



GOVERNMENT OF INDIA

OUTCOME BUDGET

2013 - 2014

MINISTRY OF WATER RESOURCES

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EXECUTIVE SUMMARY

The Outcome Budget 2013-14 of this Ministry has been prepared in accordance with the broad format contained in the guidelines issued by the Ministry of Finance, highlighting physical dimensions of the financial budgets indicating actual physical performance in the financial year 2011-12, performance in first 9 months of the financial year 2012-13 and the targeted performance during 2013-14. This has the following chapters covering different aspects of the Ministry:

Chapter	Aspect(s) covered
I	It gives brief introductory note on the functions of the Ministry, organizational setup, planning and policy framework and programmes / schemes being implemented by the Ministry. Briefly, the Ministry of Water Resources in the Government of India is responsible for laying down policy guidelines for overall development, conservation and management of water as a national resource, overall national perspective and coordination in this regard including coordination of diverse water uses. Under the Cabinet Minister, Secretary, the Ministry is organized under the administration wing, finance wing and nine Subject Matter Wings. The Ministry has two attached offices, seven subordinate offices, 9 statutory bodies, two autonomous bodies (societies) and two public sector undertakings. For XI plan period, the activities under various programmes / schemes being implemented / monitored by the Ministry have been clubbed into 13 central sector and 5 state sector schemes (one centrally sponsored scheme of CAD&WM has been shifted to State Sector from 2008-09).
II	It contains a tabular format, which may be visualized as “vertical compression and horizontal expansion” of the Statement of Budget Estimate (SBE) included in the expenditure Budget Vol. II. The main objective is to establish a one-to-one correspondence between (Financial) Budget 2013-14 and Outcome Budget 2013-14. The details comprise the financial outlays, projected outputs and projected/budgeted outcomes (intermediate, partial and final, as the case may be).
III	It details reform measures and policy initiatives taken by the Ministry and how they relate to the intermediate outputs and final outcomes in areas such as public private partnerships, alternate delivery mechanisms, social and gender empowerment processes, greater decentralization, transparency, etc.
IV	It gives scheme-wise analysis of physical performance with reasons for variations; explaining the scope and objectives of individual programmes / schemes, giving their physical targets and achievements during 2011-12 and those upto third quarter of 2012-13.
V	It contains financial review covering overall trends in expenditure vis-à-vis Budget Estimates and Revised Estimates in recent years. This chapter also gives position of outstanding utilization certificates and unspent balances with states and implementation agencies.

Chapter	Aspect(s) covered
VI	It contains review of performance of statutory / autonomous bodies and public sectors undertakings under the administrative control of the Ministry.
	1. In pursuance of the approval accorded by the Union Cabinet to the National Water Mission on 6 th April 2011, a Mission Secretariat has been set up. Presently it is functioning with Special Secretary, Ministry of Water Resources as Mission Director. Eight Advisory Groups / Committees envisaged in the National Water Mission Document have been constituted.
	2. The Central Water Commission, an attached office of MOWR, carries on specific activities related to hydrological observations at key stations, survey & investigations of identified projects particularly in North Eastern Region, assistance to States in planning, design and appraisal of water resources projects and flood forecasting. The Central Water Commission (CWC) carries out general monitoring of selected on-going major, medium and extension, renovation and modernization (ERM) of irrigation projects through its various Monitoring Directorates and Field formations. The Commission particularly monitors implementation of major, medium and selected minor irrigation projects receiving central assistance under Accelerated Irrigation Benefits Programme (AIBP) and schemes for Command Area Development & Water Management. As a part of monitoring, the projects are visited by officers of CWC on regular basis. The command area development projects are also visited by the officers of Command Area Development Wing of the Ministry to monitor various activities under the programme.
	3. The important activities of Central Ground Water Board, a subordinate office of the Ministry of Water Resources, include ground water management studies, ground water monitoring, geophysical studies, exploratory drilling, artificial recharge & rain water harvesting studies, remote sensing studies, water quality analysis, short term water supply investigations, regulation of ground water development, mass awareness and training programme etc.
	4. Other organizations under this Ministry like Central Soil & Materials Research Station, Central Water & Power Research Station and National Institute of Hydrology are engaged, inter-alia, in research and development activities in the water resources sector. Water and Power Consultancy Services (India) Limited and National Projects Construction Corporation Limited are the two public sector undertakings working under the administrative control of this Ministry. Ravi and Beas Waters Tribunal, Cauvery Water Disputes Tribunal, Krishna Water Disputes Tribunal, Vansadhara Water Disputes Tribunal and Mahadayi Water Disputes Tribunal are functioning to resolve the inter-state water disputes. Brahmaputra Board is engaged in Brahmaputra and Barak Basin for sustainable development of water resources to provide optimum benefit with emphasis on control of flood and bank erosion
	5. Financial and physical progress in respect of various central sector schemes is monitored by the Ministry through regular periodic expenditure review meetings with concerned implementation agencies. Meetings with state Secretaries of Water Resources/Irrigation/ Flood Control are convened for monitoring of implementation of state sector schemes.

CHAPTER - I

BRIEF INTRODUCTORY NOTE ON THE FUNCTIONS OF THE MINISTRY/ DEPARTMENT, ORGANIZATIONAL SET UP, LIST OF MAJOR PROGRAMMES /SCHEMES IMPLEMENTED BY THE MINISTRY/ DEPARTMENT, ITS MANDATE, GOALS AND POLICY FRAMEWORK

INTRODUCTION

1.1 Ministry of Water Resources is responsible for overall development, conservation and management of water as a national resource, overall national perspective and coordination in this regard including co-ordination of diverse water uses.

1.2 The Ministry's functions as per Allocation of Business Rules, are as follows:

- 1) Development, conservation and management of water as a national resource; overall national perspective of water planning and coordination in relation to diverse uses of water.
- 2) National Water Resources Council.
- 3) General Policy, technical assistance, research and development, training and all matters relating to irrigation, including multi-purpose, major, medium, minor and emergency irrigation works; hydraulic structures for navigation and hydro-power; tube wells and groundwater exploration and exploitation; protection and preservation of ground water resources; conjunctive use of surface and ground water, irrigation for agricultural purposes, water management, command area development; management of reservoirs and reservoir sedimentation; flood (control) management, drainage, drought proofing, water logging and sea erosion problems; dam safety.
- 4) Regulation and development of inter-State rivers and river valleys, Implementation of Awards of Tribunals through Schemes, River Boards.
- 5) Water Laws, legislation.
- 6) Water quality assessment.
- 7) Cadre control and management of the Central Water Engineering Services (Group A).
- 8) International organizations, commissions and conferences relating to water resources development and management, drainage and flood control.
- 9) International Water Law.
- 10) Matters relating to rivers common to India and neighbouring countries; the Joint Rivers Commission with Bangladesh, the Indus Waters Treaty 1960; the Permanent Indus Commission.
- 11) Bilateral and external assistance and cooperation programmes in the field of water resources development

1.3 The above functions of Ministry of Water Resources are carried out through the following organizations/institutions of the Ministry:

ATTACHED OFFICES

1. Central Water Commission
2. Central Soil & Materials Research Station

SUBORDINATE OFFICES

1. Central Water & Power Research Station
2. Central Ground Water Board
3. Farakka Barrage Project
4. Ganga Flood Control Commission
5. Bansagar Control Board
6. Sardar Sarovar Construction Advisory Committee
7. Upper Yamuna River Board

STATUTORY BODIES

1. Brahmaputra Board
2. Betwa River Board
3. Narmada Control Authority
4. Tungabhadra Board
5. Ravi and Beas Water Tribunal
6. Cauvery Water Disputes Tribunal
7. Krishna Water Disputes Tribunal
8. Vansadhara Water Dispute Tribunal
9. Mahadayi Water Dispute Tribunal

AUTONOMOUS BODIES (SOCIETIES)

1. National Water Development Agency
2. National Institute of Hydrology

PUBLIC SECTOR UNDERTAKINGS

1. Water and Power Consultancy Services (India) Limited
2. National Projects Construction Corporation Limited.

1.4 The Ministry, during 2012-13, implemented and monitored 13 central sector, and 5 state sector schemes. The following gives a brief overview of the Central Sector Schemes:

1.4.1. Development of Water Resources Information System: The objective of the scheme is to develop a water resources information system and make it fully operational at the earliest. The management of water resources is a highly complex task that involves multidisciplinary domains including data acquisition, numerical modeling, optimization, data warehousing, and the analysis of socio-economic, environmental and legal issues. In view of vital role of water in human life, there is a need for better design and optimal use of hydro-systems. In this context, a rational analysis must be based on an approach that considers all related causes and effects and systematically evaluates the various alternatives. The water resources information system plays a vital role in achieving optimal utilization of the resources.

1.4.2. **Hydrology Project II:** The objective of the Hydrology Project Phase-I (HP-I) implemented during the period 1995-2003 was to improve institutional arrangements, technical capabilities and facilities for development of Hydrological Information System (HIS). As a follow up of HP-I, Hydrology Project Phase – II (HP-II) is taken up with the objectives to extend and promote sustained and effective use of HIS by all potential users concerned with water resources planning and management, public and private, thereby contributing to improve productivity and cost effectiveness of water related investments in 13 States and 8 Central Agencies.

1.4.3. **Investigation of Water Resources Development Scheme:** It comprises of two components e.g. “Investigation of River Link Proposals by NWDA” and “Investigation of WR/ Multipurpose Schemes by CWC”. The objective of the scheme is to carry out the activities related to survey, field investigation, preparation of pre-feasibility/feasibility report (FRs) & details project report (DPRs) of the schemes for Inter Basin transfer of Water, intra-State links and to carry out other studies & activities considered necessary incidental, supplementary or conducive to attainment of above objectives.

1.4.4. **Research and Development Programmes for Water Sector:** The objectives of the scheme are (i) to find practical solutions to the country’s water resources related problems and to improve available technology and engineering methods and procedures, particularly to take up research studies for improvement of the efficiency of the existing facilities, (ii) to create / upgrade research facilities of the premier organizations/institutions at National level to keep pace with the state-of-art technology, and (iii) to support research works to be taken up by the various institutions in water sector.

1.4.5. **National Water Academy:** This scheme will cover the activities related to training of water resources professionals from State and Central organizations in the area of water resources development, particularly integrated river basin planning and management.

1.4.6. **Information, Education and Communication (IEC) Scheme** has been launched for implementation during the XI Five Year Plan with the aim of creating awareness among various target groups about the importance of development and management of water resources in a holistic manner with due emphasis on a coordinated effort for addressing various water related issues. The objectives of the scheme are as under :-

- (i) To create awareness for optimal sustainable development, maintenance of quality and efficient use of country’s water resources to match the growing demands on this precious natural resources with active involvement of all stakeholders in order to achieve accelerated, equitable, economic development of the country.
- (ii) To create awareness for the urgent need for mutual cooperation and adopting integrated planning and participatory approach in management.
- (iii) To create awareness among the people about necessity of water conservation.
- (iv) To promote advocacy on the tenets of National Water Policy with focus on learning, documenting and dissemination of knowledge of water science and technology and issues concerning sustained development of water resources.
- (v) To create awareness about necessity of adopting measures for rainwater harvesting and artificial recharge of ground water to meet present and future needs of water.

- (vi) To strengthen awareness infrastructure specially campaign mechanism and support structure.

1.4.7. River Basin Organizations/Authority: The objective of the scheme is to provide a forum to all the co-basin states for taking up necessary studies, evaluation etc. for finding optimum method for development and utilization of water resources within that basin and meeting the aspirations of all stake-holders.

1.4.8. Infrastructure Development: This scheme pertains to the activities related to lands & buildings and Information Technology development and specifically include the activities related to (i) Land & Building & Information Technology Plan of Central Ground Water Board, (ii) Land & Building of Central Water Commission, (iii) Information Technology Development Plan of Ministry of Water Resources, and (iv) Up-gradation and modernization of computerization and information system of Central Water Commission.

The scheme aims at providing better working environment in the offices, creation of assets and savings on payment of monthly rent. To achieve this, construction of offices at various locations, provision of hutments for field workers, provision for construction of staff quarters as well as modernization of existing offices of the Ministry (Proper) and Central Water Commission have been included under the ambit of the scheme. It also aims at integrating and streamlining existing scattered information systems into unidirectional dynamic E-governance mode.

1.4.9. Dam Safety Studies & Planning: The scheme envisages taking up of necessary studies related to Dam Safety and infrastructure strengthening of the Dam Safety Organization. With the assistance from the World Bank, Dam Rehabilitation and Improvement Project (**DRIP**), a six-year project was launched in 2011. The project would be implemented in 4 States, namely Kerala, Madhya Pradesh, Orissa, and Tamil Nadu. About 223 large dams in the four participating states with substantial need for rehabilitation and improvements would be included in the project. Development of appropriate institutional mechanisms for the safe operation and maintenance of all large dams would also be taken up in these states. In addition, strengthening of the institutional setup for national level dam safety surveillance and guidance would be taken up in Central Water Commission (CWC). The project development objectives of DRIP are: (i) to improve the safety and performance of selected existing dams and associated appurtenances in a sustainable manner, and (ii) to strengthen the dam safety institutional setup in participating states as well as at central level.

1.4.10 Ground Water Management and Regulation:

- ❖ Ground water exploration
- ❖ Ground water resource assessment
- ❖ Ground water regime monitoring
- ❖ Artificial recharge & rainwater harvesting studies
- ❖ Ground water management studies in identified thrust areas
- ❖ Geophysical Studies
- ❖ Hydro-chemical studies
- ❖ Regulation of ground water development
- ❖ Remote sensing studies
- ❖ Ground water modeling

- ❖ Conjunctive use studies of surface and ground water
- ❖ R&D studies
- ❖ Education / knowledge transfer etc.

1.4.11. **Rajiv Gandhi Institute of Training and Research:** The Institute is responsible for organization of training of officers/ officials of CGWB, Central/State government organizations/ Academic institutes etc to create capacity building in the field of ground water and related aspects.

1.4.12. **Flood Forecasting:** The objective of the scheme is to strengthen flood forecasting and inflow forecasting network in India and develop forecast information system.

1.4.13. **River Management Activities in Border Areas:** It covers the on-going river management activities on common rivers with Nepal, Bhutan China and Bangladesh. Besides, some new developmental works in border areas are envisaged under this scheme to provide 100% Central assistance to the concerned States for their timely completion during XI plan period.

Under the scheme, works of (i) finalization of Detailed Project Report (DPR) of Pancheshwar Multipurpose Project (PMP), proposed on the Mahakali river at Indo-Nepal Border (ii) Survey & Investigation of Kosi High Dam Project at Barakhshetra in Nepal (iii) Detailed Investigation of Naumure Storage Project (Nepal) on river Rapti (iv) Hydrological observations on common rivers with Nepal, Bhutan, China and Bangladesh (v) Maintenance of flood protection works of Kosi and Gandak barrages in the Nepal territory (vi) Establishment cost of Ganga Flood Control Commission and (vii) new river bank protection works on common/ border rivers with Bangladesh and Pakistan proposed by West Bengal, Tripura & J & K states are taken up during XI Plan period.

In addition, Brahmaputra Board, Guwahati is provided grant-in-aid for establishment cost besides urgent flood protection works in critical reaches, in Brahmaputra & Barak basin including protection of Majuli Island from river erosion.

Three Bank Protection/ flood control works on Mahananda River in West Bengal along international border with Bangladesh have been completed. Ten Bank Protection works in West Bengal and two Bank Protection works in Tripura are under various stages of completion. In addition, central assistance has been provided to the state Government of Tripura for undertaking three more bank protection works along international border with Bangladesh.

1.4.14. **Farakka Barrage Project:** The main objective of the Farakka Barrage Project is operation and maintenance of Farakka Barrage and associated structures including anti-erosion measures for safety of barrage.

CHAPTER- II
OUTCOME BUDGET 2013-14
Statement of Outlays & Outcome/ Targets Annual Plan 2013-14

(Rs. Crore)

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	Annual Plan (2013-14)	Quantifiable Deliverables/ physical outputs	Projected Outcome	Process/ Timelines	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
1	Development of Water Resources Information System (DWRIS)		150.00				
	Hydrological Observations and Monitoring System						
	Upgradation of the existing HO Stations and setting up of new HO sites	Continuing activities to collect hydrometeorological and water quality on all major rivers including snowmelt runoff monitoring, compilation and dissemination of the observed data to users. Hydrological Information System, Upgradation of sites, Opening of New Sites and Water Quality Laboratory upgradation		Publication of Hydrological Water Year Book, Water Quality Year Book, Silt Year Book, Hydrological Information System, Upgradation of sites, Opening of New Sites and Water Quality Laboratory upgradation	Data is made available in the published form of reports / books	Daily/Ten Daily/Monthly/Yearly/ Periodical	
	Collection of Storage data on the major reservoirs in the country	To collect reservoir water level of 120 reservoirs whose live storage is proposed to be monitored by the CWC by telemetry system		Installation of Telemetry System on 87 reservoirs	Installation of Telemetry System on 87 reservoirs will be under taken	Telemetry System will be installed on 87 reservoirs	87 reservoirs includes 84 reservoirs whose live storage is at present being monitored by the CWC and 3 new reservoirs
	Developing Coastal Management Information System (CMIS)	i) Determination of causes of erosion/ sediment transportation /defining sediment cell/sediment budget etc. including data collection and documentation ii) Installation of Tidal gauge and data collection iii) Data collection of Parameter like Wave, current, Bathymetry etc. in short-fall areas iv) Collection, Analysis, Processing and Integration of Coastal Data into WRIS v) Strengthening of CPDAC/it's sub-committees, Field visits, Training/Study Tours, Technology Transfer, Strengthening of Beach Erosion Dte. as a Centre of excellence , Preparation of Manual, guidelines, Workshop / Seminar etc.		i) 2 Site ii) 1 Site iii) 2 Site iv) Ongoing Process v) Ongoing Process	Installation of Tidal gauge data collection, Integration of Coastal Data into WRIS.	Continuous activity	

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	Annual Plan (2013-14)	Quantifiable Deliverables/ physical outputs	Projected Outcome	Process/ Timelines	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
	Irrigation Census						
	Rationalization of Minor Irrigation Statistics (RMIS)	Conduct of 5th Minor Irrigation Census w.r.y. 2011-12		1.) Conduct of All India Workshop for Introduction of New Methodology for next MI Census in the States-	Conduct of All India Work shop for next MI Census Preparatory work for census and hiring of additional staff at Cental level.	28-02-2013	
				2.) Selection of Central Agency for conduction the MI Census through outsourcing.	Field work and supervision to continue through out the year	30-04-2013	
				3.) Other Preparatory work for MI Census work like finalization of Schedules/Guidelines and the related software, selection of field agency etc.		30-08-2013	
				4.) Hiring of Additional Staff at Central level for better supervision and Monitoring of 5th MI census.		31-08-2013	
				5.) Training to field agencies		31-03-2014	
	Pilot Census/Survey of Major and Medium Irrigation Projects	To collect information through outsourcing on Culturable Command Area (CCA) and their geographical extent, Irrigated area by season, Irrigation Potential created and utilized (IPC & IPU), Cropping pattern, Other project related information		To initiate the process for undertaking Pilot Survey thorough out sourcing.	Pilot survey thorough out sourcing will be under taken.	Pilot Survey would be completed by March, 2014	

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	Annual Plan (2013-14)	Quantifiable Deliverables/ physical outputs	Projected Outcome	Process/ Timelines	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
	Water Quality Assessment Authority and Monitoring System	WQAA is mandated to direct various agencies to standardise methods for water quality monitoring and to ensure quality of data generation; to take measures so as ensure proper treatment of wastewater with a view to restoring the water quality of the river/water bodies to meet the designated-best-uses; to take up research and development activities in the area of water quality management; to promote recycling, re-use of treated sewage/trade effluent for irrigation in development of agriculture; to draw action plans for quality improvement in water bodies; to maintain minimum discharge for sustenance of aquatic life forms in riverine system; to utilize self-assimilation capacities at the critical river stretches to minimize cost of effluent treatment; to review the status of quality of national water resources (both surface water & groundwater (except-that due to geo-genic aspect) and identify		Most of the activities of WQAA are of continuous nature and are taken up throughout the year regularly. Few of the quantifiable activities to be taken up by WQAA are: 1. R&D Studies - 4 2. Training Programme-6 3. Preparation of various reports on water quality issues – 4 4. Organization of WQAA meetings – 2 Nos.	Most of the activities of WQAA are of continuous nature and are taken up through the year. R&D Studies - 4, Training Programme-6, Preparation of various reports on water quality issues – 4, Organization of WQAA meetings – 2 Nos will be undertaken.		
	Strengthening of Monitoring Unit in CWC	To monitor Major, Medium Irrigation Projects by making field visits and prepare implementation status report thereof and Strengthening to monitoring units of CWC.		i) online monitoring of major & medium projects under AIBP will be carried out by developing in-house capability iii) All the Major and Medium projects are monitored.	i. Evaluation of potential creation reported by Project Authorities and that assessed by CWC officers by developing in-house capability (1st batch of training of CWC officers to NRSC, Hyderabad has been completed during 26-29 Dec-2012). ii. Expedient completion of projects and creation of additional potential through regular monitoring by CWC Monitoring Teams.	Activities to continue throughout the year.	
Data Bank and Information System							
	Web-enabled Water Resources Information System & Setting up of National Water Informatics Centre (NWIC)	Creation of Watershed Atlas and development of web enabled Water Resources Information System of the country at 1:50000 scale		Fourth version of WRIS will be launched.	Fourth version of WRIS will be launched.	Expected by Dec., 2013	
	Up-gradation and Modernization of Library Information Bureau in CWC	Upgradation & Modernisation Library of CWC		Upgradation & Modernisation Library of CWC	Upgradation & Modernisation Library of CWC	Continuing activity	

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	Annual Plan (2013-14)	Quantifiable Deliverables/ physical outputs	Projected Outcome	Process/ Timelines	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
	Software Management in CWC	i) Enhancement of e-Governance capabilities, ii) upgradation & strengthening of hardware, software and network resources iii) Improvement of CWC Website iv) Building of IT knowledge base in CWC through Training v) Strengthening of SM Dte.		i) Establishment of data centre ii) Digitization of Engg. Drawings iii) establishment of disaster recovery site iv) procurement of Laptop, printer v) Installation of FEM software vi) Upgradation of computers and printers viii) Website development on on IPV6 platform ix) Expansion of LAN facility x) AMC for hardware and software xi) Implementation of e-procurementn xii) Digitization of Service books of staff of CWC xiii) Installation of Library information Software xiv) Installation of DBMS software xv) procurement of consumables xvi) Installation of microsoft office xvii) Installation of active directory	IT services in CWC like Establishment of data centre, Digitization of Engg. Drawings, establishment of disaster recovery site, Installation of FEM software will be undertaken.	III rd Quarter III rd Quarter III rd Quarter IInd Quarter Ist Quarter IInd Quarter IInd Quarter Ist Quarter IInd Quarter IIIrd Quarter IVth Quarter Continue activity	Budget allocated in Sept., 2012
2	Flood Forecasting	To maintain the network of hydrological observations sites across the country by CWC covering 20 river basins to provide timely flood forecasts at 175 stations to the local administration and extension of Flood Forecasting in other areas	150.00	Collection of real time data, its analysis and issue of flood forecasts. Around 6000 forecasts are issued every year.	Advance warning of the incoming flood to help in planning activities for reducing the damages from floods	Central Water Commission will implement during the year.	Annual plan proposed is to undertake preparation of Dem by SOI for about 200000 sq km area of Ganga Basin states of UP, Bihar and West Bengal, Modernisation of communication
3	Hydrology Project	To extend and promote the sustained and effective use of the Hydrological Information System by all potential users concerned with water resources planning and management in 13 states and 8 Central Agencies.	70.00	Implementation of the project components, i.e. institutional strengthening, vertical extension (with DSS-Planning, DSS-Real Time, Hydrological Design Aids, and 10 Purpose Driven Studies) and Horizontal Expansion with support of 4 major consultancies. Aquifer Mapping in 6 pilot study areas.	<ul style="list-style-type: none"> Improved data accessibility for exchange among the Implementing Agencies Improved tools for water resources and management Improved data system & tools for management of floods and droughts 	The planned activities are to be implemented through the Central Agencies, viz. PCS (MoWR), BBMB, CWC, CGWB, CWPRS, CPCB, IMD and NIH till end of May, 2014.	
4	Ground Water Management And Regulation	A. Aquifer Mapping for delineation of Aquifer disposition and their charecterisation	275.00	As follows		One year	
		i. Procurement of Maps 7 Data sheets		5.0 lakh Sq Km	Input for base map for Aquifer mapping will be obtained.	One Year	

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	Annual Plan (2013-14)	Quantifiable Deliverables/ physical outputs	Projected Outcome	Process/ Timelines	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
		ii. Data Compilation		6.25 lakh Sq Km	Thematic maps will be made from compiled data	One year	
		iii. Data Gap Analysis		6.25 Lakh Sq Km	Quantity of data generation for aquifer mapping	One year	
		iv. Data Generation		0.54 Lakh Sq Km	Precise Aquifer maps for aquifer wise GW management.	One Year	
		Ground Water Exploration for aquifer mapping		800 Well	Subsurface aquifer disposition and their hydraulic parameters	One year	
		Geophysical Studies for aquifer mapping		VES-2000 Bore-hole Logging- Need based	Interpolation of subsurface aquifer geometry	One year	
		Hydro-chemical studies for aquifer mapping		20000 Samples	Ground water quality of aquifers will be determined for potable and other uses.	One year	
		B. Monitoring and Strengthening of Hydrograph net work Observation Wells		Existing four times in a year and additional 7000	Depiction of ground water regime and longterm trends of the country will be produced.	One year	
		C. Technical Assistant to State & Central Govt. for drinking water source findings		Need based as per request	Concerned organizations will tap more ground water for their water supply requirement.	One year	
		D. Ground Water Resource Assessment		Dynamic Ground Water Resource Assessment (as on 31st March 2013)	Quantification of GW availability and stage of development will be assessed and categorization of OE/ Critical areas will be updated.	One year	
		E. preparation of Reports, Map of dissemination of Scientific information					
		State Reports		17	Ground water scenario of the State will be depicted	One year	
		Ground Water Year Book		23	Ground water data will be available for dissemination of information to stake holders	One year	
		F. regulation of Ground Water development by Ground Water Authority		Regulation of ground water in 162 notified areas	Ground water over exploitation will be controlled.	One year	
		G Procurement of Machinery & Equipment for Technology up-gradation		Procurement of Rugs & Equipments	Improved and accurate data will be available	One year	
5	Research & Development Programme in Water Sector	Objective of the scheme is to find practical solutions to the Country's water resources related problems and to improve available technology, engineering methods, procedures, and to create/upgrade research facilities, benchmarking of the research institutions of the premier organisation under MoWR.	50.00	Completion of physical/ mathematical/ model/ /desk studies=165 Nos Preparation of technical reports= 218 Nos Publication of research papers=260 Nos Preparation of guidelines/manuals=6 Nos Organization of workshop/ seminar/symposia/Training = 33 Nos Training of personnel= 240 Nos	Completion of physical/ mathematical/ model/ /desk studies=165 Nos Preparation of technical reports= 218 Nos Publication of research papers=260 Nos Preparation of guidelines/manuals=6 Nos Organization of workshop/ seminar/symposia/Training = 33 Nos Training of personnel= 240 Nos	The work is to be implemented by various organisations of the Ministry.	

SI.No.	Name of Scheme/ Programme	Objective/ Outcome	Annual Plan (2013-14)	Quantifiable Deliverables/ physical outputs	Projected Outcome	Process/ Timelines	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
6	HRD/Capacity Building		94.00				
(a)	Information, Education and Communication Component of HRD/CB Scheme	To generate awareness amongst the masses about the importance of water and need for its conservation	40.00	i) Painting Competition. ii) Electronic Media Campaign for mass awareness on water conservation iii) Print media Campaign iv) Workshops/Seminars/Conferences v) Participation in Fairs/Exhibitions	(i) Implementation of the approved Media Plan comprising of electronic, print, outdoor activities etc. that would be submitted by the Professional Media Agency/Consultant. (ii) Observation of Water Conservation Year 2013. (iii) Organization of Painting competition at Schools, State and National levels in 35 States and UTs of the country. (iv) Publicity through Doordarshan, All India Radio and Private T.V. and Radio Channels by airing audio/video spots on water conservation. (v) Various mass awareness programmes and water management training programmes/workshops to be organized in various parts of the country through CGWB and CWC	Continuing activity	
					(vi) Organization of IITF in Delhi by displaying live working models and dioramas on water cycle/water related aspects, posters, banners, backlit translights, distribution of pamphlets, booklets, water testing kits, distribution of certificates, distribution of freebees to children, pantomime/quiz shows etc. (vii) Celebration of India Water Week-2013. (viii) Grant in Aid/financial support to Chambers of Commerce/reputed organizations for organizing conferences/workshops/mass awareness programmes.		
(b)	National Water Academy	Training for In-service Engineers/ Induction Engineers in water Resources Planning Development and Management Infrastructure development	5.00	a) 32 Nos. of Training Programmes t	a) 32 Nos. of Training Programmes completed by March,2014	Training programme will be spread over the whole year and will be conducted in accordance with the approved Training Calendar	achieving the target depends upon filling of the vacant posts
(c)	RGN Ground Water Training Institute	Training of CGWB and other Central/ State Govt. officers and staff on ground water aspect	9.00	32 Training Courses Tier-II-36 Tier-III through outsourcing-100	Capacity building of professionals and sub-professionals in GW investigations, development an management techniques and also in administrative matters and management aspects.	One year	
(d)	Capacity Building Programme		40.00				

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	Annual Plan (2013-14)	Quantifiable Deliverables/ physical outputs	Projected Outcome	Process/ Timelines	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
	Training & demonstration	Training Programmes Seminars / Workshops /of farmers/ functionaries and demonstrations of tested technology in the fields.		200 programmes	To make them abreast of latest developments	progress to depend upon WALMIs taking up training work	EFC scheme is yet to be approved.
	Strengthen of WALMs/ IMTIs	To repair/ renovate/ upgrade/ modernize/ of dilapidated Infrastructure 14 of WALMIs/ IMTIs.		One time financial assistance to each of 14 institutes in installments will be provided and each installment will be tied with deliverable performance indicators as per MoU.	to strengthen infrastructure	state Government making available their share of contribution	
	NERIWALM	To running and Maintenance of the Institute NERIWALM.		NERIWALM, Which is a WALMI in North Eastern region of the Country is transferred to MoWR from M/o DoNER w.e.f.1 st April, 2012.	continuation fo existing training institutes	training and project work taken up	
7	Infrastructure Development	Land & Building (CWC) and Ministry (Proper) - To provide decent honorable, better and healthy working conditions for the staff engaged in works of data collection planning and investigation of VWR projects, monitoring of various WR projects and flood forecasting activities.	50.00	Acquisition of land and construction of non-residential and residential buildings for CWC at various locations all over India, modernisation of CWC HQ at Sewa Bhawan, New Delhi, Establishment of National Water Technology Park at Hyderabad.	Reduce dependence on private accommodation which is difficult to get and thus, reduced litigation involved with occupation of private hired accommodation.	Majority of works are being implemented by Central Public Works Department	
		CGWB (IT) - • Development of Web based Work flow applications for e-Governance in CGWB in association with NIC and to procure associated Hardware, Software and Peripherals.		Development of effective Web based Work flow applications for use of all the employees of CGWB along with deployment of associated Hardware, Software and Peripherals.	Software Requirement Specification(SRS) document would be prepared for the design and development of work flow applications for e-Governance activities in all the Office of CGWB .	Development and Deployment would be carried out during 2013-14 and 2014-15.	

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	Annual Plan (2013-14)	Quantifiable Deliverables/ physical outputs	Projected Outcome	Process/ Timelines	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
		CGWB (Land & Buildings)--To set up own office buildings		Regional & Divisional Office including Workshop & Store on the land of CGWB at Guwahati.Divisional Store & Workshop at Bangalore . Staff Qtrs. for the employees of CGWB Bhubaneswar. Office, Store & Workshop for CGWB, Div.XII at Bhopal. Regional and Divisional Office at Ahmedabad. Divisional Office Workshop & Store of CGWB, Division-II at Ambala.Boundary wall and Building for Construction of Boundary wall, Building for Office, Workshop & Store for Regional & Divisional at Jammu. Boundary wall and Building for Construction of Boundary wall, Building for Office, Workshop & Store for Regional & Divisional at Jammu. Acquisition of land and construction of Office Building of CGWB, Uttaranchal Region at Dehradun. Divisional Workshop & Store at Chennai. Divisional Office, Workshop & Store at Jodhpur. Divisional Office, Workshop & Store at Ahmedabad. Regional, Divisional Office including Workshop & Store at Dharamshala. Construction of Building for Divisional Office, Workshop & Store at Ranchi (Jharkhand).	Reduce dependence on private accommodation which is difficult to get and thus, reduced litigation involved with occupation of private hired accommodation.	2-3 years(Since this is an on-going scheme and as per the time scheduled by CPWD it would not be feasible to indicate out put and out come).	
		IT & e-Governance Scheme Ministry(Proper) - Development of Web based Work flow applications for e-Governance in CGWB in association with NIC and to procure associated Hardware, Software and Peripherals.		Development of effective Web based Work flow applications for use of all the employees of CGWB along with deployment of associated Hardware, Software and Peripherals.	Implementation of e-Office will bring a remarkable change in the functioning of the Ministry as well as promoting e-Governance activities, responsiveness and transparency in the Ministry which would further be implemented in the organisations of the Ministry as well.	Development and Deployment would be carried out during 2013-14 and 2014-15.	
8	River Basin Management		200.00				
a	River Basin Organisation	To encourage setting up of River Basin Organisation with the primary objective of providing a forum to all the co-basin states for taking up necessary studies and evaluation etc., with a view to identify the most appropriate alternative for optimum utilisation of resources and meeting the aspirations of all state-holders.	1.00	Concerned basin states of Mahanadi and Godavari basin would be pursued for setting up of RBOs.	Concurrence of basin states for setting up of RBO	Activities to continue throughout the year.	

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	Annual Plan (2013-14)	Quantifiable Deliverables/ physical outputs	Projected Outcome	Process/ Timelines	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
b	Investigation of Water Resources Development Schemes	Survey and investigation for preparation of DPR of continuig projects viz. Rukni - Sonal, Manas Sankosh Teesta link, Twangchu, Suintaley, Kalezkhola, Kirthal, Ujh and national projects Gyspa and Bursar and new projects proposed in XII Plan Tiwant, Drass Suru, Taramchu, Kali Khola and preparation of feasibility reports of Adhwara groups of river in Sitamarhi districts.	90.00	Survey & Investigation for preparation of detailed project report	The project investigations will be carried out for preparation of DPRs	CWC will implement the scheme during the financial year.	
		To carry out activities related to survey, field Investigations in respect of preparation of Detailed Project Reports (DPRs), Feasibility Reports (FRs) of river link proposals & preparation of Prefeasibility Reports (PFRs) / FRs/ DPRs of intra state link proposals and activities considered incidental, supplementary or conductive to attainment of above objectives.		(a) Survey & Investigations for preparation of Feasibility Report of 1. Bedti – Varada link 2. Manas – Sankosh – Tista – Ganga (M – S – T – G) 3. Jogighopa – Tista – Farakka (Alternative to M – S – T – G) 4. Sone dam-STG link 5. Kosi – Ghaghara link 6. Kosi – Mechi link 7. Netravati – Hemavati link	Survey & Investigation and preparation of Fesiability report , PFR and DPR in respect of Interlinking and Intralink projects.	NWDA will restart & complete the work for preparation of FR of Bedti – Varada link (S. No. 1) during 2013-14 after Govt. of Karnataka agree for EIA studies. FRs of the Himalayan links (S. No. 2 to 5) which involves international dimensions will remain under progress. Work for FR of Kosi – Mechi link (S. No. 6) will be started after getting permission for carrying out S & I works in the Nepal territory. The works for preparation of FR of Netravati – Hemavati link (S. No. 7) will be initiated after getting concurrence of Govt. of Karnataka, for which efforts are being made for early concurrence.	Permission is required from neighbouring countries such as Nepal & Bhutan for carrying out Survey & Investigations in their territories. NWDA through MOWR is pursuing the matter with MEA for expediting the dialogue with neighbouring countries. In view of this, the target date of completion for all the Himalayan links may not be fixed.

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	Annual Plan (2013-14)	Quantifiable Deliverables/ physical outputs	Projected Outcome	Process/ Timelines	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
				(b) Consensus building process amongst the concerned States for preparation of Detailed Project Report of Parbati – Kalisindh – Chambal link and Mahanadi – Godavari – Krishna – Pennar – Cauvery – Vaigai – Gundar links system.		Efforts will be made by MOWR / NWDA to conveying the concurrence of concerned States, Madhya Pradesh & Rajasthan for signing of tripartite MOU for preparation of DPR of Parbati –Kalisindh – Chambal link. Efforts will be continued for arriving at a consensus for Mahanadi – Godavari – Krishna – Pennar – Cauvery – Vaigai – Gundar link system amongst the concerned States during 2013-14.	
				(c) Survey & Investigations and Preparation of Detailed Project Report of Parbati – Kalisindh – Chambal link		Various activities / Works for preparation of DPR of Parbati – Kalisindh – Chambal link will be initiated during the year subjected to arriving consensus on MOU amongst the concerned States & Union Govt.	
				(d) Preparation of Prefeasibility Reports of Intra – State link proposals, as proposed by State Govts.		Various activities / Works for preparation of PFR of Intra – State links will remain under progress during the year after getting necessary inputs from various States and 6 PFRs will be completed during 2013 – 14.	
				(e) Post – DPR stage work of Ken – Betwa link , Par-Tapi-Narmada(PTN) & Damanganga-Pinja I(DP) links.		(i) The necessary clearances from MOEF, Planning Commission & Supreme Court and convening meetings with CWC / State Govts. / Other Central Agencies, attending to the comments of States / Central Agencies and deciding further modalities for execution of the projects will remain under process during the year 2013 – 14.	
				(f) Preparation of DPR of Himalayan links.		The DPR works of 2 links under Himalayan Component will also will be initiated during 2013-14.	

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	Annual Plan (2013-14)	Quantifiable Deliverables/ physical outputs	Projected Outcome	Process/ Timelines	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
				(g) Preparation of DPR of Intra-State links		The work of Wainganga (Gosikhurd) – Nalganga (Purna) Tapi links of Maharastra & Ponnaiyar-Palar link of Tamil Nadu will remain in progress. Work of Preparation of two new DPRs will be taken up by NWDA.	
c	Re-Structuring of CWC	Horizontal expansion of field activities at basin level to address the basin level issues in more comprehensive and integrated manner and to take up the responsibilities assigned to MoWR/ CWC under National Water Mission(NWM) to address climate change issues	9.00	Approval of the scheme of Re-Structuring of CWC and creation of posts for restructured CWC. Starting of work of hiring of offices / infrastructure.	Approval of new posts created due to restructuring of CWC	Activity to continue throughout the year	
d	Brahmaputra Board	Survey, Investigation & preparation of Master Plan, DPRs for Drainage Development Schemes & DPRs for Multipurpose project, Operation & maintenance & upgradation of NEHARI, Construction of H.Q.Complex & R&M of assets created by the Board, Upgradation of IT&GIS, Climate Change Studies etc. Execution of (i) Drainage Development Schemes, (ii) Anti-erosion schemes & Flood Management Schemes, (iii) Construction of raised platform,,	100.00	3 Nos Master Plan, 2 Nos DPR of DDS , completion of 2 Nos. of DPRs of Multipurpose Projects, completion of 61% works of Barbhag DDS, 42% of Amjur DDS, 74% of Jengrai, 49%of Jakaichuk, 61% of Phase-II &III works of Protection of Majuli Island from flood and erosion, 10% works of Avulsion of Dhola Hatighuli Phase -IV, Anti-erosion works - at Balat village at river Umngi in Meghalaya - 53%, anti-erosion works for protection of Mankachar, Kalairalga international border area from erosion of river Brahmaputra Assam - 24%, Puthimari river in Assam -33%, Protection work of river Teesta at Baikuthapur in West Bengal 5%, 30% works of Raised Platforms, Continuation of feasibility study of channalisation of river Brahmaputra, Operation & maintenance & upgradation of NEHARI, Upgradation of IT & GIS, Climate Change studies would be taken up,	o Preparation of 3 Master Plans, 2 DPRs of DDS(s), 2 DPRs of Multipurpose Projects, o Physical Progress of DDSs-Barbhag- 61%, Amjur-42%, Jengrai-74%, Jakaichuk-49%, o Physical Progress of Flood and Erosion Management Schemes- Majuli Island(Phase-II &III) -61%, Dhola Hatighuli (Phase-IV) -10%, Balat Village, Meghalaya - 53%, Mankachar, Kalairalga, Assam - 24%, Puthimari, Assam -33%, Baikuthapur in West Bengal - 5%, o Physical Progress – Construction of Raised Platforms – 30%, o Feasibility study of channalisation of river Brahmaputra, o Running, Maintenance & Modernization of NEHARI, o Upgradation of IT & GIS, o Studies on Impacts on Climate Change	To be implemented by Brahmaputra Board	

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	Annual Plan (2013-14)	Quantifiable Deliverables/ physical outputs	Projected Outcome	Process/ Timelines	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
9	River Management Activities And Works Related To Border Rivers & UTs	Hydrological observations and investigations of Water Resources Projects with neighboring countries besides river management works on common/border rivers. Flood control, Anti-erosion and anti sea erosion works, Maintenance of flood protection works of Kosi and Gandak Projects (in Nepal).	125.00	(i) Continuation of Joint Hydrological observations on river Ganga with Bangladesh, and (ii) Transmission of flood related data from / to neighboring countries (iii) Preparation of Joint Detailed Project Reports (DPR). (iv) Development works on common/border rivers. (v) Anti-erosion and anti sea erosion works of UTs. (vi) Maintenance of flood protection works of Kosi and Gandak Projects (in Nepal).	Mitigating the recurring flood problems, bank protection works in Indo-Bangladesh border, Indo-Pakistan border and Union Territory would be carried out in 2013-14. The works are would be in West bengal, Triopura, J&K, Punjab, HP and UT of Puducherry.	Implemented by Central Water Commission, Ganga Flood Control Commission, and State Governments of Bihar, Uttar Pradesh, Tripura, West Bengal, Jammu & Kashmir, Punjab, Himachal Pradesh, Utraktand and UTs.	
10	Farakka Barrage Project	(i) Maintenance of Farakka Barrage Project and its appurtenant structure including feeder canal, Jangipur Barrage etc. (ii) Anti-erosion works for protection of embankments along river Ganga and its tributaries to train the river along main barrage.	150.00	(i) Special repair and Maintenance of Farakka Barrage Project and its appurtenant structure including feeder canal, Jangipur Barrage and replacement of barrage gates etc. (ii) Erosion control in the extended jurisdiction of FBP from 40 km u/s to 80 km d/s of Farakka Barrage to save land, crops, orchards, public buildings etc. along river Ganga-Padma.	(a) Maintaining the supply of sufficient discharge (40,000 cusecs) to Bhagiathi / Hooghly through Feeder Canal to maintain inland navigation along National Waterway-I (Ganga –Bhagirathi – Hooghly river system). (b) Maintaining direct road & rail link between Kolkata, North Bengal & Assam rthrough esisting rail cum road bridge across Ganga river at Farakka. (c) Protection of countryside dwellers, their land, public road, bridges etc. by checking the river erosion through execution/maintenance of anti-erosion works along river Ganga-Padma in a length of about 1.5 km. (d) Replacement of old gates of Farakka Barrage . (e)Continuing implementation of India - Bangladesh Treaty (1996) for sharing of Ganga Water during lean period by controlling discharge at Farakka.	Farakka Barrage Project will complete all necessary works as per approval and direction of Technical advisory Committee (TAC) of FBP headed by Member (D&R), CWC..	
11	Implementation Of National Water Mission(NWM)-New Scheme	Conservation of water, minimizing wastage and ensuring its more equitable distribution both across and within States through intergated water resources development and management	110.00	The NWM identifies five goals as under;		Activities to continue in the FY 2013-14	New Scheme in XII Plan
				(I) Comprehensive water data base in public domain and assessment of the impact of climate change on water resource,			
				(II) Promotion of citizen and state actions for water conservation, augmentation and preservation,			

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	Annual Plan (2013-14)	Quantifiable Deliverables/ physical outputs	Projected Outcome	Process/ Timelines	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
				(III) Focused attention to vulnerable areas including over-exploited areas,			
				(IV) Increasing water use efficiency by 20%, and			
				(V)Promotion of basin level integrated water resources management			
12	Irrigation Management Programme	Incentivizing States for improvement in Irrigation Management	40.00	(i) Evolution of framework for incentivizing States for improvement in irrigation management (ii) Approval of Scheme - EFC Memo (iii) Approval of Sceme Cabinet Note (iv) Evaluation of States as per framework (v) Release of incentives to State Governments	Incentivising States for improvement in irrigation management will result in increased water use efficiency, participatory irrigation management and better utilisation of irrigation infrastructure.	(i) June, 2013 (ii) Sept, 2013 (iii) Dec, 2013 (iv) Dec, 2013 (v) March, 2014	
13	Dam Rehabilitation and Improvement Project (DRIP)	CPMU activities related to rehabilitation of the Phase-I project will commence.	36.00	Hiring of Engineering and Management Consulting Firm	Rehabilitation of old dams in participating states and dam safety institutional strengthening in states and CWC.	Implementation period for DRIP is six years. The activities shall be carried out as per phasing of rehabilitation works of DRIP dams.	Project has just commenced and activities are gearing up.
				. Dam Safety Institutional Strengthening of CWC			
				. Monitoring and Supervision of rehabilitation of DRIP dams in the participating states			
			Total	1500.00			

CHAPTER – III

REFORM MEASURES AND POLICY INITIATIVES

3.1 Mandate of National Water Development Agency (NWDA) has been approved in the 4th Special General Meeting of NWDA society to prepare the DPR of Intra-State links after getting concurrence of Co-basin States and the Gazette Notification of enhanced mandate has been published. NWDA started preparation of DPRs of intra-State links.

3.2 **Dam Safety Bill:** Action has been initiated for enactment of Dam Safety Act which would lay down the procedure for proper surveillance, inspection, operation and maintenance of the dams in the country. The Dam Safety Bill was introduced in the Lok Sabha on 30.8.2010 and has been referred to Standing Committee on Water Resources for examination. The Standing Committee presented its report which was laid in Rajya Sabha on 17.8.2011. Dam Safety Bill has been modified incorporating the recommendations of the Standing Committee and MoWR intends to take the approval of Cabinet.

3.3 National Water Mission:

3.3.1. The National Action Plan on Climate Change envisages institutionalisation of eight national missions which inter-alia includes “National Water Mission”. The comprehensive Mission Document for National Water Mission drafted by the Ministry of Water Resources through a consultative process was approved by the Union Cabinet on 6th April, 2011. The objective of National Water Mission is “conservation of water, minimizing wastage and ensuring its more equitable distribution both across and within States through integrated water resources development and management

3.3.2. Ministry of Water Resources proposes to constitute a National Bureau of Water Use Efficiency (NBWUE) as an Authority under Section 3(3) of Environment (Protection) Act 1986 for the purpose of promotion, regulation and control of efficient use of water in irrigation, municipal and / or industrial uses. The proposed Bureau will have the overall responsibility of improving water use efficiency across various sectors namely irrigation, drinking water supply, power generation and industry in the whole country.

3.4. Review of National Water Policy:

National Water Policy was first formulated in 1987 which was subsequently reviewed and a revised National Water Policy was adopted in the year 2002. In pursuance of the strategies identified in National Water Mission Document as well as deliberations in National Water Board, Ministry of Water Resources initiated the process of review of National Water Policy, 2002.

3.4.1. A series of consultation meetings were held with Members of Parliament; Academia, Experts and Professionals; Non-Governmental Organizations; representatives of the Corporate Sector; and representatives of Panchayati Raj Institutions. The National Water Board considered the Revised Draft National Water Policy (2012) at its 14th meeting held on 7th June, 2012. The draft policy was also discussed with the Consultative Committee of Parliament. The Draft National Water Policy (2012) was deliberated by the National Water

Resources Council (NWRC) at its 6th meeting on 28th December, 2012 at Vigyan Bhawan, New Delhi under the Chairmanship of Hon'ble Prime Minister of India, wherein the National Water Policy (2012) was adopted as per deliberations.

3.4.2. National Water Framework Law

Framework Law would lead the way for essential legislation on water governance in every State of the Union and devolution of necessary authority to the lower tiers of government to deal with the local water situation. For the preparation of Water Framework Act a Drafting Committee headed by Dr. Y.K. Alagh was constituted on 3rd July, 2012. A colloquium was also held with invited experts on 25th February, 2013 at ASCI, Hyderabad.

3.4.3. National Forum of Water Resources and Irrigation Ministers of States

Such a forum is expected to be the instrument for sharing of ideas and facilitating support to new and innovative ideas for better water governance. Accordingly, a National Forum of Water Resources and Irrigation Ministers of States has been constituted on 14th December, 2012 for sharing ideas, facilitating support to new and innovative ideas and evolving consensus for better water governance in the country. The Minister for Water Resources Department, Government of Rajasthan has been nominated as Chairman of the Forum for a period of two years.

3.4.4. Hydro-meteorological Data Dissemination Policy

The objective of the policy is to facilitate the access to Government of India owned shareable data and information through a network all over the country in a proactive and periodically updatable manner, within the framework of various related policies, Acts and rules of Government of India, thereby permitting a wider accessibility and use of public data and information. The Ministry of Water Resources (MoWR) proposes to formulate a Hydro-meteorological Data Dissemination Policy and the Draft has been circulated amongst States/UTs and related Ministries.

3.5. The important new initiatives in the implementation of various central and state sector schemes taken by the Ministry during XII Five Year Plan are:

- Strengthening of hydrological data collection;
- Setting up of a Water Informatics Centre for data management;
- Aquifer mapping of the whole country to quantify accurately, the quantum of ground water available for use;
- Participatory management of ground water for sustainability;
- Setting up of an Institute of Water Resources to promote policy research in water;
- Promote basin level integrated water resources management by comprehensive restructuring of CWC;

- Demonstrative projects of bench marking efficiency of irrigation in large irrigation projects;
- Institution of an Irrigation Management Fund for Incentivization of reforms in the water sector;
- Merger of Command Area Development with AIBP;
- Special thrust to Extension Renovation and Modernization of projects (ERM) and
- Sustainable ground water development programme for the Eastern and North-Eastern States to provide half a million irrigation structures.

CHAPTER - IV

REVIEW OF PAST PERFORMANCE

4.1 Review of past performance: The relevant information regarding performance during 2011-12 and 2012-13 (up to December 2012) against the targets already set are given at **Annexure-I** and **Annexure-II** respectively.

4.2 There is one flagship programme of this Ministry namely, 'Accelerated Irrigation Benefits Programme' and 'National Projects' details of which are given at **Annexure-III**.

CHAPTER - V

OVERALL FINANCIAL REVIEW

5.1 The details of Ministry of Water Resources Budget (the scheme wise allocation of funds vis-a-vis expenditure trend) including XI plan outlay is shown in **Annexure – IV** and XII Plan outlay with Annual Plan for 2013-14 is in **Annexure-V**.

TREND OF EXPENDITURE IN FY 2012-13:

5.2 Budget Estimate for the annual plan of this Ministry for the year 2012-13 is Rs. 1500.00 crores which was reduced to Rs. 650.00 crores by the Ministry of Finance at RE stage. As per the expenditure details received from the Office of Controller of Accounts, an expenditure of Rs.397.08 crores has been incurred upto December 2012 which works out to 26.47 % and 61.09 % with reference to B.E and R.E 12-13 respectively.

5.3 The grant of Ministry of Water Resources for FY 12-13 is classified into four Sectors. The Sector-wise distribution of approved plan outlay (both BE/RE) and expenditure up to December 2012 under different Sectors are summarized below:

(Rs in crore)			
Sector	B.E. 2012-13	R.E. 2012-13	Exp. upto Dec., 2012
Major & Medium Irrigation	777.20	225.50	132.07
Minor Irrigation	374.80	197.93	96.26
Flood Control	273.00	126.57	99.19
Transport Sector	75.00	100.00	66.83
EAT	0.00	0.00	2.73
Total	1500.00	650.00	397.08

Budget at a Glance

5.4 In the water resources sector, the central budget enables the Ministry of Water Resources and its associate organizations to play an overall guiding and coordinating role in relation to schemes, projects and programmes which are essentially implemented in the states/UTs. The Farakka Barrage Project is the only project which is primarily a navigation project, but is under this ministry because in terms of the skills and disciplines involved, it is similar to other hydraulic projects within the ambit of this ministry. In relation to water resources development, the role of the Ministry is one of planning, guidance, policy formulation and assistance.

5.5 Since 'Water' is a state subject, the role of central government in implementing the programmes is essentially of a catalytic nature. The budget of the central government is, thus, supplemented by funds provided in the budgets of various state governments.

5.6 The following plan schemes are being implemented by the Ministry:

Central Sector

1. Development of Water Resources Information System
2. Hydrology Project
3. HRD/Capacity Building
4. Research & Development Programme
5. Implementation of National Water Mission
6. Irrigation Management Programme
7. Dam Rehabilitation & Improvement Programme
8. River Basin Management
9. Ground Water Management and Regulation
10. Farakka Barrage Project
11. Flood Forecasting
12. River Management Activities and works related to Border Rivers
13. Infrastructure Development

State Sector Schemes

14. Accelerated Irrigation Benefit Programme
15. Repair, Renovation and Restoration of Water Bodies
16. Flood Management Programme
17. Command Area Development Programme

5.7 A comparative table showing Budget allocated and expended for last 2 years is explained in Tables A & B. The budget of the Ministry is explained in terms of allocation of funds among various sectors (Table - A) and the manner in which the expenditure of the Ministry is incurred (Table - B).

5.8 Details regarding outstanding utilization certificates are given in Table - C.

TABLE - A
BUDGET AT A GLANCE
(SECTOR-WISE)

(Rupees in crore)

Sl No.	Sector/ Organisation /Scheme	Actuals 2011-12		BE 2012-13		RE 2012-13		BE 2013-14		Total B.E. 2013-14
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
I.	Secretariat- Economic Services									
1.	Ministry of Water Resources	0.00	43.60	0.00	62.42	0.00	63.26	0.00	38.41	38.41
2.	Ravi-Beas Waters Tribunal	0.00	0.38	0.00	0.57	0.00	0.43	0.00	0.48	0.48
3.	Cauvery Water Disputes Tribunal	0.00	1.86	0.00	2.36	0.00	1.72	0.00	2.24	2.24
4.	Krishna Water Disputes Tribunal	0.00	1.67	0.00	1.75	0.00	1.85	0.00	1.95	1.95
5.	Vansadhara Water Dispute Tribunal	0.00	1.68	0.00	4.04	0.00	3.41	0.00	4.22	4.22
6.	Mahadayi Water Disputes Tribunal	0.00	0.77	0.00	4.14	0.00	2.71	0.00	3.59	3.59
	Total :	0.00	49.96	0.00	75.28	0.00	73.38	0.00	50.89	50.89
II.	Major & Medium Irrigation									
	Central Water Commission									
1.	Direction & Administration	0.00	24.69	0.00	25.03	0.00	28.47	0.00	31.41	31.41
2.	Data Collection	0.00	83.40	0.00	91.77	0.00	91.34	0.00	95.02	95.02
3.	Training	0.00	0.39	0.00	0.38	0.00	0.34	0.00	0.42	0.42
4.	Research	0.00	1.87	0.00	2.14	0.00	1.83	0.00	2.01	2.01
5.	Survey & Investigation	0.00	8.06	0.00	5.50	0.00	5.24	0.00	6.04	6.04
6.	Consultancy	0.00	27.44	0.00	25.92	0.00	27.19	0.00	29.63	29.63
7.	Contribution to international bodies									
8.	Seminars and conferences on water resources on water.	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.02	0.02
9.	Exhibition and Trade Fair	0.00	0.07	0.00	0.14	0.00	0.13	0.00	0.16	0.16
10.	Modernization of equipment CWC Offset Press	0.00	0.26	0.00	0.28	0.00	0.37	0.00	0.29	0.29

Sl No.	Sector/ Organisation /Scheme	Actuals 2011-12		BE 2012-13		RE 2012-13		BE 2013-14		Total B.E . 2013-14
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
11.	Cell for monitoring externally aided projects	0.00	1.13	0.00	1.19	0.00	1.14	0.00	1.26	1.26
12.	Water Planning Wing	0.00	1.77	0.00	1.92	0.00	1.76	0.00	1.93	1.93
13.	Hydrological observations in Chenab basin	0.00	2.02	0.00	2.29	0.00	2.22	0.00	2.38	2.38
14.	National Water Academy	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total : CWC	3.62	151.10	0.00	156.58	0.00	160.05	0.00	170.57	170.57
15.	Central Soil and Materials Research Station	0.00	8.28	0.00	8.49	0.00	10.88	0.00	12.01	12.01
16.	Central Water & Power Research Station	0.00	33.11	0.00	36.42	0.00	40.08	0.00	44.10	44.10
17.	National Institute of Hydrology	0.00	10.17	0.00	10.05	0.00	12.00	0.00	9.65	9.65
18.	Sardar Sarovar Construction Advisory Committee	0.00	0.79	0.00	0.80	0.00	0.81	0.00	0.88	0.88
19.	Bansagar Control Board	0.00	0.20	0.00	0.25	0.00	0.19	0.00	0.25	0.25
20.	Sutlej Yamuna Link Canal Project	0.00	0.00	0.00	18.04	0.00	1.63	0.00	5.79	5.79
21.	Upper Yamuna River Board	0.00	0.29	0.00	1.90	0.00	1.90	0.00	1.40	1.40
22.	Research and Development Programme	34.20	0.00	100.00	0.00	35.00	0.00	50.00	0.00	50.00
23.	Development of Water Resources Information System	53.58	0.00	84.99	0.00	40.00	0.00	149.98	0.00	149.98
24.	Hydrology Project	27.65	0.00	70.00	0.00	43.72	0.00	70.00	0.00	70.00
25.	Investigation of Water Resources Development Schemes	52.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26.	Information, Education and Communication	14.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27.	River Basin Organization/ Authority	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28.	Dam Safety Studies and Planning	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Sl No.	Sector/ Organisation /Scheme	Actuals 2011-12		BE 2012-13		RE 2012-13		BE 2013-14		Total B.E . 2013-14
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
29.	Infrastructure Development	2.13	0.00	3.20	0.00	1.50	0.00	2.55	0.00	2.55
30.	Human Resource Development/ Capacity Building	0.00	0.00	85.00	0.00	29.90	0.00	85.00	0.00	85.00
31.	River Basin Management	0.00	0.00	106.00	0.00	53.40	0.00	100.00	0.00	100.00
32.	Implementation of National Water Mission	0.00	0.00	200.00	0.00	0.25	0.00	110.00	0.00	110.00
33.	Irrigation Management Programme	0.00	0.00	100.00	0.00	0.75	0.00	40.00	0.00	40.00
34.	Dam Rehabilitation and Improvement Programme	0.00	0.00	24.00	0.00	2.30	0.00	36.00	0.00	36.00
	Total: Major & Medium Irrigation	189.85	203.94	773.19	232.53	206.82	227.54	643.53	244.65	888.18
III.	Minor Irrigation									
1.	Central Ground Water Board	0.00	103.36	0.00	105.98	0.00	123.18	0.00	134.31	134.31
2.	Rajiv Gandhi NGWTRI	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.	Ground Water Management and Regulation	130.75	0.00	318.00	0.00	180.00	0.00	275.00	0.00	275.00
4.	Development of Water Resources Information System	0.00	0.00	0.01	0.00	0.00	0.00	0.02	0.00	0.02
5.	Infrastructure Development	6.97	0.00	41.80	0.00	6.93	0.00	28.00	0.00	29.00
6.	Human Resource Development/ Capacity Building	0.00	0.00	15.00	0.00	9.00	0.00	9.00	0.00	9.00
	Total : Minor Irrigation	141.37	103.36	374.81	105.98	195.93	123.18	312.02	134.31	447.33
IV.	Flood Control									
1.	Central Water Commission	0.00	66.61	0.00	72.04	0.00	71.24	0.00	74.72	74.72
2.	Payment to Govt. of Bhutan for maintenance of flood forecasting and warning centres	0.00	1.08	0.00	1.05	0.00	1.13	0.00	1.20	1.20

Sl No.	Sector/ Organisation /Scheme	Actuals 2011-12		BE 2012-13		RE 2012-13		BE 2013-14		Total B.E . 2013-14
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
3.	Strengthening and modernization of flood forecasting and hydrological network in Brahmaputra and Barak Basin	0.00	2.55	0.00	2.53	0.00	2.74	0.00	3.04	3.04
	Total : CWC	0.00	70.24	0.00	75.62	0.00	75.11	0.00	78.96	78.96
4.	Emergent Flood Protection Measures in Eastern and Western Sectors	0.00	0.00	0.00	3.00	0.00	3.00	0.00	3.00	3.00
5.	Pagladia Dam Project	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.	Flood Forecasting	33.13	0.00	48.00	0.00	30.00	0.00	150.00	0.00	150.00
7.	River Management Activities and Works related to Border Areas	135.98	0.00	125.00	0.00	30.00	0.00	125.00	0.00	125.00
8.	Infrastructure Development	5.73	0.00	10.00	0.00	6.57	0.00	19.45	0.00	18.45
9.	River Basin Management	0.00	0.00	94.00	0.00	80.68	0.00	100.00	0.00	100.00
	Total : Flood Control	174.84	70.24	277.00	78.62	147.25	78.11	394.45	81.96	475.41
V.	Other Transport Services									
1.	Farakka Barrage Project	69.46	33.71	75.00	41.14	100.00	50.31	150.00	56.17	206.17
2.	Jangipur Barrage	0.00	2.17	0.00	2.37	0.00	2.26	0.00	2.56	2.56
3.	Feeder Canal	0.00	4.17	0.00	5.08	0.00	5.07	0.00	6.01	6.01
	Total : Transport Services	69.46	40.06	75.00	48.59	100.00	57.64	150.00	64.74	214.74
	TOTAL: (I to V) *	575.52	467.57	1500.00	541.00	650.00	559.85	1500.00	576.55	2076.55
VI.	AIBP and other Water Resources Programme **	7459.01	0.00	14242.00	0.00	7342.00	0.00	12962.00	0.00	12962.00
	GRAND TOTAL	8034.53	467.55	15742.00	541.00	7992.00	559.85	14462.00	576.55	15038.55

Source of financing : * Demand No.104 – Ministry of Water Resources for 2013-2014 (excluding AIBP)

** Details shown in Demand No. 36 – Ministry of Finance (Transfers to State and Union Territory Governments)

TABLE - B
BUDGET AT A GLANCE
(TYPE OF EXPENDITURE)

(Rupees in crore)

Sl. No	Sector/Organisation/Scheme	Actuals 2011-12		B.E. 2012-13		R.E. 2012-13		B.E. 2013-14		Total
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	B.E. 2013-14
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
A.	DIRECT EXPENDITURE									
1.	Secretariat-Economic Services	0.00	49.96	0.00	75.28	0.00	73.38	0.00	50.89	50.89
2.	Central Water Commission: -Major & Medium Irrigation -Flood Control	3.62	151.10	0.00	156.58	0.00	160.05	0.00	170.57	170.57
		0.00	70.24	0.00	75.62	0.00	75.11	0.00	78.96	78.96
3.	Central Soil & Materials Research Station	0.00	8.28	0.00	8.49	0.00	10.88	0.00	12.01	12.01
4.	Central Water & Power Research Station	0.00	33.11	0.00	36.42	0.0	40.08	0.00	44.10	44.10
5.	Central Ground Water Board	0.00	103.36	0.00	105.98	0.00	123.18	0.00	134.31	134.31
6.	Rajiv Gandhi & NGWTRI	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7.	Farakka Barrage Project	69.46	40.06	75.00	48.59	100.00	57.64	150.00	64.74	214.74
8.	Boards and Committees	0.00	1.28	0.00	2.95	0.00	2.90	0.00	2.53	2.53
	Total : Direct Expenditure	76.73	457.39	75.00	509.91	100.00	543.22	150.00	558.11	708.11
B.	RELEASES									
(a)	Grants to Autonomous Bodies									
1.	National Institute of Hydrology	0.00	10.17	0.00	10.05	0.00	12.00	0.00	9.65	9.65
2.	Research & Development Programme	34.20	0.00	100.00	0.00	35.00	0.00	50.00	0.00	50.00
3.	-Major and Medium Irrigation Pagladia Dam Project	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sub-Total (a) Grants to Autonomous Bodies	34.20	10.17	100.00	10.05	35.00	12.00	50.00	9.65	59.65
(b)	Assistance to States for Flood Control/anti-erosion works									
1.	Emergent Flood Protection measures in Eastern and Western Sectors	0.00	0.00	0.00	3.00	0.00	3.00	0.00	3.00	3.00
	Sub-Total(b : Assistance to States for flood control/anti-erosion works	0.00	0.00	0.00	3.00	0.00	3.00	0.00	3.00	3.00
(c)	State Irrigation Schemes									
1.	Sutlej Yamuna Link Canal Project	0.00	0.00	0.00	18.04	0.00	1.63	0.00	5.79	5.79
	TOTAL: RELEASES (a) to (c)	34.20	10.17	100.00	31.09	35.00	16.63	50.00	18.44	68.44
	Total (A+B)*	110.93	467.56	175.00	541.00	135.00	559.85	200.00	576.55	776.55
C	OTHER PLAN SCHEMES									
	Major & Medium Irrigations									

Sl. No	Sector/Organisation/Scheme	Actuals 2011-12		B.E. 2012-13		R.E. 2012-13		B.E. 2013-14		Total
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	B.E. 2013-14
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
1.	Development of Water Resources Information System	53.58	0.00	84.99	0.00	40.00	0.00	149.98	0.00	149.98
2.	Hydrology Project	27.65	0.00	70.00	0.00	43.72	0.00	70.00	0.00	70.00
3.	Investigation of Water Resources Development Scheme	52.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.	Information, Education and Communication	14.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.	River Basin Organization/ Authority	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.	Dam Safety Studies and Planning	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7.	Infrastructure Development	2.13	0.00	3.20	0.00	1.50	0.00	2.55	0.00	2.55
8.	Human Resource Development/ Capacity Building	0.00	0.00	85.00	0.00	29.90	0.00	85.00	0.00	85.00
9.	River Basin Management	0.00	0.00	106.00	0.00	53.40	0.00	100.00	0.00	100.00
10.	Implementation of National Water Mission	0.00	0.00	200.00	0.00	0.25	0.00	110.00	0.00	110.00
11.	Irrigation Management Programme	0.00	0.00	100.00	0.00	0.75	0.00	40.00	0.00	40.00
12.	Dam Rehabilitation and Improvement Programme (DRIP)	0.00	0.00	24.00	0.00	2.30	0.00	36.00	0.00	36.00
	Total - MMI	152.03	0.00	673.19	0.00	171.82	0.00	593.53	0.00	593.53
	Minor Irrigation									
1.	Ground Water Management and Regulation	130.74	0.00	318.00	0.00	180.00	0.00	275.00	0.00	275.00
2.	Development of Water Resources Information System	0.00	0.00	0.01	0.00	0.00	0.00	0.02	0.00	0.02
3.	Infrastructure Development	6.97	0.00	41.80	0.00	6.93	0.00	28.00	0.00	28.00
4.	Human Resource Development/ Capacity Building	0.00	0.00	15.00	0.00	9.00	0.00	9.00	0.00	9.00
	Total - MI	137.71	0.00	374.81	0.00	195.93	0.00	312.02	0.00	312.02
	Flood Control									
1.	Flood Forecasting	33.13	0.00	48.00	0.00	30.00	0.00	150.00	0.00	150.00
2.	River Management Activities and Works related to Border Areas	135.98	0.00	125.00	0.00	30.00	0.00	125.00	0.00	125.00
3.	Infrastructure Development	5.73	0.00	10.00	0.00	6.57	0.00	19.45	0.00	19.45
4.	River Basin Management	0.00	0.00	94.00	0.00	80.68	0.00	100.00	0.00	100.00
	Total - FC	174.84	0.00	277.00	0.00	147.25	0.00	394.45	0.00	394.45
	Total -(A+B+C)*	575.51	467.56	1500.00	541.00	650.00	559.85	1500.00	576.55	2076.55
D	AIBP and other Water Resources Programme **	7459.01	0.00	14242.00	0.00	7342.00	0.00	12962.00	0.00	12962.00
	GRANT TOTAL (A+B+C+D)	8034.53	467.56	15742.00	541.00	7992.00	559.85	14462.00	576.55	15038.55

Source of financing: * Demand No.104 – Ministry of Water Resources for 2013-2014 (excluding AIBP).

** Details shown in Demand No. 36 – Ministry of Finance (Transfers to State and Union Territory Governments)

TABLE – C**UTILISATION CERTIFICATES OUTSTANDING IN RESPECT OF GRANTS/
LOANS RELEASED UPTO 31.3.2011****Position as on 01.10.2012****(Rs. in Crore)**

State/UT	No. of UCs outstanding in r/o grants released upto March, 2011	Amount involved (Rs in Crores)	No. of UCs received	Amount involved in respect of UCs received	No. of UCs outstanding as on 01.10.2012	Amount involved on outstanding UCs (Rs. in Crores)
1	2	3	4	5	6	7
Institutions & Autonomous Bodies	196	22.17	9	0.48	187	21.69
State Govt.	11	20.29	5	5.18	7	15.12

***Details of outstanding UCs in r/o grants/loans released to various state govts.**

Name of the SMD	No. of UCs outstanding in r/o grants released upto March, 2011	Amount involved (Rs in Crores)	No. of UCs received	Amount involved in respect of UCs received	No. of UCs outstanding as on 1.10.2012	Amount involved on outstanding UCs (Rs. in Crores)
1	2	3	4	5	6	7
Minor Irrigation	3	0.28	0	0	3	0.28
Command Area Development	8	20.01	5	5.18	4	14.84
Total	11	20.29	5	5.18	7	15.12

CHAPTER - VI

REVIEW OF PERFORMANCE OF STATUTORY/AUTONOMOUS ORGANIZATIONS AND PUBLIC SECTOR UNDERTAKINGS

STATUTORY BODIES:

6.1 BRAHMAPUTRA BOARD:

6.1.1 **Constitution:** Brahmaputra Board was constituted in the year 1980 by an Act of Parliament (Act 46 of 1980 called “The Brahmaputra Board Act”) with the objective of planning and integrated implementation of measures for control of floods and bank erosion and improvement of drainage in Brahmaputra and Barak Valley and related matters i.e. development of Water Resources in the region. It started functioning since January 11, 1982 with headquarters at Guwahati, Assam. The jurisdiction of Brahmaputra Board spreads in Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Tripura and West Bengal (Northern Part).

6.1.2. Brahmaputra Board consists of the Chairman, Vice-Chairman, General Manager as full time Members, Financial Adviser as Ex-officio member and 17 part time Members - representing 7 States of the North Eastern Region (NER), North Eastern Council (NEC), concerned Ministries of Government of India namely Water Resources, Finance, Agriculture, Power, Surface Transport and Organizations of Government of India, namely Central Water Commission (CWC), Central Electricity Authority (CEA), India Meteorological Department (IMD) and Geological Survey of India (GSI). Some Members - Adviser (North East), Planning Commission, Government of India, Chief Engineer (Brahmaputra & Barak Basin Organization), Central Water Commission, Secretary, Waterways Department, Government of West Bengal, Secretary, Irrigation Department, Government of Sikkim and Secretary, Development of North Eastern Region (DoNER), Government of India participate in the meetings of Brahmaputra Board as special invitees.

6.1.3 Major Functions

- (a) Undertaking ‘Survey & Investigations’ in Brahmaputra & Barak Valley and preparation of Master Plans for control of floods, bank erosion and improvement of drainage in the Brahmaputra & Barak Valley and activities connected therewith, including development and utilization of water resources of the Brahmaputra Valley for irrigation, hydropower, navigation and other beneficial purposes,
- (b) Formulation of programme, in consultation with State Government(s), for construction / implementation, in phases, of dams and other projects identified in the Master Plans, approved by Government of India,
- (c) Preparation of Detailed Project Reports and estimates including apportionment of cost among States in respect of the dams and other projects,
- (d) Finalization of standards and specifications for construction, operation and maintenance of such dams and other projects and
- (e) Construction, operation and maintenance of Multipurpose and

other Water Resources Projects, identified in the Master Plans, on approval of Government of India,

6.1.4 Activities of Brahmaputra Board

(a) The Brahmaputra Board took up anti-erosion works at Majuli Island in the year 2003-04. Activities were taken up first under 'Immediate Measures' at an estimated cost of Rs. 5.92 crore and completed in the year 2004-05. These works were followed by protection works under Phase –I (at the revised cost Rs. 56.07 crore). Works envisaged under Phase-I was completed in April, 2011. The total expenditure under Phase –I was Rs. 53.40 crore. Works under Phase-II & III at estimated cost of Rs. 115.99 crore are in execution and physical progress of 51.54% has so far been achieved at an expenditure of Rs. 59.87 crore. In between, prior to initiation of works under Phase-II & III, some urgent protection measures were undertaken as 'Emergent Works' at the cost of Rs. 4.62 crore.

(b) Restoration of original channels of Lohit and Dibang Rivers was entrusted to Brahmaputra Board. Works were planned to be executed in phases. Restoration works started in the year 2003-04. Works under Phase –I, Phase –II and Phase –III were completed. Works under Phase-IV for Rs.54.43 crore are under execution and physical progress of about 50% has been achieved at an expenditure Rs.29.88 crore.

(c) Execution of Harang Drainage Development Scheme (Estimated cost - Rs.30.49 crore) has been completed in March, 2011. East of Barpeta Drainage Development Scheme (Estimated cost – Rs. 2.9562 crore) has been completed in June, 2011 and handed over to State Government of Assam on 04.08.2012. Another 5 (five) Drainage Development Schemes - Barbhag (Estimated cost - Rs. 14.80 crore), Amjur (Estimated cost - Rs.14.15 crore), Jengrai (Estimated cost - Rs. 1.49 crore) and Jakaichuk (Estimated cost- Rs. 2.96 crore) are in progress. The physical achievements attained under these schemes are 46%, 33%, 27% and 45.01% respectively. Preparation of 3 (three) Sub-basin Master Plans - Waikhyrwi, Umtrew and Ganol – has been taken up by Brahmaputra Board during the year 2012-13. About 40% of data collection has so far collected.

(d) The field investigations for preparation of Detailed Project Reports in respect of 5 Multi-Purpose Projects are continued. About 20% of progress in preparation of DPRs of Kulsi and Noa-Dehing has been achieved.

(e) Brahmaputra Board has also been entrusted with 'Appraisal and Monitoring' of schemes under Flood Management Programme of Ministry of Water Resources, Government of India. Based upon recommendations of Brahmaputra Board, financial assistance in respect of these schemes were provided to States and also a substantial number of schemes has been appraised and cleared by Brahmaputra Board.

6.2. Ravi and Beas Waters Tribunal

6.2.1 The Ravi and Beas Waters Tribunal, which was constituted in April, 1986 as per the Punjab Memorandum of Settlement, submitted its report in January, 1987. This report was forwarded in May, 1987 to the concerned State Governments. In August 1987 further reference was made to the Tribunal comprising reference by the Central Government and references received from the Governments of Punjab, Haryana and

Rajasthan seeking explanation/guidance on certain points of the report. The Tribunal could not function during 09.03.89 to 17.11.96 and 04.01.99 to 09.06.2003 as post of a Member remained vacant during these periods. After filling up of the post on 10.06.03, the Tribunal has been holding hearings which however, have to be adjourned pending the outcome of a Presidential Reference on Punjab Termination of Agreements Act, 2004 before the Hon'ble Supreme Court. With the demise of the Chairman and the tendering of resignation by a Member, the Tribunal's functioning has again been affected.

6.3 Cauvery Water Disputes Tribunal

6.3.1 The Cauvery Water Disputes Tribunal (CWDT) was constituted by the Govt. of India on 02nd June, 1990 consisting of the Hon'ble Chairman and two Members to adjudicate the Water Disputes regarding the Inter-State River Cauvery and the river valley thereof. The Tribunal has submitted its report and decision on 05.02.2007 under section 5(2) of Interstate River Water Disputes Act, 1956. The concerned states and the Central Govt. have sought clarification and guidance under section 5(3) of the Act.

- To consider the Petitions filed under section 5(3) of the Inter State River Water Disputes Act, 1956 on behalf of the Party States and the Union Territory of Pondicherry and the Central Government, a Court sitting was held on 10.07.2007. The Hon'ble Tribunal after observing the party State have filed Special Leave Petition against the Tribunal's decision dated 05th February 2007 before the Hon'ble Supreme Court the Hon'ble Supreme Court has granted Special Leave and the same is pending before the Hon'ble Supreme Court ordered that further action by the Tribunal will be taken only after decision of the Supreme Court on the Special Leave petitions becomes available.
- The Tribunal accordingly took up the petitions of the Party States for consideration on 10th July, 2007. In this order the Tribunal inter-alia observed as under: -

“it appears that State of Karnataka, State of Tamil Nadu and the State of Kerala filed Special Leave Petition against the aforesaid decision of this Tribunal dated 05th February, 2007 before the Hon'ble Supreme Court. The Supreme Court has granted Special Leave. The appeals are pending. According to us, in this background, these applications under Section 5(3) of the said Act should be listed for orders after disposal of the appeals by the Hon'ble Supreme Court”.

Civil Appeals No.2453 of 2007 of the State of Karnataka versus State of Tamil Nadu and other alongwith Civil Appeal No.2454 of 2007 and Civil Appeal No.2456 of 2007 of the State of Kerala and State of Tamil Nadu respectively, came up for preliminary hearing before the Hon'ble Supreme Court of India on 18th October, 2011 the Hon'ble Court mentioned that the Learned Sr. Counsel appearing for the parties submit that oral arguments in these appeals are likely to take more than six regular hearing days. In view of the submission, subject to orders of the Hon'ble Order of the Chief Justice of India let the appeals be listed for final disposal before the appropriate bench in the month of February,

2012. Thereafter, the matter was not taken up by the Hon' ble Supreme Court so far.

Thus, the time provided under section 5(3) proviso has been extended upto 02.11.2013 by which it is hoped that the Hon'ble Supreme Court would dispose of the appeals pending before it and thereafter, the petitions filed before this Tribunal shall be listed for orders and finally to be disposed of accordingly.

6.4 Krishna Water Disputes Tribunal

6.4.1 The Krishna Water Disputes Tribunal (KWDT) was constituted on 2nd April, 2004 for adjudication of the dispute relating to sharing of waters of Inter-State river Krishna and river valleys thereof. In the Writ Petition No. 408, Hon'ble Supreme Court has ordered that the effective date of of constitution of the Tribunal will be 01.02.2006. Consequently, the term of the Tribunal was extended upto 31.12.2010 as per provisions of ISRWD Act, 1956. The report and the decision by the Tribunal under Section 5(2) of the Act were forwarded to the Ministry of Water Resources on 30th December, 2010.

6.4.2 The proceedings in the References are going on. After exchange of written replies and rejoinders, the arguments on behalf of the Party States have already been advanced. The State of Karnataka had been advancing its submissions in reply to be followed by the States of Maharashtra and Andhra Pradesh and thereafter the Central Government was to make its submissions. But due to illness of Hon'ble Mr. Justice S.P. Srivastava and his untimely demise on 9th August, 2012 , the hearings fixed in the months of July and August, 2012 could not take place Hon'ble Mr. Justice B.P. Das has assumed the charge of the Office of Member on 21.01.2013. The process of submission by the Party States and submission in reply by Central Government will take some time. Hon'ble .

6.5 Vansadhara Water Disputes Tribunal

6.5.1 The Vansadhara Water Disputes Tribunal (VWDT) was constituted by the Government of India on 24th February, 2010 to adjudicate the water disputes regarding Inter State River Vansadhara and the River valley thereof pursuant to the direction given by the Hon'ble Supreme Court in Writ Petition (Civil) No. 443/2006. The then Hon'ble Chairman and Members took over the charge on the same date. Thereafter, the Central Government nominated another Chairman on 30-03-2011. The new Chairman took over the charge on 17-09-2011 after his superannuation from the Supreme Court of India.

6.5.2. The former Chairman of the Tribunal had held two preliminary sittings on 9th September, 2010 and 23rd November, 2010 in the office of the Central Water Commission, Seva Bhawan, Sector-1, R.K. Puram, New Delhi. In the mean time one of the Member Hon'ble Mr. Justice Nirmal Singh resigned from the post and the Central Government appointed Hon'ble Mr. Justice Ghulam Mohammed, former Judge, Andhra Pradesh, High Court as Member of the Tribunal on 08-05-2012 in place of the Member. Pursuant to the directions of Hon'ble Supreme Court on 20-09-2011, the Tribunal hired private residential accommodation for Hon'ble Chairman after obtaining approval from the Ministry of Water Resources. No Government residential accommodation

have been provided to the Hon'ble Chairman and the Members of the Tribunal so far though requested for. Thereafter, the Tribunal held its two sittings in new premises on 3rd October, 2012 and 4th December, 2012. The counsel for both the States have been directed to file the reply and the rejoinder if any in respect of the statement of cases filed by them. The next date of hearing of the matter is fixed on 22nd and 23rd January, 2013.

6.6. Mahadayi Water Disputes Tribunal was constituted by the Government of India on 16th November, 2010 to adjudicate the water disputes regarding inter-state river Mahadayi and river valley thereof.

AUTONOMOUS BODIES (SOCIETIES)

6.7 National Water Development Agency

6.7.1 The Ministry of Water Resources (MOWR) and Central Water Commission (CWC) formulated a National Perspective Plan (NPP) for Water Resources Development in 1980 envisaging inter basin transfer of water from surplus basins to deficit basins / areas which comprises of two components, namely Himalayan Rivers Development Component and Peninsular Rivers Development Component. The National Water Development Agency (NWDA), a Registered Society under the Ministry of Irrigation (now Ministry of Water Resources) was set up in the year 1982 to carry out detailed studies, surveys and investigations in respect of Peninsular Component of National Perspective for Water Resources Development. The Functions of NWDA were published under Para 4 of the Gazette Notification No. 1(7)/80-PP dated 26.08.1981. The Government subsequently modified the functions of NWDA to include the Himalayan Component of National Perspective for Water Resources Development through the Resolution No. 22/27/92-BM dated 11th March, 1994, composition of Society and Governing Body contained in Para 3 & 5 of the Resolution No. 1(7)/80-PP dated 26.08.1981 through the Resolution Nos. 2/9/2002-BM dated 13th February 2003 & 12th March 2004 and modified the functions of NWDA to include the activity to prepare the DPR of river link proposals under National Perspective Plan (NPP) for Water Resources Development after concurrence of the concerned State vide Notification No. 2/18/2005-BM dated 30.11.2006.

6.7.2. It has been decided that NWDA may take up the work of preparation of DPRs of intra-State links also and the Notification of enhanced mandate has been done vide "The Gazette of India, June 11, 2011".

To enable National Water Development Agency to undertake above activities, its functions are modified as under:-

- a. To carry out detailed surveys and investigations of possible reservoir sites and inter-connecting links in order to establish feasibility of the proposal of Peninsular Rivers Development and Himalayan Rivers Development Components forming part of the National Perspective for Water Resources Development prepared by the then Ministry of Irrigation (now Ministry of Water Resources) and Central Water Commission.

- b. To carry out detailed studies about the quantum of water in various Peninsular River Systems and Himalayan River Systems which can be transferred to other basins/States after meeting the reasonable needs of the basins/States in the foreseeable future.
- c. To prepare feasibility report of the various components of the scheme relating to Peninsular Rivers Development and Himalayan Rivers Development.
- d. To prepare detailed project report of river link proposals under National Perspective Plan for Water Resources Development after concurrence of the concerned States.
- e. To prepare pre-feasibility/feasibility/detailed project reports of the intra-State links as may be proposed by the States. The concurrence of the concerned co-basin States for such proposals may be obtained before taking up their FRs/DPRs.
- f. To do all such other things the Society may consider necessary, incidental, supplementary or conducive to the attainment of above objectives.

6.7.3 The Hon'ble Union Minister of Water Resources is the President of the National Water Development Agency Society, which is the apex body of NWDA. The Annual General Meeting of the Society is held once a year to review the programme and progress of the Agency. The Governing Body of the NWDA headed by Secretary (Water Resources) reviews the programme and progress of works in every six months. The Technical Advisory Committee (TAC) of the Agency under the Chairmanship of the Chairman, Central Water Commission examines various technical proposals framed by the Agency. All the concerned states are represented in these committees.

6.7.4 Based on various studies conducted, NWDA has identified 30 links (16 under Peninsular Component & 14 under Himalayan Component) for the preparation of Feasibility Reports (FRs). Out of these, FRs of 14 links under Peninsular Component and 2 links (Indian Portion) under Himalayan Component have already been completed. Further S&I (Indian Portion) in respect of another 7 links under Himalayan Component have been completed. Pre-Feasibility Reports (PFRs) of 21 intra-State links proposed by states have also been completed up to March 2012.

6.7.5 An expenditure of ` 33.79 Crores has been incurred by NWDA on ILR programme during 2012-13 (upto December 2012). Various studies were continued by NWDA during the year. Further, Detailed Project Report (DPR) of Ken-Betwa link has been completed and as decided during Secretary level meeting with Principal Secretaries of UP & MP on 03.02.2010, DPR will be prepared in two phases. DPR of phase-I completed and sent to concerned States in May, 2010. DPR of phase-II has been taken up and that of two more links viz. Par-Tapi-Narmada and Damanganga-Pinjal were initiated during 2008-09 and work remained under progress during 2010-11 & 2011-12. The work of preparation of DPR of 2 Intra-State link of Bihar remained in progress during 2012-13 and the same is continue. The work of 2 more DPRs, one of Maharashtra and one of Tamil Nadu also taken up.

6.7.6 During the year 2013-14, an outlay of ` 63.20 Crores has been proposed for NWDA. NWDA would continue to do Survey & Investigation required for ILR

programme and preparation of DPR of two links. Further, it is planned to complete Survey & Investigation works of 4 links in Himalayan Component (Indian Portion). Also, PFRs of 6 Intra-State links proposed by various States will be completed and DPRs of 2 intra-State links will remain under progress. The work of preparation of 2 new intra-State links will also be taken up. The work of post DPR of Ken-Betwa, Par-Tapi-Narmada and Damanganga-Pinjal link will to be done during 2013-14.

6.8 National Institute of Hydrology (NIH):

6.8.1 The National Institute of Hydrology, a Govt. of India Society under the Ministry of Water Resources, established in December 1978 at Roorkee, is conducting basic, applied and strategic research in the fields of hydrology and water resources development.

6.8.2 Objectives

- To undertake, aid, promote and coordinate systematic and scientific work on all aspects of hydrology,
- To cooperate and collaborate with other national and international organizations in the field of hydrology,
- To establish and maintain a research and reference library in pursuance of the objectives of the society and equip the same with books, reviews, magazines and other relevant publications,
- To carry out activities that the Society may consider necessary, incidental or conducive to the attainment of the objectives for which the Institute has been established.

6.8.3 Organization

The Union Minister of Water Resources is the President of the NIH Society and the Union Minister of State of Water Resources is its Vice- President. The Ministers-in-Charge of Irrigation/Water Resources in the states, the Secretaries of Ministries in the Government of India, and eminent experts in hydrology and water resources are members of the Society. The Secretary (WR) is the Chairman of the Governing Body. The Institute's research and other technical activities are monitored and guided by the Technical Advisory Committee (TAC). Director of the Institute is the Principal Executive Officer of the Society.

The Institute act as a center of excellence for transfer of technology, human resources development and institutional development in specialized areas of hydrology, and conducts user defined, demand-driven research through collaboration with relevant national and international organizations. NIH works as a nodal centre of the Ministry for effective implementation of the National Water Mission.

6.8.4 Studies and Research

The studies and research in the Institute are carried out under five scientific themes at the Headquarters, two Centers for Flood Management Studies and four regional centers. The Institute has a Research Coordination and Management Unit, which provides interface with various research and academic institutions. The Institute has state-of-art laboratory facilities in the area of Nuclear Applications in Hydrology, Water Quality, Soil Water, Remote Sensing & GIS Applications, Hydrological Instrumentation, and Ground Water Modelling.

6.8.5 Technical Publication and Technology Transfer

The research output of the Institute is published in the form of reports, scientific papers, guidelines, manuals, etc. For transfer of the developed technology and techniques to the target users, the Institute organizes workshops, training courses, seminars, symposia, conferences, and brain storming sessions.

Performance during 2011-12 and targets for the year 2012-13 are shown below:

S. N.	Description of Item	Physical target for 2011-12	Achievement during 2011-12 (upto Dec 2011)	Target for 2012-13
1	Completion of physical/mathematical model/desk studies/Lab. Studies	55	50	55
2	Preparation of technical reports/ studies completed	50	48	24
3	Publication of research papers	160	130	160
4	Preparation of guidelines /manuals	2	1	0
5	Organization of workshops /seminars/ symposia	15	13	14
6	Training of Personnel	25	21	27
7	Technology transfer activity	10	9	10

PUBLIC SECTOR UNDERTAKINGS:

6.9. Water and Power Consultancy Services (India) Limited (WAPCOS):

INTRODUCTION

6.9.1 WAPCOS Limited is a “MINI RATNA-I” Public Sector Enterprise under the aegis of the Union Ministry of Water Resources. Incorporated on June 26th, 1969 under the Companies Act, 1956; WAPCOS has been providing consultancy services in all facets of Water Resources, Power and Infrastructure Sectors in India and Abroad. The quality management systems of WAPCOS comply with the Quality Assurance requirements of ISO 9001:2008 for Consultancy Services in Water Resources, Power and Infrastructure Development Projects.

6.9.2. MISSION

Sustained Profitable Growth, Excellence in Performance use of State-of-the-art Technical Expertise, Innovativeness, Capacity Building and Meeting Society's Needs.

Objectives

- To perform the role of a premier agency for offering integrated package of services of the highest scientific, technological and managerial quality with a view to ensure optimal planning and development of water resources and maximizing the efficiency of its utilization.
- To adopt modern technology and systems to build in quality, reliability and accuracy thereby ensuring a high degree of customer satisfaction.
- To continue the pace of growth of domestic and overseas business and to transfer know-how to other developing nations.
- To specialize and sustain international standards in surveys, investigations, designs, cost estimates, project planning including environmental studies and project management services for cost-effective and integrated development of Water resources, Power and Infrastructure Development.
- To promote research and development actively through interaction with other national and international agencies.
- To maintain pre-eminence in the field of consultancy through diversification into areas of new challenges and needs in associated fields.
- To secure a fair monetary return to the enterprise as a result of its operations through improved productivity and optimization.
- To play a dynamic role in realizing the potentials by state-of-the-art consultancy in innovative design alternatives.
- To specialize and attain the highest level of International Standards in providing Consultancy Services.
- To attract the best available talent and promote a committed and motivated workforce.
- Increase in business growth and effective business management.
- To gain total client satisfaction
- To promote WAPCOS as a Brand Name.

FIELDS OF SPECIALISATION

6.9.3. Main fields of specialization of the company cover Irrigation and Drainage, Flood Control and Land Reclamation, River Management, Dams, Reservoir Engineering and Barrages, Integrated Agriculture Development, Watershed Management, Hydropower and Thermal Power Generation, Power Transmission and Distribution, Rural Electrification, Ground Water Exploration, Minor Irrigation, Water Supply and Sanitation (Rural and Urban), Environmental Engineering including Environmental Impact Assessment and Environmental Audit, Ports and Harbours and Inland Waterways, Rain Water Harvesting; Survey & Investigations, Human Resource Management, System Studies and Information Technology. WAPCOS has also been venturing into newer fields such as Software Development, City Development Plans, Financial Management System, Technical Education, Quality Control and Construction Supervision, Roads & Bridges.

RANGE OF CONSULTANCY SERVICES

6.9.4. WAPCOS' spectrum of services covers a wide range of activities e.g. pre-feasibility studies, feasibility studies, simulation studies, diagnostic studies, socio-economic studies, master plans and regional development plans, field investigations, detailed engineering including designs, detailed specifications, tendering process, contract and construction management, commissioning and testing, operation & maintenance, quality assurance & management, software development and human resource development.

REGISTRATION WITH INTERNATIONAL ORGANISATIONS AND OPERATIONS ABROAD

6.9.5. WAPCOS is registered with various international funding agencies for participating in the funded projects like World Bank/International Bank for Reconstruction and Development, African Development Bank, Asian Development Bank, Food and Agriculture Organization, International Fund for Agricultural Development, United Nations Development Program, World Health Organization, West African Development Bank, Indian Technical and Economic Cooperation (ITEC) Programme, Overseas Economic Cooperation Fund, Japan Bank for International Cooperation (JBIC), United Nations Office for Project Services (UNOPS).

Apart from India, WAPCOS has successfully completed/on-going consultancy assignments abroad in 50 countries and is currently engaged in providing consultancy services in Afghanistan, Bangladesh, Bhutan, Cambodia, Central African Republic, Chad, DR Congo, Ethiopia, Kenya, Laos, Mali, Mozambique, Myanmar, Nepal, Nigeria, Rwanda, Senegal, Sierra Leone, Tanzania, Uganda, Yemen and Zimbabwe.

DIVIDEND

6.9.6. In view of the excellent performance of the company for the year 2011-12, a dividend of Rs 1050 lakh, which is highest-ever in the history of the company and is 350% of the paid-up capital of Rs.300 lakh, was paid in September, 2012.

BONUS SHARES

6.9.7. The Company issued Bonus Shares worth Rs. Five Crore to members of the Company in August, 2012 in the proportion of Five Bonus shares for every three equity shares held.

6.10. National Projects Construction Corporation Limited:

6.10.1. National Projects Construction Corporation Limited (NPCC Ltd.) was incorporated in 1957 under Companies Act, 1956, as a Construction Company for taking up the construction of mainly River Valley Projects, dams, barrages, weirs, reservoirs, embankments, canals, irrigation and related infrastructural works. Presently, the Corporate Office of the Company is at Faridabad and its Registered Office at New Delhi. Presently, it has 14 Zonal Offices situated at Kolkata, Bhubaneswar, Guwahati, Silchar,

Shilong, Raipur and Dehradun. At present, it has 95 operational Units. Presently, the total manpower of the Company is 1740.

6.10.2 The Company performed well during the first ten years of its inception and paid dividend on paid up Capital continuously till 1966-67 (barring the year 1962-63). However, from 1985-86 till 2008-09 (except for the year 2005-06) the financial position of the Company had deteriorated sharply.

6.10.3 In December, 2008, the Government approved a revival package for conversion of the Govt. of India principal amount of Rs. 219.43 crore and cumulative interest due and accrued on it as on the date of conversion to equity capital and further written down to 10% of value. The decision of the Government has been implemented. The authorized share capital of the Company is Rs. 700 crore and its paid up capital is Rs. 94.53 crore. Out of this, 14 State Governments and Union Territories are shareholders for an amount of Rs. 1.05 crore and remaining share capital rest with the Central Government.

6.10.4. The projects taken up by the Company included (i) BB Fencing & Lighting Works, road Works at Tripura, Mizoram, Assam & Meghalaya (ii) Assam Riffle Works in different States of North Eastern Region. (iii) Indo-Tibetan Border Roads in Laddakh (J&K State) and (iv) PMGSY Works in different districts of Bihar, Jharkhand & UP. The existing business operational pattern is likely to be maintained during the year 2013-14 with innovative diversification.

6.10.5. After the implementation of the revival package, the Company has starting earning profit from 2009-10 onwards. The Company earned net profit after tax of Rs. 30.97 crore for the year 2009-10, Rs. 32.09 crore for the year 2010-11 and Rs. 42.18 crore for the year 2011-12.

Ministry of Water Resources

PERFORMANCE OF 2011-12

(Rs. in crore)

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2011-12	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.03.2012	Remarks
1	2	3	4	5	6	7	8
1	Development of Water Resources Information System	(a) Creation of Watershed Atlas and development of web enabled Water Resource Information System of the country at 1:50000 scale. (b) To provide support to Water Quality Assessment Authority and implement identified studies / programme for water quality assessment (c) To develop snow melt run off model for Yamuna & Chenab basin of assessment of snow melt contribution in the river below for efficient water management and optimum utilization particularly during lean season. (d) Collection and publication of Water Quality data , (e) To collect data from network of hydrological observation stations for overall assessment of water resources and analysis of their characteristics (f) Monitoring of selected ongoing Major, Medium & ERM irrigation projects throughout the country including AIBP and CAD projects. (g) Fourth Minor Irrigation	59.00	(a) The Water Resources Information System (WRIS) website will be expanded/updated further with 30 GIS layers. (b) Observation of data for 878 hydrological observation sites and collection of other water related data to continue. (c) Long term data collection at snow observatories, G&D sites and development of snow melt runoff models. (d) Number of visits to projects for monitoring purposes. (e) Collection of field data for fourth Minor Irrigation Census 4th and processing of the same will be completed.	Activities to continue throughout the year.	1) Observation of Data at 933 sites to continue 2) Hydrological network were equipped with modern equipment 3) Collection, compilation, storage, dissemination, analysis and publication of data in the published form of reports / books was achieved	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2011-12	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.03.2012	Remarks
1	2	3	4	5	6	7	8
		Census					
2	Research & Development programme in Water Sector	The scheme comprises of various activities related to R&D and training in the water resources. sector These activities are being implemented by the premier research Institutes in the field of hydrology, hydraulics, soil and material sciences, i.e. NIH, CW&PRS and CSMRS and CWC. The outcomes of the programme will be improvement in efficiency of irrigation system, reduction in risk/hazard in water resources project, economic design for project and development of new / improved technology	46.19	The implementation of the scheme will help in capacity building and creation of additional facilities. The research output are generally in terms of technical report & research papers having recommendations for improved techniques for planning & design. Quantifiable deliverables are: (a) Research Reports = 231 (b) Research Papers = 279 (c) Training workshops = 30	Works to be implemented by various organizations of the Ministry.	Research / Technical reports - 255 Research papers - 266 Training and workshop - 53	
3	National Water Academy	Training for in service Engineers / Induction Engineers in Water Resources Planning, Development and Management	3.00	a) 37 Training Programmes. b) Construction of Swimming Pool		a) 28 Training Programmes completed by December, 2011 b) 65% work completed by December, 2011	
4	Dam Safety Studies and Planning	(a) Studies on various aspects of dam safety (b) Preparation and digitisation of generalized PMP atlases for Indus and Krishna Basins and Ganga & Brahmaputra basins and	3.00	(a) Procurement of Models/Fixtures for instrumentation Demonstration Centre (b) Preparation and digitization of Generalized PMP Atlases. Consultants for Ganga Basin Brahmaputra Basin and Updation of PMP		Instruments amounting to Rs.5,33209/- were procured by CSMRS during 2011-12 for setting up instrumentation Demonstration Centre in CWC HQs. b. Draft interim report of new PMP Atlas for Ganga River basin and up-dation of existing Atlas or Godavari & other East flowing Rivers	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2011-12	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.03.2012	Remarks
1	2	3	4	5	6	7	8
		upgradation of Atlases prepared under DSARP (c) Setting up of Instrumentation Demonstration Centre (d) Training and Development of special propose packages on Dam Safety.		Atlases		has been submitted by and is accepted. An amount of Rs.2.13893 lakh was released to the consultant in March 2012. c. Environmental & Social Assessment (ESA) Studies has been completed. Empowered Committee on Mulla Periyar Dam has submitted the reports to Hon'ble Supreme Court. d. Three Training have been completed.	
5.	Hydrology Project	To extend and promote the sustained and effective use of the Hydrological Information System by all implementing agencies concerned with water resources planning and management in 13 States and 8 Central agencies	80.00	Implementation of the project components, i.e. institutional strengthening, vertical extension with Hydrological Design Aids (HDA), DSS-Planning (DSS-P), DSS-Real Time (DSS-RT) and 41 Purpose Driven Studies and horizontal expansion including PDS in new States, with support of 4 major consultancies in place in Hydrology Project.	The planned activities are to be implemented through the Central Agencies, viz. PCS (MoWR), BBMB, CWC, CGWB, CWPRS, CPCB, IMD and NIH till June, 2012.	(a) Data observation and validation is being carried out on a regular basis. (b) Under Decision Support System-Planning consultancy, customization of generic model carried out in 6 states out of 9 HP-I states. (c) DSS- Real Time was being implemented by BBMB. (d) Inception Report for development of Hydrological Design Aids were finalized and development of modules of HDA model was in progress. (e) 10 Purpose Driven Studies were under different stages of implementation. (f) Progress in preparation of documents for various procurements under Aquifer Mapping.	
6.	Investigation of Water Resources Development Schemes	Carrying of investigation in respect of identified projects for water resources development	54.00	Investigation and preparation of project report for identified project to continue.	The works of investigation/preparation of project report are covered in more than one year and are carried over to following years	1) Survey and Investigation of Ujh, Kalez Khola, Suntaley, Manas-Teesta link canal, Nurang chu HEP, Sonai and Rukni Irrigation Projects continued 2) Hydrological and seismological observations. Observations continued at 4 stations in Bhutan	
7.	Pagladiya Dam Project	Flood Control, Irrigation & Ancillary Power Generation	0.01	Zirat survey to be completed.	Activities to be implemented by Brahmaputra Board	Nil	Due to non completion of the Zirat survey by the Govt. of Assam the work held up. Only

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2011-12	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.03.2012	Remarks
1	2	3	4	5	6	7	8
							normal R&M works continued. Efforts are on to remove the stalemate condition of the project.
8.	River Basin Organisation/ Authority	The scheme is to encourage formulation of River Basin Organisation with the primary objective of providing a forum to all the co-basin states for taking up necessary studies and evaluation etc., with a view to identify the most appropriate alternative for optimum utilisation of resources and meeting the aspirations of all state-holders.	4.00	The creation of RBO has to be preceded by consultations with State Governments. Process of consultations was to be initiated during this year. A token provision has been kept in this regard.		Ministry has sent proposal to the concerned states for constitution of the RBO for Mahanandi & Godavari rivers. The concurrence of the all concerned state Government has not been received. The matters is being pursued with the concerned states.	
9.	Infrastructure Development Scheme	1. To procure land and construct office & residential buildings for the Ministry of Water Resources and its attached/ subordinate organizations and 2. Provision of necessary infrastructure for implementation of IT Plan in MoWR, CWC and CGWB.	28.40	(i) Acquisition of Land (ii) Construction of office/residential buildings (iii) Procurement, upgradation and maintenance of latest I.T. hardware and software besides networking of database in field offices with Headquarters to facilitate e-governance and training of personnel in I.T. facilities.	As acquisition of Land & Buildings is a time consuming process involving various agencies, some of the targeted works have spilled over to next year.	Land for residential buildings at Bhubaneswar and office building at Balasore have been acquired. Office buildings at Jammu, Hyderabad, Asansol have been constructed and works of residential buildings at Guwahati, Burla and modernization of CWC - HQ, Sewa Bhavan are under progress. The construction work of Divisional Workshop & Store at Guwahati, construction of Boundary Wall on the land of CGWB for Divisional Workshop & Store at Bangalore and construction of Boundary Wall at Jammu have been completed. After completion of construction, these offices shifted from hired accommodation. Thus saving huge expenditure of rent. 50% work of construction work of Divisional Workshop and Store building at Bhopal is completed. 54% construction of Boundary Wall on the land at Daldal Seoni, Raipur completed. However, due to dispute, the	There is a risk of spill over due to the fact that acquisition of land and construction of buildings is a time consuming process involving various Central & State Govt. authorities

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2011-12	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.03.2012	Remarks
1	2	3	4	5	6	7	8
						<p>remaining work could not be completed. Physical possession of land has been taken over from Jodhpur Development Authority.</p> <p>Procurement of 19 Personal Computers, 27 printers, 11 Scanners, 42 UPS, 2 UPS offline, 5 Digital multifunctional and 3 laptop. Running charges of multifunctional machines/ copiers, repair and maintenance of various machine computers, printers, scanner, laptops etc. and purchase of computers consumables i.e. cartridges, toners, photocopy paper reams etc.</p>	
10.	Flood Forecasting.	To maintain the network of Hydrological observations sites across the country by CWC covering 20 river basins to provide timely flood forecasts at 175 stations to the local administration.	36.00	Collection of real time data, its analysis and issue of flood forecasts. Around 6000 forecasts are issued every year.	Implemented by Central Water Commission throughout the year.	A total of 5662 forecasts were issued.	
11.	Farakka Barrage Project.	<p>(i) Maintenance of Farakka Barrage Project and its appurtenant structure including feeder canal, Jangipur Barrage etc.</p> <p>(ii) Anti-erosion works for protection of banks along river Ganga and its tributaries to train the river along main barrage.</p>	70.40	<p>(i) Maintenance of Farakka Barrage Project & its appurtenant structure including feeder canal, Jangipur Barrage etc.</p> <p>(ii) Erosion control in the extended jurisdiction of FBP from 40 km u/s to 80 km d/s of Farakka Barrage to save land, crops, orchards, public buildings etc. along river Ganga-Padma.</p>	Implemented by Farakka Barrage Project. Activities continued throughout the year.	<p>i) Maintenance of Farakka Barrage, its appurtenant structures & anti-erosion works along river Ganga – Padma & its tributaries were continued, as per requirement.</p> <p>(ii) Anti-erosion works in a length of 2300 m, amounting to Rs. 35 crore were completed</p>	
12.	River Management Activities and Work Related to Border Areas	Hydrological observations and investigations of Water Resources Projects with neighboring countries besides river	188.00	<p>(i) Continuation of Joint Hydrological observations on river Ganga with Bangladesh, and</p> <p>(ii) Preparation of Joint</p>	Implemented by Central Water Commission, Ganga Flood Control Commission, Brahmaputra Board and State Governments of Bihar, Uttar Pradesh, Tripura, West Bengal	<p>i) Joint Hydrological observations on river Ganga with Bangladesh continued as per Treaty of 1996.</p> <p>(ii) Survey & Investigation of Pancheswar</p>	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2011-12	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.03.2012	Remarks
1	2	3	4	5	6	7	8
		management works on common/border rivers. Flood control, Anti-erosion & Drainage development works by Brahmaputra Board. Maintenance of flood protection works of Kosi and Gandak Projects (in Nepal).		Detailed Project Reports (DPR). (iii) Breach closure of left afflux bund of Kosi barrage in Nepal. (iv) Anti-erosion & Flood protection works of Majuli Island. (v) Transmission of flood related data from / to neighboring countries, (vi) Development works on common/border rivers	& Jammu & Kashmir.	and Sapta Kosi projects* (in Nepal) continued. (iii) Breach closure works on Kosi completed. (iv) Anti-erosion & Flood protection works of Majuli Island continued. (v) Flood related data transmitted to Bangladesh. (vi) River management works in Tripura and West Bengal on common border with Bangladesh continued.	
13.	Flood Management Programme.	To provide financial assistance to various state governments for river management, flood control, anti-erosion, drainage development, flood proofing works in the critical areas in the country.	1199.00	(i) River Management works in the critical areas by raising, strengthening and extension of embankments. (ii) Anti-erosion works, drainage improvement works, etc. as suggested by Task-Force-2004 on Flood Management and Erosion Control in respect of Ganga and Brahmaputra Basin states. (iii) Coastal erosion works in maritime states. (iv) De-silting/ dredging of river sections in the selected reaches.	Central assistance provided to the State Governments on submission of detailed project proposals. An Empowered Committee under the chairmanship of Secretary (Expenditure), Ministry of Finance constituted on 26.02.2008 for examining and approving of the proposals.	(i) A total of 61 proposals amounting to Rs. 906.72 crore submitted by 14 states were included for providing central assistance. Further, 12 new proposals amounting to Rs. 133.99 from 5 states has been considered during 8 th meeting of Empowered Committee held on 15.12.2011. (iii) A total of 231 schemes were completed by the State Governments up to 30 th November,2011	

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1	2	3	4	5	6	7	8
14.	Ground Water Management & Regulation	<p>1). Ground Water Management Studies to prepare ground water management plan</p> <p>ii) Ground Water exploration utilizing scientific tools viz. Remote sensing and GIS, Geophysical surveys aided by drilling to locate ground water worthy areas.</p> <p>iii) Monitoring of ground water levels from Ground water monitoring stations.</p> <p>iv). Short term water supply investigations for source finding to Central/State Govt. department</p> <p>v). Geophysical studies to selection of sites for ground water exploration and artificial recharge structures and deciphering aquifers</p> <p>vi) Chemical studies to assess ground water quality</p> <p>vii) Preparation of Reports, Maps for use by planners and administrators</p>	120.00	<ul style="list-style-type: none"> • Ground Water Management studies-1.50 Lakh Sq.Km. • Ground Water Exploration - 800 Wells • Ground Water Exploration through Outsourcing - 796 • Monitoring of Ground Water Observation wells - 15640 • Short term water supply investigations – As per request • Geophysical Survey <ul style="list-style-type: none"> a) Surface VES=2000 & Profiling Line Km. = Need Based b) Sub-Surface Bore hol logging = Need Based • Analysis of water samples – 20000 • Preparation of District reports – 40 • Ground Water Year Books = 23 	<p>One year</p> <p>One Year</p> <p>4 times in a year</p> <p>One year</p> <p>One year</p> <p>One year</p>	<p>1.70 Lakh Sq. Km. (Pre-monsoon)</p> <p>1.69 Lakh Sq.km. covered in post-monsoon</p> <p>Analyzed water samples- 20200</p> <p>169</p> <p>15640 Measurement of April, August, November, 2011 & January, 2012 completed.</p> <p>29 district reports completed & rests are in progress</p> <p>23 GWY Books submitted & issued</p>	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2011-12	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.03.2012	Remarks
1	2	3	4	5	6	7	8
		viii) Regulation of Ground Water development by Central Ground Water Authority ix) Artificial recharge studies including construction of Artificial Recharge structures for replicating the same by State Govt. and other agencies.		<ul style="list-style-type: none"> • State Reports – 11 • State Atlas - 3 • Ground Water Exploration Reports – 17 • State Geophysical Report- 14 • State Chemical Report -18 Regulation of ground water development in notified areas by CGWA Demonstrative project for Artificial Recharge studies in identified thrust areas covering O.E. /Critical / Urban area.	One year One year Two years Two years One year One year Continuing 2-3 years	6 State reports completed Continuing- Regulation of ground water development in 82 notified areas by CGWA 629 structures have been completed and remaining are under progress . On completion of civil works of recharge facility, impact assessment studies will be taken up to demonstrate the efficacy of artificial recharge and rain water harvesting through the successful examples in these sites and for replication by the states in similar set ups in future.	
15.	Rajiv Gandhi National Ground Water Training & Research Institute.	Training of CGWB and other Central/ State Govt. officers and staff on ground water aspect	3.00	39 Training Courses	One year	35 training course completed. 619 trainees have been trained.	

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1	2	3	4	5	6	7	8
16.	Information, Education and Communication	<p>(i) To create awareness for optimal sustainable development, maintenance of quality and efficient use of country's water resources to match the growing demands on this precious natural resources with active involvement of all stakeholders in order to achieve accelerated, equitable, economic development of the country.</p> <p>(ii) To create awareness for the urgent need for mutual cooperation and adopting integrated planning and participatory approach in management.</p>	25.00	To create awareness among the people to provide education for sustainable development and utilization of water resources	Continuing activity	<p>During the financial year 2011-12, an amount of Rs. 14.10 crore was incurred out of the allocated Revised Budget of Rs 18 crore.</p> <p>1. Painting Competition:-</p> <ul style="list-style-type: none"> * A three tier painting competition at school, State and National level was organized by MoWR in 29 States/UTs. * A total of 16,05,346 students from 23475schools participated at the school level competition in 29 States/UTs. * The State level competition was held on 14th November 2011 in the States/UT Capitals, amongst the 50 best entries received in the State/UT. * The First, Second and Third winners of the State level competition from each State/UT were invited to participate in the National level painting competition held on 21st January, 2012. <p>The winners of the National Level Painting Competition were awarded a cash Prize of Rs. 1 lakh (1st prize), four second prizes of Rs.50,000/- each, eight third prizes of Rs. 25,000/- each and 74 consolation prizes of Rs.5,000 each, along with a Certificate.</p>	

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1	2	3	4	5	6	7	8
		<p>(iii) To create awareness among the people about necessity of water conservation.</p> <p>(iv) To promote advocacy on the tenets of National Water Policy with focus on learning, documenting and dissemination of knowledge of water science and technology and issues concerning sustained development of water resources.</p> <p>(v) To create awareness about necessity of adopting measures for rainwater harvesting and artificial recharge of ground water to meet present and future needs of water.</p> <p>(vi) To strengthen awareness infrastructure specially campaign mechanism and support structure.</p>				<p>2. Electronic Media Campaign for mass awareness on water conservation –</p> <ul style="list-style-type: none"> * Electronic Media Campaign was launched on National, and DD news channels and 13 Regional Channels and Delhi LPT of Doordarshan for 60 days w.e.f. 20.06.2011 to telecast video spots on water conservation and free bonus air time for a period of 69 days w.e.f. 1.10.2011 to 08.12.2011. * Electronic Media Campaign was launched on National News, Primary Channel/LRS(188 stations), Vividh Bharti National(37 stations) 22 FM Channels and 31 Stations of Regional News of All India Radio for 43 days w.e.f. 20.06.2011 to broadcast audio spots on water conservation. * Digital Campaign was launched in Cinema halls across the country for a period of 14 days from 11.11.2011 to 24.11.2011. * Video spots of 30 seconds on water conservation for 130 days and a documentary film on FPARP of 22 Minutes and 8 seconds, once a week for 16 weeks were telecast on Lok Sabha Television w.e.f. 15.12.2011 to 22.4.2012. <p>3. Print Media Campaign –</p> <ul style="list-style-type: none"> * Advertisement was released in national dailies & vernacular newspapers seeking nominations for the “Bhoomijal Savardhan Puruskar and “Rasthriya Jal Puruskar 2010. * An advertisement was released from State capitals on the occasion of National Integration Day on 19.11.2011. 	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2011-12	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.03.2012	Remarks
1	2	3	4	5	6	7	8
						<p>4. Workshops/Seminars/Conferences –</p> <ul style="list-style-type: none"> • Grant-in aid to “Non – Violent Alternatives” for organizing a conference on “River Waters” from 18th to 20th November, 2011 at New Delhi. • Grant-in-aid to CII, New Delhi for organizing their annual flagship event 17th Technology Summit & Technology Platform from 22-23rd November 2011 at Hotel Lalit, New Delhi. • Grant-in-aid to ‘Centre for Sustainable Development’ for organising ‘Bangalore World Water Summit’ in Bangalore from 1-3 February 2012. <p>5. Participation in Fairs/Exhibitions –</p> <ul style="list-style-type: none"> * Ministry and its organizations participated in IITF- 2011 at New Delhi from 14th to 27th November, 2011 through erection of pavilion, models on water conservation to spread awareness amongst masses for water conservation and management. * Participated in International conclave on “Climate Change” 2011 held at Hyderabad from 12th to 14th October 2011. * Participated in the 99th Indian Science Congress at Bhubaneshwar from 3-7 January 2012 <p>6. Under Tribal Sub-Plan –</p> <ul style="list-style-type: none"> * Mass Awareness activities were conducted by CWC and CGWB on behalf of Ministry for implementing the Tribal Sub-Plan for IEC activities in Tribal areas. 	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2011-12	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.03.2012	Remarks
1	2	3	4	5	6	7	8
17.	Repair, renovation and restoration of water bodies.	(i) To restore and augment the capacity of water bodies. (ii) To recover and expand their irrigation potential. (iii) improvement of agriculture / horticulture productivity (iv) Development of tourism, cultural activities, increased availability of drinking water.	684.00 Crore for Domestic Support.	i)To monitor the progress in respect district projects identified for implementation. (ii)To evaluate the performance of the scheme as and when completed. (iii) Release of funds to state Govt. on the basis of DPRs received from them. (iv) Concurrent evaluation of the programme where the scheme is under implementation.	These schemes are being continued	Total grant amounting to Rs. 291.03 crore has been released to the 9 States during 2011-12 i.e. (Odisha – Rs. 70.33 crore, Karnataka – Rs. 77.51 crore, MP (Bundelkhand)- Rs. 2.62 crore, Meghalaya – Rs. 0.64 crore, Maharashtra – Rs. 80.53 crore, Gujarat – Rs. 10.61 crore, Chhattisgarh – Rs. 34.68 crore, Rajasthan – Rs. 7.07 crore, Haryana – Rs. 7.04 crore)	Further release is expected to Bihar, Uttar Pradesh, Karnataka, Andhra Pradesh, Meghalaya, Maharashtra, Gujarat, Chhattisgarh, Rajasthan and Haryana.

Ministry of Water Resources

PERFORMANCE OF 2012-13(up to December 2012)

(Rs. in crore)

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2012-13	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.12.2012	Remarks
1	2	3	4	5	6	7	8
1.	Development of Water Resources Information System	Continuing activities to collect hydrometeorological and water quality on all major rivers including snowmelt runoff monitoring, compilation and dissemination of the observed data to users. Hydrological Information System, Upgradation of sites, Opening of New Sites and Water Quality Laboratory upgradation	85.00	Publication of Hydrological Water Year Book, Water Quality Year Book, Silt Year Book, Hydrological Information System, Upgradation of sites, Opening of New Sites and Water Quality Laboratory upgradation	Daily/Ten Daily/Monthly/Yearly/ Periodical	Data were collected from all the stations.	
		To collect reservoir water level of 120 reservoirs whose live storage is proposed to be monitored by the CWC by telemetry system		Preliminary works related to scheme such as feasibility study and preparation of Bid Documents etc.	Work will be take up after approval of EFC.	Nil since the sub scheme is not approved.	
		Strengthening of CPDAC/it's sub-committees, Field visits, Training/Study Tours, Technology Transfer, Strengthening of Beach Erosion Dte. as a Centre of excellence , Preparation of Manual, guidelines, Workshop / Seminar etc.		Being a new activity, it is proposed to complete the Preparatory work for identification of sites. Organizing meeting of CPDAC and its sub-committees	Work will be take up after approval of EFC.	Regional office of CWC in Kerala held discussion with CESS, Kerala and Irrigation Department in Kerala for implementation of CMIS in the State in light of the proposal received from CESS Kerala.	
		Conduct the 5th MI Census w.r.y. 2011-12		1) Testing of the new methodology for conducting next MI Census in one State . 2) Pursuing	Oct-12	Study has been Completed in the State of Rajasthan & report has been submitted by NISG on 31.12.2012.	
		To collect information through outsourcing on		To prepare schedule for collection of information from	Schedule has been drafted	Comments for finalising the schedule are being sought from concerned officer of	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2012-13	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.12.2012	Remarks
1	2	3	4	5	6	7	8
		Culturable Command Area (CCA) and their geographical extent, Irrigated area by season, Irrigation Potential created and utilized (IPC & IPU), Cropping pattern, Other project related information		projects authorities through outsourcing		States Irrigation Departments	
		WQAA is mandated to direct various agencies to standardise methods for water quality monitoring and to ensure quality of data generation; to take measures so as ensure proper treatment of wastewater with a view to restoring the water quality of the river/water bodies to meet the designated-best-uses; to take up research and development activities in the area of water quality management; to promote recycling, re-use of treated sewage/trade effluent for irrigation in development of agriculture;		Most of the activities of WQAA are of continuous nature and are taken up throughout the year regularly. Few of the quantifiable activities of WQAA taken up during 2012-13 are: 1. Audio visual material / Booklet / Working Model / Display for Mass Awareness Programme, 2. Preparation of reports on 'Study on Distribution of trace and toxic metals profile in major rivers of India - season wise', 3. Report on 'Study on Ground Water contamination in critically polluted industrial clusters', 4. Report on 'Study on Contamination of ground water due to intensive agricultural activities (Fertilizers, pesticides, POPs)',	Most of the activities to be continued throughout the year. Process for quantifiable activities as enumerated in Col.(5) are: S.No.1: The work is assigned to IEC Division, MoWR S.No.2:Work assigned to Central Water Commission. S.No.3: Work assigned to Central Ground Water Board. S.No.4: Work assigned to CPCB.	Achievements on quantifiable activities as enumerated in col.5 is as follows: S.No.1: Work is under progress. S.No.2:Work is under progress. S.No.3: Reports on industrial clusters of Chattisgarh, Uttar Pradesh, Tamil Nadu, Andhra Pradesh and Gujarat have been received and under evaluation. S.No.4: Work is under progress.	
		to draw action plans for quality improvement in water bodies; to maintain minimum discharge for sustenance of aquatic life forms in riverine system; to utilize self-assimilation capacities at the critical river stretches to minimize cost of effluent treatment; to review the		5. Status report on geo-genic contaminants - selenium, radioactive elements like uranium, radon and thorium in India, 6. Baseline study of ground water quality in NCR Region, 7. Desk Study on Artificial Recharge to Ground Water by Treated Wastewater through Soil Aquifer Treatment (SAT),	S.No.5: Work assigned to Central Ground Water Board. S.No.6:Working is undergoing in WQ Cell, MoWR. S.No.7: Work assigned to NEERI, Nagpur. S.No.8: Three training programmes. One training programme each assigned to CWC, NIH & outsourced agency.	S.No.5: Work is under progress. S.No.6: EOI was floated. S.No.7: Draft final report received and is under evaluation. S.No.8: One Training Programme on 'In-House Training Programme on Waste Water Recycling and Re-use' was organized by EA-Waters. Another training programme conducted by NIH on 'Hands on Advance instruments of Water Quality Testing' S.No.9: One WQAA meeting was held on 30-	

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1	2	3	4	5	6	7	8
		status of quality of national water resources (both surface water & groundwater (except-that due to geo-genic aspect) and identity "Hot Spots" for taking necessary actions for improvement in water quality; to constitute/set-up State-level Water Quality Review Committee (WQRC) to coordinate the work to be assigned to such committees.		8.Organizations of Water Quality Training programmes (03 nos.), 9. Organizations of WQAA meetings and taking up follow up action on the decisions taken thereon. 10. R&D proposals- "Post Monsoon Baseline Ground Water Quality in NCT Delhi. 11. Study of Water Quality of the Existing Water Bodies of Meerut district on GIS Platform.	S.No.9: Two meetings of WQAA in a year. S.No.10: Work assigned to NEERI, Nagpur. S.No.11: Work is assigned to Jan hit Foundation, Meerut.	05-2012 and follow up action on decisions taken up. S.No.10: R&D studies on Baseline ground water quality in NCT Delhi has been referred to Ministry of Finance for concurrence by IFD, MoWR. S.No.11: Draft final report was evaluated and modifications are under progress. Apart from above, WQAA participated in India Water Week in April, 2012. 'Drinking Water Quality & Water Management' was organized by PHD Chamber of Commerce on May 8, 2012. Hon'ble Minister(WR) had inaugurated a workshop organized by India Water Foundation in collaboration with the UNEP-GEMS/Water Programme from November 5-8, 2012 on 'Water Quality Monitoring in Asia and Pacific: Challenges and Opportunities. WQAA has participated in the workshop and presented a paper on 'Role of WQAA and its Achievements'.	
		To monitor Major, Medium Irrigation Projects by making field visits and prepare implementation status report thereof and Strengthening to monitoring units of CWC.		I) Assessment of potential creation of additional 50 AIBP funded projects through remote sensing. II) Monitoring of Major and Medium projects.	Activities to continue through out the year.	i) NRSC, Hyderabad is carrying out the work of assessment of irrigation potential created in AIBP funded additional 50 projects through remote sensing using cartosat satellite data. ii) Till date 44 Nos. of reports have been submitted by NRSC, Hyderabad. iii) online monitoring of major & medium projects under AIBP will be carried out by developing in-house capability (1st batch of training to NRSC, Hyderabad of CWC officers is scheduled from 26-29 Dec 2012). iv) All the Major and Medium projects are monitored.	
		Creation of Watershed Atlas and development of web enabled Water Resources Information System of the country at 1:50000 scale		Third version of WRIS will be launched.	3rd version of India WRIS has been launched on 04.12.2012	The First version of website of INDIA WARIS has been launched on 07 Dec, 2010 in New Delhi by H'onble Minister of Water Resources. The URL of the website is www.india-wris.nrsc.gov.in can be seen or more detail . Second version of India WRIS was launched by Chairman, CWC onn World Water Day i.e. 22nd March, 2012. Further development of third version of India WRIS has been launched on 04.12.2012.	

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1	2	3	4	5	6	7	8
		Upgradation & Modernisation Library of CWC		Upgradation & Modernisation Library of CWC	Continuing activity	i) AMC of electrical service and horticulture, ii) Payment for Pest control & electrical bills.	
		i) Enhancement of e-Governance capabilities, ii) upgradation & strengthening of hardware, software and network resources iii) Improvement of CWC Website iv) Building of IT knowledge base in CWC through Training v) Strengthening of SM Dte.		i) Upgradation of 247 computers and 180 UPS ii) Installation of Arc GIS software iii) Instalation of AutoCAD software iv) Installation of Anti-virus software v) Installation of additional modules of APAR software vi) Digitization of Engineering Drawings vii) Installation of Active Directory viii) Installation of IPv4 to IPv6	To be completed in 2012-13	i) Tender opened ii) Software Installed on Server iii) Under process Quotation received iv) Softare Installed on Server v) Order placed work under progress vi)EOI has been called, tender under process vii) Under process viii) Switices has been changed	Budget allocated in Sept 2012
2	Research & Development programme in Water Sector	The scheme comprises of various activities related to R&D and training in the water resources. sector These activities are being implemented by the premier research Institutes in the field of hydrology, hydraulics, soil and material sciences, i.e. NIH, CW&PRS and CSMRS and CWC. The outcomes of the programme will be improvement in efficiency of irrigation system, reduction in risk/hazard in water resources project, economic design for project and development of new / improved technology	100.00	The implementation of the scheme will help in capacity building and creation of additional facilities. The research output are generally in terms of technical report & research papers having recommendations for improved techniques for planning & design. Quantifiable deliverables are: (a) Research Reports = 231 (b) Research Papers = 279 (c) Training workshops = 30	Works to be implemented by various organizations of the Ministry.	Research / Technical reports - 150 Research papers - 186 Training and workshop - 23	

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1	2	3	4	5	6	7	8
3.	Hydrology Project	To extend and promote the sustained and effective use of the Hydrological Information System by all implementing agencies concerned with water resources planning and management in 13 States and 8 Central agencies	70.00	Implementation of the project components, i.e. institutional strengthening, vertical extension with Hydrological Design Aids (HDA), DSS-Planning (DSS-P), DSS-Real Time (DSS-RT) and 41 Purpose Driven Studies and horizontal expansion including PDS in new States, with support of 4 major consultancies in place in Hydrology Project.	The planned activities are to be implemented through the Central Agencies, viz. PCS (MoWR), BBMB, CWC, CGWB, CWPRS, CPCB, IMD and NIH till June, 2012.	<p>(a) Data observation and validation is being carried out on a regular basis.</p> <p>(b) Under Decision Support System-Planning consultancy, customization of generic model is being carried out in remaining 3 states (out of 9 states).</p> <p>(c) Installation of RT-DAS for DSS-Real Time of BBMB in progress.</p> <p>(d) Development of modules of Hydrological Design Aids (HDA) model is in progress.</p> <p>(e) 10 Purpose Driven Studies are under different stages of completion and some of them are nearing completion. The interpretation of results and finalization of report in progress.</p> <p>(f) Various procurements under Aquifer Mapping are in progress.</p>	
4.	River Basin Management		200.00				
a.	Investigation of Water Resources Development Schemes	Carrying of investigation in respect of identified projects for water resources development	100.00	Investigation and preparation of project report for identified project to continue.	The works of investigation/ preparation of project report are covered in more than one year and are carried over to following years	<p>a) The work on investigation of Water Survey & investigation work and preparation of FR of Sone Dam – Southern Tributaries of Ganga link also under progress.</p> <p>Field surveys & investigations for the remaining 3 links, which involves international dimensions, are under progress. Work for one link namely Kosi – Mechi, lies in Nepal, could not be started. NWDA has also prepared the PFR of forest free alignment of Jogighopa-Tista-Ganga link. Various alternative studies of Manas-Sankosh-Tista-Ganga link were carried out.</p> <p>The NGO of Sirsi to whom TOR for the proposed EIA & Eco – system studies of Bedti – Varada link was sent for their comments informed that they are not in favour of doing EIA studies for this link and oppose any surveys by NWDA and also wanted that the integrated Environment</p>	Permission of neighbouring countries for carrying out Survey & Investigation works in their territories for various link projects under Himalayan component and consensus of concerned states for preparation of DPRs of various interstate & intrastate link projects under Peninsular component required. Efforts

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						<p>study for Sirsi district as proposed by them to be undertaken by Govt. of Karnataka for which they have submitted 16 point TOR. NWDA continuously pursued with Govt. of Karnataka for their response in this regard.</p> <p>The concurrence of Govt. of Karnataka is not received for another link namely Netravati-Hemavati for which continues efforts are being made by NWDA for early concurrence.</p> <p>PFRs of six intra – state links also been completed and preparation of PFRs of other link proposals remained under progress.</p> <p>The Govts. of Maharashtra & Gujarat have conveyed their concurrence for the preparation of Detailed Project Reports(DPRs) of Par-Tapi-Narmada & Damanganga-Pinjal links has been signed by the Chief Ministers of Gujarat, Maharashtra and Union Minister (WR) in the presence of Hon'ble PM. The Surveys & Investigations for the preparation of the DPRs of these links are under progress. The DPRs are planned to be completed by March 2013.</p> <p>However, there are Public Hindrances which affected the progress of work.</p> <p>Efforts were continuously made by MOWR / NWDA to convince the concerned States, Madhya Pradesh & Rajasthan for signing of tripartite MOU for preparation of DPR of Parbati – Kalisindh – Chambal link.</p> <p>NWDA has updated the Hydrological studies of the links as desired by Govt. of Rajasthan.</p> <p>After appraisal by CWC, the Technical Advisory Committee (TAC) of MOWR gave the techno – economic clearance to the Polavaram project, which is the main component of the Godavari (Polavaram) – Krishna (Vijayawada) link. State Govt. is implementing the project as per their own</p>	<p>are continuously being made by NWDA.</p>

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						<p>planning.</p> <p>The DPR of Phase-I of the project has been completed on 30-4-2010 and sent to State Govts in May 2010. Further the Secretary (WR), reviewed the progress of Ken – Betwa link project in a meeting held on 04-08-2010, during which it was decided the S&I work for major/medium projects in Upper Betwa sub-basin will now be taken up by NWDA on priority after firming the feasibility of these projects. NWDA has undertaken. S & I works for Phase-II proposals in Upper Betwa region and the studies are in progress.</p> <p>The work of taking various statutory clearances are also in progress.</p> <p>PFR of six intra-State link will be completed during the year 2012-13.</p> <p>Gazette notification to enhance the mandate of NWDA to prepare the DPR of Intra-State link has been done on 11.6.2011. Work of Preparation of DPR of Burhi-Gandak-None- Baya-Ganga link and Kosi-Mechi link of Bihar State have been taken up by NWDA. NWDA has completed the PPR of these links. The DPRs will be completed by March 2013. Also the work of one link of Maharashtra and one link of Tamil Nadu has been taken up for DPRs.</p>	
b.	River Basin Organization	The scheme is to encourage formulation of River Basin Organisation with the primary objective of providing a forum to all the co-basin states for taking up necessary studies and evaluation etc., with a view to	0.00	The creation of RBO has to be preceded by consultations with State Governments. Process of consultations was to be initiated during this year. A token provision has been kept in this regard.		Ministry has sent proposal to the concerned states for constitution of the RBO for Mahanandi & Godavari rivers. The concurrence of the all concerned state Government has not been received. The matters is being pursued with the concerned states.	

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		identify the most appropriate alternative for optimum utilization of resources and meeting the aspirations of all state-holders.					
c	Re-structuring of CWC	Horizontal expansion of field activities at basin level to address the basin level issues in more comprehensive and integrated manner and to take up the responsibilities assigned to MoWR/ CWC under National Water Mission(NWM) to address climate change issues	10.00	Approval of the Scheme of "Restructuring of CWC" and creation of posts for restructured CWC	Activity to start after approval of Restructuring Proposal.	New component. No expenditure made as the approval is pending.	Draft proposal submitted to MoWR
d.	Brahmaputra Board	Survey, Investigation & preparation of Master Plan, DPRs for Drainage Development Schemes & DPRs for Multipurpose project, Execution of Drainage Development Schemes, Anti-erosion schemes & Flood Management Schemes , Operation & maintenance & up-gradation of NEHARI, Construction of H.Q. Complex & R&M of assets created by the Board, construction of raised platform, Up-gradation of IT&GIS, Climate Change Studies etc.	90.00	3 Nos Master Plan, 2 Nos DPR of DDS , completion of 3 Nos. of DPRs of MPP viz. Kuls, Noa-Dihing and Simsang, completion of 40% works of Barbhag DDS, 18% of Amjur DDS, 42%of Jengrai, 22% of Jakaichuk, 43% of Phase-II &III works of Protection of Majuli Island from flood and erosion, 26% works of Avulsion of Dhola Hatighuli Phase -IV, 30% works of Raised Platforms. Continuation of feasibility study of channalisation of river Brahmaputra, Operation & maintenance & upgradation of NEHARI, Upgradation of IT &GIS, Climate Change studies would be taken up, 20% of anti-erosion works for protection of Kalair Alga of Man Cachar Masalpur area in Assam.	Activities to continue throughout the year.		

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2012-13	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.12.2012	Remarks
1	2	3	4	5	6	7	8
5.	Infrastructure Development Scheme	<p>1. To procure land and construct office & residential buildings for the Ministry of Water Resources and its attached/ subordinate organizations and</p> <p>2. Provision of necessary infrastructure for implementation of IT Plan in MoWR, CWC and CGWB.</p>	55.00	<p>(i) Acquisition of Land</p> <p>(ii) Construction of office/residential buildings</p> <p>(iii) Procurement, upgradation and maintenance of latest I.T. hardware and software besides networking of database in field offices with Headquarters to facilitate e-governance and training of personnel in I.T. facilities.</p>	As acquisition of Land & Buildings is a time consuming process involving various agencies, some of the targeted works have spilled over to next year.	<p>Construction of Staff Quarters Boundary wall at Bhubaneswar completed. Construction of Office building for Regional and Divisional office at Guwahati, construction of boundary wall for regional and Divisional office at Ahmedabad, construction of Divisional Workshop and Store Building at Bangalore and construction of Divisional workshop & Store Building at Bhopal are in progress and likely to be completed from 2013 to 2015.</p> <p>Procurement of 33 computers, 12 printers, 7 scanners, 5 laptop, 9 digital copier and 3 multifunctional machines. Running charges of multifunctional machines/ copiers, repair and maintenance of various machine computers, printers, scanners, laptops etc. and purchase of computers consumables i.e. cartridges, toners, photocopy paper reams etc.</p>	There is a risk of spill over due to the fact that acquisition of land and construction of buildings is a time consuming process involving various Central & State Govt. authorities.
6.	Flood Forecasting.	To maintain the network of hydrological observation sites across the country by CWC covering 20 river basins to provide timely flood forecast at 175 stations to the local administration and extension of Flood Forecasting Network.	48.00	To collect real time data, its analysis and issue of flood forecasts (around 6000 forecasts are issued every year)	Implemented by Central Water Commission through out the year.	A total of 5031 nos. flood forecasts were issued.	New activity of extension of Flood Forecasting Network could not be undertaken due to non-approval of Scheme.
7.	Farakka Barrage Project.	<p>(i) Maintenance of Farakka Barrage Project and its appurtenant structure including feeder canal, Jangipur Barrage etc.</p> <p>(ii) Anti-erosion works for protection of embankments along river Ganga and its tributaries to train the river along main barrage.</p>	75.00	Maintenance of farakka barrage Project and its appurtenant structures including feeder canal, Jakngipur barrage etc., which is a continuing activity and procurement of gates etc. Erosion control works in extended jurisdiction of FBP 40 km u/s and 80 km d/s of farakka barrage to save land , crops, orchards, public buildings alon river Padma-Ganga.	Implemented by Farakka Barrage Project. Activities continued throughout the year.	<p>(i) Maintenance of Farakka Barrage & its appurtenant structures, replacement of gates & anti-erosion works along river Ganga – Padma & its tributaries were taken up as per requirement.</p> <p>(ii) Anti-erosion works in a length of about 4500 m amounting to Rs. 74.00 Crore were executed</p>	NIL

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2012-13	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.12.2012	Remarks
1	2	3	4	5	6	7	8
8.	River Management Activities and Work Related to Border Areas	Hydrological observations and investigations of Water Resources Projects with neighboring countries besides river management works on common/border rivers. Flood control, Anti-erosion and anti sea erosion works, Maintenance of flood protection works of Kosi and Gandak Projects (in Nepal).	125.00	(i) Continuation of Joint Hydrological observations on river Ganga with Bangladesh, (ii) Preparation of Joint Detailed Project (v) Transmisson of flood related data from / to neighbouring countries . (vi) Development works on common border rivers	Implemented by Central Water Commission, Ganga Flood Control Commission, and State Governments of Bihar, Uttar Pradesh, Tripura, West Bengal, Jammu & Kashmir, Punjab, Himachal Pradesh, Utrakhand and UTs.	i)Joint Hydrological observations on river Ganga with Bangladesh continued as per Treaty of 1996. (ii) Survey & Investigation of Pancheswar and Sapta Kosi projects* (in Nepal) continued. (iii) Flood related data transmitted to Bangladesh. (iv) River management works in Tripura and West Bengal on common border with bangladesh continued.	NIL
10.	Ground Water Management & Regulation	(a) Aquifer Mapping & Management : (i) Evolve strategies for scientific planning, monitoring, development and management of ground water resources under different hydrogeological environs. (ii) Develop and operationalize area - specific techniques / technologies for ground water development, augmentation and management. (iii) Regulate and control the development and management of ground water resources. (iv) Conduct Research & development studies including upgradation of technological capabilities and infrastructural base of the Central Ground Water Board to meet the upcoming challenges in ground water. (v) Transfer of knowledge and education in hydro-geological research and ground water	318.00	Hydrogeological Survey, Investigation, Data acquisition and analysis (150 Number of Top sheets)	One year	collected Hard copy of topomaps -264032 Sq.km Hard copy of geology map- 66160 Sq.km Soil Maps - 124774 Sq. Km and Geomorphological maps-115475 Sq. Km. Plotting of Observation Wells-1,66,000 Sq.km Rainfall Data Collection -193000 Sq.km, Time Series Data Analysis of Water Level - 77700 Sq.km, Lithologs of Exploratory Wells- 172000 Sq.km, Aquifer Parameters- 134950 Sq.km, Aquifer wise Water Quality Data -62545 Sq.km, Information on Geophysics- 149600 Sq.km RL of monitoring wells- 120700 Sq.Km. Data Gap in monitoring -71800 Sq.Km Data Gap in exploration - 62800 Sq.Km Data Gap in aquifer parameters - 57600 Sq.Km Data Gap in Geophysical Survey- 63000 Sq.Km. Water Quality data generated- 56700 Sq.Km. Exploratory drilling in 24700 Sq.Km Total well inventory in 59500 Sq.Km Vertical Electrical Sounding in-15500 Sq.Km aquifer parameter determination in 7900 Sq.Km. 394 wells	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2012-13	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.12.2012	Remarks
1	2	3	4	5	6	7	8
		management. Also increase capacity building in all aspects of ground water development and management through information dissemination, education, awareness and training. (vi) Increase coordination with concerned central / state govt. organizations for sustainable ground water development and management.				VES-1062 Bore-Hole logging-40 14173 samples	
		(b)Ground Water Exploration utilizing scientific tools viz. Remote sensing and GIS, Geophysical surveys aided by drilling to locate ground water worthy areas.		Ground Water Exploration - 800 wells(EW-530, OW-270) Construction of Piezometers/Exploration through WAPCOS	One year	Agreement revised. Preparatory work started. 40 % advance payment of Rs 31.69 Crore released to WAPCOS	
		(c)Monitoring of Ground Water levels from the ground water monitoring stations.,		Monitoring of Ground Water observation wells - 15640	One year	102 wells constructed in Punjab, Haryana, U.P & M.P, Jharkhand	
		(d)Short term water supply investigations for source finding to Central / State Govt. department		Short term water supply investigations -Need Based (~200)	One year	Monitoring for the month of April-May/Aug/Nov Completed. Additional 2055 wells established for monitoring	
		(e)Geophysical studies to selection of sites for ground water exploration and artificial recharge structures and deciphering aquifers		Geophysical Survey: VES – 2000 Well Logging – NB	One year	89 investigations	
		(f)Chemical studies to assess ground water quality		Chemical analysis of water samples – 20000 samples	One year	334 Artificial recharge structures were constructed during 2012-13 and total structures constructed under the scheme are 1002 Structures Completed.	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2012-13	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.12.2012	Remarks
1	2	3	4	5	6	7	8
		(g)Preparation of reports, maps for use by planners and administrators		District brochures – 120,Ground Water Year Book – 23,State Reports - 5	One year	Under Progress Under finalization	
		(h)Regulation of ground water development by CGWA		Regulation of Ground Water development in notified areas	Continuing	30- Issued,18-Submitted, 1- Issued, 5 -Issued 16 -Submitted	
		(i)Demonstrative project for Artificial Recharge to ground water for replicating the same by State Govt. and other agencies.		Spill Over work of Demonstrative Artificial Recharge	2-3 year	80 new areas have been notified by CGWA in the year. Total notified areas are now 162. Procured 8 Rigs, UV VIS Spectrophotometer, Map Info Software, 393 sheets of classified forest cover map in digital format. NRSC LISS III data- 188 scenes. Procurement under Process 13 Rigs through DGS&D. Scientific Equipments	
11.	HRD / Capacity Building		100.00				
a.	Rajiv Gandhi National Ground Water Training & Research Institute.	Training of CGWB and other Central/ State Govt. officers and staff on ground water aspect	15.00	32 Training Courses Tier- II – 36 Tier-III through outsourcing-100	One year	Tier I: 25 trainings completed. 454 persons trained. Tier II : 9 trainings completed. 240 persons trained. Tier III : 8 trainings completed. 1373 persons trained.	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2012-13	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.12.2012	Remarks
1	2	3	4	5	6	7	8
b.	Information, Education and Communication	<p>(i) To create awareness for optimal sustainable development, maintenance of quality and efficient use of country's water resources to match the growing demands on this precious natural resources with active involvement of all stakeholders in order to achieve accelerated, equitable, economic development of the country.</p> <p>(ii) To create awareness for the urgent need for mutual cooperation and adopting integrated planning and participatory approach in management.</p>	25.00	To create awareness among the people to provide education for sustainable development and utilization of water resources	Continuing activity	<p>During the financial year 2012-13 upto December 2012, sanctions have been issued for an amount of Rs. 8.54 crore, out of the budgetary allocation of Rs. 25 crore.</p> <p>The following activities have been undertaken:-</p> <p>1. Painting Competition:-</p> <ul style="list-style-type: none"> * A three tier painting competition at school, State and National level was organized by MoWR in 35 States/UTs. * A total of 21,41,077 students from 41,421 schools participated at the school level competition in 35 States/UTs. * The State level competition was held on 21st November 2012 in the State/UT Capitals, amongst the 50 best entries received in the State/UT. * The First, Second and Third winners of the State level competition from each State/UT are invited to participate in the National level painting competition on 21st January, 2013. 	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2012-13	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.12.2012	Remarks
1	2	3	4	5	6	7	8
		<p>(iii) To create awareness among the people about necessity of water conservation.</p> <p>(iv) To promote advocacy on the tenets of National Water Policy with focus on learning, documenting and dissemination of knowledge of water science and technology and issues concerning sustained development of water resources.</p> <p>(v) To create awareness about necessity of adopting measures for rainwater harvesting and artificial recharge of ground water to meet present and future needs of water.</p> <p>(vi) To strengthen awareness infrastructure specially campaign mechanism and support structure.</p>				<p>2. Electronic Media Campaign for mass awareness on water conservation –</p> <p>* Electronic Media Campaign was launched on Prasar Bharti, Doordarshan, New Delhi for telecast of video spots on National Network(DD-1)and 12 Regional Channels for a period of 13 days from 29th June to 11th July 2012.</p> <p>* Electronic Media Campaign was launched on National News, Vivid Bharti National(37 stations) 22 FM Channels and 31 Stations of Regional News of All India Radio w. e. f. 29.06.2012to 12.08.2012 for 45 days to broadcast audio spots on water conservation.</p> <p>* Electronic Media Campaign was launched through DAVP on private FM Channels for broadcasting audio spots for a period of 52 days from 29.06.12 to 19.08.12 by the 72 stations across 55 cities.</p> <p>* Presently, video spots of 30 seconds on water conservation for 285 days w. e. f. 29.06.2012 are being telecast on Lok Sabha Television.</p> <p>3. Print Media Campaign –</p> <p>* A two page feature was released in Rail Bandhu Magazine of the Indian Railways.</p> <p>* An advertisement was released on the Occasion of National Integration Day on 19.11.2012.</p> <p>4. Water Conservation Day</p> <p>* Birth anniversary of late Mrs. Indira Gandhi on 19.11.2012 was celebrated as Water Conservation Day by organisation of a variety of programmes by the Ministry and its Organisations for different stakeholders to create awareness regarding concern about depleting water resources and Ministry's vision for the water underlining its commitment to be an active contributor to the sustainability of this very important natural resource.</p>	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2012-13	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.12.2012	Remarks
1	2	3	4	5	6	7	8
						<p>5. Workshops/Seminars/Conferences –</p> <ul style="list-style-type: none"> * Ministry organised the 'India Water Week-2012' from 10-14 April 2012. * Advertisement & Publicity through awareness workshop on "Sustainable Management of Ground Water Resources/ Depletion of Ground Water Level" at Vatakara, Kerala. <p>6. Participation in Fairs/Exhibitions –</p> <ul style="list-style-type: none"> * Ministry and its organizations participated in IITF-2012 at New Delhi from 14th to 27th November, 2012 through erection of pavilion, models on water conservation to spread awareness amongst masses for water conservation and management. * CWC has been directed to participate in the 'WaterEX World Expo 2013' in Mumbai from 15-18 January 2013. * CWC has been directed to participate in the exhibition during the 100th Indian Science Congress at Kolkata from 3-7 January 2013 <p>7. Evaluation of IEC Scheme during the XI Plan</p> <ul style="list-style-type: none"> * The independent evaluation of the IEC Scheme during the XI Plan is being undertaken. <p>8. Engagement of Media Consultant</p> <ul style="list-style-type: none"> * The Ministry is engaging a professional agency through WAPCOS for preparation and implementation of IEC activities 	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2012-13	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.12.2012	Remarks
1	2	3	4	5	6	7	8
c.	National Water Academy	(i) Training in all aspects of WRD&M for all stakeholders of water sector including Induction Training Programme. (ii) Infrastructure development	5.00	a) 37 nos. of Training Programme b) Spillover work of XI Plan like construction of Swimming Pool iii) Furnishing of newly constructed Guest House & Annexe Building	(a) Training Program will be spread over the whole year and will be conducted in accordance with the approved Training Calender. (b) To be completed by March 2013. (c) to be completed by March 2013.	23 No. of Programmes completed (20 short terms + 3 long terms) Maintenance of NWA are running arrangement with CPWD/contract and sufficient maintenance work are carried out regularly. Therefore, quantifiable targets may not be possible. Construction of swimming pool has been completed and taken over by NWA from CPWD and being used for the training purposes.	
d	Capacity Building Programme	i) Strengthening of WALMIs/MTIs. ii) National level Training/visit of farmers iii) Demonstrations iv) National Water Mission	55.00	Strengthening of 14 WALMIs, 200 training courses, 600 demonstrations and programme on water conservations, preservation & augmentation	Activities to be implemented by States Govt. in one/two years. National level training programmes are proposed in addition to the State level training programme organized by the States.	This is a new component and activities proposed under this activity will be carried out after approval of EFC memo.	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2012-13	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.12.2012	Remarks
1	2	3	4	5	6	7	8
12.	Implementation of National Water Mission	The objective of National Water Mission is "conservation of water, minimizing wastage and ensuring its more equitable distribution both across and within States through integrated water resources development and management".	200.00	<p>Institutional Mechanism: - Convening of meetings of Advisory Boards/ Groups /Committees.</p> <p>(i) Goal 1 –Comprehensive water database in public domain and assessment of the impact of climate change on water resources :- Downscaling of Climate Change models on river basin scale.</p> <p>(ii) Goal 2 –Promotion of citizen and state action for water conservation, augmentation and preservation :- Sensitization of all Panchayat members and their functionaries in dark and grey blocks - Preparation of Framework Action Plan</p> <p>(iii) Goal 3-Focused attention to vulnerable areas including over exploited areas: - (i) Comprehensive assessment of ground water resources through aquifer mapping.(ii) All over-exploited areas to be covered by recharge of ground water.</p> <p>(iv) Goal 4-Increasing water use efficiency by 20% :- (i) Increasing water use efficiency by 20%(ii) The gap of about 15% between the irrigation potential created and the irrigation potential utilized to be reduced by half.</p> <p>(v) Goal 5-Promotion of basin level and integrated water resources management:- (i)Finalisation of National Water Policy (2013)(ii) Preparation of River Basin Master Plan for integrated water resources, development & management.</p>	Preparation of Cabinet Note and EFC Memo and processing for approval would be taken up during the year 2012-13.		

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2012-13	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.12.2012	Remarks
1	2	3	4	5	6	7	8
13.	Irrigation Management Programme	Central assistance linked to outcomes in terms of MMI performance and impacts of States or the local bodies such as Panchayats or Water Users's Association.	100.00	(a) improve the ISF collection ratio; (b) generate more accurate data on irrigation potential utilized; (c) give strong fillip to PIM; (d) speed up CAD; (e) encourage rationalization of ISC levels; (f) encourage volumetric water supply and pricing; (g) foster partnership between irrigation agencies and WUAs; (h) in general help reduce the gap between IPC & IPU.	Preparation of Cabinet Note and EFC Memo and processing for approval would be taken up during the year 2012-13.		
14.	Dam Rehabilitation & Improvement Programme (DRIP)	The Engineering and Management Consultant for the CPMU will be hired. CPMU activities related to rehabilitation of Phase-I project will commence	24.00	Hiring of CPMU consultant	June, 2012		

**ACCELERATED IRRIGATION BENEFITS PROGRAMME & NATIONAL
PROJECT**

The Accelerated Irrigation Benefits Programme(AIBP) was launched during 1996-97 to give loan assistance to the states to help them complete some of the incomplete major/medium irrigation projects which were in an advanced stage of completion and create additional irrigation potential in the country. The Surface Minor Irrigation Schemes of North-Eastern States, Hilly States of Sikkim, Uttaranchal, Jammu and Kashmir, Himachal Pradesh and Koraput, Bolangir and Kalahandi Districts of Orissa have also been provided Central Loan Assistance(CLA) under this programme since 1999-2000. Grant component has been introduced in the programme from April, 2004 like other Central sector schemes. As per the existing AIBP criteria effective from December, 2006, grant amounting to 25% of the project cost for major and medium irrigation projects in non-special category States and 90% grant of the project cost for major/medium/minor irrigation projects in special category States (including undivided Koraput, Bolangir and Kalahandi districts of Orissa) are provided to the selected projects. The minor irrigation schemes in non-special category States falling in drought prone/tribal areas are treated at par with special category States and are released 90% grant of the project cost. Major and medium projects providing irrigation benefit to drought prone/Tribal area and flood prone area are also eligible for 90% grant of the project cost. The State Governments have been provided an amount of Rs.55416.0325cores(As on 31.12.2012) as CLA/Grant under AIBP since inception of this programme till date for 293 major/medium irrigation projects and 14197 Surface minor irrigation schemes. After commencement of this Programme 140 major/ medium and 10495 Surface MI Schemes have so far been completed. An additional irrigation potential of 6.775 million hectare has been created through major/ medium irrigation projects and an irrigation potential of 0.844 million hectares has been created through Surface MI Schemes upto March, 2011. As per the prevailing AIBP guidelines, projects benefiting drought prone /tribal area, projects included in the Prime Minister's relief package for agrarian distress districts of Maharashtra, Karnataka, Andhra Pradesh and Kerala and projects in the States having irrigation development below national average could be included in AIBP in relaxation to one to one criteria of inclusion of new project under AIBP. Of the 65 major/medium projects initially included in the Prime Minister's relief package for agrarian distressed districts of Andhra Pradesh, Karnataka, Kerela and Maharashtra, so far 40 projects have been funded under AIBP. The grant released so far for these projects is Rs.6417.573crore.

A Budget allocation of Rs.14242.00crore was made by the Ministry of Finance for AIBP for 2012-13, against which, an amount of Rs1065.3450 crore has been released as grant under AIBP(as on 31.12.2012).

NATIONAL PROJECTS

The Union Cabinet in its meeting held on 7th February 2008 has given its consent to the proposal of the Ministry of Water Resources on Implementation of National Projects with central assistance of 90% of the cost of the project as grant falling in the following selection criteria:

- (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, 00,000 ha. and with no dispute regarding sharing of water and where hydrology is established.

Recently, modification in the Guide lines of the schemes of National Projects has been made in September 2012. As per the modification, Extension, Renovation and Modernisation (ERM) projects, envisaging restoration of lost irrigation potential of 2.0 lakh haectare of or more would now be eligible for inclusion as a National Project with certain conditions.

So far 15 projects have been included in the scheme of National Projects. Three projects, namely Gosikhurd Project of Maharashtra, ShahpurKandi Project of Punjab and Teesta Barrage Project of West Bengal have been funded under the scheme of National Projectsso far.Gosikhurd Project has been provided grant amounting to Rs.2582.94croreup to March 2011-12. Shahpurkandi Project has been provided grant amounting to Rs.26.036croreupto March 2011-12. Teesta Barrage Project started receiving funding under the scheme of national project during 2010-11 and grant amounting to Rs.178.200 crore has been provided for the project till March 2011-12.

Annual Plan (2013-14)
Name of the Ministry Department: Ministry of Water Resources
Statement of Outlay and Outcomes/Targets (2013-14)

Sl. No.	Name of Scheme/Program me	Objectives/Outcome	Annual Plan 2013-14 (Proposed)	Quantifiable Deliverables	Process/Timelines	Remarks
1	2	3	4	5	6	7
	Accelerated Irrigation Benefits Programme(AIBP)	To complete ongoing irrigation/multipurpose projects in advanced stage of construction and which are beyond the resources capability of State Government in a time bound manner with a view to (A) Create additional irrigation potential and (B) Derive envisaged benefits from these projects.	Rs.9000 crore (Rs.Nine Thousand crore) for AIBP and Rs.1000 crore for National Projects.)	Irrigation potential of 0.5 million hectares is targeted for creation and 5major /medium projects are targeted for completion.	Irrigation potential of 0.5 million hectares is targeted for creation and 5major /medium projects are targeted for completion.	The projects included in the AIBP are to be executed by respective State Governments

Information related to National Projects

(1) Progress achieved during XI Plan:

Central assistance released - Rs. 2787.176 crore (Rs 2582.94 crore for Gosikhurd, Rs178.20 crore for Teesta Barrage and Rs 26.036 crore for Shahpur Kandi)

Potential created – 54777 ha. (14337 from Gosikhurd and 40440 from Teesta Barrage)

(2) Progress proposed during 2012-13:

Central assistance under process – Rs.741.39 crore (Rs 674.41 crore for Gosikhurd and Rs 67.98 crore for Saryu Nahar)

Potential proposed for creation – 99981 ha (49981ha from Gosikhurd and 50,000 ha from Saryu Nahar)

(3) Target for 2013-14 as per projections received from project authorities:

Central assistance proposed – Rs. 1777.84 crore (Rs. 546.64 crore for Gosikhurd, Rs 848.20 crore for Saryu Nahar and Rs 383 crore for Teesta Barrage)

Potential targeted – 3.49 lakh ha (1.67 lakh ha from Gosikhurd, 1.25 lakh ha from Saryu Nahar and 0.57 lakh ha from Teesta Barrage).

ANNEXURE -V
STATEMENT SHOWING DETAILS OF MINISTRY OF WATER RESOURCES BUDGET
VIS-À-VIS XII PLAN OUTLAY

(Rs. in Crore/Net)

Sector / Orgn / Scheme	XII Plan Outlay	Heads of Accounts	B.E. 2012-13	R.E. 2012-13	Actual Dec. '12	B.E. 2013-14
Major & Medium Irrigation						
1. Research & Development Programme	360.00	2701	100.00	35.00	24.22	50.00
2. Development of Water Resources Information System	##	2701	84.99	40.00	28.36	149.98
3. Infrastructure Development	\$\$	2701	3.20	1.50	1.01	2.55
4. Hydrology Project	120.00	2701	70.00	43.72	20.62	70.00
5. Human Resource Development/Capacity	**	2701	85.00	29.90	8.55	85.00
6. River Basin Management	&&	2701	110.00	57.40	48.92	100.00
7. Implementation of National Water Mission	1390.00	2701	200.00	0.25	0.00	110.00
8. Irrigation Management Programme	6000.00	2701	100.00	0.75	0.24	40.00
9. Dam Rehabilitation and Improvement Programme (DRIP)	120.00	2701	24.00	2.30	0.15	36.00
Total: Major and Medium Irrigation			777.19	210.82	132.07	643.53
Minor Irrigation						
Surface Water Schemes						
10. Ground Water Management and Regulation	3539.00	2702	318.00	180.00	91.30	275.00
11. Human Resource Development/Capacity Building	**	2702	15.00	9.00	3.25	9.00
12. Infrastructure Development	\$\$	4702	39.80	6.93	1.71	29.00
13. Development of Water Resources Information System	##	2702	0.01	0.00	0.00	0.02
Total: Minor Irrigation			372.81	195.93	96.26	313.02
Flood Control Sector						
14. Flood Forecasting	794.00	2711	48.00	30.00	17.58	150.00
15. Infrastructure Development	\$\$	4711	12.00	6.57	1.77	18.45
16. River Management Activities and works related to Border Rivers	763.00	2711	125.00	30.00	19.54	125.00
17. River Basin Management	&&	2711	90.00	76.68	60.30	100.00
Total: Flood Control Sector			275.00	143.25	99.19	393.45
Transport Sector						
18. Farakka Barrage Project	558.00	5075	75.00	100.00	66.83	150.00
19. EAT	0.00		0.00	0.00	2.73	0.00
## Development of Water Resources Information System	2247.00					
\$\$ Infrastructure Development	337.00					
** Human Resource Development/Capacity	610.00					
&& River Basin Management	1280.00					
Grant Total	18118.00		1500.00	650.00	397.08	1500.00