	97.80	1505	1398	92.89	7055	6826	96.75
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
Average	5063	4831	95.42	1212	1165	96.12	6275	5996	95.55

Source : Flood Forecasting Monitoring Directorate

Table 37 : Projected Water Demand in India (By Different Uses)

SI No.	Sector	Total water requirement for different uses (in BCM)						
		Year 1997-98	2010		2025		2050	
			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 38 : Status of Coverage of Rural Habitations Under Rural Water Supply as on 1.04.2012

Sl. No.	Name of the State UT	Total Habitations	No. of Habitations with Population Coverage > 0 and < 25%	No. of Habitations with Population Coverage >= 25 and < 50%	No. of Habitations with Population Coverage >= 50 and < 75%	No. of Habitations with Population Coverage >= 75 and < 100%	No. of Habitations with 100% Population Coverage
1	2	3	4	5	6	7	8
1.	Andhra Pradesh	72407	4298	7258	8074	8214	44563
2.	Arunachal Pradesh	5612	1301	659	567	324	2761
3.	Assam	86976	18048	8331	7527	4133	48937
4.	Bihar	107642	1287	2825	3502	5531	94497
5.	Chhatisgarh	72231	98	5146	13587	12804	40596
6.	Goa	347	0	43	1	1	302
7.	Gujarat	34415	9	153	250	341	33662
8.	Haryana	7385	12	40	219	1102	6012
9.	Himachal Pradesh	53201	4910	3343	1899	702	42347
10.	Jammu & Kashmir	12826	3431	1030	1169	1298	5898
11.	Jharkhand	118981	447	31	202	797	117504
12.	Karnataka	59532	3586	11333	11992	9050	23571
13.	Kerala	11883	0	0	0	0	11883
14.	Madhya Pradesh	127197	481	4856	17160	18146	86554
15.	Maharashtra	98842	438	3495	7791	1493	85625
16.	Manipur	2870	413	368	395	106	1588
17.	Meghalaya	9326	1251	1560	935	510	5070
18.	Mizoram	777	10	16	20	20	711
19.	Nagaland	1432	212	16	43	23	1138
20.	Orissa	141928	542	19520	33387	14176	74303
21.	Punjab	15170	1973	197	501	819	11680
22.	Rajasthan	121133	30988	11104	4952	2380	71709

Contd...

Table 38 : Status of Coverage of Rural Habitations Under Rural Water Supply as on 1.04.2012

Sl. No.	Name of the State UT	Total Habitations	No. of Habitations with Population Coverage > 0 and < 25%	No. of Habitations with Population Coverage >= 25 and < 50%	No. of Habitations with Population Coverage >= 50 and < 75%	No. of Habitations with Population Coverage >= 75 and < 100%	No. of Habitations with 100% Population Coverage
1	2	3	4	5	6	7	8
23.	Sikkim	2498	96	273	320	4	1805
24.	Tamil Nadu	94614	2257	2915	3945	1382	84115
25	Tripura	8132	1123	1203	1761	802	3243
26	Uttar Pradesh	260110	0	0	0	14242	245868
27	Uttarakhand	39142	4085	2400	2433	3136	27088
28	West Bengal	95395	264	1378	5410	673	87670
29	Andaman & Nicobar	491	53	4	0	0	434
30	Dadra & Nagar Haveli	70	70	0	0	0	0
31	Daman & Diu	21	21	0	0	0	0
33	Lakshadweep	9	9	0	0	0	0
34	Puducherry	248	0	0	0	2	246
35	Chandigarh	18	0	0	0	0	18
Total		1662861	81713	89497	128042	102211	1261398

Source :- Ministry of Rural Development, Department of Drinking Water Supply.

Note : There may be variation in the above data till it is finalised by the respective State Govt.

Table 39: Detail of layers under India-WRIS

S.No 1	Name of GIS layer 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 40: Status of Hydro Electric Potential Development- Region and State- wise (In terms of Installed capacity - Above 25 MW)**As on 30.09.2013**

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)	%
NORTHERN										
Jammu & Kashmir	14146	13543	2504.00	18.49	1795.00	13.25	4299.00	31.74	9244.00	68.26
Himachal Pradesh	18820	18540	7594.00	40.96	3912.00	21.10	11506.00	62.06	7034.00	37.94
Punjab	971	971	1206.30	100.00	0.00	0.00	1206.30	100.00	0.00	0.00
Haryana	64	64	0.00	0.00	0.00	0.00	0.00	0.00	64.00	100.00
Rajasthan	496	483	411.00	85.09	0.00	0.00	411.00	85.09	72.00	14.91
Uttarakhand	18175	17998	3426.35	19.04	1196.00	6.65	4622.35	25.68	13375.65	74.32
Uttar Pradesh	723	664	501.60	75.54	0.00	0.00	501.60	75.54	162.40	24.46
Sub Total (NR)	53395	52263	15643.25	29.93	6903.00	13.21	22546.25	43.14	29716.75	56.86
WESTERN										
Madhya Pradesh.	2243	1970	2395.00	100.00	400.00	20.30	2795.00	100.00	0.00	0.00
Chhattisgarh	2242	2202	120.00	5.45	0.00	0.00	120.00	5.45	2082.00	94.55
Gujarat	619	590	550.00	93.22	0.00	0.00	550.00	93.22	40.00	6.78

Contd..

Table 40: Status of Hydro Electric Potential Development- Region and State- wise (In terms of Installed capacity - Above 25 MW)**As on 30.09.2013**

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)	%
Maharashtra	3769	3314	2487.00	75.05	0.00	0.00	2487.00	75.05	827.00	24.95
Goa	55	55	0.00	0.00	0.00	0.00	0.00	0.00	55.00	100.00
Sub total (WR)	8928	8131	5552.00	68.28	400.00	4.92	5952.00	73.20	2179.00	26.80
SOUTHERN										
Andhra Pradesh	4424	4360	2177.75	49.95	410.00	9.40	2587.75	59.35	1772.25	40.65
Karnataka	6602	6459	3585.40	55.51	0.00	0.00	3585.40	55.51	2873.60	44.49
Kerala	3514	3378	1881.50	55.70	100.00	2.96	1981.50	58.66	1396.50	41.34
Tamilnadu	1918	1693	1782.20	100.00	0.00	0.00	1782.20	100.00	0.00	0.00
Sub Total (SR)	16458	15890	9426.85	59.33	510.00	3.21	9936.85	62.54	5953.15	37.46
EASTERN										
Jharkhand	753	582	170.00	29.21	0.00	0.00	170.00	29.21	412.00	70.79
Bihar	70	40	0.00		0.00	0.00	0.00		40.00	100.00
Orissa	2999	2981	2027.50	68.01	0.00	0.00	2027.50	68.01	953.50	31.99

Contd..

Table 40: Status of Hydro Electric Potential Development- Region and State- wise (In terms of Installed capacity - Above 25 MW)**As on 30.09.2013**

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)	%
West Bengal	2841	2829	272.20	9.62	160.00	5.66	432.20	15.28	2396.80	84.72
Sikkim	4286	4248	669.00	15.75	2322.00	54.66	2991.00	70.41	1257.00	29.59
Sub Total (ER)	10949	10680	3138.70	29.39	2482.00	23.24	5620.70	52.63	5059.30	47.37
NORTH EASTERN										
Meghalaya	2394	2298	282.00	12.27	40.00	1.74	322.00	14.01	1976.00	85.99
Tripura	15	0	0.00		0.00		0.00		0.00	
Manipur	1784	1761	105.00	5.96	0.00	0.00	105.00	5.96	1656.00	94.04
Assam	680	650	375.00	57.69	0.00	0.00	375.00	57.69	275.00	42.31
Nagaland	1574	1452	75.00	5.17	0.00	0.00	75.00	5.17	1377.00	94.83
Arunachal Pd	50328	50064	405.00	0.81	2710.00	5.41	3115.00	6.22	46949.00	93.78
Mizoram	2196	2131	0.00	0.00	60.00	2.82	60.00	2.82	2071.00	97.18
Sub Total (NER)	58971	58356	1242.00	2.13	2810.00	4.82	4052.00	6.94	54304.00	93.06
ALL INDIA	148701	145320	35002.80	24.09	13105.00	9.02	48107.80	33.10	97212.20	66.90

Source: Central Electricity 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 underassessment of the potential initially.

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

Table 41: Status of Hydro Electric Power Potential Development-Basin-wise (In terms of Installed Capacity above 25 MW)

As on 30.09. 2013

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	11244.30	34.04	5596.00	16.94	16840.30	50.99	16187.70	49.01
GANGA	20711	20252	4987.15	24.63	1307.00	6.45	6294.15	31.08	13957.60	68.92
CENTRAL INDIAN RIVERS	4152	3868	3147.50	81.37	400.00	10.34	3547.50	91.71	320.50	8.29
WEST FLOWING RIVERS	9430	8997	5660.70	62.92	100.00	1.11	5760.70	64.03	3236.30	35.97
EAST FLOWING RIVERS	14511	13775	7843.15	56.94	410.00	2.98	8253.15	59.91	5521.85	40.09
BRAHMAPUTRA BASIN	66065	65400	2120.00	3.24	5292.00	8.09	7412.00	11.33	57988.00	88.67
ALL INDIA	148701	145320	35002.80	24.09	13105.00	9.02	48107.80	33.10	97212.20	66.90

Source : Central Electricity 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 underassessment of the potential initially.

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

Table 42 : 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	1947-0	1361.8	508.1	37.3	4073.3	2194.5	53.9	49.0
2	1950-0	1712.5	559.3	32.7	5106.7	2519.8	49.3	51.0
3	1955-0	2694.8	939.5	34.9	8592.5	3742.2	43.6	45.0
4	1960-61	4653.1	1916.7	41.2	16937.0	7836.6	46.3	47.0
5	1965-66	9027.0	4123.7	45.7	32990.1	15225.0	46.2	42.0
6	1973-7	16663.6	6965.3	41.8	66689.0	28971.8	43.4	47.0
7	1979-80	28447.8	11384.0	40.0	104627.3	45477.6	43.5	46.0
8	1985-86	46796.0	15471.6	33.1	170350.1	51020.8	30.0	38.0
9	1989-90	63627.3	18307.6	28.8	245437.9	62116.1	25.3	39.0
10	1990-91	66086.3	18753.4	28.4	264328.6	71641.3	27.1	44.0
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	105046.0	26268.8	25.0	517439.4	73579.9	14.2	NA
18	2002-03	107877.4	26766.8	24.8	532693.0	64013.7	12.0	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	26.0	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	143061.0	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	13.0	NA
26	2010-11	173626.4	37567.4	21.6	844748.2	114415.5	13.5	NA
27	2011-12	199877.0	38990.4	19.5	922451.1	130511.5	14.1	NA
28	2012-13*	223343.6	39491.4	17.7	963722.2	113626.2	11.8	NA

Sources : Central Electricity Authority (DMLF Division)

MW : Mega Watt

GWH : Giga Watt Hours

N.A. : Not Available

* Provisional

Table 43: List of Water Resources projects declared as National Projects

Sl. No.	Name of the Project	1) Irrigation (ha.) 2) Power (MW) 3) Storage (MAF)	State
1	Teesta Barrage	1) 9.23 lakh 2) 1000 MW 3) Barrage	West Bengal
2	ShahpurKandi	1) .37 lakh 2) 168 MW 3) 0.012 MAF	Punjab
3	Bursar	1) 1 lakh (indirect) 2) 1230 MW 3) 1 MAF	J&K
4	2 nd Ravi Vyas Link	Harness water flowing across border of about 3 MAF	Punjab
5.	Ujh multipurpose project	1) 0.32 lakh ha 2) 280 MW 3) 0.66 MAF	J&K
6.	Gyspa project	1) 0.50 lakh ha 2) 240 MW 3) 0.6 MAF	HP
7.	LakhvarVyasi	1) 0.49 lakh 2) 420 MW 3) 0.325 MAF	Uttarakhand
8.	Kishau	1) 0.97 Lakh 2) 600 MW 3) 1.04 MAF	HP/ Uttarakhand
9.	Renuka	1) Drinking water 2) 40 MW 3) 0.44 MAF	HP
10.	Noa-Dehang Dam Project	1) 8000 ha. 2) 75 MW 3) 0.26 MAF	Arunanchal Pradesh
11.	Kulsi Dam Project	1) 23,900 ha. 2) 29 MW 3) 0.28 MAF	Assam
12.	Upper Siang	1) Indirect 2) 9500 MW 3) 17.50 MAF 4) Flood moderation	Arunanchal Pradesh
13	Gosi khurd	1) 2.50 lakh 2) 3 MW 3) 0.93 MAF	Maharashtra
14	Ken Betwa	1) 6.46 lakh 2) 72 MW 3) 2.25 MAF	Madhya Pradesh
15	Saryu Nahar Pariyojana	1) 4.86 lakh (additional) 2) – 3) Barrage	Uttar Pradesh

Source: PCP Directorate, CWC

MAF- Million Acre Feet

MW – Mega Watt

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 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 1 July 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 (km ²)* 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	<p>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.</p> <p>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.</p>