



GOVERNMENT OF INDIA

OUTCOME BUDGET

2011 - 2012

MINISTRY OF WATER RESOURCES

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EXECUTIVE SUMMARY

The Outcome Budget 2011-12 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 2009-10, performance in first 9 months of the financial year 2010-11 and the targeted performance during 2011-12. 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, Minister of State, Secretary, the Ministry is organized under the administration wing, coordination wing, finance wing and nine Subject Matter Wings. The Ministry has two attached offices, seven subordinate offices, seven 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 15 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) 2011-12. The main objective is to establish a one-to-one correspondence between (Financial) Budget 2011-12 and Outcome Budget 2011-12. 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 2009-10 and those upto third quarter of 2010-11.
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.
2.	The Ministry adopted National Water Policy in 1987 and the same was subsequently revised. The revised National Water Policy was adopted by the National Water Resources Council under the Chairmanship of the Prime Minister of India in its 5 th meeting held on 1 st April, 2002.
3.	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.
4.	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.
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.
6.	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.
7.	Under Information Education and Communication Scheme, mass awareness activities of the Ministry and its organizations are implemented with a view to create awareness among various target groups about the importance of optimum development and management of Water Resources in a holistic manner. A committee reviews the Media Plan from time to time to ensure effective implementation of the activities and to take timely remedial measures and corrective actions.

8. Investigation of Water Resources Development Scheme is regularly monitored by the department and ministry. Financial progress is monitored monthly alongwith the physical progress. To inform the general public about the progress in this regard, the concerned organizations are required to put the details of physical/financial targets vis-à-vis achievement on their respective web-sites and update it regularly.

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 2010-11, implemented and monitored 15 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) launched 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 improved productivity and cost – effective 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 various water resources development schemes including the schemes for Inter Basin transfer of Water and to carry out other studies and activities considered necessary incidental, supplementary or conducive to attainment of above objectives. Recently preparation of DPR of Gyspa & Bursar Project by CWC and preparation of DPRs of Intra-State Links have also been included under the scheme.

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: The main objectives of the scheme are (i) to advocate the tenets of National Water Policy for adopting water efficient measures, (ii) to create awareness among the people about the need of using available water resources judiciously, (iii) to create awareness on necessity of adopting measures for rainwater harvesting and artificial recharge of ground water to meet present and future needs of water, (iv) to reinforce importance of traditional water bodies in maintaining water balance and meeting water needs of the population, (v) to make conservation of water a mass campaign and to impress upon the citizens the need of voluntarily adopting various water saving measures.

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 IT development and specifically include the activities related to, (i) land and buildings of CWC, (ii) lands and buildings of CGWB, (iii) IT development of MoWR and (iv) upgradation and modernization of computerization and information system of CWC.

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.

1.4.10. Ground Water Management and Regulation: The main objectives of the scheme are as follows:

- To carry out ground water management studies;
- To carry out ground water exploration aided by drilling to delineate ground water worthy areas;
- To periodically assess country's ground water resources and revise / update the methodology;
- To monitor ground water levels and quality through ground water observation wells;
- To carry out demonstrative artificial recharge and rain water harvesting studies to develop / update area specific methodologies;
- To establish / update data storage and information system to store, process and disseminate ground water data;
- To regulate and control ground water development in coordination with State Governments;
- To carry out geophysical studies through surface and sub-surface methods to delineate potential aquifers and pinpoint suitable sites for ground water exploration, artificial recharge etc;
- To coordinate with State governments with a view to establish benchmark methodologies for ground water studies;
- To promote awareness and water quality consciousness;
- To develop linkages with Scientific institutions on aspects of ground water saving and sharing;
- To assess ground water quality for determining their suitability for various types of uses including use for agriculture, industrial and allied purposes;
- To prepare reports, maps, ground water atlases and brochures for use by planners and administrators.

1.4.11. Rajiv Gandhi Institute of Training and Research: This scheme covers the activities to provide a base for organizing and upgrading the knowledge and skills of ground water professional in planning, investigation, development, management, augmentation, conservation and protection of ground water resources.

1.4.12. **Pagaladiya Dam Project:** The main objective of the scheme is the construction of dam and canal system to protect an area of 40000 ha in Nalbari area of Assam from recurring floods from the river Pagladiya and to provide irrigation to a gross command area of 54,160 ha annually (average). However, due to various issues including non completion of Zirat survey by Government of Assam, work has not been started and EFC for appraisal of the scheme has not yet been convened.

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

1.4.14. **River Management Activities in Border Areas:** In view of the international issues involved in international rivers, under the scheme river management activities are taken up on priority in a systematic manner which include hydrological observation, investigation and necessary flood control measures in cooperation with neighboring countries wherever necessary. Recently the proposal for up-scaling schemes by inclusion of components of closure of Kosi Breach in Bihar, dredging of river Ichhamati etc. has been proposed and considered in EFC meeting headed by Secretary (Exp.).

1.4.15. **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

STATEMENT OF OUTLAYS & OUTCOMES / TARGETS: ANNUAL PLAN 2011-12

(Rs. in Crore)

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	Annual Plan 2011 -12 Approved Outlay	Quantifiable Deliverables / Physical Outputs	Projected Outcomes	Process/ Timelines	Remarks
1	2	3	4	5	6	7	8
1	Development of Water Resources Information System	<p>(a) Creation of Watershed Atlas and development of web enabled Water Resource Information System of the country at 1:50000 scale.</p> <p>(b) To provide support to Water Quality Assessment Authority and implement identified studies / programme for water quality assessment</p> <p>(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 utilisation particularly during lean season.</p> <p>(d) Collection and publication of Water Quality data ,</p> <p>(e) To collect data from network of hydrological observation stations for overall assessment of water resources and analysis of their characteristics</p> <p>(f) Monitoring of selected ongoing Major, Medium & ERM irrigation projects throughout the country including AIBP and CAD projects.</p> <p>(g) Fourth Minor Irrigation Census.</p>	59.00	<p>(a) The Water Resources Information System (WRIS) website which was launched during 2010-11 will be expanded/updated further with 30 GIS layers.</p> <p>(b) Observation of data for 878 hydrological observation sites and collection of other water related data to continue.</p> <p>(c) Long term data collection at snow observatories, G&D sites and development of snow melt runoff models.</p> <p>(d) Number of visits to projects for monitoring purposes</p> <p>(e) Publishing reports of the 4th MI Census and preparatory work for conduct of 5th MI Census.</p>	<p>(a) Preparation of Basin-wise Water Year Book</p> <p>(b) Publishing reports of the 4th MI Census and preparatory work for conduct of 5th MI Census.</p> <p>(c) Expansion/ updation of website INDIA WRIS to its full version.</p>	Activities to continue through- out the year.	
2	Hydrology Project	To extend and promote the sustained and effective use of	80.00	Implementation of the Project components, i.e. institutional strengthening, vertical extension with	(a) Improved data accessibility for exchange	The planned activities are to be	

	Phase-II	the Hydrological Information System by all implementing Agencies concerned with water resources planning and management in 13 States and 8 Central Agencies.		Hydrological Design Aids, DSS-Planning, DSS-Real Time and Purpose Driven Studies with the support of 4 major consultancies in-place under Hydrology Project, Phase-II.	amongst implementing Agencies (b) Improved tools for integrated water resources planning and management (c) Improved data system and tools for management of flood and droughts.	implemented through the Central Agencies, viz. PCS (MoWR), BBMB, CWC, CGWB, CWPRS, CPCB and NIH till June, 2012.	
3	Ground Water Management & Regulation	i. Ground Water Management Studies to prepare ground water management planii. Ground Water Exploration utilizing scientific tools viz. Remote sensing and GIS, Geophysical surveys aided by drilling to locate ground water worthy areas.iii. Monitoring of Ground Water levels from the ground water monitoring stations.,iv. Short term water supply investigations for source finding to Central / State Govt. departmentv. Geophysical studies to selection of sites for ground water exploration and artificial recharge structures and deciphering aquifersvi. Chemical studies to assess ground water qualityvii. Preparation of reports, maps for use by planners and administratorsviii. Regulation of ground water development by CGWAix. Demonstrative project for Artificial Recharge to ground water for replicating the same by State Govt. and other agencies.	120	<ul style="list-style-type: none"> • Ground Water Management Studies – 1.50 Lakh Sq.Km. • Ground Water Exploration - 800 wells. • Monitoring of Ground Water observation wells - 15640 • Short term water supply investigations - Need Based (~300) • Geophysical Survey: VES – 2000 Well Logging – NB • Chemical analysis of water samples – 20000 samples • District Report – 40 • Ground Water Year Book – 23 • State Reports – 8 • Regulation of Ground Water development in notified areas • Artificial recharge studies (new)- Projects covering O.E./Critical /urban areas etc • Continuation of studies of previous years 	<p>To provide Ground Water Management plans in thrust areas to reorient development & management studies.</p> <p>Delineation of potential aquifers and their yield.</p> <p>Assessment of GW scenario</p> <p>Request based assistance in augmenting water supply source finding for Defence & other organization.</p> <p>To select potential aquifers and well sites. To analyze the quality of GW for various uses. -----</p> <p>Notification of GW stressed areas for better GW governance. Sustainable management of GW supply through AR and RWH</p>	<p>One year</p> <p>One year</p> <p>One year</p> <p>One year</p> <p>One year</p> <p>One year</p> <p>Continuing</p> <p>2-3 years</p>	will be achieved up to March,2012
4	Investigation of Water Resources Development Schemes	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 of intra	54.00	<p>(a) Preparation of remaining 8 (2+6) FRs of inter basin water transfer link and PFRs / FRs / DPRs of Intra state links as proposed by State Govts. will remain under progress.</p> <p>(b)Work related to survey & field investigations and preparation of Detailed Project Reports (DPRs) for Par – Tapi – Narmada and</p>	<p>(a) Preparation of 8 FRs, 2 DPR and PFRs / DPRs of Intra state links as proposed by State Govts.</p> <p>(b)The work on investigation of IBWT projects to continue</p>	<p>The works of investigation / preparation of water transfer link project reports are covered in more than one year and are carried over to following</p>	Consensus of concerned states for preparation of DPRs of various inter basin / intrastate link

		state link proposals and activities considered incidental, supplementary or conducive to attainment of above objectives.		Damanganga – Pinjal links (Continued activity target Dec.2011) (c) The work on investigation of IBWT projects to continue.		years.	projects under Peninsular / Himalayan required. Permission of neighbouring countries for carrying out Survey & Investigation works in their territories also required.
5	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	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: Research / Technical reports - 307 Research papers - 275 Training and workshop - 30	-----	The work is to be implemented by various organizations of the Ministry.	
6	National Water Academy	Training for In-service Engineers/ Induction Engineers in water Resources Planning Development and Management.	3.00	a) 37 Nos. of Training Programmes b) Construction of swimming pool Gymnasium. c) Construction of 2 classrooms, 1 computer lab, extension to Krishna Hostel d) Resd. Quarters for type -II,III,IV & V under HP-II	-----	a) 37 Nos. of Training Programmes to be completed by March 2012 b) to be completed by March,2012 c) to be completed by March,2012 d) to be completed by March,2012	
7	Rajiv Gandhi National Ground Water Training and Research Institute	Training of officers & Staff of CGWB and other Central / State Govt. organizations on ground water aspects.	3.00	32 Training Courses	Capacity building of professionals and sub-professionals in GW investigations, development and management techniques and also in administrative matters and management aspects.	One year	will be completed up to March, 2012

8	Information, Education and Communication	To generate awareness amongst the masses about the importance of water and need for its conservation	25.00	<p>1. Publicity through Electronic media through Doordarshan, All India Radio and Private T.V. and Radio Channels by airing audio/video spots on water conservation (5 months) 2. Mass awareness by generating social & mass media campaigns through internet sites as Facebook, Twitter etc 3. Organising and participating in workshops/seminars (50 events), 4. Publicity through Print media including periodic advertisements in newspapers, magazines etc.(5 advertisements). 5. Printing and distribution of printed material 6. Campaign through traditional media, street plays, puppet shows etc 7. Organising events for students viz. debate, painting /quiz competitions. 8. Advertisement through mass media transport vehicles. 9. Displays at prominent places like airports, bus stops, railway stations etc. 10. Organising exhibitions in prominent places frequently visited viz. Pragati Maidan etc., 11. Production of documentaries, short films, animation films, audio/video spots and their display through electronic media (2 films) 12. Celebration of special days viz. World Water Day, Water Resources Day 13. Holding seminars, workshops with Irrigation Ministers / Principal Secretaries / Secretaries of water related Ministries (2 events), 14. Organisation of half marathon to generate awareness on water sector issues, 15. Various mass awareness programmes and water management training programmes to be organized in various parts of the country 16. Organisation of Jal Yatras in various parts of the country through CGWB/CWC, 17. Organisation of Painting competition on Schools level, States level and National level in 35 States and UTs of the country, 18. Releasing of Grant in Aid/financial support to Chambers of Commerce/renowned organisations for organizing conferences/workshops/mass awareness programmes, 19. Organizing events for empowering people's organizations, farmers organizations, panchayats etc. 20. Hiring of Media Consultant firm for a futuristic planning and for implementation of IEC activities during the XII Plan.</p>	Publicity and awareness about water resources sector with emphasis on water conservation and management	Activities will be conducted throughout the year	
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9	Pagladiya Dam project	Flood Control, Irrigation & Incidental Power Generation	0.01	No activities at present location. However, Brahmaputra Board is exploring the alternative site at upstream of existing site. Only normal R&M works for the assets created for the project are maintained with skeleton staff.	On implementation of project the additional irrigation of 54,160 Hectare and flood control of 40,000 Hectare would be achieved.	To be implemented by Brahmaputra Board	
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.	70.40	(i) Maintenance of Farakka Barrage Project and its appurtenant structure including feeder canal, Jangipur Barrage etc and procurement of spare gates etc. (ii) Erosion control works 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 will be undertaken.	Operation of Farakka and Jangipur Barrages/ Gates are ongoing activities. Erosion control works would save land, crops, buildings, etc. along the river banks which get eroded every year due to high floods. Besides ongoing works, 5 new anti erosion works have been recommended by TAC to be carried out	The identified activities to be implemented by Farakka Barrage Project. Activities to continue throughout the year.	
11	Dam Safety Studies & Planning	1. Setting up of Instrumentation Demonstration Centre. 2. Preparation and digitization of generalized Probable Maximum Precipitation (PMP) Atlases for Indus & Krishna Basins and Ganga & Brahmaputra basins and upgradation of Atlases prepared under Dam Safety Assurance & Rehabilitation Project (DSARP) by HSO. 3. Environmental & Social Assessment (ESA) Studies (under Professional Services). 4. Risk Analysis Studies and other Specialized Studies for identified projects (under Professional Services). 5. Training and Development of Special Purpose Packages on Dam Safety Activities.	3.00	Procurement of Models / fixtures for Instrumentation Demonstration Centre. Preparation and digitization of generalized PMP Atlases, Consultants for Ganga & Brahmaputra basins and upgradation of PMP Atlases. Empowered Committee on Mulla Periyar Dam. Various in-country trainings related to Dam Safety.	-----	Procurement of Models / fixtures for Instrumentation Demonstration Centre- 3/2012. Preparation and digitization of generalized PMP Atlases, Consultants for Ganga & Brahmaputra basins and upgradation of PMP Atlases- 3/2012. Empowered Committee on Mulla Periyar Dam- 3/2012. Various in-country trainings related to Dam Safety- 3/2012.	
12	River Basin Organisation/ Authority	Setting up River Basin organization in respect of Mahanadi and Godavari Basin	4.00	Matter to be pursued with State Governments for initiating the activities.	-----	-----	
13	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	36.00	Collection of real time data, its analysis and issue of flood forecasts. About 6000 forecasts are issued every year.	Advance warning of the incoming flood to help in planning activities for reducing the damages from floods. Installation of	The work will be implemented by Central Water Commission during the year 2011-12.	

		175 stations to the local administration.			123 telemetry stations is programmed during 2011-12		
14	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 & Drainage development works by Brahmaputra Board. Maintenance of flood protection works of Kosi and Gandak Projects (in Nepal).	188.00	(i) Continuation of Joint Hydrological observations on river Ganga with Bangladesh, and(ii) Preparation of Joint Detailed Project Reports (DPR)*.(iii) Anti-erosion & Flood protection works of Majuli Island.(iv) Transmission of flood related data from / to neighboring countries,(v) Development works on common/border rivers.(vi) Desilting of River Ichhamati along international border with Bangladesh.	Mitigating the recurring flood problems, bank protection works in Indo-Bangladesh border would be carried out on 18 sites in 2011-12. These works are in Tripura and West Bengal Sectors.	It would be implemented by Central Water Commission, Ganga Flood Control Commission, Brahmaputra Board and State Governments of Bihar, Uttar Pradesh, Tripura, West Bengal & Jammu & Kashmir.	* The progress of works in Nepalese territory will depend upon law & order situation in Nepal.
15	Infrastructure Development	To procure land and building for Ministry of Water Resources and its attached /sub-ordinate offices and implementation of IT Plan in MOWR,CWC and CGWB	28.40	Construction of office and residential buildings for CWC and CGWB and other activities . Procurement of hardware, software and development of unified web enabled information and management system for CWC,CGWB and Ministry (Proper).	These activities will lead to qualitative enhancement in working environment thereby increase in working efficiencies.	Activities to be implemented by Central Water Commission and Central Ground Water Board	
16	Command Area Development and Water Management Programme	To develop adequate delivery system of irrigation water up to farmers' field with and objective to enhance water use efficiency and production and productivity of crops per unit of land and water for improving socioeconomic condition of farmers.	500.00 (proposed)	i. OFD Works (Field channels & land leveling, shaping & realignment of field boundaries =0.35M ha ii. Field , intermediate and link drains =0.140M ha iii. Correction of system deficiencies in systems of capacity up to 4.25 cumec =0.026M ha	To bridge the gap between created potential ad potential utilized through (a) On-Farm-development (OFD) works (b) Implementation of Participatory Irrigation Management (PIM) (c) Correction of conveyance deficiency and (d) Reclamation of water logged, saline and alkaline land.	Continued activity. Projects to be implemented by State Governments.	
17	Accelerated Irrigation Benefit Programme	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	14000.00 (proposed)	Irrigation potential of 1.05 million hectares is targeted for creation and 15 major/medium projects are targeted for completion.	Irrigation potential of 1.05 million hectares to be created and 15 major/medium projects to be completed.	Activities to continue through-out the year.	
18	Repair, Renovation	Restore and augment the capacity of water bodies to	550.00 (proposed)	To release funds as per guidelines to the state Governments.	Completion of restoration of 3000 water bodies	These schemes are being continued.	

	and Restoration of Water Bodies	recover and expand their irrigation potential		Concurrent evaluation of projects already undertaken.	during 2011-12. To provide financial assistance under schemes for RRR Water bodies.		
19	Dam Rehabilitation and Improvement Programme	To carry out activities related to project oversight and coordination of DRIP project which envisages rehabilitation of 223 existing dams in Kerala, MP, Orissa and Tamil Nadu and Central Level dam safety institutional strengthening in CWC.	5.00 (proposed)	Provision has been kept towards cost for setting up Central Project Monitoring Unit in Central Water Commission. This provision is only for domestic component (20%) since the balance (80%) is to come from World Bank as back to back financing.	-----	The scheme is awaiting EFC Clearance.	
20	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.	2500.00 (proposed)	(i) River Management works in the critical areas. (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.	The activity will help in reducing damages due to flood, river bank erosion and coastal erosion. 86 FMP assisted flood management works to be completed.	Central Assistance for schemes included under FMP would be released to the States on submission of UC's. The new proposals will be considered by a Committee headed by Secretary (Expenditure) for release of central assistance.	

CHAPTER – III

REFORM MEASURES AND POLICY INITIATIVES

3.1 The National Action Plan on Climate Change envisages institutionalization 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 has been considered by the Prime Minister’s Council on Climate Change and in-principle approval has been accorded by the Prime Minister’s Council on Climate Change in its meeting held on 28.05.2010.

3.2 One of the important initiative is to review the National Water Policy. In this regard, consultation meeting with Hon’ble Members of the Parliamentary Standing Committee on Water Resources, Consultative Committee for Ministry of Water Resources and Parliamentary Forum on Water Conservation and Management was held on 28th July 2010 at New Delhi to review National Water Policy. A Brain Storming Session with the academia, experts and professionals was also organized on 26th October 2010 at New Delhi. A consultation meeting with NGO’s on National Water Policy was held on 11-12 January 2011.

3.3 **Inter Linking of rivers programme:** 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. The revised EFC extending the scope of NWDA and CWC to include (a) DPR of Intra-State Links, (b) DPR of Gypsa project of Himachal Pradesh and Bursar of Jammu and Kashmir by CWC has since been approved by the competent authority.

3.4 **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.

3.5 Secretary level meeting between India and Bangladesh was held for formulating a working plan on the sharing of water of Teesta, Feni and some other common rivers.

CHAPTER - IV

REVIEW OF PAST PERFORMANCE

4.1 The relevant information regarding performance during 2009-10 and 2010-11 against the targets already set are given at **Annexure-I** and **Annexure - II**.

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**.

TREND OF EXPENDITURE IN FY 2010- 11:

5.2 Budget Estimate for the annual plan of this Ministry for the year 2010-11 is Rs. 700.00 crores which was reduced to Rs. 560.00 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.430.90 crores has been incurred upto January 2011 which works out to 61.56 % and 76.95 % with reference to B.E and R.E 10-11 respectively.

5.3 The grant of Ministry of Water Resources for FY 10-11 is classified into four Sectors. The Sector-wise distribution of approved plan outlay (both BE/RE) and expenditure up to December 2010 under different Sectors are summarized below:

(Rs in crore)			
Sector	B.E. 2010-11	R.E. 2010-11	Exp. upto Jan., 2011
Major & Medium Irrigation	251.00	181.60	142.99
Minor Irrigation	116.50	91.40	76.74
Flood Control	250.50	225.00	171.08
Transport Sector	82.00	62.00	39.83
Entry Awaited Transfer	0.00	0.00	0.26
Total	700.00	560.00	430.90

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. Investigation of Water Resources Development
4. Research & Development Programme
5. National Water Academy
6. Information, Education and Communication
7. Dam Safety Studies and Planning
8. River Basin Organisation/Authority
9. Ground Water Management and Regulation
10. Rajiv Gandhi NGWT&RI
11. Flood Forecasting
12. River Management Activities and works related to Border Rivers
13. Pagladia Dam Project
14. Infrastructure Development
15. Farakka Barrage Project

State Sector Schemes

16. Accelerated Irrigation Benefit Programme
17. Repair, Renovation and Restoration of Water Bodies
18. Dam Rehabilitation and Improvement Programme
19. Flood Management Programme
20. 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 2009-10		BE 2010-11		RE 2010-11		BE 2011-12		Total B.E. 2011-12
		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	27.51	0.00	24.52	0.00	56.63	0.00	57.17	57.17
2.	Ravi-Beas Waters Tribunal	0.00	1.17	0.00	1.04	0.00	0.90	0.00	0.97	0.97
3.	Cauvery Water Disputes Tribunal	0.00	2.15	0.00	1.93	0.00	2.26	0.00	2.36	2.36
4.	Krishna Water Disputes Tribunal	0.00	1.79	0.00	1.76	0.00	1.63	0.00	1.78	1.78
5.	Vansadhara Water Dispute Tribunal	0.00	0.00	0.00	2.00	0.00	1.19	0.00	4.16	4.16
6.	Mahadayi Water Disputes Tribunal	0.00	0.00	0.00	0.00	0.00	0.83	0.00	3.54	3.54
	Total :	0.00	32.62	0.00	31.25	0.00	63.44	0.00	69.98	69.98
II.	Major & Medium Irrigation									
	Central Water Commission									
1.	Direction & Administration	0.00	25.56	0.00	20.90	0.00	22.59	0.00	23.82	23.82
2.	Data Collection	0.00	82.02	0.00	65.13	0.00	86.70	0.00	87.75	87.75
3.	Training	0.00	0.38	0.00	0.32	0.00	0.33	0.00	0.35	0.35
4.	Research	0.00	2.90	0.00	1.84	0.00	2.37	0.00	2.54	2.54
5.	Survey & Investigation	0.00	9.52	0.00	5.02	0.00	5.54	0.00	5.69	5.69
6.	Consultancy	0.00	25.45	0.00	18.84	0.00	22.23	0.00	23.83	23.83
7.	Contribution to international bodies									
8.	Seminars and conferences on water resources on water.	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.01
9.	Exhibition and Trade Fair	0.00	0.14	0.00	0.01	0.00	0.10	0.00	0.09	0.09
10.	Modernization of equipment CWC Offset Press	0.00	0.32	0.00	0.24	0.00	0.27	0.00	0.29	0.29

Sl No.	Sector/ Organisation /Scheme	Actuals 2009-10		BE 2010-11		RE 2010-11		BE 2011-12		Total B.E. 2011-12
		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	0.63	0.00	0.65	0.00	0.98	0.00	1.04	1.04
12.	Water Planning Wing	0.00	1.38	0.00	1.06	0.00	1.86	0.00	2.06	2.06
13.	Hydrological observations in Chenab basin	0.00	2.08	0.00	1.70	0.00	1.97	0.00	2.02	2.02
14.	National Water Academy	2.53	0.00	4.00	0.00	3.00	0.00	3.00	0.00	3.00
	Total : CWC	2.53	150.38	4.00	115.72	3.00	144.96	3.00	149.50	152.50
15.	Central Soil and Materials Research Station	0.00	7.63	0.00	5.92	0.00	7.80	0.00	8.31	8.31
16.	Central Water & Power Research Station	0.00	36.12	0.00	25.47	0.00	33.06	0.00	35.67	35.67
17.	National Institute of Hydrology	0.00	10.04	0.00	6.50	0.00	9.80	0.00	8.50	8.50
18.	Sardar Sarovar Construction Advisory Committee	0.00	0.90	0.00	0.63	0.00	0.74	0.00	0.81	0.81
19.	Bansagar Control Board	0.00	0.21	0.00	0.20	0.00	0.23	0.00	0.24	0.24
20.	Sutlej Yamuna Link Canal Project	0.00	0.00	0.00	20.00	0.00	8.94	0.00	2.06	2.06
21.	Upper Yamuna River Board	0.00	0.53	0.00	1.82	0.00	1.82	0.00	1.90	1.90
22.	Research and Development Programme	32.85	0.00	54.00	0.00	42.00	0.00	46.19	0.00	46.19
23.	Development of Water Resources Information System	63.10	0.00	66.00	0.00	41.42	0.00	58.94	0.00	58.94
24.	Hydrology Project	21.54	0.00	53.00	0.00	31.00	0.00	80.00	0.00	80.00
25.	Investigation of Water Resources Development Schemes	37.01	0.00	54.00	0.00	46.00	0.00	54.00	0.00	54.00
26.	Information, Education and Communication	10.85	0.00	15.00	0.00	14.10	0.00	25.00	0.00	25.00
27.	River Basin Organization/ Authority	0.00	0.00	0.50	0.00	0.01	0.00	4.00	0.00	4.00
28.	Dam Safety Studies and Planning	0.34	0.00	1.50	0.00	1.00	0.00	3.00	0.00	3.00

Sl No.	Sector/ Organisation /Scheme	Actuals 2009-10		BE 2010-11		RE 2010-11		BE 2011-12		Total B.E. 2011-12
		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	1.28	0.00	3.00	0.00	3.00	0.00	3.00	0.00	3.00
	Total: Major & Medium Irrigation	169.50	205.81	250.93	176.26	181.53	207.35	277.13	206.99	484.12
III.	Minor Irrigation									
1.	Central Ground Water Board	0.00	108.81	0.00	98.31	0.00	102.29	0.00	105.02	105.02
2.	Rajiv Gandhi NGWTRI	1.78	0.00	6.00	0.00	3.40	0.00	3.00	0.00	3.00
3.	Ground Water Management and Regulation	68.82	0.00	100.00	0.00	78.00	0.00	120.00	0.00	120.00
4.	Development of Water Resources Information System	0.00	0.00	0.00	0.00	0.07	0.00	0.06	0.00	0.06
5.	Infrastructure Development	2.15	0.00	10.50	0.00	10.00	0.00	11.40	0.00	11.40
	Total : Minor Irrigation	72.75	108.81	116.50	98.31	91.47	102.29	134.46	105.02	239.48
IV.	Flood Control Central Water Commission									
1.	Flood Data Collection	0.00	65.35	0.00	53.77	0.00	69.76	0.00	72.39	72.39
2.	Payment to Government of Bhutan for maintenance of flood forecasting and warning centres	0.00	1.06	0.00	1.02	0.00	1.02	0.00	1.08	1.08
3.	Strengthening and modernization of flood forecasting and hydrological network in Brahmaputra and Barak Basin	0.00	2.12	0.00	1.95	0.00	1.60	0.00	1.88	1.88
	Total : CWC	0.00	68.53	0.00	56.74	0.00	72.38	0.00	75.35	75.35
4.	Emergent Flood Protection Measures in Eastern and Western Sectors	0.00	3.00	0.00	3.00	0.00	3.00	0.00	3.00	3.00
5.	Pagladia Dam Project	0.00	0.00	0.50	0.00	0.01	0.00	0.01	0.00	0.01
6.	Flood Forecasting	17.38	0.00	36.00	0.00	25.00	0.00	36.00	0.00	36.00

Sl No.	Sector/ Organisation /Scheme	Actuals 2009-10		BE 2010-11		RE 2010-11		BE 2011-12		Total B.E. 2011-12
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
7.	River Management Activities and Works related to Border Areas	159.46	0.00	199.00	0.00	188.49	0.00	188.00	0.00	188.00
8.	Infrastructure Development	4.25	0.00	15.00	0.00	11.50	0.00	14.00	0.00	14.00
	Total : Flood Control	181.09	71.53	250.50	59.74	225.00	75.38	238.01	78.35	316.36
V.	Other Transport Services									
1.	Farakka Barrage Project	68.95	32.62	82.00	33.10	62.00	33.82	70.40	35.29	105.69
2.	Jangipur Barrage	0.00	2.21	0.00	2.27	0.00	2.34	0.00	2.46	2.46
3.	Feeder Canal	0.00	3.86	0.00	4.07	0.00	4.74	0.00	4.64	4.64
	Total : Transport Services	68.95	38.69	82.00	39.44	62.00	40.90	70.40	42.39	112.79
	TOTAL: (I to V) *	492.29	457.46	700.00	405.00	560.00	489.36	720.00	502.73	1222.73
VI.	AIBP and other Water Resources Programme **	8524.39	0.00	11500.00	0.00	9500.00	0.00	12620.00	0.00	12620.00
	GRAND TOTAL	9016.68	457.46	12200.00	405.00	10060.00	489.36	13340.00	502.73	13842.73

Source of financing : *Demand No.104 – Ministry of Water Resources for 2011-2012 (excluding AIBP)

** Details shown in Demand No. 35- 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 2009-10		B.E. 2010-11		R.E. 2010-11		B.E. 2011-12		Total
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	B.E. 2011-12
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
A.	DIRECT EXPENDITURE									
1.	Secretariat-Economic Services	0.00	32.62	0.00	31.25	0.00	63.44	0.00	69.98	69.98
2.	Central Water Commission: -Major & Medium Irrigation -Flood Control	2.53	150.38	4.00	115.72	3.00	144.96	3.00	149.50	152.50
		0.00	68.53	0.00	56.74	0.00	72.38	0.00	75.35	75.35
3.	Central Soil & Materials Research Station	0.00	7.63	0.00	5.92	0.00	7.80	0.00	8.31	8.31
4.	Central Water & Power Research Station	0.00	36.12	0.00	25.47	0.00	33.06	0.00	35.67	35.67
5.	Central Ground Water Board	0.00	108.81	0.00	98.30	0.00	102.29	0.00	105.02	105.02
6.	Rajiv Gandhi & NGWTRI	1.78	0.00	6.00	0.00	3.40	0.00	3.00	0.00	3.00
7.	Farakka Barrage Project	68.95	38.69	82.00	39.44	62.00	40.90	70.40	42.39	112.79
8.	Boards and Committees	0.00	1.64	0.00	2.66	0.00	2.79	0.00	2.95	2.95
	Total : Direct Expenditure	73.26	444.42	92.00	375.50	68.40	467.62	76.40	489.17	565.57
B.	RELEASES									
(a)	Grants to Autonomous Bodies									
1.	National Institute of Hydrology Research & Development Programme	0.00	10.04	0.00	6.50	0.00	9.80	0.00	8.50	8.50
	-Major and Medium Irrigation	32.85	0.00	54.00	0.00	42.00	0.00	46.19	0.00	46.19
3.	Pagladia Dam Project	0.00	0.00	0.50	0.00	0.01	0.00	0.01	0.00	0.01
	Sub-Total (a) Grants to Autonomous Bodies	32.85	10.04	54.50	6.50	42.01	9.80	46.20	8.50	54.70
(b)	Assistance to States for Flood Control/anti-erosion works									
1.	Emergent Flood Protection measures in Eastern and Western Sectors	0.00	3.00	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	3.00	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	20.00	0.00	8.94	0.00	2.06	2.06
	TOTAL: RELEASES (a) to (c)	32.85	13.04	54.50	29.50	42.01	21.74	46.20	13.56	59.76
	Total (A+B)*	106.11	457.46	146.50	405.00	110.41	489.36	122.60	502.73	625.33
C	OTHER PLAN SCHEMES									
	Major & Medium Irrigations									
1.	Development of Water Resources Information System	63.10	0.00	66.00	0.00	41.42	0.00	58.94	0.00	58.94
2.	Hydrology Project	21.54	0.00	53.00	0.00	31.00	0.00	80.00	0.00	80.00
3.	Investigation of Water Resources	37.01	0.00	54.00	0.00	46.00	0.00	54.00	0.00	54.00

Sl. No	Sector/Organisation/Scheme	Actuals 2009-10		B.E. 2010-11		R.E. 2010-11		B.E. 2011-12		Total
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	B.E. 2011-12
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
	Development Scheme									
4.	Information, Education and Communication	10.85	0.00	15.00	0.00	14.10	0.00	25.00	0.00	25.00
5.	River Basin Organization/ Authority	0.00	0.00	0.50	0.00	0.01	0.00	4.00	0.00	4.00
6.	Dam Safety Studies and Planning	0.34	0.00	1.50	0.00	1.00	0.00	3.00	0.00	3.00
7.	Infrastructure Development	1.28	0.00	3.00	0.00	3.00	0.00	3.00	0.00	3.00
	Total - MMI	134.12	0.00	193.00	0.00	136.53	0.00	227.94	0.00	227.94
	Minor Irrigation									
1.	Ground Water Management and Regulation	68.82	0.00	100.00	0.00	78.00	0.00	120.00	0.00	120.00
2.	Development of Water Resources Information System	0.00	0.00	0.00	0.00	0.07	0.00	0.06	0.00	0.06
3.	Infrastructure Development	2.15	0.00	10.50	0.00	10.00	0.00	11.40	0.00	11.40
	Total - MI	70.97	0.00	110.50	0.00	88.07	0.00	131.46	0.00	131.46
	Flood Control									
1.	Flood Forecasting	17.38	0.00	36.00	0.00	25.00	0.00	36.00	0.00	36.00
2.	River Management Activities and Works related to Border Areas	159.46	0.00	199.00	0.00	188.49	0.00	188.00	0.00	188.00
3.	Infrastructure Development	4.25	0.00	15.00	0.00	11.50	0.00	14.00	0.00	14.00
	Total - FC	181.09	0.00	250.00	0.00	224.99	0.00	238.00	0.00	238.00
	Total - A+B+C	492.29	457.46	700.00	405.00	560.00	489.36	720.00	502.73	1222.73
D	AIBP and other Water Resources Programme **	8524.39	0.00	11500.00	0.00	9500.00	0.00	12620.00	0.00	12620.00
	GRANT TOTAL (A+B+C+D)	9016.68	457.46	12200.00	405.00	10060.00	489.36	13340.00	502.73	13842.73

Source of financing: * Demand No.104 – Ministry of Water Resources for 2011-2012 (excluding AIBP).

** Details shown in Demand No. 35- Ministry of Finance (Transfers to State and Union Territory Governments).

TABLE – C**UTILISATION CERTIFICATES OUTSTANDING IN RESPECT OF GRANTS
/LOANS RELEASED UPTO 31.03.2008.**

Name of the Ministry / Department –Ministry of Water Resources

Position as on 01.10.2010

No. of UCs Outstanding in r/o grants released upto march 08	Amount involved (Rs in Crores)	No. of UCs received	Amount involved in respect of UCs received	No. of UCs outstanding as on 01.10.2010	Amount involved on outstanding UCs (Rs in crores)
1	2	3	4	5	6
255 (Institutions & Autonomous bodies)	87.34	116	71.90	139	15.44
40* (State Govts.)	333.48	25	292.97	17	40.51

*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, 08	Amount involved (Rs in Crores)	No. of UCs received	Amount involved in respect of UCs received	No. of UCs outstanding as on 01.10.2010	Amount involved on outstanding UCs(Rs in crores)
	1	2	3	4	5	6
Minor Irrigation	2	0.04	0	0	2	0.04
Ganga Wing	13	14.29	8	7.47	7	6.82
Command Area Development	25	319.15	17	285.50	8	33.65
Total(#)	40	333.48	25	292.97	17	40.51

(#) Due to partial receipt of UGs

CHAPTER - VI

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

STATUTORY BODIES:

6.1 BRAHMAPUTRA BOARD:

6.1.1 Constitution: The Brahmaputra Board was constituted in 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 in Brahmaputra and Barak Valley and for matters connected therewith. It started functioning since January 11, 1982 with headquarters at Guwahati, Assam. The jurisdiction of the Board includes the Brahmaputra and Barak Valleys and rivers of Tripura. As initially notified under the Act, the states of Arunachal Pradesh, Assam, and Meghalaya, parts of the states of Manipur, Mizoram, Nagaland, Tripura were included in the jurisdiction. The jurisdiction has been extended in June, 2006 to include Sikkim and a part of West Bengal falling within the Brahmaputra Basin.

6.1.2 Major functions: The main function of the Board as per the Act is survey and investigations in the Brahmaputra Valley and preparation of Master Plans for the control of flood and bank erosion and improvement of drainage giving due importance to the development and utilization of Water Resources of the Brahmaputra Valley for irrigation, hydropower, navigation and other beneficial purposes. Other functions include preparation of Detailed Project Reports (DPR) and estimates of projects proposed in the Master Plans as approved by the Central Government and construction of Multipurpose Dams and other works proposed in the Master Plans as approved by the Central Government.

6.1.3 During the Year 2010-11 Brahmaputra Board has continued the detailed planning and documentation of the Water Resources of North East Region and prepared the Master Plan. Ministry of Water Resources, Government of India has approved 1 no. of Sub-basin Master Plans for Baroi Sub-basin as prepared by Brahmaputra Board. Brahmaputra Board has sent the master plan to State Governments for implementation.

6.1.4 The Brahmaputra Board has taken up anti-erosion works at Majuli Island in the year 2003-04 as immediate measures at an estimated cost of Rs. 5.92 crores and completed in 2004-05. These works were followed by regular protection works under Phase-I and works are nearing completion (estimated cost Rs. 56.07 crores). The Brahmaputra Board also executed emergent works (Rs. 4.99 crores) for protection of Majuli Island on the recommendations of Standing Committee of Experts in 2008. The Board is presently executing the Phase-II and Phase-III works (Rs. 115.03 crores) combined together.

6.1.5 In order to bring the Lohit and Dibang rivers to their original courses, the works were taken up by Brahmaputra Board in phases in 2003-04. These phases of works viz. Phase-I (Rs.10.47 crores), Phase-II (Rs.4.95 crores) and Phase-III (Rs.8.47 crores) were completed by 2007-08. The Phase-IV works (Rs. 23 crores) are under progress.

6.1.6 The Brahmaputra Board has taken up the execution of seven numbers of Drainage Development Schemes (DDS) viz. Harang (Rs. 30.49 crores), Barbhag (Rs. 7.23 crores), Amjur (Rs.18.84 crores), Jengrai (Rs.1.49 crores), Jakaichuk (Rs. 2.96 crores), East of Barpeta (Rs. 1.34 crores) and Singla (Rs. 3.54 crores). The progress made on execution of these schemes is 98%, 28.24%, 16%, 27%, 45%, 42% and 3% respectively.

6.1.7 Brahmaputra Board is engaged in monitoring of schemes under execution by North Eastern states under flood management programme in which financial assistance is provided to the states by central Governments.

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 Government of India on 2nd June, 1990 to adjudicate the water dispute regarding 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. Party states have filed special leave petitions in the Hon'ble Supreme Court against the decision dated 5.2.2007 of the tribunal. Hon'ble Supreme Court. 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 Tribunal sitting was held on 10.07.2007. The Hon'ble Tribunal after observing the party States 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 preliminary hearing of SLP was held before the Hon'ble Supreme Court of India on 12th May, 2009 and on 20.09.2009. The matter is under consideration of Hon'ble Supreme Court. The terms of the tribunal has been extended by the Govt. upto 2.11.2011.

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. The term of KWDT was extended upto 01.04.09 as per the provisions of ISRWD Act, 1956. Meanwhile, in the Writ Petition filed by the Govt. of A.P., Hon'ble S.C. has ordered that the effective date of constitution of the tribunal will be 01.02.06. Consequently the term of the tribunal has been extended up to 31.12.2010.

6.4.2 The Tribunal forwarded its report and decision under section 5 (2) of the Act on 30.12.2010. Party states and Central Govt. can make reference to the tribunal seeking clarification and guidance from the tribunal on the report and decision of tribunal dated 30.12.2010 within 3 months and in that case, the tribunal shall forward a further report.

6.5 Vansadhara Water Dispute Tribunal

6.5.1 The Vansadhara Water Dispute Tribunal (VWDT) was constituted by the Govt. of India on 24th Feb. 2010 to adjudicate the water dispute regarding inter state river Vansadhara and river Valley thereof.

6.6 Mahadayi Water Disputes Tribunal

6.6.1. The Mahadayi Water Disputes Tribunal (MWDT) 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 water rich areas to water deficit areas in the country which comprises of two component, namely Himalayan River Development Component and Peninsular River Development Component. National Water Development Agency (NWDA) was setup under Ministry of Water Resources in July, 1982 as Registered Society under the Societies Registration Act, 1860 for carrying out various technical studies to establish the feasibility of the proposals of NPP and to give concrete shape to it.

6.7.2 The objectives of National Water Development Agency, as amended from time to time are:

- a) To carry out detailed surveys and investigations of the possible reservoir sites and interconnecting links in order to establish feasibility of the proposal of Peninsular Rivers Development and Himalayan Rivers Development Components forming part of National Perspective Plan 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 quantum of water in various Peninsular River Systems and Himalayan River Systems and which can be transferred to other basins/States after meeting reasonable needs of basin States in the foreseeable future.
- c) To prepare feasibility reports of various components of the schemes 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 report and DPRs of the intra-state links as may be proposed by the States.
- 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 6 links under Himalayan Component have been completed. Pre-Feasibility Reports (PFRs) of 12 intra state links proposed by states have also been completed.

6.7.5 An expenditure of Rs. 23.88 crore was incurred by NWDA on ILR programme during 2010-11 (upto Nov. 10). Various studies were continued by NWDA during the year. Further, Detailed Project Report (DPR) of Ken-Betwa link was completed and sent to the state government of UP and MP for comments. Now as per the proposal of the Govt. of MP, the DPR of Ken-Betwa link is envisaged to be prepared in two phase. DPR of phase –I has been completed and sent to the state Govts and DPR of phase – II has been taken up and that of two more links namely Par-Tapi-Narmada and Damanganga-Pinjal were continued during 2009-10.

6.7.6 During the year 2011-12, an outlay of Rs. 41.00 crore has been proposed to be provided for NWDA. NWDA would continue to do Survey & Investigation required for ILR programme and preparation of DPR of above two links. Further, it is planned to

complete Survey & Investigation works of 4 links in Himalayan Component (Indian Portion).

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. The Institute is fully aided by the Ministry of Water Resources, Govt. of India.

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 (ten States to be nominated for every three years by the President of the Society), the Secretaries of Ministries in the Government of India concerned with water and related areas, and eminent experts in hydrology and water resources are members of the Society. The Secretary, Ministry of Water Resources, Government of India, 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), headed by the Chairman, Central Water Commission. The Director of the Institute is appointed by the Government of India and is the Principal Executive Officer of the Society.

6.8.4 The Institute has set up six regional centers in order to deal with the area specific hydrological issues of different regions in the country and for providing effective interaction with the States in the region. These Centres are: Hard Rock Regional Centre (Belgaum), Western Himalayan Regional Centre (Jammu), Deltaic Regional Centre (Kakinada); Ganga Plains Regional Center (Sagar), Centre for Flood Management Studies for Brahmaputra basin (Guwahati), and Centre for Flood Management Studies for Ganga basin (Patna). 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 five scientific themes at the Headquarters are: i. Environmental Hydrology, ii. Ground Water Hydrology, iii. Hydrological Investigations, iv. Surface Water Hydrology, and v. Water Resources Systems. The Institute has a Research Coordination and Management Unit (RCMU), which provides the interface with various research and academic institutions. The Institute has established 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 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. The Institute vigorously pursues capacity development activities by organizing training programmes for field engineers, scientists and researchers, NGOs. NIH has so far completed more than 150 sponsored research and consultancy projects- the sponsors included Indian Army, PSUs, Planning Commission, National Productivity Council, State Government Departments, and central ministries of Science & Technology, Environment & Forests, Agriculture, Rural Development, etc. The Institute has undertaken a number of internationally funded projects, including those from UNDP, USAID, UNESCO, The World Bank, The Netherlands, Sweden, European Union. The Institute is presently participating in the World Bank funded Hydrology Project Phase-II.

6.8.6 Some of the significant contributions of NIH include studies for solution of real-life problems related to augmentation of water supply and water management in cities, glacier contribution in stream flow of Himalayan rivers for hydro-electric power projects, watershed development, water quality management plan for lakes, watershed development, storm water drainage network in cities, flood inundation mapping and flood risk zoning, and water quality assessment in major cities.

6.8.7 Studies and Research

The studies and research in the Institute are being carried out broadly under the following major categories:

- Basic studies and research
- Applied studies and research
- Software development
- Field and laboratory oriented and strategic research
- Sponsored research

6.8.8 The Institute is presently focusing studies and R&D on the following thrust areas: impact of climate change on water resources, water resource planning and management; ground water modeling and management; flood and drought management, prediction of discharge in ungauged basins, hydrology of extremes, reservoir/lake sedimentation, and water quality assessment in specific areas. NIH is actively pursuing the IEC activities and mass awareness programmes of the Ministry of Water Resources. NIH works as a nodal centre of the Ministry for effective implementation of the National Water Mission.

6.8.9 The Institute is hosting the Secretariat of INCOH, which is also the nodal agency in India for the International Hydrology Programme of UNESCO. INCOH supports funding of R&D projects and sponsorship of seminars, symposia, workshops, etc. NIH proactively facilitates functioning of the Indian Association of Hydrologists.

6.8.10 Technical Publication and Technology Transfer: The research output of the Institute is published in the form of reports and peer reviewed scientific papers. The Institute also prepares other documents, e.g. guidelines, manuals, state-of-art reports.

6.8.11 One of the main objectives of the Institute is to transfer the developed technology to the target users. Besides wide dissemination of reports and research papers, organization of workshops, training courses, seminars, symposia, conferences, brain storming sessions, etc. have been major activities under the Technology Transfer Programme.

6.8.12 Performance during 2010-11 and targets for the year 2011-12 are shown below:

Sl. No.	Description of Item	Physical target for 2010-11	Achievement During 2010-11 (upto Dec 2010)	Target for 2011-12
1	Completion of physical/ mathematical model/desk studies/Lab. Studies	55	44	55
2	Preparation of technical reports/ studies completed	27	17	25
3	Publication of research papers	174	146	170
4	Preparation of guidelines /manuals	1	1	2
5	Organization of workshops /seminars/ symposia	15	16	15
6	Training of Personnel	15	12	15
7	Technology transfer activity	8	10	10

An expenditure of Rs 6.44 crore and Rs 4.19 crore has been incurred under R&D Programme and Hydrology Project-II, respectively, till December 2010.

PUBLIC SECTOR UNDERTAKINGS:

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

6.9.1. WAPCOS Limited is a Schedule ‘B’ “MINI RATNA Category-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 9001:2000 for Consultancy Services in Water Resources, Power and Infrastructure Development Projects, as certified by Indian Register Quality Systems.

6.9.2 MISSION: WAPCOS’ Mission is “Sustained profitable growth through excellence in performance, total client satisfaction, innovativeness and State-of-the-art technical expertise”.

6.9.3 OBJECTIVES: The objectives of the Company are:

- (i) 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.
- (ii) To adopt modern technology and systems to build in quality, reliability and accuracy thereby ensuring a high degree of customer satisfaction.
- (iii) To continue the pace of growth of domestic and overseas business and to transfer know-how to other developing nations.
- (iv) 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.
- (v) To promote research and development actively through interaction with other national and international agencies.
- (vi) To maintain pre-eminence in the field of consultancy through diversification into areas of new challenges and needs in associated fields.
- (vii) To secure a fair monetary return to the enterprise as a result of its operations through improved productivity and optimization.
- (viii) To play a dynamic role in realizing the potentials by state-of-the-art consultancy in innovative design alternatives.
- (ix) To specialise and attain the highest level of International Standards in providing Consultancy Services.
- (x) To attract the best available talent and promote a committed and motivated workforce.
- (xi) Increase in business growth and effective business management.
- (xii) To gain total client satisfaction.
- (xiii) To promote WAPCOS as a Brand Name.

6.9.4 FIELDS OF SPECIALISATION: Main fields of specialisation 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. The Company has amended objects clause of its Memorandum of Association to provide concept to commissioning services for developmental projects in India and Abroad.

6.9.5 SPECTRUM OF SERVICES: WAPCOS' spectrum of services covers a wide range of activities viz. Preliminary Investigations/Reconnaissance, Field Surveys and Investigations, Feasibility Studies/ Planning/ Project Formulation, Engineering Designs, Drawings and Tendering Process, Project Management, Operation and Maintenance, Project Implementation, Institutional/Human Resources Development.

6.9.6. REGISTRATION WITH INTERNATIONAL ORGANISATIONS AND OPERATIONS ABROAD: WAPCOS is registered with various international funding agencies 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) etc. WAPCOS is currently engaged in providing consultancy services in Afghanistan, Bangladesh, Bhutan, Cambodia, DR Congo, Laos, Myanmar, Nepal, Nigeria, Rwanda, Taiwan and Zimbabwe. In India, WAPCOS is providing Consultancy Services in almost all States and Union Territories.

6.9.7. IMPORTANT ONGOING PROJECTS IN INDIA AND ABROAD

Some of WAPCOS' important projects are:-

ABROAD

- (i) Reconstruction and Rehabilitation of Salma Dam Project, Afghanistan.
- (ii) Sudan Emergency Transport and Infrastructure Development Project-first ever project by an Indian PSU in Sudan.
- (iii) Development and Hygiene Education, Development of Dry Pit Latrines Designs for Local conditions for households & schools and development studies for Flood Areas and Solid Waste Management in Xai-Xai, Chokwe, Inhambane and Maxixe Municipalities, Mozambique.
- (iv) Stung-Tasal Water Resources Development Project, Cambodia.
- (v) Project Management of Transmission line from Kartie to Sta-Treng, Cambodia.

- (vi) Project Management Consultancy for Rehabilitation of West Baray Irrigation Project, Cambodia.
- (vii) Project Management of Nam song hydropower project & 115kV Transmission line and Purchase of Equipment for Rural Electrification Phase – 2, Laos.
- (viii) Development of six Irrigation Schemes in Champassak, Laos.
- (ix) Project Management of Punatsangchhu-I Hydro Electric Project, Bhutan
- (x) Detailed Project Report for Punatsangchu-II Hydro Electric Project, Bhutan
- (xi) Detailed Project Report for Arun-III Hydro Electric Project, Nepal
- (xii) Detailed Project Report for Mini Hydrel Projects, Myanmar

INDIA

- (i) Design and Supervision Consultancy for Kochi, Thrissur and Kozhikode under Kerala Sustainable Urban Development ADB Funded Project- The largest consultancy project secured by WAPCOS in India since inception
- (ii) Planning, Survey, Design and Macro/Micro Canalization of Sardar Sarovar Project, Gujarat
- (iii) Quality Monitoring and Inspection of projects sanctioned under Rajiv Gandhi Gramin Vidyut Yojana in Uttarakhand, Himachal Pradesh, Punjab, Haryana, Rajasthan, Madhya Pradesh and Chhattisgarh
- (iv) Project Monitoring & Construction Supervision including Quality Control for Sewerage Projects under Jawaharlal Nehru National Urban Renewal Mission in Kerala and Madhya Pradesh
- (v) Independent Review and Monitoring Agency for Projects being taken under Jawaharlal Nehru National Urban Renewal Mission in Rajasthan, Madhya Pradesh and Haryana
- (vi) Master Plan for Damodar Valley River Scheme, West Bengal
- (vii) Supervision & quality monitoring services for Pradhan Mantri Gram Sadak Yojana works, Gujarat
- (viii) Mathematical Model Studies for revalidation of River Regulatory Measures of Kolkata Port Trust, West Bengal
- (ix) Detailed Project Reports for Hydro Electric Projects in Uttarakhand, West Bengal, Madhya Pradesh, Chhattisgarh and Andhra Pradesh
- (x) Detailed Project Report for Tidal Energy Project, West Bengal
- (xi) Preparation of Master Plan and detailed project report for Kalighai-Kapaleswar-Baghal Drainage Basin, West Bengal
- (xii) Engineering Consultancy & Supervision of Turnkey work including Project Monitoring in connection with surface water based piped water supply schemes for Arsenic affected areas, West Bengal

6.9.8. The Company earned a net profit of ` 30.03 crore during the year 2009-10.

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. The Corporate Office

of the Company is situated at Faridabad and its Registered Office is at New Delhi. Presently, it has 14 Zonal offices situated at Kolkata, Bhubneshwar, Guwahati, Silchar, Shillong, Raipur, Mumbai, J&K, Bangalore, Patna, Ranchi, Lucknow, NCR Delhi and Dehradun. At present, it has 95 operational Units and the total manpower of the Company is 1777.

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 the year 2005, the financial position of the Company deteriorated sharply.

6.10.3. The Government approved the revival proposal for conversion of the Govt. of India principal amount of ` 219.43 Crore and the cumulative interest due & accrued on it as on the date of conversion to equity capital and further written down to 10% of value. GOI principal amount & cumulative interest has been converted into equity and the reduction in share capital as per decision of the CCEA has also been effected. As a result, the authorized share capital of the Company is ` 700 crore and its paid up capital is ` 94.53 crore now. Out of this, 14 State Governments and Union Territories are shareholders for an amount of Rs.1.05 crore and the rest of the share capital rest with the Central Govt.

6.10.4. The projects taken up by the Company included (i) IBB Fencing & Lighting Works, Road works at Tripura, Mizoram, Assam & Meghalaya, (ii) Assam Rifle 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 etc. The existing business operational pattern is likely to be maintained during the year 2011-12 with innovative diversification.

6.10.5. The Company registered Net Profit of ` 31.28 crore during the financial year 2009-10.

ANNEXURE-I

Ministry of Water Resources

Performance of 2009-10

(Rs. in crore)

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2009-10	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.3.2010	Remarks
1	2	3	4	5	6	7	8
1.	Development of Water Resources Information System	(i) To collect data from network of Hydrological Observation stations for overall assessment of water resources and analysis of their characteristics (ii) Collection of information about minor irrigation through MI Census (iii) To establish infrastructure and launch the water resources information system.	70.00	(i) Continued hydrological observation at 878 site, (ii) development of water resources information system, (iii) continued activities for MI Census	Activities to continue throughout the year.	(i) Observation of data for 878 sites including 371 water quality observations sites continued. (ii) Activities continued for development of water resources information system. (iii) Reports of 53 projects received from NRSC, Hyderabad on the remote sensing monitoring of AIBP assisted MMI projects. (iv) About 99% field work completed in 33 states/UTs and 93.75% scrutiny and data entry completed.	
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	52.00	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:	The work is to be implemented by various organizations of the Ministry.	Research / Technical reports - 290 Research papers - 282 Training and workshop - 44	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2009-10	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.3.2010	Remarks
1	2	3	4	5	6	7	8
		sciences, i.e. NIH, CW&PRS and CSMRS. Specific research/studies by CWC are also supported under the scheme. Assistance is also provided for research studies to WALMIs located in various States and Academic institutions for research & development in the field of Water Resources.		(a) Research Reports = 311 (b) Research Papers = 280 (c) Training workshops = 31			
3	National Water Academy	Training for in service Engineers / Induction Engineers in Water Resources Planning, Development and Management	2.60	37 Training Programmes	Annual training schedule prepared	37 Training Programme completed.	
4	Dam Safety Studies and Planning	(i). Instrumentation Museum in CWC (ii) Preparation and digitization of PMP atlases of 4 Basins and 6 Regions (iii) Development of Environmental and Social Management Framework through Environmental and Social Assessment Studies of 10 existing projects (iv) Risk Analysis	1.00	(i). Setting up of Management Information System (MIS) for Dam Safety – 3/2010. (ii). Preparation of generalized PMP Atlas and updation of PMP Atlases and digitization of PMP Atlases- 3/2010. (iii). Models/fixtures for Instrumentation Museum – 3/2010.	Indicated in column 5 alongwith each item.	(i) For preparation of generalized PMP Atlases, consultant for Ganga & Brahmaputra basins and up gradation of PMP Atlases, a notice for Expression of Interest (EOI) has been floated at DAVP rate in leading news papers. (ii) Procurement of Models / fixtures for Instrumentation Demonstration Centre has been entrusted to CSMRS, New Delhi.	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2009-10	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.3.2010	Remarks
1	2	3	4	5	6	7	8
		and Other Specialised Studies of some existing Projects (v) Training and Development of special purpose packages on Dam Safety Activities.					
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	38.10	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 40 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) All the 4 major consultancies are in place and supporting the implementing agencies. (b) Generic model for DSS-P is under development. (c) Model development for DSS-RT is in progress. (d) The work on the PDSs is under progress. (e) IAs have progressed well on institutional strengthening by procuring hardware/software and up-gradation of infrastructure.	
6.	Investigation of Water Resources Development Schemes	Carrying of investigation in respect of identified projects for water resources development	42.00	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	a) The detailed report of 10 HE projects in Arunachal Pradesh completed.. b) The work on investigation of Water Resources Projects including ILR projects is being continued. The work for preparation of DPR of Par Tapi Narmada & Daman Ganga Pinjal Links continued d) S&I works in Indian Territory for preparation of FR in respect of 5 links under Himalayan Component of NPP completed. e) PFR of 3 Intra state links completed.	
7.	Pagladiya Dam Project	Flood Control, Irrigation & Ancillary Power Generation	0.50	Project is yet to be taken up due to non-completion of Zirat survey. Pre-construction activities to continue.	Activities to be implemented by Brahmaputra Board	Main construction activity of the project has not started due to non completion of the Zirat survey by the Government of Assam and the work is held up. Only normal R&M works for the assets created for the project are maintained with skeleton staff.	
8.	River Basin Organisation/ Authority	The scheme is to encourage formulation of	1.00	The creation of RBO has to be preceded by consultations with State		Ministry has sent proposal to the concerned states for constitution of the RBO for Mahanandi & Godavari rivers. The response of the state Government has not been	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2009-10	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.3.2010	Remarks
1	2	3	4	5	6	7	8
		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.		Governments. Process of consultations was to be initiated during this year. A token provision has been kept in this regard.		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.	15.00	(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.	Procurement of consumables and peripherals, AMC of IT equipment, expansion of Local Area Network, procurement of server, training on IT aspects has been completed in Ministry (Proper) and CWC. Construction work of CWC buildings/ hutments/ boundary walls and land acquisition, as required in field offices of CWC are in progress. Land acquired at Ahmedabad, Guwahati, Bangalore, Ambala, Bhopal & Jammu and construction work for Boundary Wall at Bangalore, Ambala & Guwahati of CGWB are completed.	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.
10.	Flood Forecasting.	To maintain the network of Hydrological observations sites across the country by CWC covering 20 river basins to provide	25.00	Collection of real time data, its analysis and issue of flood forecasts. About 6000 forecasts are issued every year.	Implemented by Central Water Commission throughout the year.	A total of 4010 flood forecasts were issued out of which 3927 were within permissible limits of accuracy.	-NIL-

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2009-10	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.3.2010	Remarks
1	2	3	4	5	6	7	8
		timely flood forecasts at 175 stations to the local administration.					
11.	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 banks along river Ganga and its tributaries to train the river along main barrage.	70.00	(i) Maintenance of Farakka Barrage Project and its appurtenant structure including feeder canal, Jangipur Barrage 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..	Implemented by Farakka Barrage Project. Activities continued throughout the year.	(i) Maintenance of Farakka Barrage, its appurtenant structures & anti-erosion works along river Ganga – Padma & its tributaries were continued, as per requirement. (ii) Anti-erosion works in a length of 2883m, amounting to Rs. 46 crore were completed	-NIL-
12.	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 & Drainage development works by Brahmaputra Board. Maintenance of flood protection works of Kosi and Gandak Projects (in Nepal).	199.30	(i) Continuation of Joint Hydrological observations on river Ganga with Bangladesh, and (ii) Preparation of Joint Detailed Project Reports (DPR). (iii) Anti-erosion & Flood protection works of Majuli Island. (iv) Transmission of flood related data from / to neighboring countries, (v) Development works on common/border rivers. (vi) Desilting of River Ichhamati along international border with Bangladesh.	Implemented by Central Water Commission, Ganga Flood Control Commission, Brahmaputra Board and State Governments of Bihar, Uttar Pradesh, Tripura, West Bengal & Jammu & Kashmir.	(i) Survey & Investigation of Pancheswar and Saptakosi projects* (in Nepal) continued. (ii) Flood related data transmitted to Bangladesh. (iii) Joint Hydrological observations on river Ganga with Bangladesh continued as per Treaty of 1996. (iv) Anti-erosion & Flood protection works of Majuli Island continued. (v) Breach closure works of Kosi embankment completed. Rs. 37.65 crore released further to Govt. of Bihar for this work. (vi) Rs. 12.51 crore and Rs. 17.51 crore released to Govt. of Tripura and West Bengal respectively for flood protection works along Bangladesh border.	* Works delayed due to law & order problem in Nepal.

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2009-10	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.3.2010	Remarks
1	2	3	4	5	6	7	8
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.	900.00	(i) River Management works in the critical areas. (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 is being provided to the State Governments on submission of detailed project proposals. The new proposals are considered by a Committee headed by Secretary (Expenditure) for release of the central assistance.	(i) A total of 26 proposals amounting to Rs. 768.24 crore submitted by 10 states were included for providing central assistance. (ii) Funds amounting to Rs. 902.16 crore (including Rs. 1.30 crore for spilled over works of X plan) were released to States. (iii) A total of 117 schemes were completed by the State Governments during the period.	
14.	Ground Water Management & Regulation	i). Ground Water Management Studies to prepare ground water management plan ii) Ground Water exploration utilizing scientific tools viz. Remote sensing and GIS, Geophysical surveys aided by drilling to locate	82.00	<ul style="list-style-type: none"> Ground Water Management studies-1.50 Lakh Sq. Km. Ground Water Exploration - 830 Wells Ground Water Exploration through Outsourcing - 796 	<p>One year</p> <p>One Year</p> <p>4 times in a year</p>	<p>1.52 Lakh Sq.Km. (Pre-monsoon)</p> <p>1.50 Lakh Sq.Km. (Post-monsoon)</p> <p>790Wells*</p> <p>*1.Due to law & order problem (J&K) 2. Frequently repairs of old rigs</p>	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2009-10	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.3.2010	Remarks
1	2	3	4	5	6	7	8
		<p>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> <p>viii) Regulation of Ground Water development by Central Ground Water Authority.</p> <p>ix) Artificial</p>		<ul style="list-style-type: none"> Monitoring of Ground Water Observation wells – 15640 Short term water supply investigations – As per request <p>Geophysical Survey a) Surface VES=2000 & Profiling Line Km. = Need Based b) Sub-Surface Bore hol logging = Need Based</p> <ul style="list-style-type: none"> Analysis of water samples – 20000 Preparation of District reports-40 Ground Water Year Books-23 State Reports-7 State Atlas-3 Ground Water Exploration Reports-17 State Geophysical Report-18 State Chemical Report-18 <p>Regulation of ground water development in notified areas by CGWA</p> <p>8 Demonstrative project for Artificial Recharge studies in five states(Punjab, NT, Kerala, Arunachal Pradesh and West</p>	<p>One year</p> <p>One year</p> <p>One year</p> <p>One year</p> <p>Two years</p> <p>Two years One year</p> <p>One year</p> <p>2-3 years</p>	<p>Monitoring of May, August, November 09 & January 2010 completed</p> <p>121</p> <p>Surface VES=1691 Profile.=1.48 LKM. Borehole Logging=100</p> <p>26 district reports submitted & 2 reports issued</p> <p>23 GWY Books submitted & issued 2 State reports completed</p> <p>12 State Geophysical reports completed 12 State Chemical reports completed</p> <p>Total= 15780 a) Basic Analysis=13400 b) Heavy Metal = 1790 c)Organic = 103 d)Specific = 487</p> <p>Regulated GW development in notified areas-Continuing</p> <p>Impact assessment of ongoing & completed schemes – Continued</p>	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2009-10	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.3.2010	Remarks
1	2	3	4	5	6	7	8
		recharge studies including construction of Artificial Recharge structures for replicating the same by State Govt. and other agencies.		Bengal).		Demonstration studies of Artificial Recharge & Rainwater Harvesting – 166 recharge structures completed in four states.	
15.	Rajiv Gandhi National Ground Water Training & Research Institute.	Training of CGWB and other Central/ State Govt. officers and staff on ground water aspect	2.00	16 Training Courses	One year	19 training courses including one special course were completed on different topics at various places. 340 participants from CGWB and State Govt. organizations attended	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2009-10	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.3.2010	Remarks
1	2	3	4	5	6	7	8
16.	Information, Education and Communication	(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,	12.00	To create awareness among the people to provide education for sustainable development and utilization of water resources	Continuing activity	<p>During the financial year 2009-10, an amount of Rs. 12 crore had been allocated.</p> <p>An amount of Rs. 10,27,12,00/- was spent on various mass awareness activities including expenditure of Rs. 79,20,000/-, Rs.93,700/- and Rs.20,206/- in the form of Grant-in-Aid, Office Expenses and PPSS. Under the sub-head Advertisement and Publicity the following activities had been undertaken :-</p> <p>1. Electronic Media Campaign for mass awareness on water conservation –</p> <ul style="list-style-type: none"> * Electronic Media Campaign was initiated on National, regional and DD news channels of Doordarshan w.e.f. 10.9.2009 to telecast video spots on water conservation. Simultaneously, the scrolls of messages on water conservation were also run on Doordarshan news channel w.e.f. 15.9.2009. * The FPARP film produced during the FY 2008-09 was edited and translated into different languages for its use in electronic media campaign. * Electronic media campaign through telecast/broadcast of video/audio spots initiated through Lok Sabha TV. FPARP film was telecast on Lok Sabha TV. * Electronic Media Campaign was initiated on National News, Primary Channel/LRS(188 stations), Vividh Bharti National(40 stations) and FM Channels of All India Radio during Feb.&March, 2010 to broadcast audio spots on water conservation. <p>2. Print Media Campaign –</p> <ul style="list-style-type: none"> * Advertisements on water conservation published in Hindu magazine and SAR Economist magazine in the month of June, 2009. * Advertisements were released in various newspapers published from State capitals for propagating rainwater harvesting during monsoon period. * An advertisement depicting policies and programmes of the Ministry and achievements thereunder was released on the occasion of Independence Day in 47 newspapers published from State capitals. * An advertisement was released from State capitals on the Occasion of National Integration Day on 19.11.2009. 	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2009-10	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.3.2010	Remarks
1	2	3	4	5	6	7	8
		<p>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>* An advertisement propagating measures of water conservation was released on the occasion of 5th Asian Regional Conference in newspapers publishing from State capitals on 7.12.2009 and 10.12.2009.</p> <p>* An advertisement depicting scheme for Repair, Renovation and Restoration of Water Bodies was released on 07.03.2010.</p> <p>* An advertisement was released on the occasion of World Water Day on 22.03.2010.</p> <p>3. Workshops/Seminars/Conferences –</p> <p>* A workshop on Remote Sensing was organised on 18.5.2009 at MoWR, New Delhi.</p> <p>* A workshop on Strategies for Water Conservation and Artificial Recharge Improving Water Use Efficiency was organised for the benefit of Armed Forces at Kargil on 9th June, 2009.</p> <p>* Another workshop on Integrated Water Resources Management was organized at Gangtok, Sikkim on 27.11.2009 for the benefits of Armed Forces.</p> <p>* Organisation of Conference of Principal Secretaries/Secretaries of State Governments and Heads of WALMIs/IMTIs in association with CADWM Wing on 13.11.2009.</p> <p>* A workshop on Integrated Water Resources Management was organized at Jodhpur on 15.01.2010 for the benefits of Armed Forces.</p> <p>* Organisation of workshop with field visit in association with CADWM Wing in March, 2010 to demonstrate model/reform in water resources sector of the Government of Andhra Pradesh for benefits of officers and farmers.</p> <p>4. Participation in Fairs/Exhibitions –</p> <p>* Participated in ASOM International Trade Fair held at Guwahati from 7th – 19th October, 2009.</p> <p>* Participated in SAARC Trade Fair held at Thimpu, Bhutan from 11th – 14th September, 2009</p> <p>* Ministry and its organisations participated in IITF-2009 at New Delhi from 14th to 27th November, 2009 through erection of pavilion, models on water conservation to spread awareness amongst masses for water conservation and management.</p>	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2009-10	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.3.2010	Remarks
1	2	3	4	5	6	7	8
						<ul style="list-style-type: none"> * Participation in Kumbh Mela by NIH on behalf of the Ministry through traditional media, electronic display board, local cable network, local newspapers etc. <p>5. Display of backlit translikes etc. –</p> <ul style="list-style-type: none"> * A backlit translike on Dos and Don'ts on Water Conservation has been fixed at the main entrance near Reception of Ministry of Water Resources at Shram Shakti Bhawan. * Putting of display board at Delhi Metro Stations. <p>6. Organisation of Water Resources Day –</p> <ul style="list-style-type: none"> * Water Resources Day was organised by CGWB in association with Engineers India Limited at Guwahati in the month of May, 2009 with Grant-in-Aid from IEC Scheme. * Organisation of World Water Day on 22nd March, 2010 at Regional Offices of CWC and CGWB, GFCC, NWA and in the Ministry. 	
17.	Repair, renovation and restoration of water bodies.	Restore and augment the capacity of water bodies to recover and expand their irrigation potential , Improve-ment of agriculture/ horticulture productivity, Development of tourism, Cultural activities, increased availability of drinking water.	399.00	Under RRR Scheme with domestic support one lakh water bodies will be covered with CCA of 9 lakh ha. organizations /consultants.	These schemes are being continued	<p>(i) Pilot Scheme completed in 1055 water bodies in 26 district projects.</p> <p>(ii) Funds to the tune of Rs.72.12 crore to Orissa and Rs.74.04 cr. to Karnataka released during 2009-10. Under Domestic support.</p>	

ANNEXURE-II

Ministry of Water Resources

PERFORMANCE OF 2010- 11(up to December 2010)

(Rs. in crore)

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2010-11	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.12.2010	Remarks
1	2	3	4	5	6	7	8
1	Development of Water Resources Information System	<p>(a) Creation of Watershed Atlas and development of web enabled Water Resource Information System of the country at 1:50000 scale.</p> <p>(b) To provide support to Water Quality Assessment Authority and implement identified studies / programme for water quality assessment</p> <p>(c) To develop snow melt run off model for Yamuna & Chenab basin of asessment of snow melt contribution in the river below for efficient water managment and optimum utilisation particularly during lean season.</p> <p>(d) Collection and publication of Water Quality data ,</p> <p>(e)To collect data from network of hydrological observation stations for overall assessment of water resources and analysis of their characteristics</p> <p>(f) Monitoring of selected ongoing Major, Medium & ERM irrigation projects throughout the country including AIBP and CAD projects.</p> <p>(g) Fourth Minor Irrigation Census</p>	66.00	<p>(a) The Water Resources Information System (WRIS) website will be expanded/updated further with 30 GIS layers.</p> <p>(b) Observation of data for 878 hydrological observation sites and collection of other water related data to continue.</p> <p>(c) Long term data collection at snow observatories, G&D sites and development of snow melt runoff models.</p> <p>(d) Number of visits to projects for monitoring purposes.</p> <p>(e) Collection of field data for fourth Minor Irrigation Census 4th and processing of the same will be completed.</p>	Activities to continue throughout the year.	<p>(a) 1st phase of Water Resources Information System (WRIS) was launched on 07.12.2010.</p> <p>(b) Observation of data for 878 sites including 371 water quality observations sites completed.</p> <p>(c) Project for assessment of irrigation potential by remote sensing approved. MOU for carrying out the work signed with NRSC.</p> <p>(d) A mission document on "National Ground Water Quality Monitoring" has been prepared and an independent web portal has been created.</p>	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2010-11	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.12.2010	Remarks
1	2	3	4	5	6	7	8
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	54.00	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 - 237 Training and workshop - 32	
3	National Water Academy	Training for in service Engineers / Induction Engineers in Water Resources Planning, Development and Management	4.00	35 Training Programmes.		a) 23 Training Programme completed upto November 2010	
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 upgradation of Atlases prepared under DSARP (c) Setting up of Instrumentation Demonstration Centre (d) Training and Development of special	1.50	(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 Atlases		Revised requirement & specifications finalised and issued to CSMRS, (ii) work awarded to M/s. RMSI Pvt. Ltd Noida and the implementation is under progress.	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2010-11	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.12.2010	Remarks
1	2	3	4	5	6	7	8
		propose packages on Dam Safety.					
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	53.00	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) All the 4 major consultancies are in place and supporting the implementing agencies. (b) Generic model for DSS-P is advanced stage of completion. 17 officers have undergone training at DHI, Denmark. (c) Model development for DSS-RT is in advanced stage. 8 officers have undergone training at DHI, Denmark (d) Inception Report and State of Art Report have been submitted in respect of HDA.	
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	a) The work on investigation of Water Resources Projects including ILR projects is continued. The work for preparation of DPR of Par Tapi Narmada & Daman Ganga Pinjal Links continued b) S&I works in Indian Territory for preparation of FR in respect of 1 links under Himalayan Component of NPP completed. c) PFR of 4 Intra state links completed. d) Alternate alignment of Jogigappa-Teesta-Farraka link firmed up .	
7.	Pagladiya Dam Project	Flood Control, Irrigation & Ancillary Power Generation	0.50	No activities at present location. However, Brahmaputra Board is exploring the alternative site at upstream of existing site. Only normal R&M works for the assets created for the project are maintained with skeleton staff.	Activities to be implemented by Brahmaputra Board	Main construction activity of the project has not started due to non completion of the Zirat survey by the Government of Assam and the work is held up. Only normal R&M works for the assets created for the project are maintained with skeleton staff.	
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	0.50	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 response of the state Government has not been received. The matters is being pursued with the concerned states.	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2010-11	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.12.2010	Remarks
1	2	3	4	5	6	7	8
		appropriate alternative for optimum utilisation of resources and meeting the aspirations of all state-holders.					
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.	28.50	(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.	Procurement of consumables and peripherals, AMC of IT equipment, expansion of Local Area Network, procurement of server, training on IT aspects has been completed in Ministry (Proper) and CWC. Construction work of CWC buildings/ hutments/ boundary walls and land acquisition, as required in field offices of CWC are in progress. Land acquired at Ahmedabad, Guwahati, Bangalore, Ambala, Bhopal & Jammu and construction work for Boundary Wall at Bangalore, Ambala & Guwahati of CGWB are completed.	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.
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 7508 forecasts were issued.	
11.	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 banks along river Ganga and its tributaries to train the river along main barrage.	82.00	(i) Maintenance of Farakka Barrage Project & its appurtenant structure including feeder canal, Jangipur Barrage 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.	Implemented by Farakka Barrage Project. Activities continued throughout the year.	(i) Maintenance of Farakka Barrage & its appurtenant structures & anti-erosion works along river Ganga – Padma & its tributaries were taken up as per requirement. (ii) Anti-erosion works in a length of 1130 m amounting to Rs. 17.00 Crore were executed.	
12.	River Management Activities and Work Related to Border Areas	Hydrological observations and investigations of Water Resources Projects with neighboring countries	199.00	(i) Continuation of Joint Hydrological observations on river Ganga with Bangladesh, and	Implemented by Central Water Commission, Ganga Flood Control Commission, Brahmaputra Board and State Governments of Bihar, Uttar	(i) Survey & Investigation of Pancheswar and Sapta Kosi projects* (in Nepal) continued. (ii) Flood related data transmitted to Bangladesh. (iii) Joint Hydrological observations on river	* Works delayed due to law & order problem in

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2010-11	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.12.2010	Remarks
1	2	3	4	5	6	7	8
		<p>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>800 Wells</p> <ul style="list-style-type: none"> Ground Water Exploration through Outsourcing - 796 Monitoring of Ground Water Observation wells - 15640 Short term water supply investigations – As per request 	<p>4 times in a year</p> <p>One year</p>	<p>Out sourced from WAPCOS for 6 Regions namely NWR(Haryana), NCR, NCCR, CR, ER & NER.</p> <p>Monitoring of May and August, November 2010 completed</p> <p>166 Investigations</p>	<p>delineation of potential aquifers and their yield. Successful wells were handed over to concerned State agencies for use in their water supply schemes and have helped in catering to the drinking and domestic water requirement of the population.</p> <p>GW level data collected and disseminated through reports/maps/ brochures etc. have helped the Central/State agencies in planning and formulation of policies for sustainable management of available GW resources.</p> <p>Water Supply Investigations carried out for Defence and other</p>

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2010-11	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.12.2010	Remarks
1	2	3	4	5	6	7	8
		<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> <p>viii) Regulation of Ground Water development by Central Ground Water Authority</p> <p>ix) Artificial recharge studies including construction of Artificial Recharge structures for replicating the same by State Govt. and other agencies.</p>		<ul style="list-style-type: none"> • Geophysical Survey <ul style="list-style-type: none"> a) Surface VES=2000 & Profiling Line Km. = Need Based b) Sub-Surface Bore hole logging = Need Based • Analysis of water samples – 20000 • Preparation of District reports – 40 • Ground Water Year Books = 23 • State Reports – 11 • State Atlas - 3 • Ground Water Exploration Reports – 17 • State Geophysical Report- 14 • State Chemical Report -18 <p>Regulation of ground water development in notified areas by CGWA</p> <p>Demonstrative project for Artificial Recharge studies in identified thrust areas covering O.E. /Critical / Urban area.</p>	<p>One year</p> <p>One year</p> <p>One year</p> <p>One year Two years Two years One year</p> <p>One year</p> <p>Continuing</p> <p>2-3 years</p>	<p>Geophysical survey:- VES=1099 Profile.= 5.73 LKM. Borehole Logging=64</p> <p>Analyzed water samples – 13463</p> <p>6 district reports completed & rest are In progress 22 Ground Water Year Books submitted In progress 1-Meghalaya 2 reports 5 reports completed rests are In progress</p> <p>6 reports completed rests are in progress</p> <p>Continuing</p> <p>The details of demonstrative projects on AR to GW and RWH approved and being implemented in the states of Kerala, W.B, Punjab, A.P, Aruna. P., Karnataka, Gujarat, Maharashtra, Chandigarh, M.P, Jharkhand, U.P and T.N during XI- Plan. Total 1075 structures amounting to Rs.4863.028 lakh have been approved and Rs.3347.294 lakh</p>	<p>organizations.</p> <p>GW quality data collected and disseminated through reports/maps/ brochures etc. have helped the Central/State agencies in planning and formulation of policies for sustainable management of available GW resources</p> <p>Notification of areas for GW development has helped in better GW governance in these areas by preventing further extraction of GW for all purposes other than drinking and domestic uses</p> <p>Construction of AR and RWH structures</p>

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2010-11	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.12.2010	Remarks
1	2	3	4	5	6	7	8
						have been released as on 31 st December 2010 and 364 structures have been completed.	have helped in augmenting of GW resources, capacity building of State Govt. organizations, NGOs, VOs and other stake holders and also in replication of such structures in similar hydrogeological settings.
15.	Rajiv Gandhi National Ground Water Training & Research Institute.	Training of CGWB and other Central/ State Govt. officers and staff on ground water aspect	6.00	39 Training Courses	One year	23 training courses have been conducted successfully and 480 trainees have been trained	Capacity building of officials in GW investigations, development and management techniques

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2010-11	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.12.2010	Remarks
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> <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>	15.00	To create awareness among the people to provide education for sustainable development and utilization of water resources	Continuing activity	<p>During the current financial year 2010-11, an amount of Rs. 15 crore has been allocated.</p> <p>Upto December, 2010, an amount of Rs. 10,00,00,000/- (approx.) has been spent on various mass awareness activities including expenditure of Rs. 38,30,403/- and Rs.1,00,000/- in the form of Grant-in-Aid and Office Expenses respectively. Under the sub-head Advertisement and Publicity 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 organised by MoWR in 21 States/UTs. * A total of 2,67,527 students from 5070 schools participated at the school level competition in 21 States/UTs. * The State level competition was held on 14th November 2010 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 were invited to participate in the National level painting competition held on 21st January, 2011. <p>2. Electronic Media Campaign for mass awareness on water conservation –</p> <ul style="list-style-type: none"> * Electronic Media Campaign has been initiated on National, regional and DD news channels of Doordarshan w.e.f. 10.9.2010 for 70 days to telecast video spots on water conservation. * Electronic Media Campaign has been initiated on National News, Primary Channel/LRS(188 stations), Vividh Bharti National(40 stations) 22 FM Channels and 31 Stations of Regional News of All India Radio during w.e.f. 10.09.2010 for 54 days to broadcast audio spots on water conservation. <p>3. Print Media Campaign –</p> <ul style="list-style-type: none"> * Advertisement was released in various newspapers published from States/UTs capital and National Capital of Delhi and 	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2010-11	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.12.2010	Remarks
1	2	3	4	5	6	7	8
		(vi) To strengthen awareness infrastructure specially campaign mechanism and support structure.				<p>other places of the country on the occasion of Sadbhavana Diwas on 20.08.2010.</p> <ul style="list-style-type: none"> * An advertisement was released from State capitals on the Occasion of National Integration Day on 19.11.2010. * An advertisement on the occasion of Birth Anniversary of Mahatma Gandhi and Vishwa Ahimsa Diwas on 02.10.2010 was released. <p>4. Workshops/Seminars/Conferences –</p> <ul style="list-style-type: none"> • A workshop on 'Integrated Water Resources Management' was organised from 4th to 5th October, 2010 at Shillong. • Several workshops on the water related theme have been organized by the field offices of CWC and CGWB on behalf of the Ministry. <p>5. Participation in Fairs/Exhibitions –</p> <ul style="list-style-type: none"> * Participated in Thrissur Pooram Exhibition held at Thrissur, Kerala from 3rd – 24th May, 2010. * Participated in the Science and Technology Expo held at Nainital, Uttarakhand from 4th – 6th June, 2010. * Ministry and its organisations participated in IITF-2010 at New Delhi from 14th to 27th November, 2010 through erection of pavilion, models on water conservation to spread awareness amongst masses for water conservation and management. * Participated in the 14th National Exhibition on the theme of 'Striving Towards a Glorious India' held at Kolkata from 3rd to 7th September, 2010. 	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2010-11	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.12.2010	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.	600.00 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	(i) Expression of interest has been received from 17 states under the scheme of RRR of water bodies with domestic support for coverage 8690 water bodies. (ii) Works under this project would continue during the year 2010-11. (iii) Funds to tune of Rs. 70 cr to A.P, Rs. 29.08 cr to U.P and Rs. 7.33 cr to M.P have been released under scheme RRR of water bodies. (iv) On the basis of proposals received from the State Govt., release of funds to the State Govt. will be processed by 31 st March 2011.	

Annexure-III

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, Uttarakhand, Jammu and Kashmir, Himachal Pradesh and undivided 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.44574.515 crore as CLA/Grant under AIBP since inception of this programme till 01.02.2011 for 286 major / medium irrigation projects and 12104 Surface minor irrigation schemes. After commencement of this Programme 129 major/medium and 8140 Surface MI Schemes have so far been completed. An additional irrigation potential of 5.486 million hectare has been created through major / medium irrigation projects and an irrigation potential of 0.454 million hectares has been created through Surface MI Schemes upto March, 2009. Irrigation potential of 9.82 lakh hectares is estimated to have been created during 2009-10 up to March 2010.

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.5155.1307 crore.

A Budget allocation of Rs.9200 crore has been made by the Ministry of Finance for AIBP for 2010-11 which includes Rs.2200 crore for National Projects.

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

Ministry of Water Resources has finalized modalities of funding and guidelines for implementation of scheme of National Projects in consultation with Planning Commission and Ministry of Finance and has sent the same to all the states and Union Territories. So far, two projects, namely Gosikhurd Project of Maharashtra and Shahpur Kandi Project of Punjab have been funded under the scheme of National Projects. Gosikhurd Project has been provided grant amounting to Rs.1805.28 crore during 2008-09 to 2010-11 (till 01.02.2011). Shahpur Kandi Project has been provided grant amounting to Rs.10.80 crore during 2009-10.

ANNEXURE -IV											
STATEMENT SHOWING DETAILS OF MINISTRY OF WATER RESOURCES BUDGET VIS-À-VIS XI PLAN OUTLAY											
(Rs. in Crore/Net)											
Sector/Orgn/ Scheme	XI Plan Outlay	Heads of Accounts	B.E. 2007-08	Actual 2007-08	B.E. 2008-09	Actual 2008-09	B.E. 2009-10	Actual 2009-10	B.E. 2010-11	R.E. 2010-11	B.E. 2011-12
Major & Medium Irrigation											
1. National Water Academy	15.00	2701	2.00	1.86	2.30	2.37	2.60	2.53	4.00	3.00	3.00
2. Research & Development Programme	260.00	2701	30.00	33.28	60.00	39.81	52.00	32.85	54.00	42.00	46.19
3. Hydrology Project	180.00	2701	33.00	6.98	44.00	9.92	38.10	21.54	53.00	31.00	80.00
4. Development of Water Resources Information	200.00	2701	30.00	18.65	46.00	45.58	70.00	63.10	66.00	41.49	59.00
5. Infrastructure Development	**	2701	4.00	1.33	5.00	2.06	1.00	1.28	3.00	3.00	3.00
6. Investigation of Water Resources Development	260.00	2701	30.00	25.09	37.00	36.17	42.00	37.01	54.00	46.00	54.00
7. Information, Education and Communication	90.00	2701	2.00	1.32	13.00	9.08	12.00	10.85	15.00	14.10	25.00
8. Dam Safety Studies and Planning	10.00	2701	1.00	0.48	1.60	0.80	1.00	0.34	1.50	1.00	3.00
9. River Basin Organisation/Authority	50.00	2701	0.50	0.00	1.00	0.00	0.50	0.00	0.50	0.01	4.00
Total: Major and Medium Irrigation	1065.00		132.50	88.99	209.90	145.79	219.20	169.50	251.00	181.60	277.19
Minor Irrigation											
Surface Water Schemes											
10. Ground Water Management and Regulation	460.00	2702	62.00	48.11	95.00	54.37	70.00	68.82	100.00	78.00	120.00
11. Rajiv Gandhi NGWT&RI	25.00	2702	1.50	0.60	2.10	0.64	2.00	1.78	6.00	3.40	3.00
12. Infrastructure Development	**	4702	4.55	1.27	7.00	2.07	4.50	2.15	10.50	10.00	11.40
Total: Minor Irrigation	485.00		68.05	49.98	104.10	57.08	76.50	72.75	116.50	91.40	134.40
13. Command Area Development Programme	\$\$	2705	300.00	277.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total: CAD & WM			300.00	277.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Flood Control Sector											
14. Flood Forecasting	130.00	2711	16.00	13.91	23.00	13.68	25.00	17.38	36.00	25.00	36.00
15. Infrastructure Development	**	4711	3.45	1.54	26.00	6.56	9.50	4.25	15.00	11.50	14.00
16. River Management Activities and works related to Border Rivers	601.00	2711	46.00	51.44	160.00	176.09	199.30	159.46	199.00	188.49	188.00
17. Pagladia Dam Project	500.00	2552	1.00	1.35	2.00	0.00	0.50	0.00	0.50	0.01	0.01
Total: Flood Control Sector	1231.00		66.45	68.24	211.00	196.33	234.30	181.09	250.50	225.00	238.01
Transport Sector											
18. Farakka Barrage Project	350.00	5075	33.00	30.99	75.00	54.03	70.00	68.95	82.00	62.00	70.40
** Total allocation for XI Plan	115.00										
\$\$ Scheme has been transferred to State Sector w.e.f. 2008-09											
Grant Total	3246.00		600.00	516.04	600.00	453.23	600.00	492.29	700.00	560.00	720.00