



**GOVERNMENT OF INDIA**

**OUTCOME BUDGET**

**2014 - 2015**

**MINISTRY OF WATER RESOURCES,  
RIVER DEVELOPMENT & GANGA  
REJUVENATION**

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## EXECUTIVE SUMMARY

The Outcome Budget 2014-15 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 2012-13 and financial year 2013-14 and the targeted performance during 2014-15. This has the following chapters covering different aspects of the Ministry:

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Chapter	Aspect(s) covered
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- 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, finance wing and seven Subject Matter Wings. The Ministry has two attached offices, eight subordinate offices, 11 statutory bodies, two autonomous bodies (societies) and two public sector undertakings.
- II** It contains a tabular format, which may be visualized as “vertical compression and horizontal expansion” of the Statement of Budget Estimate (SBE) included in the expenditure Budget Vol. II. The main objective is to establish a one-to-one correspondence between (Financial) Budget 2014-15 and Outcome Budget 2014-15. 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 2012-13 and financial year 2013-14.
- 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.
- VI** It contains review of performance of statutory / autonomous bodies and public sectors undertakings under the administrative control of the Ministry.

1. 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.

2. The Website of this Ministry has been redesigned in pursuance to Guidelines for Indian Government Website (GIGW). The new Website of this Ministry has been launched by NIC on 11.06.2014.

3. e-Office- A Mission Mode Project is being implemented in association with NIC and DARPG under National e-Governance Plan. This will bring a remarkable change in the functioning of the Ministry as well as promoting e-Governance activities, responsiveness and transparency in the Ministry, which would further be implemented in the organizations of the Ministry as well.
4. In pursuance of the approval accorded by the Union Cabinet to the National Water Mission on 6<sup>th</sup> April 2011, a Mission Secretariat has been set up. Presently it is functioning with Special Secretary, Ministry of Water Resources as Mission Director. Eight Advisory Groups / Committees envisaged in the National Water Mission Document have been constituted.
5. The Central Water Commission, an attached office of MoWR, RD & GR 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 medium and selected minor irrigation projects receiving central assistance under Accelerated Irrigation Benefit & Flood Management Programme (AIBFMP). 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.
6. 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.
7. Other organizations under this Ministry like Central Soil & Materials Research Station, Central Water & Power Research Station and National Institute of Hydrology are engaged, inter-alia, in research and development activities in the water resources sector. Water and Power Consultancy Services (India) Limited and National Projects Construction Corporation Limited are the two public sector undertakings working under the administrative control of this Ministry. Ravi and Beas Waters Tribunal, Cauvery Water Disputes Tribunal, Krishna Water Disputes Tribunal, Vansadhara Water Disputes Tribunal and Mahadayi Water Disputes Tribunal are functioning to resolve the inter-state water disputes. Brahmaputra Board is engaged in Brahmaputra and Barak Basin for sustainable development of water resources to provide optimum benefit with emphasis on control of flood and bank erosion. During 2014-15, two new boards viz. Krishna and Godavari River Management Board and Polavaram Project Authority have been constituted under the Andhra Pradesh Reorganization Act, 2014.
8. After recent restructuring of Centrally Sponsored Schemes, all Plan schemes under which Central Assistance is provided to the States are to be classified & budgeted as Central Assistance to State Plan with effect from 2014-15 (BE). For XII plan period, the activities under various programmes / schemes being implemented / monitored by the Ministry have been clubbed into 21 central sector and 2 Centrally sponsored schemes. These includes new central sector schemes viz. "Bodwad Parisar Sinchan Yojana" of Maharashtra, Polavaram Project Authority, Impact Assessment Study of AIBFMP, National River Conservation Plan, National Ganga Plan, Ghat works for beautification of river fronts, Water project of NCT, DPR of interlinking of Rivers and one new centrally sponsored scheme viz. Pradhan Mantri Krishi Sinchai Yojana recently included in the Budget of Ministry of Water Resources, River Development & Ganga Rejuvenation from FY 2014-15.

## 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
8. Polavaram Project Authority

#### **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
10. Krishna River Management Board
11. Godavari River Management Board

#### **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 2013-14, implemented and monitored 14 central sector, and 5 state sector schemes. The following gives a brief overview of the Central Sector Schemes:

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

**1.4.2. Hydrology Project II:** The objective of the Hydrology Project Phase-I (HP-I) implemented during the period 1995-2003 was to improve institutional arrangements, technical capabilities and facilities for development of Hydrological Information System (HIS). As a follow up of HP-I, Hydrology Project Phase – II (HP-II) is taken up with the objectives to extend and promote sustained and effective use of HIS by all potential users concerned with water resources planning and management, public and private, thereby contributing to improve productivity and cost effectiveness of water related investments in 13 States and 8 Central Agencies. The closure date of HP-II is May 31<sup>st</sup>, 2014. All payments of this project are likely to be made by 30<sup>th</sup> September, 2014.

**1.4.3. 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.

**1.4.4 Human Resources Development/ Capacity Building:** This new scheme launched during Financial Year 2013-14 comprises of five components viz:-

**a. 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. NWA head office is located at Pune.

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

During the XII Plan Period (2012-2017), the IEC Scheme has been merged with HRD and Capacity Building Scheme. IEC component of the scheme is the largest component of the Scheme with an estimated allocation of Rs.151 crore during the XII Five Year Plan. The objectives of the scheme are as under:-

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

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

**d. Capacity Building Programme:** This scheme covering the North Eastern Regional Institute of Water and Land Management (NERIWALM) is a premier Institute of North Eastern Region of India established on 23<sup>rd</sup> December, 1989 at Dolabari, Tezpur (Assam) by the North Eastern Council (NEC), Ministry of DONER, Govt. of India as an autonomous Registered Society under the Societies Registration Act 1860. The Institute has been transferred to the Ministry of Water Resources, Govt. of India w.e.f. 1<sup>st</sup> April, 2012. The uniqueness of the Institute lies on its catering the need of all the NE states namely Arunachal Pradesh, Assam, Manipur Meghalaya, Mizoram, Nagaland, Tripura including Sikkim for capacity building through training the farmers and functionaries in the field of water and land management.

**e. Training of the Ministry of Water Resources Officers:** The National Training Policy (NTP), 2012 formulated by the DOP&T has been accepted by the Government of India and circulated for implementation vide DOP&T OM No. 12021/1/2012-Trg. I



dated 4<sup>th</sup> July 2012. In consonance with the National Training Policy, the Training Policy for MoWR has been formulated to impart training to all levels of the employees starting from lowest to the highest level to give the Ministry a cutting edge in policy decisions and implementation of Programmes as mandated in the Allocation of Business Rules. A Training Cell has been created in the Co-ordination Division of the Ministry to assist the Training Manager who will function under the administrative control of Joint Secretary (Admn). The Cell will look after all matters relating to training including both the domestic and foreign needs of the Officers/ Engineers/ Scientists/ Employees of the Ministry and also its organisations. Total allocation involved during the XIIth Five Year Plan will be Rs. 10.00 Crore only.

**1.4.5. River Basin Management:** This newly named scheme has been formulated during financial year 2013-14 by merging two ongoing schemes, namely, River Basin Organization and Investigation of Water Resources Development Scheme. The scheme also includes, restructuring of CWC and activities of Brahmaputra Board under following sub-schemes:-

a. River Basin Organizations: **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.**

b. **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) & detailed project report (DPRs) of the schemes for Inter Basin transfer of Water, intra-State links and to carry out other studies & activities considered necessary incidental, supplementary or conducive to attainment of above objectives.

c. **Re-structuring of CWC:** Scheme is under approval stage.

d. **Brahmaputra Board:** The main objective of Brahmaputra Board are Survey, Investigation & preparation of Master Plan, DPRs for Drainage Development Schemes & DPRs for Multipurpose project, Operation & maintenance & upgradation of NEHARI, Contruction of H.Q.Complex & R&M of assets created by the Board, Upgradation of IT&GIS, Climate Change Studies etc. Execution of (i) Drainage Development Schemes, (ii) Anti-erosion schemes & Flood Management Schemes, (iii) Construction of raised platform,

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

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

**1.4.7. Implementation of National Water Mission:** The National Action Plan on Climate Change (NAPCC) launched by the Government of India has identified the approach to be adopted to meet the challenges of impact of climate change through institutionalization of eight national missions which inter alia includes a National Water Mission. The objective of National Water Mission is conservation of water, minimizing wastage and ensuring its more equitable distribution both across and within States through integrated water resources development and management.

**1.4.8. Irrigation Management Programme:** Irrigation Management Programme is a new scheme introduced in the XII Five Year Plan with proposed outlay of Rs.10000.00 crores identifying the injudicious inter-sectoral and intra-sectoral distribution of water amongst various categories of water users, low water use efficiency, fragmented approach to water resources planning and development, low water user charges and meager recovery as some of the major problems associated with the management of water resources in the country. 13<sup>th</sup> Finance Commission made various recommendations. Amongst those an incentive grant of Rs.5000 crore is recommended for Water Sector management to improve its outcome. The commission suggested conditionalities for eligibility of grant which include inter-alia state-wise targets for required rate of recovery of Irrigation Services fees (ISF) for each year from 2011-12 to 2014-15.

**1.4.9. Dam Rehabilitation and Improvement Project (DRIP):** The Government has formulated the scheme for implementation of Dam Rehabilitation and Improvement Project (DRIP) with the World Bank assistance under which rehabilitation of 223 Dams in the States of Kerala, Madhya Pradesh, Orissa and Tamil Nadu are proposed to be taken up. DRIP has become effective from 18<sup>th</sup> April 2012, and the activities will be spread over 6 years. The project will improve the safety and operational performance of selected existing dams with reduced risk of failure, Development of appropriate institutional mechanisms for the safe operation and maintenance of all large dams would also be taken up in these states. In addition, strengthening of the institutional setup for national level dam safety surveillance and guidance would be taken up in Central Water Commission (CWC). The project development objectives of DRIP are: (i) to improve the safety and performance of selected existing dams and associated appurtenances in a sustainable manner, and (ii) to strengthen the dam safety institutional setup in participating states as well as at central level.

**1.4.10. Ground Water Management and Regulation: The scheme has following objectives:**

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

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

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

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

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

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

During XII Plan, the scheme covers the hydrological observations and flood forecasting on common border rivers with neighbouring countries, survey & investigations for WR projects in neighbouring countries, activities of Ganga Flood Control Commission (GFCC), 100% grant-in-aid to river bank protection works on common/ border rivers with Bangladesh and Pakistan proposed by West Bengal, Tripura & J&K States and 100% grant-in-aid to Union Territories for critical flood management / anti-sea erosion works.

1.4.13. **Bodwad Parisar Sinchan Yojana Project of Maharashtra:** This new scheme was introduced in 2013-14. The Plan provision is for special assistance towards Bodwad Irrigation Project of Maharashtra as per the directions of Planning Commission and Ministry of Finance.

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

#### **NEW SCHEMES INCORPORATED IN 2014-15**

1.4.15. **Impact Assessment Studies of AIBFMP Projects :** An amount of Rs.50.00 crore has been allocated in the budget of Ministry of Water Resources under Central Sector Schemes during 2014-15 to conduct Impact Assessment Studies of AIBFMP Projects.

#### **1.4.16. Polavaram Project Authority:**

The Union Cabinet in its meeting held on 1<sup>st</sup> May, 2014, approved constitution of Polavaram Project Authority (PPA) and Governing Body of PPA under Andhra Pradesh Reorganization Act, 2014 to be funded by Central Government.

Polavaram Project (also known as Indira Sagar (Polavaram) Project in the existing State of Andhra Pradesh, is a multi-purpose project with an assessed Culturable Command Area of 2.91 lakh hectares and power generation potential of 960 Mega Watt (MW). It also has a provision for supply of 23.44 Thousand Million Cubic Feet (TMC) water as delinking water supply to Vishakhapatnam city and other areas, as also industrial water supply to Vishakhapatnam Steel Plant. An inter basin transfer of 80 TMC water annually to Krishna river basin is also envisaged.

Actual estimate of cost on works on Polavaram Project and that of the Authority would be known only after the Authority is made functional. However, based on informal data collected from the State Governments, it is anticipated that the financial liability for various ongoing works on the Polavaram Project and that of the Authority would be of the order of Rs. 250 crore. Accordingly, budget out lay of Rs. 250 crore for the year 2014-15 has been provided.

#### **1.4.17. National River Conservation Plan:**

This is a new scheme which has been included in the budget of Ministry of Water Resources during the Financial Year 2014-15. The Budget provision is Rs. 537 crore for National River Conservation Plan, for greater efficiency in programme delivery, the programme has been shifted to the Ministry of Water Resources from Ministry of Environment and forest.

#### **1.4.18. Ghat works & Beautification of River Front:**

This is a new scheme which has been included in the budget of Ministry of Water Resources during the Financial Year 2014-15. The Budget provision is Rs. 100 crore for River front development and beautification of their Ghats.

#### **1.4.19. Water Projects of NCT:**

This is a new scheme which has been included in the budget of Ministry of Water Resources during the Financial Year 2014-15. The Budget provision is Rs. 500 crore for improving supply of water in the NCT of Delhi. The amount includes provisions for Renuka Dam.

#### **1.4.20. National Ganga Plan:**

This is a new scheme which has been included in the budget of Ministry of Water Resources during the Financial Year 2014-15. The Budget provision is Rs. 1500 crore for cleaning of Ganga. The amount is to be met from National Clean Energy Fund (NCEF).

#### **1.4.21. DPR for Interlinking of Rivers:**

This is a new scheme which has been included in the budget of Ministry of Water Resources during the Financial Year 2014-15. The Budget provision is Rs. 100 crore for preparation of Detailed Project Report for Inter-linking of Rivers.

#### **1.4.22. CENTRALLY SPONSORED SCHEMES:**

i. **Accelerated Irrigation Benefit & Flood Management Programme:** This is the restructured Central Sponsored Scheme being included under Demand of MoWR from FY 2014-15 with total budget estimated of Rs.8992.22 Crore in accordance with the directions of Planning Commission & Ministry of Finance. This includes releases to States/UTs in respect the following sub-schemes:- (i) AIBP & National Projects, (ii) Command Area Development & Water Management, (iii) Flood Management programme and (iv) Repair, Renovation & Restoration of Water Bodies.

ii. **Pradhan Mantri Krishi Sinchai Yojana:** Government of India proposes to launch Pradhan Mantri Krishi SinchanYojana during 2014-15 of XII Plan. This programme will be somewhat similar to existing surface Minor Irrigation schemes under AIBP with two major policy changes. At present, under AIBP, the surface minor irrigation schemes are eligible for central assistance only in the Special category states, hilly states and undivided Koraput, Bolangir & Kalahandi (KBK) districts and surface minor irrigation schemes benefitting tribal areas, drought prone areas, desert development programme (DDP) areas, Left Wing Extremists areas in Non-special category states. The assistance is in the ratio of 90:10 (centre:state) in ongoing surface minor irrigation schemes. The new schemes will cover areas not currently being covered and will come into effect from 1.4.2015. The second change i.e. the funding pattern for the general category states/areas will be limited to 50% of the total cost of the project. An additional potential of 5 lakh hectare is anticipated in the last two years of XII Plan. An additional outlay of Rs. 5,000 crore is required for this scheme.

**CHAPTER - II**  
**STATEMENT OF OUTLAYS & OUTCOME /TARGETS ANNUAL PLAN 2014-15**

SI.No	Name of scheme /programme	Objective/Outcome	Annual Plan (2014-15)	Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Process/Timelines	(Rs. in Crore) Remarks/Risk factors
1	2	3	4	5	6	7	8
<b>CENTRAL SECTOR SCHEMES</b>							
1	Development of Water Resources Information System (DWRIS)		225.40				
a	Hydrological Observations and Monitoring System		136.38				
a(i)	Upgradation of existing HO Stations and Setting of new HO Sites	1) Continuation of Hydrological Observations activities including snow hydrology, water quality and monitoring of Glacial lakes, 2) Expansion and modernisation of hydrological observation network with state of art technique and equipments, 3) Collection compilation storage, Dissemination, analysis and publication of Data in form of Water Year Book.	123.19	Observation of data at 933 sites to continue and Data collection at G&D sites and Snow Observation sites for various uses etc. to continue. Upgradation of existing sites, expansion of data observation network through establishment of new stations.	Data is made available in the published form of reports/ Books/ Bulletins.	Daily periodical observation of hydro-meteorological, snow observation, Water quality parameters as per established procedures and protocol to continue through out the year.	Budget Estimate for only Hydrological observation component, RMCD, Central Water Commission
a(ii)	Collection of Storage data on the major reservoirs in the country	To collect reservoir water level of 120 reservoirs whose live storage is proposed to be monitored by the CWC by telemetry system.	8.10	Telemetry system will be installed on 87 reservoirs	Telemetry system will be installed on 87 reservoirs	Actual expenditure to be incurred after approval of the sub-scheme	
a(iii)	Developing Coastal Management Information System (CMIS)	Determination of causes of erosion/ sediment transportation /defining sediment cell/sediment budget etc. including data collection and documentation (6 sites) Collection, Analysis, Processing and Integration of Coastal Data into WRIS Strengthening of CPDAC/it's sub-committees, Field visits, Training/Study Tours, Technology Transfer, Strengthening of Beach Erosion Dte. as a Centre of excellence , Preparation of Manual, guidelines, Workshop / Seminar etc	5.09	Opening of two site and data collection  Organizing meeting of CPDAC and its sub-committee/workshop/seminar etc.  Strengthening of Beach Erosion and Coastal Erosion Directorate	Installation of Tidal gauge data collection. Integration of Coastal Data into WRIS.	Activities to continue throughout the year	CMIS is a new component proposed under DWRIS. The proposed BE for 2014-15 is Rs. 5.09 Crore. The opening of new sites for data collection is dependent activity on the concerned State Govt. and Central Agencies. Preparatory works have already been initiated in consultation with the State Govt. and Central Agencies.



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<b>b</b>	<b>Irrigation Census</b>		59.07				
<b>b(i)</b>	Rationalization of Minor Irrigation Statistics (RMIS)	Conduct of 5th Minor Irrigation Census in the country using traditional methodology.	55.96	1. Release of funds to States for organising the Regional Training Works. 2. Release of 40% of Census funds to States for preparatory work(i.e. Printing of Schedules & Instructions, Training to District/Block Officials, Enumerators etc. 3.Pursuing Development of Software for data entry/validation by NIC and its adoption by its States/UTs.	1) Conduct of 6 Regional Trainings in States for 5th MI Census 2) Preparatory Works (i.e. Printing of Schedules & Instructions, Training to District/Block Officials, Enumerators etc. 3)Field work & supervision of 5th MI Work. 4) Development of Software by NIC for Data Entry& Validation Work.	Activities in respect of 5th Minor Irrigation Census(i.e. Field work & Supervision etc.)to continue through out the year.	Depends on timely submission of complete proposals by States as major part of the field work of 5th MI Census will be taken up by States/UT's during 2014-15. Fund availability (BE & RE) during 2014-15 is crucial for realization of projected outcomes.
<b>b(ii)</b>	Pilot Census of Major and Medium Irrigation Projects	To collect irrigation infrastructure data on major and medium irrigation projects including IPC, IPU & water use.	3.11	On Pilot basis data for all MMI Projects in selected States	The compiled data will be integrated in INDIA WARIS portal which will be available in public domain	12 Months from the day of the award of work for collecting census data throughout process	
<b>c</b>	Water Quality Assessment Authority (WQAA)	To provide Secretarial assistance to WQAA to carry out its mandated activities.	1.27	(1) Uniform Protocol on Water Quality Monitoring (UPWQM), (2) Organising WQAA Meetings, (3) Organising trainings/workshop/seminars on water quality issues, (4) Organising international training programmes/short courses, (5) Taking-up/sponsoring R&D activities of WQAA.	(1) Ratification of UPWQM by WQAA, (2) Organising One meeting of WQAA, (3) Organising training for 110 officers on water quality issues, (4) Organising international training programmes/short courses for 5 persons.	Continuing Activity	The R&D proposals under WQAA have been invited. Hence it can not be quantified at this stage.
<b>d</b>	Strengthening of Monitoring Unit in CWC	Monitoring of major and medium projects. To Develop information system of the water resources and related subject at the national level. The work of Remote Sensing based evaluation of IP creation will continue by getting the work done through NRSC or by in-house capability for analysis of satellite data acquired from NRSC data centres	13.18	Monitoring of major and medium projects The CARTOSAT satellite data for the 13 selected projects would be provided by NRSC with detail of balance potential in AIBP component Phase-II. Pilot study using the BHUVAN portal as per NRSC user manual to develop in-house capability in CWC for using raw	Building in House capability in CWC for online monitoring of 13 pilot AIBP funded project by assessment of Irrigation Potential through remote sensing technique of interpretation of car tosat satellite imageries using BHUVAN web service of NRSC.	Continuing Activity	All the major and medium projects are monitored. Remaining projects' report out of 50 submitted summary reports for all 50 projects, CDs with all deliverables received by CWC. Final bill also received and is under process. Related training rendered by NRSC was attended by CWC officers for

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				satellite imagery and potential assessment study in future similar to NRSC.			pilot study of 13 identified projects to develop in-house capability Web enabled online monitoring system - Monitoring of project by field visits will also be supplemented with a web based online monitoring system linking the state govt. monitoring offices/ project offices in respect of major/ medium/ERM projects receiving AIBP assistance with the regional offices of CWC as well as the CWC head quarters for better monitoring of ongoing activities on the project.
<b>e</b>	<b>Data Bank and Information System</b>		15.50				
<b>(i)</b>	Web-enabled Water Resources Information System & Setting up of National Water Informatics Centre (NWIC)	Creation of Watershed Atlas and development of web enabled Water Resources Information system of the country at 1:50000 scale	9.41	(i) Upgradation and refinement of INDIA WRIS portal (ii) The work of Reassessment of Water Availability of 19 Nos. of basins in the country	(i) Upgradation and refinement of INDIA WRIS portal (ii) The work of Reassessment of Water Availability of 19 Nos. of basins in the country.	Expected by March 2015	The provision has been made to take care of the work of WRIS project to be taken over by CWC during 2014-15. Further funds are kept for the work of reassessment of water availability.
<b>(ii)</b>	Up-gradation and Modernization of Library Information Bureau in CWC	Upgradation & Modernization of Library & Information Bureau	1.54	Up-gradation & Modernization of Library & Information Bureau	Up-gradation & Modernization of Library & Information Bureau	Continuing process	
<b>(iii)</b>	Software Management in CWC	Upgradation and modernisation of Information Systems in CWC	4.55	Procurement of hardware, software, consumable and miscellaneous peripherals, expansion of Local Area Network, conduct training on IT aspects , maintenance of IT items. Digital archival and retrieval of Engineering Drawings at CWC HQ. Development of web Portal.	Up-gradation of hardware, software and networking resources. Upgrading of CWC website, Development of personal information system for e-governance, better management of drawings in CWC, better management /	The activities will be continued throughout the year.	Nil



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					maintenance of IT items in CWC(HQ) and field offices		
2	Flood Forecasting	1) To continue flood forecasting from existing 147 level forecast and 28 inflow forecast sites covering 20 river basins. 2) Automation of the existing networks of forecast sites together with telemetry system for communication of real time data and state of art equipments. 3) Automation and telemetry system at 219 existing stations covering flood forecasting network of CWC.	100.00	Collection of real time data, its analysis and issue of flood forecasts. Around 6000 forecasts are issued every year.	Flood forecasts will be issued by CWC which helps State authorities in undertaking flood mitigation works and save lives and property	Data/ periodical observation of hydro-meteorological, snow observation, Water quality parameters as per established procedures and protocol to continue through out the year.	
3	Hydrology Project	To extend and promote the sustained and effective use of the Hydrological Information System by all potential users concerned with water resources planning and management in 13 states and 8 Central Agencies.	31.38	Implementation of the project components, i.e. institutional strengthening, vertical extension (with DSS-Planning, DSS-Real Time, Hydrological Design Aids, and 10 Purpose Driven Studies) and Horizontal Expansion with the support of 4 major consultancies. Aquifer Mapping in 6 pilot study areas.	i) Improved data accessibility for exchange among the implementing agencies ii) Improved tools for water resources and management iii) Improved data system & tools for management of floods & droughts.	The planned activities are to be implemented through the Central Agencies, viz. PCS (MoWR), BBMB, CWC, CGWB, CWPRS, CPCB, IMD and NIH till end of May 31, 2014.	The project has closed on 31st May, 2014. The World Bank reimbursement shall be completed by 30th September, 2014.
4	Ground Water Management And Regulation	i) Aquifer Mapping - Data Generation- 1.08 Lakh Sqkm	325.00		Precise Aquifer maps for aquifer wise GW management.	One year	
		Vertical Electrical Sounding(VES Nos)- Inhouse and outsourcing		4750	Interpolation of subsurface aquifer geometry		
		Borehole Logging(Nos)-Inhouse and outsourcing		600 Nos		One year	
		2D Imaging-Inhouse and outsourcing		380 Line km	Subsurface aquifer disposition and their hydraulic parameters	One year	
		Exploratory Drilling( No of wells)- Dept rigs and outsourcing		1600 wells	Ground water quality of aquifers will be determined for potable and other uses.	One year	
		Analysis of Ground Water quality- Inhouse and outsourcing		22000 samples		One year	

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		ii) Participatory ground Water management		Technical support activities in 0.54 Lakh sqkm area	Depiction of ground water regime and longterm trends of the country will be produced.	One year	
				Participatory Outreach programme for delivery to end user		One year	
		iii) Monitoring a hydrograph networks stations for water level and water quality		Monitoring 27000 wells 4 times in a year	Ground water quality of aquifers will be determined for potable and other uses.	One year	
		iv)Completion of Artificial Recharge structure as spill over of 11th plan		Completion of spill over work sanctioned in 11th plan	Ground water declining level will be controlled.	One year	
		v)Technical assistance to organisations for water supply source investigations		Need Based	Concerned organizations will tap more ground water for their water supply requirement.	One year	
		vi) Procurement of Machinery and equipment		Procurement of Rigs and scientific instruments	Improved and accurate data will be available	One year	
<b>5</b>	Research & Development Programme in Water Sector	Objective of the scheme is to find practical solutions to the Country's water resources related problems and to improve available technology, engineering methods, procedures, and to create/upgrade research facilities and equipments of the premier organisations at national level. Also to promote educational, training & human resources development programmes in water sector.	50.00	Research / Technical reports = 229, Research Papers = 270 and Training and Workshop - 37	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.	The work is to be implemented by Research Organizations of the Ministry.	
<b>6</b>	HRD / Capacity Building		50.00				
<b>(a)</b>	Information, Education and Communication Component of HRD / CB Scheme	Awareness generation through Information, Education and Communication Component of HRD / CB Scheme	30.00	Painting Competition for children, on water conservation issues Electronic Media Campaign through TV, Radio. Print Media Campaign through newspapers, magazines, journals. Participation in Fairs/Exhibitions like 'India International Trade Fair' at	Short Term : Sensitization of the target groups.  Long Term: Behavioural change.	Activities will be conducted throughout the year according to timelines	

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				Pragati Maidan. Organisation of Workshops/ Seminars/ Conferences on water related issues. Organisation of India Water Week - an international conference cum exhibition Special awareness campaigns in Tribal areas Printing and distribution of awareness publicity material Events for School/college students like essay. Awareness through mass media transport vehicles like Delhi metro, bus back panels, bus shelters. Outdoor publicity through hoardings/banners on water conservation at prominent public places. Visits of School/college children and other stakeholders to project sites for educating them and creating awareness about benefits of programmes/schemes of the Ministry. Traditional Media Campaigns like nukkad nataks, jal yatras. Preparation and exhibition of short films on water conservation Mass awareness programmes for Industry/Farmers/RWAs and other groups.			
<b>(b)</b>	<b>National Water Academy</b>		20.00				
	(i) NWA Component:	(i) Training in all aspects of WRD&M for all Stakeholders of water Sector including induction Training Programme. (ii) Infrastructure Development	5.45	a) 32 Nos. of Training Programmes	a) 32 Nos. of Training Programmes to be completed by March-15	a) Training Prgorammm will be spread over the whole year and will be conducted in accordance with the approved Training Calendar	Achieving the target depends upon filling of the vacant posts

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		Running and Maintenance		b) Running and Maintenance of NWA campus and its infrastructure.	b) Running and Maintenance of NWA campus and its infrastructure.	b) Through out the year	
		Infrastructure development		c) Furnishing the remaining portion in the newly constructed Guest House & annexe building.	c) Furnishing the remaining portion in the newly constructed Guest House & annexe building.	c) to be completed by March,2015	
				d) Construction of additional suits in Godavari/Krishna guest house	d) Construction of additional suits in Godavari/Krishna guest house	d) to be completed by March,2015	
	(ii) CWC ( HQ) Component	a) Training in all aspects	0.55	10 no. of Training programs+ 80 officers in Training/Seminar/conferences etc.	To be completed by March, 2015	Will be spread over the whole year	Achieving the target depends upon filling of the vacant posts
		b) Establishment of Computer room etc		1 No	To be completed by March, 2015	Will be spread over the whole year	
		c) Membership fee for National/ international bodies for Gr A officers		50 Nos	To be completed by March, 2015		
		d)Replacement of Vehicle		1 No	To be completed by March, 2015		
(c)	RGN Ground Water Training Institute	Training of CGWB and other Central/ State Govt. officers and staff on ground water aspect	7.00	32-Tier I (National level ) training courses  50-Tier II( State level training courses)	Capacity building of personnel from CGWB, other Central Govt. Agencies, State Govt. Agencies, NGOs, PRIs etc. In the field of ground water.	One year	
(d)	Training of Officers of MoWR	To train officers of the Ministry in institutions located in India and abroad in different fields relating to various aspects of the Water Resources Management, Ground Water Development & Regulation, Floods, Irrigation, Recycling of Waste Water, desalination of Sea Water, Water use efficiency etc.	2.00	Nominating/Deputing 157 officers /officials/engineers scientists of MoWR to various long term/short term training programme/ courses/workshops/ seminars within India or abroad.	157 officers /officials/ engineers scientists of MoWR will be nominated for participation in long term/short terms training on issues related to Water Sector in reputed institutions in India /abroad.	April 2014-March 2015	Will be completed by March 2015
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(e)	Capacity Building Programme (NERIWALMs)	The objective of the Institute is to provide capacity building activities and for undertaking technical services to the line departments in order to improve the agricultural production.	5.00	During 2013-14 the Institute organised 33 training programmes for farmers and functionaries, Water Users Associations etc.	During 2014-15 it is proposed to conduct 60 training programmes (approximately, 15 in each quarter). Besides, workshops/seminars/Conferences on Water Land Management will also be convened on issues and problems pertaining to	The funds are required to be released on quarterly basis	<ul style="list-style-type: none"> <li>Lack of centres for regular interactions at the state level.</li> <li>Non arrival /reporting of adequate number of trainees in some of the courses.</li> </ul>
					water and land resource management in the North Eastern Region		
<b>7</b>	<b>Infrastructure Development</b>		<b>80.00</b>				
	CGWB(IT)	1. Design & Development of Webbased Applications. 2 Procurement of 200 PC'S & Peripherals. 3. Networking in Regional Offices.	4.00	1. Design & Development of Webbased Applications. 2 Procurement of 200 PC'S & Peripherals. 3. Networking in Regional Offices.	1. Design and Development of Work flow applications for e-Governance activities 2. IT infrastructure and network would be created for e-Governance activities in CGWB Office	2 years for item No.1 and	1 year for item No. 2& 3
	CGWB(L&B)	Construction of Building for Regional & Divisional Office including Workshop & Store at Guwahati (Civil & Electrical)	0.00	. Regional and Divisional office at Guwahati.	Divisional Office and Workshop completed and shifted in the newly constructed building and rest of the work is in progress.		
		Construction of Building for Divisional Store & Workshop at Bangalore.	0.00	. Divisional Store and Workshop buildings at Bangalore.	Work completed and Divisional Workshop/Store is shifting to new building.		
		Construction of Staff Qtrs for the employee of CGWB at Bhubaneswar.	4.93	. Staff Qtrs. For the employees of CGWB, Bhubaneswar	On receipt of Ministry's approval the work shall be started.	Subject to approval from MoWR & tendering of works by construction agency (Lead time 3 months minimum)	
		Construction of Building for Office Store & workshop for Div.XII, Bhopal.	0.00	. Divisional Store & Workshop for Division XII at Bhopal	Pavement, under ground sump is in progress. Final finishing work yet to be completed		

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		Construction of Building for Regional & Divisional Office at Ahmedabad.	3.06	Regional and Divisional Office at Ahmedabad.	On receipt of Ministry's approval the work shall be started.	Subject to approval from MoWR & tendering of works by construction agency (Lead time 3 months minimum)	
		Construction of Building for Divisional office, Workshop & Store of CGWB Division-II at Ambala.	3.05	Boundary Wall and Building for Divisional, Workshop & Store Division II at Ambala.	On receipt of Ministry's approval the work shall be started.	Subject to approval from MoWR & tendering of works by construction agency (Lead time 3 months minimum)	
		Construction of Boundary Wall, Building for Office workshop & Store for Region & Division at Jammu.	2.50	. Boundary Wall, Building for office, Workshop & Store for Region & Division at Jammu.	On receipt of Ministry's approval the work shall be started.	Subject to approval from MoWR & tendering of works by construction agency (Lead time 3 months minimum)	
		Construction of Building for RGNGWT&RI (RGI) at Raipur.	25.26	. Boundary Wall and Building for RGNGWT&RI (RGI) at Raipur.	On receipt of Ministry's approval the work shall be started.	Subject to approval from MoWR & tendering of works by construction agency (Lead time 3 months minimum)	
		Construction of Building for Divisional Workshop & Store at Chennai.	2.80	. Building for Divisional Workshop & Store at Chennai.	On receipt of Ministry's approval the work shall be started.	Subject to approval from MoWR & tendering of works by construction agency (Lead time 3 months minimum)	
		Construction of Building for Divisional Office, workshop & Store at Jodhpur.	3.00	. Building for Divisional, Workshop & Store at Jodhpur.	On receipt of Ministry's approval the work shall be started.	Subject to approval from MoWR & tendering of works by construction agency (Lead time 3 months minimum)	
	Infrastructure Development (L&B) - CWC	To procure land and construction of Office/ residential building for CWC for providing decent, honorable, better and healthy working condition to its staff.	28.50	Acquisition of land and construction of non-residential and residential building for CWC at various locations all over India.	Construction of hutments at various locations (sites of CWC) all over the country, land acquisition, wherever applicable, office/ residential buildings at different locations alongwith modernisation of CWC Hqrs. Construction of boundary wall at Itaganar.	Majority of works are being implemented by CPWD/ NPCC/ CWC to be completed during the 12 <sup>th</sup> Plan Period	Progress is dependent upon agencies involved viz. CPWD/ NPCC inspite of fact that Monitoring Committee have been constituted. Delays are also expected in land acquisition at some locations of hutments.

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	Infrastructure Development-e-Governance Scheme of MoWR(Proper)	To strengthen the working scenario with a view to providing of prompt, responsive and transparent governance as well as dissemination of citizen centric information on the water related issues .	2.00	i. Preparation of future Roadmap on e-Governance for the Ministry, CWC and CGWB	Implementation of identified IT/e-Governance applications for Roadmap project in association with NIC etc.	As per NIC/concerned Agency proposal	Part of 12 <sup>th</sup> Plan – An Ongoing Scheme - preparation of future Roadmap on e-Governance for MoWR (Proper), CWC and CGWB has been approved, which will provide the reference framework to be used by MoWR to implement e-Governance.
				ii. Providing of Water Related citizen centric information through its website	Launch of new GIGW compliant website of the MoWR in bilingual format	By December, 2014	
				iii. Digitisation of Office Records, Manuals, Reports, etc.	Digitisation of Records	As per Work Order to be issued by GA Division of MoWR.	
	Infrastructure Development- IT, MoWR(Proper)	To strengthen the working environment with a view to providing of prompt, responsive and transparent governance. Dissemination of citizen centric information on the water related issues.	0.90	Procurement, upgradation and maintenance of latest IT hardware and software besides networking of database to facilitate e-Governance.	Procurement of hardware /software and networking items in order to strengthen the IT related need based resources.	Change of XP window is a time consuming process, some of targets have spillovered to next year.	
<b>8</b>	River Basin Management		250.00				
<b>i)</b>	River Basin Organisation	--	1.00	--	--	--	Scheme under approval stage (not recommended by EFC).
<b>ii) a</b>	IWRD - NWDA	To carry out activities related to survey, field Investigations in respect of preparation of Detailed Project Reports (DPRs), Feasibility Reports (FRs) of river link proposals & preparation of Prefeasibility Reports (PFRs) / FRs/ DPRs of intra state link proposals and activities considered incidental, supplementary or conducive to attainment of above objectives.	105.00	(a) Survey & Investigations for preparation of Feasibility Report of  1. Manas – Sankosh – Tista – Ganga (M – S – T – G) 2. Jogighopa – Tista – Farakka (Alternative to M – S – T – G) 3. Sone dam-STG link 4. Kosi – Ghagra link	Survey & Investigations and preparation of FRs, PFRs and DPRs in respect of Inter Basin Water Transfer link projects and intra-State link projects.	(a) FRs of the Himalayan links (S. No. 1 to 3) which involves international dimensions remain under progress. Work for FR of Kosi – Mechi link (S. No. 4) will be started after getting permission for carrying out S & I works in the Nepal territory. The S&I work of Sone dam –	A DPR normally takes 3-4 years for completion

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							(b) Efforts will be made by MOWR / NWDA to conveying the concurrence of concerned States, Madhya Pradesh & Rajasthan for signing of tripartite MOU for preparation of DPR of Parbati –Kalisindh – Chambal link. Efforts will be continued for arriving at a consensus for Mahanadi – Godavari – Krishna – Pennar – Cauvery – Vaigai – Gundar link system amongst the concerned States during 2014-15. (c) Various activities for post DPR work will remain under progress during the year 2014-15.
				(b) Preparations of DPR of Par-Tapi-Narmada (PTN) & Damanganga-Pinjal (DP) links.  (c) Preparation of Prefeasibility Reports of Intra – State link proposals, as proposed by State Govts.	The work of DPR will remain in progress and the DPR of Par-Tapi-Narmada (PTN) will be completed during the year 2014– 15. Two PFRs will be completed. Revision work of other PFRs as per comments/modifications suggested by concerned State Government will also be attended.	March 2015	
				(d) Post – DPR stage work of Ken – Betwa link Phase-II, & Damanganga-Pinjal (DP) link.  (h) Preparation of DPR of Intra-State links	The necessary clearances from MOEF, Planning Commission & Supreme Court and convening meetings with CWC / State Govts. / Other Central Agencies, attending to the comments of States / Central Agencies and deciding further modalities for execution of the projects will remain under process. (i) Ponnaiyar- Palar link of Tamil Nadu. (ii) Wainganga (Gosikhurd) - Nalganga (Purna Tapi) link of Maharashtra. (iii) Barakar-Damodar-Subarnarekha link of Jharkhand.	July 15,  March 16 &  March 17	



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ii) b	IWRD - CWC	Carrying out investigation in respect of identified projects for water resources development.		Survey & Investigation of Kirthai-II Multipurpose Project, Kalez Khola, Suntaley HEP, Sonai & Rukni Irrigation Schemes and Manas-Teesta-Sankosh link projects to continue. New projects in NER, Sikkim, J&K, HP and funding of national projects Gypsa, Bursar to continue.	The project investigation will be carried out for preparation of DPRs	Activities to continue throughout the year as a part of programme to be completed during 12th Plan.	
iii)	Re-Structuring of CWC	--	1.00	--	--	--	Scheme under approval stage (not recommended by EFC).
iv)	Brahamaputra Board	Survey, Investigation & preparation of Master Plan, DPRs for Drainage Development Schemes & DPRs for Multipurpose project, Operation & maintenance & upgradation of NEHARI, Construction of H.Q. Complex & R&M of assets created by the Board, Upgradation of IT&GIS, Climate Change Studies etc. Execution of (i) Drainage Development Schemes, (ii) Anti-erosion schemes & Flood Management Schemes, (iii) Construction of raised platform,,	143.00	3 Nos Master Plan, 2 Nos DPR of DDS, completion of DPR of Kulsi Multipurpose Projects, completion of 35% works of Barbhag DDS, 30% of Amjur DDS, 74% of Jengrai, 49% of Jakaichuk, 10% of Phase-II & III works of Protection of Majuli Island from flood and erosion, 5% of Phase-IV works of Protection of Majuli Island from flood and erosion, 30% works of Avulsion of Dhola Hatighuli Phase -V, Anti-erosion works - at Balat village at river Umngi in Meghlaya - 50%, anti-erosion works for protection of Mankachar, Kalairalga international border area from erosion of river Brahamaputra Assam - 24%, Anti-erosion measures in Maslabari in Assam near International Border 95%, Protection work of river Teesta at Bhajaner Charra, Cooch Behar, in West Bengal and Bhogdebri area,	(i). 3 Master Plans, DPRs of DDS and DPR of Kulsi MP project, (ii). Protection of Majuli Island - Phase- II & III - 23% , Phase-IV - 5%, Avulsion of Brahamaputra at Dhola Hatighuli - Phase-IV - 0.2% & Phase - V - 10%, Balat Village, Meghalaya - 35%, Mankachar, Kalairalga, Assam - 50%, Masalabari area, Assam - 50%, (iii) Two schemes in West Bengal - 50%, (iv) 25% works of Barbhag DDS, 30% works of Amjur DDS, 50% of Jengrai & 35% of Jakaichuk, (v) completion of construction of 2 raised platforms, (vi) Feasibility studies of Channalisation of river Brahamaputra.	To be implemented by Brahamaputra Board	Execution of schemes depend on timely communication of approval of 'Administrative Approval' and 'Expenditure Sanction', Techno-economic clearance' and 'Investment clearance.

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1	2	3	4	5	6	7	8
				Cooch Behar- 54%, works of Raised Platforms, Continuation of feasibility study of			
				channelization of river Brahmaputra, Operation & maintenance & upgradation of NEHARI, Upgradation of IT & GIS, Climate Change studies would be taken up.			
9	River Management Activities And Works Related To Border Rivers & UTs	Hydrological observations and investigations of Water Resources Projects with neighboring countries besides river management works on common/border rivers. Flood control, Anti-erosion and anti sea erosion works, Maintenance of flood protection works of Kosi and Gandak Projects (in Nepal).	175.00	(i) Continuation of Joint Hydrological observations on river Ganga with Bangladesh, and (ii) Transmission of flood related data from / to neighboring countries (iii) Preparation of Joint Detailed Project Reports (DPR). (iv) Development works on common/border rivers. (v) Anti-erosion and anti sea erosion works of UTs. (vi) Maintenance of flood protection works of Kosi and Gandak Projects (in Nepal).	Undertaking of anti-erosion flood protection works; Preparation of joint DPR with Nepal, continued Joint hydrological observations with Bangladesh, continuation of data observation and collection during 12th plan period.	The works will be implemented by Central Water Commission, Ganga Flood Control Commission, and State Governments of Bihar, Uttar Pradesh, Tripura, West Bengal, other border States and UTs.	
10	Farakka Barrage Project	(i) Special repair and Maintenance of Farakka Barrage Project and its appurtenant structure including feeder canal, Jangipur Barrage and replacement of barrage gates etc. (ii) Erosion control in the extended jurisdiction of FBP from 40 km u/s to 80 km d/s of Farakka Barrage to save land, crops, orchards, public buildings etc. along river Ganga-Padma.	150.00	(a) Maintaining the supply of sufficient discharge (40,000 cusecs) to Bhagirathi / Hooghly through Feeder Canal to maintain inland navigation along National Waterway-I (Ganga –Bhagirathi – Hooghly river system). (b) Maintaining direct road & rail link between Kolkata, North Bengal & Assam through existing rail cum road bridge across Ganga river at Farakka. (c) Protection of countryside dwellers, their land, public road, bridges etc. by checking the river erosion through	1 (a) Increasing of upland supply via Feeder Canal from River Ganga to Bhagirathi ( a branch of river Ganga) through operation of Barrage/ Head Regulator Gates at Farakka to improve the navigability in Bhagirathi Hooghly river system which is a part of Hooghly-Allahabad river System (National Water Way-1). (b) Contribution in improving socio-economic development of citizens of West Bengal by way of	Farakka Barrage Project will complete works as per approval and direction of Technical advisory Committee (TAC) of FBP headed by Member (D&R), CWC.	These are basically erosion & flood control works on river Ganga. Indeterminate nature of morphological behaviours of such alluvial rivers and uncertainty in onset of monsoon are the factors which affect these works.

SI.No	Name of scheme /programme	Objective/Outcome	Annual Plan (2014-15)	Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Process/Timelines	Remarks/Risk factors
1	2	3	4	5	6	7	8
				execution/maintenance of anti-erosion works along river Ganga-Padma in a length of about 1.5 km. (d) Replacement of old gates of Farakka Barrage . (e)Continuing implementation	preservation of natural resources (Land, building, orchard) through anti-erosion of rivers bank & flood management work as well as contribution in development of North-East		
				of India -Bangladesh Treaty (1996) for sharing of Ganga Water during lean period by controlling discharge at Farakka.	States by way of maintaining road & structures across the barrage which provide direct communication link to these states and 2. Repair and maintenance of existing structure / assets of FBP.		
11	Implementation Of National Water Mission(NWM)-New Scheme	Conservation of water, minimizing wastage and ensuring its more equitable distribution both across and within States through integrated water resources development and management. The National Water Mission identifies five goals as under;	40.00	National Water Mission Directorate - Rs.6.10 crore	Establishment of National Water Mission Secretariat is under process.	31.03.2015	Scheme approved on 25.10.2013 by MoF. NMW activities have been initiated since approval of the Scheme in 2013. Activities are at initial stage.
		1. Comprehensive water data base in public domain and assessment of the impact of climate change on water resource, 2. Promotion of citizen and state actions for water conservation, augmentation and preservation, 3. Focused attention to vulnerable areas including over-exploited areas, 4. Increasing water use efficiency by 20%, and 5. Promotion of basin level integrated water resources management.		Preparation of State Specific Action Plans - Rs. 6.50 croe	Initiation of formulation of State Specific Action Plan for water sector for 4 states.	31.03.2015	
				Human Resource Development and Capacity Building - Rs. 3.25 crore	Signing of 10 no. MoUs with National/State level institutions/organizations engaged in organizing capacity building and training programme for multiple stake holders including Central/State Government officials /local bodies/ WUAs etc.	31.03.2015	
				Setting up of National Bureau of Water Use Efficiency (NBWUE) - Rs. 3.75 crore	Establishment of NBWUE is under process.	31.03.2015	

Sl.No	Name of scheme /programme	Objective/Outcome	Annual Plan (2014-15)	Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Process/Timelines	Remarks/Risk factors
1	2	3	4	5	6	7	8
				Baseline Studies - Rs.10.40 crore	The baselines studies shall be undertaken in agriculture, industry and domestic sectors. Baseline studies in agriculture sector shall be	31.03.2015	
					undertaken through WALMIs. In the industry sector, the priority areas shall be textiles, beverages and steel sector.	31.03.2015	
				Preparation of Demonstrative/ benchmarking projects - Rs. 10.00 crore	Demonstration/ benchmarking projects shall be undertaken in agriculture, industry and domestic water sector	31.03.2015	
12	Irrigation Management Programme	Evolving Benchmarks for State specific water sector reforms and methodology for assessment of States' performance based on a suitable framework.	1.00	Evolution of framework for incentivizing States for improvement in irrigation management, Approval of Scheme yet to be processed. Evaluation of States as per framework, Release of incentives to State Governments	Incentivising States for improvement in irrigation management will result in increased water use efficiency, participatory irrigation management, better utilization of irrigation infrastructure.	Whole year	A questionnaire for "Evolving Benchmark For State Specific Water Sector Reforms And Methodology For Assessment Of States' performance Based On A Suitable Framework" has been finalized. The same has been forwarded to the National Water Mission Directorate for incorporation in the State Specific Action Plan under the National Water Mission being prepared by them for collection of information from the States. Further necessary action in the matter would be taken on receipt of response from the States.
13	Dam Rehabilitation and Improvement Project-	To supervise and coordinate the implementation of Dam	30.00	Implementation of Engineering and Management	40 - implementation Project Reports, 50	Uniformly Spread	

Sl.No	Name of scheme /programme	Objective/Outcome	Annual Plan (2014-15)	Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Process/Timelines	Remarks/Risk factors
1	2	3	4	5	6	7	8
	Central Component	Rehabilitation and Improvement Project with the following Activities: (a) Rehabilitation and improvement of about 223 large dams in four states (Madhya Pradesh, Orissa, Kerala and Tamil Nadu) with World Bank funding.		Consultancy for Central Project Management Unit (CPMU) of DRIP. Approval of Bid Documents beyond thresholds of State Project Management Units. Approval of Project Screening Templates	nos. Dam safety related training would be organized and 2 - international trainings & 5 - national trainings would be conducted.		
		(b) Dam safety Institution strengthening of party States and Central Water Commission  (c) Project Management  DRIP is a six year project. It has become effective from 18th April 2012.		Preparation of Technical, Managerial, and Project Implementation Reports  Technical Committee Meetings for guiding Project Implementation  Inspection/Visits of DRIP Dams  Organization of dam safety related trainings  Infrastructure Development of CPMU Office & DSO Unit of CWC. Purchase of Hydrologic/Design/ Dam Break Modeling Software		As and when submitted by SPMUs	
				Like Mike 11, MIKE 21, ARC GIS, FEM Software	Expenditure on hired vehicles for CPMU office		
14	Bodwad Parisar Sinchen Yojana of Maharashtra	one time grant to State Government of Maharashtra.	200.00	Grants will be released to State Governments as per their demands. Quantifiable outputs are: (i) Area covered, (ii) Central assistance released	Coverage of area for creation of irrigation potential	1st April, 2014 to 31st March, 2015. Progress monitored on quarterly basis.	Progress depends on receipt of proposals in complete respect from the States.
15	Impact Assessment Studies of projects Accelerated Irrigation Benefit & Flood Management Programme (AIBFMP)	To carry out impact assessment studies of Projects under AIBFMP	50.00	To carry out impact assessment studies of AIBP projects.		Whole year	
16	Polavaram Project Authority	Implementation of Polavaram Project as mandated by Andhra Pradesh Reorganisation Act, 2014.	250.00	Polavaram Project (also known as Indira Sagar (Polavaram) Project in the existing State of Andhra Pradesh, is a multi-purpose project with an assessed Culturable Command Area of 2.91 lakh hectares and power generation	The Authority shall also ensure expeditious execution, regulation and development of the project while simultaneously ensuring implementation of adequate environmental safeguard measures and	New scheme, no process / timelines has been set.	Actual estimates of work on the Polavaram Project and that of the Authority would be known only after the Authority is made functional. Based on informal data collected from the State Government a provision of Rs. 250 crore

SI.No	Name of scheme /programme	Objective/Outcome	Annual Plan (2014-15)	Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Process/Timelines	Remarks/Risk factors
1	2	3	4	5	6	7	8
				potential of 960 Mega Watt (MW). It also has a provision for supply of 23.44 Thousand Million Cubic Feet (TMC) water as delinking water supply to Vishakhapatnam city and other areas, as also industrial water supply to Vishakhapatnam Steel Plant. An inter basin transfer of 80 TMC water annually to Krishna river basin is also envisaged.	proper rehabilitation of oustees. The Authority, being under the Central Government, is expected to instill confidence in both the successor States of Telangana and Andhra Pradesh, as also in other riparian States, namely Odisha and Chattisgarh that the execution of the Project is being carried out in a transparent and equitable manner.		has been made which would be firmed up at the RE stage by which time the Authority would become functional.
17	National River Conservation Plan	This is a new scheme which has been included in the budget of Ministry of Water Resources during the Financial Year 2014-15. The Budget provision is for National River Conservation Plan, for greater efficiency in programme delivery, the programme has been shifted to the Ministry of Water Resources from Ministry of Environment and forest.	537.00	As the schemes are new, no further project details are available at this stage.			
18	National Ganga Plan (Met from balance under NCEF)	This is a new scheme which has been included in the budget of Ministry of Water Resources during the Financial Year 2014-15. The Budget provision is for cleaning of Ganga. The amount is to be met from National Clean Energy Fund (NCEF).	1500.00	As the scheme is new, no further project details are available.			
19	DPR for interlinking of Rivers	This is a new scheme which has been included in the budget of Ministry of Water Resources during the Financial Year 2014-15. The Budget provision is for preparation of Detailed Project Report for Inter-linking of Rivers.	100.00	As the scheme is new, no further project details are available.			

Sl.No	Name of scheme /programme	Objective/Outcome	Annual Plan (2014-15)	Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Process/Timelines	Remarks/Risk factors
1	2	3	4	5	6	7	8
20	Ghat works for beautification of river fronts	This is a new scheme which has been included in the budget of Ministry of Water Resources during the Financial Year 2014-15. The Budget provision is for River front development and beautification of their Ghats.	100.00		As the scheme is new, no further project details are available.		
21	Water projects for NCT	This is a new scheme which has been included in the budget of Ministry of Water Resources during the Financial Year 2014-15. The Budget provision is for improving supply of water in the NCT of Delhi. The amount includes provisions for Renuka Dam.	500.00		As the scheme is new, no further project details are available.		
		TOTAL	4744.78				
<b>CENTRALLY SPONSORED SCHEMES</b>							
22	<b>Accelerated Irrigation Benefit &amp; Flood Management Programme</b>						
i	AIBP and National Projects	Grant is released to State Governments under AIBP to complete ongoing Major, Medium & Minor irrigation/multipurpose projects in advanced stage of construction and which are beyond the resource capability of State Government in a time bound manner with a view to (A) Create additional irrigation potential and (B) Derive envisage benefits from these projects.	6265.22	Irrigation Potential of 0.6 million hectares is targeted for creation. 5 Nos. Of major/medium irrigation projects and 1000 MI schemes are targeted for completion.	Coverage of area for creation of irrigation potential	1st April, 2014 to 31st March, 2015. Progress monitored on quarterly basis.	The projects included in the AIBP are to be executed by respective State Govts. The time for completion of Major/Medium Irrigation Scheme is 5 years and MI schemes are 3 years including the year of inclusion under AIBP.

Sl.No	Name of scheme /programme	Objective/Outcome	Annual Plan (2014-15)	Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Process/Timelines	Remarks/Risk factors
1	2	3	4	5	6	7	8
ii	Command Area Development and Water Management (CADWM) Programme	Grant is released to State Governments under CADWM Programme. At least 10% of the total Culturable Command Area (CCA) of each new project is to be covered under micro irrigation during XII Plan.	1077.00	Grants released to State Governments as per their demands. Quantifiable outputs are: (i) Irrigation Potential of 0.5 million hectares is targeted for creation. (ii) Central assistance released.	(i) Development of adequate delivery system of irrigation water upto farmers' field with an objective to enhance water use efficiency and production and productivity of crops for improving Socio-economic conditions of farmers. (ii) Coverage of Culturable Command Area (CCA) for utilisation of irrigation potential created.	1st April, 2014 to 31st March, 2015. Progress monitored on quarterly basis.	Progress depends on receipt of proposals in complete respect from the States. The scheme is being implemented Pari-Passu with AIBP in XII Plan.
iii	Repair, Renovation and Restoration (RRR) of Water Bodies	Grant is released to State Governments for Repair, Renovation and Restoration of Water Bodies	750.00	To provide central assistance for restoration of about 10000 water bodies in XII Plan.	Restoration of irrigation potential. (i) Ground water Recharge, (ii) All round socio-economic development of people, (iv) Enhancement of availability of drinking water.	1st April, 2014 to 31st March, 2015. Progress monitored on quarterly basis.	Progress depends on receipt of proposals in complete respect from the States.
iv	Flood Management Programme	To provide financial assistance to various State Governments for works related to river management, flood control, anti-erosion, drainage development, flood proofing, restoration of damaged flood management works and anti-sea erosion in critical areas in the country, catchment area treatment and related DPRs.	900.00	(i) River management works in critical areas (ii) Anti-erosion works, drainage development works (iii) Anti-sea erosion works in critical areas in the country (iv) Catchment area treatment works and related DPRs. (v) A total of 97 No. Of new projects have been approved for funding under FMP during XII Plan.	The central assistance will be provided for projects as per guidelines. The activity will help the States in reducing damages due to flood, river bank erosion, coastal erosion and reduction of sediment erosion in selected river catchments.	The project completion schedule would be generally 2 to 4 years.	Timely submission of proposals by States with all mandatory documents / clearances.
		Total: AIBFMP	8992.22				
23	Pradhan Mantri Krishi Sinchai Yojana	Government of India proposes to launch Pradhan Mantri Krishi Sinchan Yojana during 2014-15 of XII Plan. This programme will be somewhat similar to existing surface	1000.00	As the scheme is new, no further project details are available.			



SI.No	Name of scheme /programme	Objective/Outcome	Annual Plan (2014-15)	Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Process/Timelines	Remarks/Risk factors
1	2	3	4	5	6	7	8
		<p>Minor Irrigation schemes under AIBP with two major policy changes. At present, under AIBP, the surface minor irrigation schemes are eligible for central assistance only in the Special category states, hilly states and undivided Koraput, Bolangir &amp; Kalahandi (KBK) districts and surface minor irrigation schemes benefitting tribal areas, drought prone areas, desert development programme (DDP) areas, Left Wing Extremists areas in Non-special category states. The assistance is in the ratio of 90:10 (centre:state) in ongoing surface minor irrigation schemes. The new schemes will cover areas not currently being covered and will come into effect from 1.4.2015. The second change i.e. the funding pattern for the general category states/areas will be limited to 50% of the total cost of the project. An additional potential of 5 lakh hectare is anticipated in the last two years of XII Plan. An additional outlay of Rs. 5,000 crore is required for this scheme.</p>					
		<b>GRAND TOTAL</b>	<b>14737.00</b>				

## CHAPTER – III

### REFORM MEASURES AND POLICY INITIATIVES

3.1 **National Water Development Agency:** Mandate of NWDA has been approved in the 4<sup>th</sup> Special General Meeting of NWDA society to prepare the DPR of intra-State links after getting concurrence of Co-basin States. The revised EFC memo of NWDA including work of preparation of DPRs of intra-State Links has already been approved and the Gazette Notification of enhanced mandate has been published. NWDA started preparation of two DPRs of intra-State links viz. Burhi Gandak-Noon-Baya-Ganga & Kosi-Mechi link of Bihar State during 2011-12 after approval of revised EFC Memo of XI<sup>th</sup> Plan period and work of 2 more links (one of Maharashtra and one of Tamil Nadu) taken up during 2012-13. One more DPR of intra-State link of Jharkhand has been initiated during 2014-15.

3.2 **Dam Safety Bill:** In pursuance of the Resolution passed by the House of State of West Bengal and erstwhile State of Andhra Pradesh, empowering the Parliament to pass the necessary Dam Safety Act. under article 252 of the Constitution, a proposal for enactment of dam safety legislation as approved by the Cabinet on 13<sup>th</sup> May, 2010, was introduced in 15<sup>th</sup> Lok Sabha and was tabled before the Parliament on the 30<sup>th</sup> August, 2010. The Bill was subsequently referred to the parliamentary Standing Committee on Water Resources on 9<sup>th</sup> September, 2010 for examination.

3.2.1. The Parliamentary Standing Committee submitted its recommendations vide its Seventh Report on Dam Safety Bill, 2010 in the Parliament, and the same was communicated by the Lok Sabha Secretariat vide O.M. No. 12/5/WR/2011 dated 17<sup>th</sup> August, 2011.

3.2.2. The observations and recommendations of the Standing Committee on Water Resources were examined by the Ministry for appropriated compliance. Accordingly, a Dam Safety Bill, duly vetted by the Ministry of Law (both Deptt. Of Legal Affairs and Legislative department), was prepared and was circulated on 22.05.2013 for Inter-Ministerial consultations. Certain suggestions were made by the Cabinet Secretariat on 08.07.2013.

3.2.3. After considering the same, the Ministry of Water Resources prepared revised draft cabinet note for the amendment Bill to Dam Safety Bill, 2010 and with the approval of the then Hon'ble Minister (WR) same was sent to the MoL&J for vetting. By the time MoL&J had vetted the draft amendment Bill, the Lok Sabha stood dissolved.

3.2.4. On formation of the new Government, the approval of the Cabinet would be obtained afresh. In the meantime, with the bifurcation of State of Andhra Pradesh as per Andhra Pradesh Reorganization Act, 2014 which was notified on 01.03.2014, the Resolution adopted by the House of erstwhile Andhra Pradesh Legislative Assembly on 24.03.2007 for the enactment of the Dam Safety Act by the Parliament in pursuance of the clause (1) of the Article 252 of the Constitution of India requires fresh consideration/ approval by the House of newly created States of Telengana and State of Andhra Pradesh. Only after getting the response from both the States, further action can be taken.

### 3.3 National Water Mission:

3.3.1 The Government of India has launched National Water Mission as one of the eight National Missions under National Action Plan for Climate Change. The Union Cabinet approved, on 6<sup>th</sup> April, 2011, the comprehensive Mission Document for National Water Mission (NWM). The objective of NWM is “conservation of water, minimizing wastage and ensuring its more equitable distribution both across and within States through integrated water resources development and management”. Five goals identified for the NWM are:

- i. Comprehensive water data base in public domain and assessment of the impact of climate change on water resource,
- ii. Promotion of citizen and state actions for water conservation, augmentation and preservation,
- iii. Focused attention to vulnerable areas including over-exploited areas,
- iv. Increasing water use efficiency by 20%, and
- v. Promotion of basin level integrated water resources management.

3.3.2. Various strategies for achieving the goals have been identified which lead to integrated planning for sustainable development and efficient management with active participation of the stakeholders.

3.3.3. In pursuance of the approval accorded by the Union Cabinet to the National Water Mission, a Mission Secretariat was established in the Ministry of Water Resources. Eight Advisory Groups/Committees envisaged in the NWM Document have also been constituted.

3.3.4. The Planning Commission has allocated Rs. 1390 crore for “Implementation of the National Water Mission” Scheme during the 12<sup>th</sup> Plan period and another Rs.100 crores for HRD and Capacity Building of NWM. The MoF has approved an outlay of Rs.196 crores for implementation of the NWM for activities that include Setting up NWM secretariat, Baseline studies, Formulation of State Specific Action Plans (SSAPs), Capacity Building, Establishment of demonstration projects and Setting up of National Bureau of Water Use Efficiency (NBWUE). Activities have since commenced. Once NBWUE is established, a detailed Plan of action will be formulated for achieving the objective of NWM. The status of various activities of the NWM Scheme is as under: -

**(i) National Water Mission Directorate :**

The objectives of the NWM can be achieved through proper co-ordination, close monitoring and in-depth evaluation at regular intervals. Therefore a dedicated Directorate /Secretariat is necessary. National Water Mission Directorate is headed by a Mission Director in the rank of Additional Secretary to the Government of India and is supported by two Advisors in the rank of Joint Secretary to the Government of India. One Advisor shall be devoted to technical evaluations and the other for co-ordination and monitoring.

**(ii) State Action Plans on Climate Change and current progress :**

MoWR has initiated action for preparation of State Specific Action Plans on Climate Change for Water sector in consultation with Central Government Ministries/ State Governments. State Govts. have been requested to consider establishing a State Water Mission under the Chief Secretary/Development Commissioner of the State for successfully implementing the Mission objective and to consider aligning the programmes and schemes of the State in the Water

Sector with the goals of the NWM. Some of the States have initiated action for establishment of State Water Mission.

**(iii) Human Resource Development and Capacity Building:**

The focus would be on:-

- Sensitization and capacity building of Local Governing Bodies, Panchayats, Municipalities, and Urban Local Bodies are integral to implementation of NWM. Promotion of citizen and state actions for water conservation, augmentation and preservation as a part of Goal No. 2, NWM;
- Empowerment and involvement of Panchayati Raj Institutions, Urban Local Bodies, Water Users' Associations and other primary stake holders in management of water resources with focus on water conservation and augmentation.
- Sensitization of elected representatives of over-exploited areas on dimensions of the problems and to orient investment under MNREGP towards water conservation.
- Interactive sessions with policy makers for sensitization.
- Capacity building for organizations associated with water resources development and management.

During the FY 2014-15 it is proposed to sign 10 no. MoUs with National/State level institutions/ organizations engaged in organizing capacity building and training programme for multiple stake holders including Central/State Government officials /local bodies/ Water User Associations (WUAs)etc.

Two Round Table Conferences have already been held with the representatives of Industries on 01.10.2013 and 29.10.2013 in partnership with FICCI and CII respectively at New Delhi on Strategizing and Mainstreaming CSR Initiatives of industry into Water Sector and to help achieving the objectives under NWM:

**(iv) Proposal for Setting up of National Bureau of Water Use Efficiency (NBWUE):**

Increasing water use efficiency is envisaged in agricultural, domestic and industrial sector. The approach has to be different in each sector. While, agriculture accounts for more than 80% of water usage, domestic sector accounts for around 7% with industrial sector accounting for around 13%.

Ministry of Water Resources proposes to set up a National Bureau of Water Use Efficiency (NBWUE) for the purpose of improving water use efficiency across various Sectors and to meet the target of NWM Goal No 4, which envisages to increase water efficiency by 20%. National Bureau of Water Use Efficiency (NBWUE) shall be an Authority under Environment (Protection) Act1986 for the purpose of promotion, regulation and control of efficient use of water in irrigation, municipal and / or industrial uses.

**(v) Baseline studies:**

Central Water Commission has initiated action for taking up of baseline studies in the area of Major/Medium Irrigation Projects with the Water and Land Management Training and Research Institute (WALAMTARI), Hyderabad, Water and Land Management Institute (WALMI), Aurangabad. It was decided that detailed action plans will be prepared by the Institutes and submitted to CWC.

The baselines studies shall be undertaken in agriculture, industry and domestic sectors. Baseline studies in agriculture sector shall be undertaken through WALMIs. In the industry sector, the priority areas shall be textiles, beverages and steel sector.

**(vi) Preparation of DPR for Demonstrative/benchmarking projects:**

Demonstration/ benchmarking projects shall be undertaken in agriculture, industry and domestic water sector. Preparation of Detailed Project Report (DPR) for demonstrative benchmarking projects in agriculture/irrigation sector shall be undertaken through Central Water Commission.

**3.4. Review of National Water Policy:**

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

3.4.1. A series of consultation meetings were held with Members of Parliament; Academia, Experts and Professionals; Non-Governmental Organizations; representatives of the Corporate Sector; and representatives of Panchayati Raj Institutions. The National Water Board considered the Revised Draft National Water Policy (2012) at its 14th meeting held on 7th June, 2012. The draft policy was also discussed with the Consultative Committee of Parliament. The Draft National Water Policy (2012) was deliberated by the National Water Resources Council (NWRC) at its 6th meeting on 28th December, 2012 at Vigyan Bhawan, New Delhi under the Chairmanship of Hon'ble Prime Minister of India, wherein the National Water Policy (2012) was adopted as per deliberations.

**3.4.2. National Water Framework Law**

A National Water Framework Law would lead the way for essential legislation on water governance in every State of the Union and devolution of necessary authority to the lower tiers of government to deal with the local water situation. For the preparation of Draft Water Framework Act, a Drafting Committee headed by Dr. Y.K. Alagh was constituted on 3rd July, 2012. The Report of the Committee was submitted in May, 2013. The Report was placed before the National Forum of Water Resources / Irrigation Ministers of States at its first Meeting held in New Delhi on 29.05.2013 and also provided to the States / UTs. The same was also placed on the Ministry of Water Resources website for comments.

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

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

#### **3.4.4. Hydro-meteorological Data Dissemination Policy**

The objective of the policy is to facilitate the access to Government of India owned shareable data and information through a network all over the country in a proactive and periodically updatable manner, within the framework of various related policies, Acts and rules of Government of India, thereby permitting a wider accessibility and use of public data and information. The Ministry of Water Resources (MoWR) has formulated a Hydro-meteorological Data Dissemination Policy and the same is being followed. The policy has been published in 2013 with the approval of Hon'ble Minister (WR). The entire data except that for Ganga, Brahmaputra, Meghna & Indus Basin have been declared unclassified under the policy & are available on India WRIS portal.

#### **3.5. Irrigation Management Programme**

3.5.1. The XIIth Five Year Plan Document inter alia proposes a Plan Scheme titled "Irrigation Management Programme" to incentivize States to undertake water sector reform with a total outlay of Rs. 6,000 crores. In order to formulate the said scheme, it is proposed to evolve Benchmarks for State Specific Water Sector Reforms and Methodology for Assessment of States' performance based on a suitable framework.

3.5.2. A questionnaire for "Evolving Benchmark for State Specific Water Sector Reforms and Methodology for Assessment of States' Performance Based on A Suitable Framework" has been finalized. The same has been forwarded to the National Water Mission Directorate for incorporation in the State Specific Action Plan under the National Water Mission being prepared by them for collection of information from the States. Further action in the matter would be taken on receipt of response / comments from the States.

#### **3.6. Result Framework Document (RFD)**

The National Institute of Hydrology (NIH) has finalized its RFD, providing a summary of the most important results that a department / ministry expects to achieve during the financial year. This document contains not only the agreed objectives, policies, programs and projects put also success indicators and targets to measure progress in implementing them, and provides an objective and fair basis to evaluate department's overall performance at the end of the year.

3.7. **International Cooperation:** India has been implementing the Indus Water Treaty signed between India and Pakistan under the aegis of World Bank under International cooperation.

#### **3.7.1. Bilateral Cooperation with Australia:**



- i. The Governments of India and Australia entered into a Memorandum of Understanding (MoU) in the field of water resources management on 10<sup>th</sup> November, 2009. The MoU envisages that both the sides will work to enhance cooperation in the field of water resources management and development through sharing of policy and technical experience on water management, both surface and ground water and particularly the river basin management and impact of climate change on water resources.
- ii. A Joint Working Group (JWG) having equal number of members from both the sides was constituted to monitor the engagements being carried out in fulfillment of the above MoU. The JWG developed/finalised an Action Plan for fulfillment of objectives of the above MoU during its first meeting on 19.11.2012 in New Delhi. One major activity identified in the Action Plan was to collaboratively develop a Project Plan for Integrated Water Resources Management (IWRM) and Planning, drawing together key policy, scientific and information inputs for a river basin in India and if agreed, to complete the Project within three years.
- iii. Under the JWG, Australia is sharing its experiences in IWRM and planning with India. The development of IWRM for Brahmani-Baitarni River Basin involves specialist from Australia's Commonwealth Scientific and Industrial Research Organization (CSIRO), Water and other Australian organizations working with Indian counterparts.
- iv. Keeping in view the potential of water resources development and being an inter-state-water-dispute-free river basin, Brahmani Baitarani river basin was selected for the IWRM project.
- v. Three States, viz. Jharkhand, Odisha and Chhattisgarh are assisting in the project.
- vi. The second formal meeting of the JWG took place in Australia from 29<sup>th</sup> April to 3<sup>rd</sup> May, 2013 during which policy experience in water reform was shared by Australia. Detailed action plan for the next two years was also discussed during this meeting. It was also decided to set up a small centre at CWC, HQ in New Delhi, which will coordinate with various stakeholders/agencies in collection of data/information required and assist in preparation of IWRM plan for the said basin. This centre is working in CWC.
- vii. As agreed during the second meeting, a two-day executive master class (workshop) by Australian water experts for senior level officers of the Ministry and concerned organisations to discuss pathways to river basin reforms and efficient water use as well as preparation of IWRM plan for Brahmani-Baitarni Basin was organized at CWC on 30-31 October, 2013. Thereafter, a two-week training at National Water Academy, Pune on e-Water was also organized by the Australian water experts during 18-29 November, 2013 in which engineers/officials from CWC, CGWB, NIH and IMD participated.
- viii. Recently, Australian Water Experts undertook a field-visit to Brahmani-Baitarani Rivers Basin in Odisha and Jharkhand during 10-13 March, 2014 as a part of preparation of IWRM Plan for this River Basin. Thereafter, a follow-up meeting was chaired by Secretary (WR) at New Delhi with the visiting delegation in which the representatives of the States concerned and members of JWG also took part.

### **3.7.2. Bilateral Cooperation with other countries:**

- i. Ministry of Water Resources has recently signed Memoranda of Understanding with other countries also for bilateral cooperation in the field of water resources management and development. A Memorandum of Understanding (MoU) on cooperation

in the field of water resources development and management between Hon'ble Minister for Water Resources and Hon'ble Minister for Agriculture and Animal Resources, Republic of Rwanda was signed on 22<sup>nd</sup> January, 2013 at New Delhi. Thereafter, a Joint Commission having three members from each side has been constituted to carry out the likely engagements of the MoU.

ii. During 17<sup>th</sup> India-Iran Joint Commission Meeting held in Tehran, an MoU for bilateral cooperation in water resources management was signed on 4<sup>th</sup> May, 2013. At present, the process of formation of Joint Working Group is underway.

iii. During the visit of Hon'ble Prime Minister of Iraq to India in August, 2013, a Memorandum of Understanding between the Government of India and the Government of Iraq on bilateral cooperation in water resources development and management was signed on 23<sup>rd</sup> August, 2013 at New Delhi. We are now setting up Joint Working Group having equal number of members from both the sides to implement the MoU.

iv. During the visit of Finance Minister of Government of Republic of Fiji to India, a Memorandum of Understanding for bilateral cooperation with Fiji in the field of Water Resources Management was signed by Secretary (WR) and High Commissioner of Fiji to India on 12-2-2014 at New Delhi. The constitution of Joint Working Group is under process.

v. MoU with Israel and Morocco for bilateral cooperation in water resources are also under consideration.

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

- Strengthening of hydrological data collection;
- Setting up of a Water Informatics Centre for data management;
- Aquifer mapping of the whole country to quantify accurately, the quantum of ground water available for use;
- Participatory management of ground water for sustainability;
- Setting up of an Institute of Water Resources to promote policy research in water;
- Promote basin level integrated water resources management by comprehensive restructuring of CWC;
- Demonstrative projects of bench marking efficiency of irrigation in large irrigation projects;
- Institution of an Irrigation Management Fund for Incentivization of reforms in the water sector;
- After recent restructuring of Centrally Sponsored Schemes, all Plan schemes under which Central Assistance is provided to the States are to be classified & budgeted as Central Assistance as 'Accelerated Irrigation Benefit & Flood Management Programme' which consists of 4 sub-schemes viz. AIBP & National Project, CAD&WM, Flood Management Programme and Repair, Renovation & Restoration of Water Bodies with effect from 2014-15 (BE);
- Special thrust to Extension Renovation and Modernization of projects (ERM);
- Sustainable ground water development programme for the Eastern and North-Eastern States to provide half a million irrigation structures,
- During the year 2014-15, a new Centrally Sponsored Scheme viz. Pradhan Mantri Krishi Sinchai Yojana with a budget allocation of Rs. 1000 Cr. has been included in the budget of this Ministry.



- Similarly during 2014-15, 6 new Plan Schemes included in the budget of this Ministry are as under:-
  1. Polavaram Project Authority – Cabinet has recently approved constitution of Polavaram Project Authority under Andhra Pradesh Reorganisation Act, 2014 to be funded by Central Government.
  2. DPR for Interlinking of Rivers – The provision is for preparation of detailed project report for inter-linking of Rivers.
  3. National River Conservation Plan – The provision is for National River Conservation Plan. For greater efficiency in programme delivery, the programme has been shifted to the Ministry of Water Resource from Ministry of Environment and Forest.
  4. National Ganga Plan – The programme is for cleaning of Ganga. The amount is to be met from National Clean Energy Fund (NCEF).
  5. Ghat works for beautification of River front – The provision is for River front development and beautification of their Ghats.
  6. Water projects of NCT – The provision is for improving supply of water in the NCT of Delhi. The amount includes provisions for Renuka Dam.

## CHAPTER - IV

### REVIEW OF PAST PERFORMANCE

4.1 The relevant information regarding performance during 2012-13 and 2013-14 (up to March 2014) against the targets already set is given at **Annexure-I** and **Annexure-II** respectively.

4.2 There is one Flagship Programme of this Ministry namely, 'Accelerated Irrigation Benefit & Flood Management Programme' 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 in **Annexure-IV** and XII Plan outlay with Annual Plan for 2014-15 is in **Annexure-V**.

### TREND OF EXPENDITURE IN FY 2013-14:

5.2 Budget Estimate for the annual plan of this Ministry for the year 2013-14 was Rs. 1500.00 crores which was reduced to Rs. 700.00 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.531.84 crores has been incurred upto March 2014 which works out to 35.46% and 75.97% with reference to B.E and R.E 2013-14 respectively.

5.3 The grant of Ministry of Water Resources for FY 13-14 is classified into four Sectors. The Sector-wise distribution of approved plan outlay (both BE/RE) and expenditure up to March 2014 under different Sectors are summarized below:

(Rs in crore)			
Sector	B.E. 2013-14	R.E. 2013-14	Exp. upto March 2014
Medium Irrigation	643.53	242.30	206.47
Minor Irrigation	312.02	154.70	88.94
Flood Control	394.45	188.00	145.50
Transport Sector	150.00	115.00	89.82
<b>Total</b>	<b>1500.00</b>	<b>700.00</b>	<b>530.73</b>

### 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 during the year 2014-15:

## Central Sector

1. Development of Water Resources Information System
2. Hydrology Project
3. HRD/Capacity Building
4. Research & Development Programme
5. Implementation of National Water Mission
6. Irrigation Management Programme
7. Dam Rehabilitation & Improvement Programme
8. River Basin Management
9. Ground Water Management and Regulation
10. Farakka Barrage Project
11. Flood Forecasting
12. River Management Activities and works related to Border Rivers
13. Infrastructure Development
14. Impact assessment studies of AIBFMP
15. Bodwad Parisar Sinchan Yojana of Maharashtra
16. Polavaram Project Authority\*
17. National River Conservation Plan\*
18. National Ganga Plan (Met from balance under NCEF)\*
19. DPR for Interlinking of rivers\*
20. Ghat works for beautification of river fronts\*
21. Water projects for NCT\*

## Centrally Sponsored Schemes

22. Accelerated Irrigation Benefit and Flood Management Programme:-
  - i. Accelerated Irrigation Benefit Programme and National Project,
  - ii. Command Area Development Programme
  - iii. Flood Management Programme
  - iv. Repair, Renovation and Restoration of Water Bodies
23. Pradhan Mantri Krishi Sinchai Yojana\*

5.7 A comparative table showing Budget allocated and spent 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.

*\*These schemes are new schemes incorporated in the Budget of MoWR during 2014-15.*

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

(Rupees in crore)

Sl No.	Sector/ Organisation /Scheme	Actuals 2012-13		BE 2013-14		RE 2013-14		BE 2014-2015		Total 2014-15	B.E.
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan		
1.	2.	3.	4.	9.	10.	7.	8.	9.	10.	11.	
<b>I.</b>	<b>Secretariat- Economic Services</b>										
1.	Ministry of Water Resources	0.00	44.77	0.00	38.41	0.00	51.96	0.00	42.70	42.70	
2.	Ravi-Beas Waters Tribunal	0.00	0.40	0.00	0.48	0.00	0.39	0.00	0.56	0.56	
3.	Cauvery Water Disputes Tribunal	0.00	1.55	0.00	2.24	0.00	1.52	0.00	3.40	3.40	
4.	Krishna Water Disputes Tribunal	0.00	1.85	0.00	1.95	0.00	2.13	0.00	2.30	2.30	
5.	Vansadhara Water Dispute Tribunal	0.00	2.72	0.00	4.22	0.00	3.00	0.00	4.38	4.38	
6.	Mahadayi Water Disputes Tribunal	0.00	1.23	0.00	3.59	0.00	2.52	0.00	2.78	2.78	
	<b>Total :</b>	<b>0.00</b>	<b>52.52</b>	<b>0.00</b>	<b>50.89</b>	<b>0.00</b>	<b>61.52</b>	<b>0.00</b>	<b>56.12</b>	<b>56.12</b>	
<b>II.</b>	<b>Medium Irrigation Central Water Commission</b>										
1.	Direction & Administration	0.00	27.51	0.00	31.41	0.00	28.90	0.00	31.16	31.16	
2.	Data Collection	0.00	88.39	0.00	95.02	0.00	82.53	0.00	96.79	96.79	
3.	Training	0.00	0.31	0.00	0.42	0.00	0.32	0.00	0.43	0.43	
4.	Research	0.00	1.77	0.00	2.01	0.00	2.02	0.00	2.35	2.35	
5.	Survey & Investigation	0.00	8.23	0.00	6.04	0.00	5.84	0.00	7.09	7.09	
6.	Consultancy	0.00	28.68	0.00	29.63	0.00	26.95	0.00	28.83	28.83	
7.	Contribution to international bodies										
8.	Seminars and conferences on water resources on water.	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.01	
9.	Exhibition and Trade Fair	0.00	0.14	0.00	0.16	0.00	0.17	0.00	0.20	0.20	
10.	Modernization of equipment CWC Offset Press	0.00	0.28	0.00	0.29	0.00	0.26	0.00	0.31	0.31	

SI No.	Sector/ Organisation /Scheme	Actuals 2012-13		BE 2013-14		RE 2013-14		BE 2014-2015		Total B.E. 2014-15
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	
1.	2.	3.	4.	9.	10.	7.	8.	9.	10.	11.
11.	Cell for monitoring externally aided projects	0.00	1.14	0.00	1.26	0.00	0.85	0.00	0.98	0.98
12.	Water Planning Wing	0.00	1.58	0.00	1.93	0.00	1.58	0.00	1.83	1.83
13.	Hydrological observations in Chenab basin	0.00	2.20	0.00	2.38	0.00	2.70	0.00	2.93	2.93
	<b>Total : CWC</b>	<b>0.00</b>	<b>160.23</b>	<b>0.00</b>	<b>170.57</b>	<b>0.00</b>	<b>152.13</b>	<b>0.00</b>	<b>172.91</b>	<b>172.91</b>
14.	Central Soil and Materials Research Station	0.00	9.87	0.00	12.01	0.00	9.45	0.00	10.83	10.83
15.	Central Water & Power Research Station	0.00	33.91	0.00	44.10	0.00	44.88	0.00	48.11	48.11
16.	National Institute of Hydrology	0.00	10.32	0.00	9.65	0.00	12.80	0.00	14.00	14.00
17.	Sardar Sarovar Construction Advisory Committee	0.00	0.76	0.00	0.88	0.00	0.77	0.00	0.91	0.91
18.	Bansagar Control Board	0.00	0.19	0.00	0.25	0.00	0.29	0.00	0.35	0.35
19.	Sutlej Yamuna Link Canal Project	0.00	0.00	0.00	5.79	0.00	0.80	0.00	15.00	15.00
20.	Upper Yamuna River Board	0.00	0.87	0.00	1.40	0.00	1.40	0.00	1.40	1.40
21.	Krishna River Management Board	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00
22.	Godavari River Management Board	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00
23.	Mulla Periyar Dam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.50
23.	Research and Development Programme	31.37	0.00	50.00	0.00	35.00	0.00	50.00	0.00	50.00
24.	Development of Water Resources Information System	38.30	0.00	149.98	0.00	43.00	0.00	225.38	0.00	225.38
25.	Hydrology Project	37.90	0.00	70.00	0.00	50.00	0.00	31.38	0.00	31.38
26.	Infrastructure Development	1.41	0.00	2.55	0.00	1.30	0.00	2.90	0.00	2.90
27.	HRD/ Capacity Building	11.09	0.00	85.00	0.00	24.50	0.00	43.00	0.00	43.00
28.	River Basin Management	58.67	0.00	100.00	0.00	65.00	0.00	107.00	0.00	107.00
29.	Implementation of National Water Mission	0.00	0.00	110.00	0.00	2.00	0.00	40.00	0.00	40.00

SI No.	Sector/ Organisation /Scheme	Actuals 2012-13		BE 2013-14		RE 2013-14		BE 2014-2015		Total B.E. 2014-15
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	
1.	2.	3.	4.	9.	10.	7.	8.	9.	10.	11.
30.	Irrigation Management Programme	0.24	0.00	40.00	0.00	0.10	0.00	1.00	0.00	1.00
31.	Dam Rehabilitation and Improvement Programme	0.43	0.00	36.00	0.00	9.00	0.00	30.00	0.00	30.00
32.	Bodwad Parisar Sinchan Yojana	0.00	0.00	0.00	0.00	12.40	0.00	200.00	0.00	200.00
33.	AIBFMP (Impact Assessment Studies)	0.00	0.00	0.00	0.00	0.00	0.00	50.00	0.00	50.00
34.	Accelerated Irrigation Benefit Programme & Flood Management Programme (Centrally Sponsored Scheme)	0.00	0.00	0.00	0.00	0.00	0.00	8992.22	0.00	8992.22
35.	Polavaram Project Authority	0.00	0.00	0.00	0.00	0.00	0.00	250.00	0.00	250.00
36.	DPR for Interlinking of rivers	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00
37.	Pradhan Mantri Krishi Sinchai Yojana	0.00	0.00	0.00	0.00	0.00	0.00	1000.00	0.00	1000.00
	<b>Total: Medium Irrigation</b>	<b>179.41</b>	<b>216.15</b>	<b>643.53</b>	<b>244.65</b>	<b>242.30</b>	<b>222.52</b>	<b>11122.88</b>	<b>266.01</b>	<b>11388.89</b>
<b>III</b>	<b>Minor Irrigation</b>									
1.	Central Ground Water Board		0.00	118.65	0.00	134.31	0.00	127.32	0.00	136.35
2.	Ground Water Management and Regulation	118.28	0.00	275.00	0.00	140.00	0.00	325.00	0.00	325.00
3.	Development of Water Resources Information System	0.00	0.00	0.02	0.00	0.00	0.00	0.02	0.00	0.02
4.	Infrastructure Development	3.45	0.00	28.00	0.00	7.70	0.00	48.60	0.00	48.60
5.	HRD/ Capacity Building	6.09	0.00	9.00	0.00	7.00	0.00	7.00	0.00	7.00
	<b>Total : Minor Irrigation</b>	<b>127.82</b>	<b>118.65</b>	<b>312.02</b>	<b>134.31</b>	<b>154.70</b>	<b>127.32</b>	<b>380.62</b>	<b>136.35</b>	<b>516.97</b>
<b>IV.</b>	<b>Flood Control</b>									
1.	Central Water Commission	0.00	71.36	0.00	74.72	0.00	72.59	0.00	79.91	79.91
2.	Payment to Govt. of Bhutan for	0.00	0.00	0.00	1.20	0.00	0.23	0.00	1.18	1.18



Sl No.	Sector/ Organisation /Scheme	Actuals 2012-13		BE 2013-14		RE 2013-14		BE 2014-2015		Total 2014-15	B.E.
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan		
1.	2.	3.	4.	9.	10.	7.	8.	9.	10.	11.	
	maintenance of flood forecasting and warning centres										
3.	Strengthening and modernization of flood forecasting and hydrological network in Brahmaputra and Barak Basin	0.00	2.73	0.00	3.04	0.00	2.71	0.00	3.23	3.23	
	<b>Total : CWC</b>	<b>0.00</b>	<b>74.09</b>	<b>0.00</b>	<b>78.96</b>	<b>0.00</b>	<b>75.53</b>	<b>0.00</b>	<b>84.32</b>	<b>84.32</b>	
4.	Emergent Flood Protection Measures in Eastern and Western Sectors	0.00	2.49	0.00	3.00	0.00	3.00	0.00	3.00	3.00	
5.	Flood Forecasting	25.21	0.00	150.00	0.00	25.00	0.00	100.00	0.00	100.00	
6.	River Management Activities and Works related to Border Areas	25.99	0.00	125.00	0.00	67.00	0.00	175.00	0.00	175.00	
7.	Infrastructure Development	4.99	0.00	19.45	0.00	11.00	0.00	28.50	0.00	28.50	
8.	River Basin Management	76.00	0.00	100.00	0.00	85.00	0.00	143.00	0.00	143.00	
	<b>Total : Flood Control</b>	<b>132.19</b>	<b>76.58</b>	<b>394.45</b>	<b>81.96</b>	<b>188.00</b>	<b>78.53</b>	<b>446.50</b>	<b>87.32</b>	<b>533.82</b>	
<b>V.</b>	<b>Other Transport Services</b>										194.00
1.	Farakka Barrage Project		73.57	40.79	150.00	56.17	115.00	41.71	150.00	44.00	
2.	Jangipur Barrage	0.00	2.07	0.00	2.56	0.00	2.22	0.00	2.46	2.46	
3.	Feeder Canal	0.00	5.25	0.00	6.01	0.00	7.18	0.00	7.38	7.38	
	<b>Total : Transport Services</b>	<b>73.57</b>	<b>48.11</b>	<b>150.00</b>	<b>64.74</b>	<b>115.00</b>	<b>51.11</b>	<b>150.00</b>	<b>53.84</b>	<b>203.84</b>	
<b>VI.</b>	<b>Ecology and Environment</b>										
1.	National River Conservation Plan	0.00	0.00	0.00	0.00	0.00	0.00	537.00	0.00	537.00	
2.	National Ganga Plan	0.00	0.00	0.00	0.00	0.00	0.00	1500.00	0.00	1500.00	
2a	Less amount met from NCEF							-1500.00	0.00	-1500.00	
3.	Ghat works for beautification of river fronts	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	
4.	Water projects of NCT	0.00	0.00	0.00	0.00	0.00	0.00	500.00	0.00	500.00	

SI No.	Sector/ Organisation /Scheme	Actuals 2012-13		BE 2013-14		RE 2013-14		BE 2014-2015		Total B.E. 2014-15
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	
1.	2.	3.	4.	9.	10.	7.	8.	9.	10.	11.
	<b>TOTAL: (I to VI) \$</b>	<b>512.99</b>	<b>512.01</b>	<b>1500.00</b>	<b>576.55</b>	<b>700.00</b>	<b>541.00</b>	<b>13237.00</b>	<b>599.64</b>	<b>13836.64</b>
<b>VI</b>	AIBP and other	<b>6503.58</b>	<b>0.00</b>	<b>12962.0</b>	<b>0.00</b>	<b>6162.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>I.</b>	Water Resources Programme #			<b>0</b>						
	<b>GRAND TOTAL</b>	<b>7016.16</b>	<b>512.01</b>	<b>14462.00</b>	<b>576.55</b>	<b>6862.00</b>	<b>541.00</b>	<b>13237.00</b>	<b>599.64</b>	<b>13836.64</b>

*Source of financing : \$ Demand No.106 – Ministry of Water Resources for 2014-2015  
# Figures shown in Demand No.36-Ministry of Finance(Transfer to States  
and Union Territory Governments). The scheme has since been included in  
the Demand of MoWR w.e.f. 2014-15.*

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

(Rupees in crore)

Sl. No	Sector/Organisation/Scheme	Actuals 2012-13		BE 2013-14		RE 2013-14		BE 2014-2015		Total B.E. 2014-15
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
<b>A.</b>	<b>DIRECT EXPENDITURE</b>									
1.	Secretariat-Economic Services	0.00	52.52	0.00	50.89	0.00	61.52	0.00	56.12	56.12
2.	Central Water Commission: - Medium Irrigation	0.00	160.23	0.00	170.57	0.00	152.13	0.00	172.91	172.91
	-Flood Control	0.00	74.09	0.00	78.96	0.00	75.53	0.00	84.32	84.32
3.	Central Soil & Materials Research Station	0.00	9.87	0.00	12.01	0.00	9.45	0.00	10.83	10.83
4.	Central Water & Power Research Station	0.00	33.91	0.00	44.10	0.00	44.88	0.00	48.11	48.11
5.	Central Ground Water Board	0.00	118.65	0.00	134.31	0.00	127.32	0.00	136.35	136.35
6.	Farakka Barrage Project	73.57	48.11	150.00	64.74	115.00	51.11	150.00	53.84	203.84
7.	Boards and Committees	0.00	1.82	0.00	2.53	0.00	2.46	0.00	5.16	5.16
	<b>Total : Direct Expenditure</b>	<b>73.57</b>	<b>499.20</b>	<b>150.00</b>	<b>558.11</b>	<b>115.00</b>	<b>524.40</b>	<b>150.00</b>	<b>567.64</b>	<b>717.64</b>
<b>B.</b>	<b>RELEASES</b>									
<b>(a)</b>	<b>Grants to Autonomous Bodies</b>									
1.	National Institute of Hydrology	0.00	10.32	0.00	9.65	0.00	12.80	0.00	14.00	14.00
2.	Research & Development Programme - Medium Irrigation	31.37	0.00	50.00	0.00	35.00	0.00	50.00	0.00	50.00
	<b>Sub-Total (a) Grants to Autonomous Bodies</b>	<b>31.37</b>	<b>10.32</b>	<b>50.00</b>	<b>9.65</b>	<b>35.00</b>	<b>12.80</b>	<b>50.00</b>	<b>14.00</b>	<b>64.00</b>
<b>(b)</b>	<b>Assistance to States for Flood Control/anti-erosion works</b>									
1.	Emergent Flood Protection measures in Eastern and Western Sectors	0.00	2.49	0.00	3.00	0.00	3.00	0.00	3.00	3.00
	<b>Sub-Total(b : Assistance to States for flood control/anti-erosion works</b>	<b>0.00</b>	<b>2.49</b>	<b>0.00</b>	<b>3.00</b>	<b>0.00</b>	<b>3.00</b>	<b>0.00</b>	<b>3.00</b>	<b>3.00</b>
<b>(c)</b>	<b>State Irrigation Schemes</b>									
1.	Sutlej Yamuna Link Canal Project	0.00	0.00	0.00	5.79	0.00	0.80	0.00	15.00	15.00
	TOTAL: RELEASES (a) to (c)	31.37	12.81	50.00	18.44	35.00	16.60	50.00	32.00	82.00
	<b>Total : (A+B)*</b>	<b>104.94</b>	<b>512.01</b>	<b>200.00</b>	<b>576.55</b>	<b>150.00</b>	<b>541.00</b>	<b>200.00</b>	<b>599.64</b>	<b>799.64</b>
<b>C</b>	<b>OTHER PLAN SCHEMES</b>									
	<b>Medium Irrigations</b>									
1.	Development of Water Resources Information System	38.30	0.00	149.98	0.00	43.00	0.00	225.38	0.00	225.38
2.	Hydrology Project	37.90	0.00	70.00	0.00	50.00	0.00	31.38	0.00	31.38
3.	Infrastructure Development	1.41	0.00	2.55	0.00	1.30	0.00	2.90	0.00	2.90
4.	Human Resource Development/ Capacity Building	11.09	0.00	85.00	0.00	24.50	0.00	43.00	0.00	43.00

Sl. No	Sector/Organisation/Scheme	Actuals 2012-13		BE 2013-14		RE 2013-14		BE 2014-2015		Total B.E. 2014-15
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
5.	River Basin Management	58.67	0.00	100.00	0.00	65.00	0.00	107.00	0.00	107.00
6.	Implementation of National Water Mission	0.00	0.00	110.00	0.00	2.00	0.00	40.00	0.00	40.00
7.	Irrigation Management Programme	0.24	0.00	40.00	0.00	0.10	0.00	1.00	0.00	1.00
8.	Dam Rehabilitation and Improvement Programme (DRIP)	0.43	0.00	36.00	0.00	9.00	0.00	30.00	0.00	30.00
9.	Bodwad Parisar Sinchan Yojana	0.00	0.00	0.00	0.00	12.40	0.00	200.00	0.00	200.00
10.	Accelerated Irrigation Benefit & Flood Management Programme	0.00	0.00	0.00	0.00	0.00	0.00	8992.22	0.00	8992.22
11.	Impact Assessment Studies of AIBFMP	0.00	0.00	0.00	0.00	0.00	0.00	50.00	0.00	50.00
12.	Polavaram Project Authority	0.00	0.00	0.00	0.00	0.00	0.00	250.00	0.00	250.00
13.	DPR for Interlinking of rivers	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00
14.	Pradhan Mantri Krishi Sinchai Yojana	0.00	0.00	0.00	0.00	0.00	0.00	1000.00	0.00	1000.00
	<b>Total – Medium Irrigation</b>	<b>148.04</b>	<b>0.00</b>	<b>593.53</b>	<b>0.00</b>	<b>207.30</b>	<b>0.00</b>	<b>11072.88</b>	<b>0.00</b>	<b>11072.88</b>
1.	<b>Minor Irrigation</b> Ground Water Management and Regulation	118.28	0.00	275.00	0.00	140.00	0.00	325.00	0.00	325.00
2.	Development of Water Resources Information System	0.00	0.00	0.02	0.00	0.00	0.00	0.02	0.00	0.02
3.	Infrastructure Development	3.45	0.00	28.00	0.00	7.70	0.00	48.60	0.00	48.60
4.	Human Resource Development/ Capacity Building	6.09	0.00	9.00	0.00	7.00	0.00	7.00	0.00	7.00
	<b>Total – MI</b>	<b>127.82</b>	<b>0.00</b>	<b>312.02</b>	<b>0.00</b>	<b>154.70</b>	<b>0.00</b>	<b>380.62</b>	<b>0.00</b>	<b>380.62</b>
1.	<b>Flood Control</b> Flood Forecasting	25.21	0.00	150.00	0.00	25.00	0.00	100.00	0.00	100.00
2.	River Management Activities and Works related to Border Areas	25.99	0.00	125.00	0.00	67.00	0.00	175.00	0.00	175.00
3.	Infrastructure Development	4.99	0.00	19.45	0.00	11.00	0.00	28.50	0.00	28.50
4.	River Basin Management	76.00	0.00	100.00	0.00	85.00	0.00	143.00	0.00	143.00
	<b>Total - FC</b>	<b>132.19</b>	<b>0.00</b>	<b>394.45</b>	<b>0.00</b>	<b>188.00</b>	<b>0.00</b>	<b>446.50</b>	<b>0.00</b>	<b>446.50</b>
1.	<b>Ecology and Environment</b> National River Conservation Plan	0.00	0.00	0.00	0.00	0.00	0.00	537.00	0.00	537.00
2.	National Ganga Plan Less amount met from NCEF	0.00	0.00	0.00	0.00	0.00	0.00	1500.00	0.00	1500.00
								-1500.00	0.00	-1500.00
3.	Ghat works for beautification of river fronts	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00
4.	Water projects of NCT	0.00	0.00	0.00	0.00	0.00	0.00	500.00	0.00	500.00
	<b>Total- Ecology and Environment</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1137.00</b>	<b>0.00</b>	<b>1137.00</b>
	<b>Total: Other Plan Schemes</b>	<b>408.05</b>	<b>512.01</b>	<b>1300.00</b>	<b>0.00</b>	<b>537.60</b>	<b>0.00</b>	<b>13037.00</b>	<b>0.00</b>	<b>13037.00</b>

Sl. No	Sector/Organisation/Scheme	Actuals 2012-13		BE 2013-14		RE 2013-14		BE 2014-2015		Total B.E. 2014-15
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
	<b>Total –( A+B+C)*</b>	<b>512.99</b>	<b>512.01</b>	<b>1500.00</b>	<b>576.55</b>	<b>700.00</b>	<b>541.00</b>	<b>13237.00</b>	<b>599.64</b>	<b>13836.64</b>
<b>D</b>	<b>AIBP and other Water Resources Programme **</b>	<b>6503.58</b>	<b>0.00</b>	<b>12962.00</b>	<b>0.00</b>	<b>6162.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
	<b>GRANT TOTAL (A+B+C+D)</b>	<b>7016.16</b>	<b>512.01</b>	<b>14462.00</b>	<b>576.55</b>	<b>6862.00</b>	<b>541.00</b>	<b>13237.00</b>	<b>599.64</b>	<b>13836.64</b>

Source of financing: \* Demand No.106 – Ministry of Water Resources for 2014-2015.

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

**TABLE – C**

**UTILISATION CERTIFICATES OUTSTANDING IN RESPECT OF GRANTS / LOANS  
RELEASED UPTO 31.3.2014**

**Position as on 31.03.2014**

(Rs. in Crore)

State/UT	No. of UCs outstanding in r/o grants released upto March, 2014	Amount involved (Rs in Crores)	No. of UCs received	Amount involved in respect of UCs received	No. of UCs outstanding as on 31.03.2014	Amount involved on outstanding UCs (Rs. in Crores)
1	2	3	4	5	6	7
Institutions & Autonomous Bodies	274	3574.30	17	511.54	257	3062.76
State Govt.	7	947.8466	-	-	7	947.8466

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

**I. Information related to unspent balances and pending UCs (Autonomous Bodies & State Govt.)**

Particulars	As on 01.04.2012	As on 01.04.2013	As on 30.09.2013	As on 31.12.2013	As on 31.03.2014
Unspent Balances (Rs. In Crores)	181.79	205.59	158.08	1361.93	1446.2549
Pending Ucs (In Numbers)	327	285	260	259	264
Pending Ucs (Rs. In Crores)	66.18	52.01	37.61	971.37	978.4742

**II. Information related to unspent balances and pending UCs (State Govt.)**

Particulars	As on 01.04.2012	As on 01.04.2013	As on 30.09.2013	As on 31.12.2013	As on 31.03.2014
Unspent Balances (Rs. In Crores)	14.99	14.02	17.12	1220.97	1236.435
Pending Ucs (In Numbers)	7	6	6	5	7
Pending Ucs (Rs. In Crores)	14.99	14.02	14.02	947.78	947.8466

**III. Information related to unspent balances and pending UCs (Autonomous Bodies)**

Particulars	As on 01.04.2012	As on 01.04.2013	As on 30.09.2013	As on 31.12.2013	As on 31.03.2014
Unspent Balances (Rs. In Crores)	166.8	191.57	140.96	140.96	209.8199
Pending Ucs (In Numbers)	320	279	254	254	257
Pending Ucs (Rs. In Crores)	51.19	37.99	23.59	23.59	30.6276

## CHAPTER - VI

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

#### STATUTORY BODIES:

##### 6.1 BRAHMAPUTRA BOARD:

###### 6.1.1 Constitution of Brahmaputra Board

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

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

###### 6.1.2 Main functions

- (a) Undertaking ‘Survey & Investigations’ in Brahmaputra & Barak Valley and preparation of Master Plans for control of floods, bank erosion and improvement of drainage in the Brahmaputra & Barak Valley and activities connected therewith, including development and utilization of water resources of the Brahmaputra Valley for irrigation, hydropower, navigation and other beneficial purposes,
- (b) Formulation of programme, in consultation with State Government(s), for construction / implementation, in phases, of dams and other projects identified in the Master Plans, approved by Government of India,



- (c) Preparation of Detailed Project Reports and estimates including apportionment of cost among States in respect of the dams and other projects,
- (d) Finalization of standards and specifications for construction, operation and maintenance of such dams and other projects and
- (e) Construction, operation and maintenance of Multipurpose and other Water Resources Projects, identified in the Master Plans, on approval of Government of India,

6.1.3. Preparation of 3 (three) Sub-basin Master Plans - Bugi, Dareng and Umsohryngkew – has been taken up by Brahmaputra Board during the year 2013-14. Data could be collected from the concerned State and Central Government Organizations in last part of the year 2013-14 and is proposed to complete in 2014-15.

The field investigations for preparation of Detailed Project Reports in respect of 4(four) Multi-Purpose Projects are continued. The DPR of Noa-Dihing Multipurpose Project has been completed in March 2014 and submitted to Ministry of Water Resources (MoWR). The MoWR forwarded the same to Central Water Commission for technical Appraisal. Preparation of DPR of Kulsi Multipurpose Project is under progress and targeted to complete in 2014.

6.1.4. The Brahmaputra Board took up flood protection and anti-erosion works at Majuli Island in the year 2003-04. Activities were taken up first under 'Immediate Measures' at an estimated cost of Rs.5.92 crore and completed in the year 2004-05. These works were followed by protection works under Phase –I (at the revised cost Rs.56.07 crore). Works envisaged under Phase-I was completed in April, 2011. The total expenditure under Phase –I was Rs.53.40 crore. Works under Phase-II & III at estimated cost of ` 115.99 crore are in execution and physical progress of 76.5% have been achieved at an expenditure of Rs.91.60 crore. In between, prior to initiation of works under Phase-II & III, some urgent protection measures were undertaken as 'Emergent Works' at the cost of Rs. 4.62 crore. A scheme formulated as per recommendation of Standing Committee of Experts on Majuli Island during its 8<sup>th</sup> visit amounting to Rs.200.13 crore is under appraisal of CWC. On receipt of 'Administrative Approval' & 'Financial Sanction' work will be started in the Year 2014-15.

6.1.5. Restoration of original channels of Lohit and Dibang Rivers was entrusted to Brahmaputra Board. Works were planned to be executed in phases. Restoration works started in the year 2003-04. Works under Phase –I (Rs. 10.47 crore), Phase –II ( 4.95 crore) and Phase –III (Rs.8.47 crore) were completed. Works under Phase-IV for Rs.54.43 crore are under execution and physical progress of about 99.80% has been achieved at an expenditure Rs.48.43 crore. Two estimates- (i) 'Conversion of the existing tie bund across the spill channel of river Dibang from chainage 480.00 m to chainage 2550.00 m in to a full-fledged embankment at Bahbari' at an estimated cost of Rs. 9.22 crore and (ii) 'Restoration of original channels of Dibang and Lohit Rivers at Dhola-Hatighuli' under Phase-V have been formulated based upon recommendations of 8<sup>th</sup> visit of Standing Committee of Experts. These two estimates are under appraisal in Central Water Commission. Estimate at serial number (i) above is under examination at

Regional Office of CWC and estimate at serial number (ii) above has been examined at Flood Management Planning Wing of CWC, New Delhi and after examination at CWC the estimate for amounting to Rs.363.18 crore has been submitted for techno-economic clearance. Activities envisaged under Phase-V proposals are planned to be implemented during XII Five Year Plan. On receipt of 'Administrative Approval' & 'Financial Sanction' work will be started in the Year 2014-15.

6.1.6. Protection of Balat Village in Meghalaya on River Umngi- Techno-economic clearance of the scheme 'Protection of Balat Village in Meghalaya on River Umngi' has been received. Tenders for execution of the work have been invited.

6.1.7. 'Protection of Mankachar, Kalair-Alga International Border area from erosion of River Brahmaputra' in Assam.

6.1.8. 'Protection of Maslabari International Border area of Dhubri District from erosion of River Brahmaputra' in Assam

6.1.9. Anti-erosion measures for bank protection of Bhajaner Charra Nishigang under Cooch Behar Block No. II along the left Bank of River Mansai at , W. Bengal at Cooch Behar district, West Bengal.

6.1.10. Bank Protection work in Bhogdebri area on the Right Bank of Mansai in P.S. Sitalkuchi, District Cooch Behar, West Bengal:

**Techno-economic clearances of above schemes at 6.1.6 to 6.1.10 have been received. Government of India has conveyed the sanction to implement Central Sector Plan scheme –“River Basin Management (RBM)” during XII Plan through letter NO: 2/3/2012-BM(Vol.I)/494-5121 dated 28.04.2014. On receipt of 'Administrative Approval' & 'Financial Sanction' work will be started in the Year 2014-15.**

6.1.11. 4 (four) Drainage Development Schemes - Barbhag (Estimated cost - Rs.14.80 crore), Amjur (Estimated cost – Rs.14.15 crore), Jengrai (Estimated cost - Rs.5.23 crore-Revised) and Jakaichuk (Estimated cost- Rs.2.96 crore) are in progress. The physical achievements attained under these schemes are 50.59%, 33%, 27% and 65% respectively.

6.1.12 Brahmaputra Board has also been entrusted with 'Monitoring' of schemes under Flood Management Programme of Ministry of Water Resources, Government of India. Based upon recommendations of Brahmaputra Board, financial assistance in respect of these schemes were provided to States and also a substantial number of schemes has been appraised and cleared by Brahmaputra Board for implementation during XII Five Year Plan.

## 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 of the third Member on 10.06.03, the Tribunal was holding regular hearings, which however, have to be adjourned pending the outcome of a Presidential Reference on Punjab

Termination of Agreements Act, 2004 before the Hon'ble Supreme Court. With the demise of the Chairman and the tendering of resignation by a Member, the Tribunal's functioning has again been affected.

### 6.3 Cauvery Water Disputes Tribunal

6.3.1. The Cauvery Water Disputes Tribunal (CWDT) was constituted by the Govt. of India on 02<sup>nd</sup> June, 1990 consisting of the Hon'ble Chairman and two Members to adjudicate the Water Disputes regarding the Inter-State River Cauvery and the river valleys thereof. The term of CWDT has been extended by the Government upto 02.11.2014 as per provision of ISRWD Act.1956. The Cauvery Water Disputes Tribunal submitted its reports and decision under Section 5(2) of Inter – State River Water Dispute Act,1956 to Government on 5<sup>th</sup> February, 2007. Under Section 5(3) of the said Act, the Central Government as well as party States sought further clarification/ guidance in this regard:

- The Tribunal took up the petitions of the party States for consideration on 10<sup>th</sup> July, 2007. In its order, the Tribunal, inter-alia, observed as under:-

“It appears that the State of Karnataka, the State of Tamil Nadu and the State of Kerala filed Special Leave Petitions against the aforesaid decision of this Tribunal dated 5<sup>th</sup> February, 2007 before the Supreme Court. The Supreme Court has granted Special Leave. The appeals are pending According to us, in this back ground, these application under Section 5(3) of the said Act should be listed for orders after disposal of the appeals by the Supreme Court”

- Civil Appeal No 2453 of 2007 of the State of Karnataka versus State of Tamil Nadu and other alongwith Civil Appeal No. 2454 of 2007 and Civil Appeal No. 2456 of 2007 of the State of Kerala and State of Tamil Nadu respectively came up for preliminary hearing before the Hon'ble Supreme Court of India on 18<sup>th</sup> October, 2011, the Hon'ble Court mentioned that the Learned Sr. Counsels appearing for the parties submit that oral arguments in these appeals are likely to take more than six regular hearing days. In view of the submission, subject to orders of the Hon'ble Chief Justice of India, let the appeal be listed for final disposal before the appropriate bench in the month of February 2012. “However, it could not be listed in February, 2012. In the meantime, the Supreme Court heard Cauvery issues under OS 3 of 2002 on 25.2.2013 and directed Central Government to publish final award of CWDT dated 05.2.2007 as early as possible, but in no case later than February 20, 2013 further, directed to list 2453 of 2007 alongwith connected matter and OS 3 of 2001 and OS 3 of 2002 for final hearing on AUGUST 6, 2013. ACCORDINGLY, Central Government has published final award of CWDT dated 05.2.2007 vide its notification dated 19.02.2013 in official Gazette”.

6.3.2. The original suit 3 of 2002 was taken up by the Hon'ble Supreme Court on 3.12.2013 and it was ordered that the case is connected to original suit 03/2001 and in the next date for listing the case on 15.01.2014, Hon'ble Supreme Court directed for listing of case on 12.03.2014 and further for listing of case on 25.11.2014.

## 6.4 **Krishna Water Disputes Tribunal**

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

6.4.2 Thereafter, the Party States i.e. Andhra Pradesh, Karnataka, Maharashtra and also the Central Government had filed their reference applications u/s 5(3) of the Act to the Tribunal. Subsequently, replies and rejoinders were filed by the Party States and the Central Govt. Arguments were advanced on behalf of the Party States and Central Govt. on the date fixed for hearing day-to-day before the Hon'ble Tribunal. The Tribunal concluded the hearing of the arguments vide order dated 30.08.2013. The order on references were pronounced by the Tribunal on 29.11.2013 by way of Further Report and forwarded the same to the Central Govt. and the respective Party States under Sec. 5(3) of the Act for their information and implementation.

## 6.5 **Vansadhara Water Disputes Tribunal**

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

6.5.2. The Tribunal held its two preliminary sittings on 9<sup>th</sup> September, 2010 and 23<sup>rd</sup> November, 2010 in the office of the Central Water Commission, Seva Bhawan, Sector-1, R.K. Puram, New Delhi, due to non-availability of the office space. In the meantime, one of the Member Hon'ble Mr. Justice Nirmal Singh resigned from the post and the Central Government appointed Hon'ble Mr. Justice Ghulam Mohammed, former Judge, Andhra Pradesh, High Court as Member of the Tribunal on 08-05-2012.

6.5.3. In compliance of the orders of the Hon'ble Supreme Court dated 11-11-2013 in I.A. Nos. 7&8 in Writ Petition (Civil) No(s). 443 of 2006 in the matter of State of Orissa Vs Govt. of India &Anr., the Directorate of Estates allotted Type-VII government residential accommodation to the Hon'ble Chairman at New Moti Bagh, New Delhi and Type-VI government accommodation to the Members of the Vansadhara Water Disputes Tribunal at R.K. Puram, New Delhi.

6.5.4. Pursuant to the directions given by the Hon'ble Supreme Court in I.A.No.8 of 2013 in W.P.(Civil) No.443 of 2006 dated 13.12.2013 (State of Orissa vs. Govt. of India &Anr.), the Ministry of Water Resources, vide Notification S.O. 778(E) - dated 14<sup>th</sup> March, 2014 decided that the effective date of constitution of the said Tribunal shall be 17<sup>th</sup> September, 2012, and accordingly, under the provisions of sub-section (2) of section 5 of the said act, the period of three years for submission of report and decision by the Vansadhara Water Disputes Tribunal shall commence from the 17<sup>th</sup> September, 2012.

## **6.6. Mahadayi Water Disputes Tribunal**

6.6.1. The Mahadayi Water Disputes Tribunal (MWDT) was constituted by the Government of India on 16.11.2010 under Section 4 of the Inter-State River Disputes Act, 1956 for adjudication of the water disputes relating to the inter-state river Mahadayi and the river valley thereof among the States of Goa, Karnataka and Maharashtra. The Tribunal consists of a Chairman and two Members. The Chairman of the Tribunal is a former Judge of the Supreme Court and the other two Members are former Judges of the High Courts. Hon'ble Mr. Justice J.M. Panchal, Chairman of the Tribunal took over the charge of the post of Chairman on 01.11.2011 after his Lordship's superannuation as Judge from the Supreme Court and Hon'ble Mr. Justice P.S. Narayana and Hon'ble Mr. Justice Viney Mittal, former Judges of the High Court took over the charge as Members on 16.11.2010 and 01.12.2010 respectively.

6.6.2. The Ministry of Water Resources has sanctioned 14 posts in addition to the two posts of Assessors for manning the Tribunal. The recruitment rules for the different posts were finalised. All the posts except two posts of Principal Private Secretaries have been filled up in accordance with the Recruitment Rules notified by the Ministry of Water Resources. The selection process for the two unfilled posts has also been completed. Thus the process for filling up of the various sanctioned posts in the Tribunal has already been completed.

6.6.3. The Directorate of Estates allotted office accommodation to the Tribunal at 5<sup>th</sup> Floor of the Janpath Bhawan, A-Wing, Janpath, New Delhi vide letter dated 27.12.2011. The possession of the said office premises was taken over by the Tribunal. The refurbishing work of the said office space was completed by the CPWD in July, 2013.

6.6.4. On the request made by the Ministry of Water Resources to the Hon'ble Chairman of the Tribunal for conducting the Tribunal's sittings in the office of the Cauvery Water Disputes Tribunal, the Tribunal conducted its three sittings on 6.9.2012, 16.10.2012 and 19.03.2013 in the office premises of Cauvery Water Disputes Tribunal due to the non-completion of the renovation work of office premises of MWDT. The Tribunal held its first sitting in its Court Hall at 5<sup>th</sup> Floor, A-Wing, Janpath Bhawan, Janpath on 21.08.2013 and is conducting the further sittings in its Court Hall since then. The actual expenditure for the Tribunal for the years 2012-13 is Rs.1.38 crore and for the year 2013-14 is Rs.2.21 crore.

## **6.7. Godavari and Krishna River Management Boards:-**

6.7.1. Section 85(1) of the Andhra Pradesh Reorganisation Act, 2014 (No. 6 of 2014), notified on 1<sup>st</sup> March, 2014, mandates that the Central Government shall constitute two separate boards to be called Godavari River Management Board and Krishna River Management Board for the administration, regulation, maintenance and operation of such projects as may be notified by the Central Government from time to time. In pursuance, the Central Government has constituted the Godavari River Management Board and Krishna River Management Board vide notification No. SO-1403(e) and SO-1391(e) both dated 28<sup>th</sup> May, 2014 respectively.

6.7.2. The functions of each Board shall include :—

- (a) the regulation of supply of water from the projects to the successor States having regard to—
  - (i) awards granted by the Tribunals constituted under the Inter-State River Water Disputes Act, 1956;
  - (ii) any agreement entered into or arrangement made covering the Government of existing State of Andhra Pradesh and any other State or Union territory;
- (b) the regulation of supply of power generated to the authority in-charge of the distribution of power having regard to any agreement entered into or arrangement made covering the Government of the existing State of Andhra Pradesh and any other State or Union territory;
- (c) the construction of such of the remaining on-going or new works connected with the development of the water resources projects relating to the rivers or their tributaries through the successor States as the Central Government may specify by notification in the Official Gazette;
- (d) making an appraisal of any proposal for construction of new projects on Godavari or Krishna rivers and giving technical clearance, after satisfying that such projects do not negatively impact the availability of water as per the awards of the Tribunals constituted under the Inter-State River Water Disputes Act, 1956 for the projects already completed or taken up before the appointed day; and
- (e) such other functions as the Central Government may entrust to it on the basis of the principles specified in the Eleventh Schedule.

6.7.3. The Government of the successor States shall at all times provide the necessary funds to the Board to meet all expenses (including the salaries and allowances of the staff) required for the discharge of its functions and such amounts shall be apportioned between the States concerned in such proportion as the Central Government may, having regard to the benefits to each of the said States, specify.



6.7.4. The Cabinet while approving the proposal for constitution of Godavari and Krishna River Management Boards in its meeting held on 3<sup>rd</sup> April 2014 had also approved an initial contribution of Rs. 1 crore for each of the Board which would be later reimbursed to the Central Government by the Boards after contributions are received from party States.

## **AUTONOMOUS BODIES (SOCIETIES)**

### **6.8 National Water Development Agency**

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

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

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

- a. To carry out detailed surveys and investigations of possible reservoir sites and inter-connecting links in order to establish feasibility of the proposal of Peninsular Rivers Development and Himalayan Rivers Development Components forming part of the National Perspective for Water Resources Development prepared by the then Ministry of Irrigation (now Ministry of Water Resources) and Central Water Commission.
- b. To carry out detailed studies about the quantum of water in various Peninsular River Systems and Himalayan River Systems which can be transferred to other basins/States after meeting the reasonable needs of the basins/States in the foreseeable future.



- c. To prepare feasibility report of the various components of the scheme relating to Peninsular Rivers Development and Himalayan Rivers Development.
- d. To prepare detailed project report of river link proposals under National Perspective Plan for Water Resources Development after concurrence of the concerned States.
- e. To prepare pre-feasibility/feasibility/detailed project reports of the intra-State links as may be proposed by the States. The concurrence of the concerned co-basin States for such proposals may be obtained before taking up their FRs/DPRs.
- f. To do all such other things the Society may consider necessary, incidental, supplementary or conducive to the attainment of above objectives.

6.8.4 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.

6.8.5 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 work (Indian Portion) in respect of another 7 links under Himalayan Component were completed and draft FR prepared. Pre-Feasibility Reports (PFRs) of 33 intra-State links proposed by States have also been completed up to March, 2014.

6.8.6 An expenditure of Rs 50.30 Crores has been incurred by NWDA on Interlinking of Rivers programme during 2013 -14 (upto March 2014). Various studies were continued by NWDA during the year. Further, Detailed Project Report (DPR) of Ken-Betwa link phase-I was completed and sent to concerned States in May, 2010. The DPR of Ken-Betwa link Phase-I is under appraisal in CWC. DPR of Ken-Betwa link Phase-II and two more links viz. Par-Tapi-Narmada and Damanganga-Pinjal remained under progress during 2012-13 & 2013-14. The work of preparation of DPR of Ken-Betwa link Phase-II and Damanganga-Pinjal were completed during 2013-14. Also, the work of preparation of DPR of 2 intra-State links of Bihar remained under progress during 2012-13 & 2013-14 and completed during 2013-14. The work of preparation of two more DPRs, one of Maharashtra and one of Tamil Nadu also taken up and remained in progress. One more DPR of intra-State link of Jharkhand was also initiated during 2013-14.

6.8.7 During the year 2014 -15, an outlay of Rs 60.00 Crores has been proposed for NWDA. NWDA would continue to do Survey & Investigation required for Interlinking of Rivers programme and preparation of DPR of two links. Further, it is planned to complete Survey & Investigation works of 5 links in Himalayan Component (Indian Portion). Also, PFRs of two intra-State link will be completed and DPRs of 3 intra-State links will remain under progress. The work of necessary clearances from MoEF, Planning Commission, Convening meeting with CWC/States Govt./other central agencies etc. of post DPR stage work of Ken-Betwa link project Phase-I, Ken-Betwa link project Phase-II and Damanganga-Pinjal link project will be done during 2014-15.

**FINANCIAL OUTLAY**  
(Rs in crores)

Name of the Scheme / Activity	XII Plan Outlay	Actual 2012 – 13	Actual 2013 – 14	BE 2014 – 15
Investigation of Water Resources Development Schemes – Investigation of River Link Proposals	280.00	43.40	50.30	60.00

**6.9 National Institute of Hydrology (NIH):**

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

**6.9.2 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.

**6.9.3 Organization:**

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

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

**6.9.4 Studies and Research:**

The studies and research in the Institute are carried out under five scientific themes at the Headquarters, two Centers for Flood Management Studies and four Regional Centers. The Institute has a Research Coordination and Management Unit, which provides interface with various research and academic institutions. The Institute has state-of-art laboratory facilities in the area of Nuclear Applications in Hydrology,

Water Quality, Soil Water, Remote Sensing and GIS Applications, Hydrological Instrumentation, and Ground Water Modelling.

#### 6.9.5 Technical Publication and Technology Transfer:

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

Performance during 2013-14 and targets for the year 2014-15 are shown below:

S. N.	Description of Item	Physical target for 2013-14	Achievement during 2013-14	Target for 2014-15
1	Preparation of technical reports/ studies completed	60	56	33
2	Publication of research papers	150	177	180
3	Preparation of guidelines /manuals	2	1	2
4	Organization of workshops /seminars/ symposia	25	33	20
5	Training of Personnel	30	43	40

#### PUBLIC SECTOR UNDERTAKINGS:

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

###### 6.10.1. INTRODUCTION

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

## **6.10.2. VISION**

To be a Premier Consultancy Organization recognized as a Brand in Water, Power and Infrastructure Development for Total Project Solutions in India and Abroad.

## **6.10.3. MISSION**

Sustained Profitable Growth, Excellence in Performance, Use of State-of-the-art Technical Expertise, Innovativeness and Capacity Building to Meet Society's Needs Globally.

## **OBJECTIVES**

- To perform the role of a premier agency for offering integrated package of services of scientific, technological and managerial quality for optimal planning and development Projects.
- To adopt modern technology and systems to build in quality, reliability and accuracy thereby ensuring customer satisfaction.
- To continue the pace of growth of domestic and overseas business and to transfer know-how to Clients.
- To adopt 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 Projects.
- To promote research and development through interaction with other national and international agencies.
- To maintain pre-eminence in the field of consultancy through diversification in allied fields.
- To secure a fair monetary return to the enterprise as a result of its operations through improved productivity.
- To play a dynamic role in use of state-of-the-art consultancy for innovative design alternatives.
- To attract the best available talent and promote a committed and motivated workforce.
- To strive to achieve client satisfaction.
- To promote WAPCOS as a Brand Name.

## **6.10.4. FIELDS OF SPECIALIZATION**

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

venturing into newer fields such as Software Development, City Development Plans, Financial Management System, Technical Education, Quality Control and Construction Supervision, Roads & Bridges. The Company has amended its Memorandum of Association to provide concept to commissioning services for developmental projects in India and Abroad.

#### **6.10.5. RANGE OF CONSULTANCY SERVICES:**

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

#### **6.10.6. REGISTRATION WITH INTERNATIONAL ORGANIZATIONS AND OPERATIONS ABROAD:**

WAPCOS is registered with various international funding agencies for participating in the funded projects like World Bank, Asian Development Bank, African Development Bank, Japan Bank for International Cooperation and United Nations Office for Project Services.

Apart from India, WAPCOS has successfully completed/on-going consultancy assignments abroad in 55 countries and is currently engaged in providing consultancy services in Afghanistan, Bangladesh, Bhutan, Burundi, Cambodia, Central African Republic, Chad, DR Congo, Ethiopia, Ghana, Kenya, Lao PDR, Maldives, Malawi, Mozambique, Myanmar, Nepal, Nigeria, Rwanda, South Sudan, Sri Lanka, Swaziland, Sierra Leone, Tanzania, Togo, Yemen and Zimbabwe.

#### **6.10.7. DIVIDEND**

In view of the excellent performance of the company for the year 2012-13, a dividend of Rs. 1200 lakh, which is highest-ever in the history of the company was paid.

#### **6.10.8. BONUS SHARES**

With a view to share prosperity of the Company with the Shareholders, Bonus Shares of Rs. 8 crore were issued in the year 2013.

#### **6.11. National Projects Construction Corporation Limited:**

6.11.1. National Projects Construction Corporation Limited (NPCC Ltd.) was incorporated in 1957 under Companies Act. 1956, as a construction Company for taking up the construction of mainly River Valley projects, dams, barrages, weirs, reservoirs, embankments, canals, irrigation and related infrastructural works. Presently, The Corporate Office of the Company is at Faridabad and its Registered Office at New Delhi. Presently, it has 15 Zonal offices situated at Kolkata, Bhubneshwar, Guwahati, Silchar, Shillong, Itanagar, Raipur, Mumbai, J&K, Bangalore, Patna, Ranchi, Lucknow, NCR Gurgaon and Dehradun. At present, it has 105 operational Units. Presently, the total manpower of the Company is 1343 as on 1.04.2014.

6.11.2. 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 years 1962-63). However, from 1985-86 till 2005, the financial position of the Company had deteriorated sharply.

6.11.3. The Government approved the revival proposal for conversion of the Govt. of India principal amount of Rs.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. Govt. of India principal amount and cumulative interest has been converted into equity & 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 Rs.700 crore and its paid up capital is Rs. 94.53 crore now. Out of this, 14 State Governments and Union Territories are shareholders for an amount of Rs.1.05 crores and the rest of the capital shares rest with the Central Government.

6.11.4. The projects taken up by the Company included (IBB Fencing & Lighting Works, Road works at Tripura, Mizoram, Assam & Meghalaya, (ii) Assam Riffle works in different States of North Eastern Region, (iii) Indo-Tibetan Border Roads in Laddakh (J&K State) and (iv) PMGSY works in different districts of Bihar, Jharkhand & UP etc. The existing business operational pattern is likely to be maintained during the year 2014-15 with innovative diversification.

6.11.5. The Company has registered Net Profit for five consecutive years, Net profit expected during the financial year 2013-14 is Rs 42.23 Crore (Unaudited).

6.11.6 The Company has set the following targets for the year 2014-15:

**(Rupee in Crores)**

<b>S.No.</b>	<b>Financial indicator</b>	<b>Target for Excellent Category</b>
1	Gross Margin	38.33
2	Gross Sales	1300
3	Gross Profit	37.83
4	New Business	1200

**PERFORMANCE OF 2012-13**

(Rs. in crore)

S. No.	Name of Scheme/ Programme	Objective/ Outcome	BE 2012-13	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.03.2013	Remarks
1	2	3	4	5	6	7	8
1.	Development of Water Resources Information System	Continuing activities to collect hydrometeorological and water quality on all major rivers including snowmelt runoff monitoring, compilation and dissemination of the observed data to users. Hydrological Information System, Upgradation of sites, Opening of New Sites and Water Quality Laboratory upgradation	85.00	Publication of Hydrological Water Year Book, Water Quality Year Book, Silt Year Book, Hydrological Information System, Upgradation of sites, Opening of New Sites and Water Quality Laboratory upgradation	Daily/Ten Daily/ Monthly/ Yearly/ Periodical	i. Data were collected from all the stations, ii. Hydrological Observation at 933 sites continued. iii. Collection, compilation, storage, dissemination, analysis and publication of data in the form of Water Year Books was achieved.	During the FY 2012-13, an amount of Rs.38.30 crore has been incurred against RE 2012-13 of Rs.40.00 crore.
		To collect reservoir water level of 120 reservoirs whose live storage is proposed to be monitored by the CWC by telemetry system		Preliminary works related to scheme such as feasibility study and preparation of Bid Documents etc.	Work will be taken up after approval of EFC.	Reservoir storage data continued to be collected using conventional methods as the activity is new and approval of EFC was awaited.	
		Strengthening of CPDAC/it's sub-committees, Field visits, Training/Study Tours, Technology Transfer, Strengthening of Beach Erosion Dte. as a Centre of excellence, Preparation of Manual, guidelines, Workshop / Seminar etc.		Being a new activity, it is proposed to complete the Preparatory work for identification of sites.  Organizing meeting of CPDAC and its sub-committees	Work will be taken up after approval of EFC.	Regional office of CWC in Kerala held discussion with CESS, Kerala and Irrigation Department in Kerala for implementation of CMIS in the State in light of the proposal received from CESS Kerala. However since the activity is new as part of Plan scheme, approval of scheme was awaited.	
		Conduct the 5th MI Census with respect year 2011-12		1) Testing of the new methodology for conducting next MI Census in one State . 2) Pursuing	Oct-12	Study has been Completed in the State of Rajasthan & report has been submitted by NISG on 31.12.2012.	



S. No.	Name of Scheme/ Programme	Objective/ Outcome	BE 2012-13	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.03.2013	Remarks
1	2	3	4	5	6	7	8
		To collect information through outsourcing on Culturable Command Area (CCA) and their geographical extent, Irrigated area by season, Irrigation Potential created and utilized (IPC & IPU), Cropping pattern, Other project related information		To prepare schedule for collection of information from projects authorities through outsourcing	Schedule has been drafted	Comments for finalising the schedule are being sought from concerned officer of States Irrigation Departments	
		WQAA is mandated to direct various agencies to standardise methods for water quality monitoring and to ensure quality of data generation; to take measures so as to ensure proper treatment of wastewater with a view to restoring the water quality of the river/water bodies to meet the designated-best-uses; to take up research and development activities in the area of water quality management; to promote recycling, re-use of treated sewage/trade effluent for irrigation in development of agriculture; to draw action plans for quality improvement in water bodies; to maintain minimum discharge for sustenance of aquatic life forms in riverine system; to utilize self-assimilation capacities at the critical river stretches to minimize cost of effluent treatment;		Most of the activities of WQAA are of continuous nature and are taken up throughout the year regularly. Few of the quantifiable activities of WQAA taken up during 2012-13 are: 1. Audio visual material / Booklet / Working Model / Display for Mass Awareness Programme, 2. Preparation of reports on 'Study on Distribution of trace and toxic metals profile in major rivers of India - season wise', 3. Report on 'Study on Ground Water contamination in critically polluted industrial clusters', 4. Report on 'Study on Contamination of ground water due to intensive agricultural activities (Fertilizers, pesticides, POPs)', 5. Status report on geo-genic contaminants - selenium, radioactive elements like uranium, radon and thorium in India, 6. Baseline study of ground water quality in NCR Region,	Most of the activities to be continued throughout the year. Process for quantifiable activities as enumerated in Col.(5) are: S.No.1: The work is assigned to IEC Division, MoWR S.No.2:Work assigned to Central Water Commission. S.No.3: Work assigned to Central Ground Water Board. S.No.4: Work assigned to CPCB.  S.No.5: Work assigned to Central Ground Water Board. S.No.6:Working is undergoing in WQ Cell, MoWR. S.No.7: Work assigned to NEERI, Nagpur. S.No.8: Three training programmes. One training programme each assigned to CWC, NIH & outsourced agency. S.No.9: Two meetings of WQAA in a year. S.No.10: Work assigned to NEERI, Nagpur. S.No.11: Work is assigned to Jan hit Foundation, Meerut.	1. Participated in India Water Week-2012. 2. Workshop on "Drinking Water Quality & Water Management" was organized by PHD Chamber of Commerce on funding from WQAA. 3. Workshop on "Water Quality Issues" held at WQRC, Odisha on 21 <sup>st</sup> March, 2013. 4. A workshop organized by India Water Foundation on "Regional workshop on Water Quality Monitoring in the Asia-Pacific Region". Hon'ble Minister (WR) attended as Chief Guest and delivered the Keynote Address. 5. CWC has been directed to take-up the process of accreditation of 2 Labs at New Delhi and Varanasi and to engage consultants from NABL for accreditation. 6. 1 training programme on "In-House Training Programme on Waste Water Recycling and Re-use" organized during April, 2012 by EA-Waters. 7. 1 training programme on "Water Quality Management (WQM-2012)" organised by YBO, CWC in association with NWA, Pune. 8. 1 training programme on "Hands on Advance Instruments of Water Quality Testing" organised by NIH.	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	BE 2012-13	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.03.2013	Remarks
1	2	3	4	5	6	7	8
		to review the status of quality of national water resources (both surface water & groundwater (except-that due to geogenic aspect) and identify "Hot Spots" for taking necessary actions for improvement in water quality; to constitute/set-up State-level Water Quality Review Committee (WQRC) to coordinate the work to be assigned to such committees.		7. Desk Study on Artificial Recharge to Ground Water by Treated Wastewater through Soil Aquifer Treatment (SAT), 8. Organizations of Water Quality Training programmes (03 nos.), 9. Organizations of WQAA meetings and taking up follow up action on the decisions taken thereon. 10. R&D proposals- "Post Monsoon Baseline Ground Water Quality in NCT Delhi. 11. Study of Water Quality of the Existing Water Bodies of Meerut district on GIS Platform.		9. As a follow-up action of the 9 <sup>th</sup> meeting, a Sub-Committee to review powers and mandate of WQAA constituted. Report was circulated to all the members of the Sub-Committee and comments on the same received. Final report finalized.  10. "Study of WQ of the Existing Water Bodies of Meerut district on GIS Platform" by Janhit Foundation. Final Report received, Comments on final report sent.	
		To monitor Major, Medium Irrigation Projects by making field visits and prepare implementation status report thereof and Strengthening to monitoring units of CWC.		I) Assessment of potential creation of additional 50 AIBP funded projects through remote sensing. II) Monitoring of Major and Medium projects.	Activities to continue throughout the year.	i) NRSC, Hyderabad is carrying out the work of assessment of irrigation potential created in AIBP funded additional 50 projects through remote sensing using cartosat satellite data. ii) 44 Nos. of reports were submitted by NRSC, Hyderabad. iii) online monitoring of major & medium projects under AIBP will be carried out by developing in-house capability (1st batch of training to NRSC, Hyderabad of CWC officers scheduled from 26-29 Dec 2012). iv) All the Major and Medium projects are monitored.	
		Creation of Watershed Atlas and development of web enabled Water Resources Information System of the country at 1:50000 scale		Third version of WRIS will be launched.	3rd version of India WRIS has been launched on 04.12.2012	The First version of website of INDIA WARIS was launched on 07 Dec, 2010 in New Delhi by Hon'ble Minister of Water Resources. The URL of the website is www.india-wris.nrsc.gov.in can be seen for more detail. Second version of India WRIS was launched by Chairman, CWC on World Water Day i.e. 22nd March, 2012. Further development of third version of India WRIS has been launched on 04.12.2012.	

S. No.	Name of Scheme/ Programme	Objective/ Outcome	BE 2012-13	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.03.2013	Remarks
1	2	3	4	5	6	7	8
		Upgradation & Modernisation Library of CWC		Upgradation & Modernisation Library of CWC	Continuing activity	i) AMC of electrical service and horticulture, ii) Payment for Pest control & electrical bills.	
		i) Enhancement of e-Governance capabilities, ii) upgradation & strengthening of hardware, software and network resources iii) Improvement of CWC Website iv) Building of IT knowledge base in CWC through Training v) Strengthening of SM Dte.		i) Upgradation of 247 computers and 180 UPS ii) Installation of Arc GIS software iii) Instalation of AutoCAD software iv) Installation of Anti-virus software v) Installation of additional modules of APAR software vi) Digitization of Engineering Drawings vii) Installation of Active Directory viii) Installation of IPv4 to IPv6	To be completed in 2012-13	i) Tender opened ii) Software Installed on Server iii) Under process Quotation received iv) Software Installed on Server v) Order placed work under progress vi)EOI has been called, tender under process vii) Under process viii) Switices has been changed	
2	Research & Development programme in Water Sector	The scheme comprises of various activities related to R&D and training in the water resources sector . These activities are being implemented by the premier research Institutes in the field of hydrology, hydraulics, soil and material sciences, i.e. NIH, CW&PRS and CSMRS and CWC. The outcomes of the programme will be improvement in efficiency of irrigation system, reduction in risk/hazard in water resources project, economic design for project and development of new / improved technology	100.00	The implementation of the scheme will help in capacity building and creation of additional facilities. The research output are generally in terms of technical report & research papers having recommendations for improved techniques for planning & design. Quantifiable deliverables are: (a) Research Reports = 231 (b) Research Papers = 279 (c) Training workshops = 30	Works to be implemented by various organizations of the Ministry.	Research / Technical reports - 216 Research papers - 285 Training and workshop - 55	During the year 2012-13, an amount of Rs. 31.37 crore has been incurred against RE 2012-13 of Rs.35.00 crore.

S. No.	Name of Scheme/ Programme	Objective/ Outcome	BE 2012-13	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.03.2013	Remarks
1	2	3	4	5	6	7	8
3.	Hydrology Project	To extend and promote the sustained and effective use of the Hydrological Information System by all implementing agencies concerned with water resources planning and management in 13 States and 8 Central agencies	70.00	Implementation of the project components, i.e. institutional strengthening, vertical extension with Hydrological Design Aids (HDA), DSS-Planning (DSS-P), DSS-Real Time (DSS-RT) and 41 Purpose Driven Studies and horizontal expansion including PDS in new States, with support of 4 major consultancies in place in Hydrology Project.	The planned activities are to be implemented through the Central Agencies, viz. PCS (MoWR), BBMB, CWC, CGWB, CWPRS, CPCB, IMD and NIH till end of May, 2014.	<p>(a) Data observation and validation is being carried out on a regular basis.</p> <p>(b) Under Decision Support System-Planning consultancy generic DSS developed and customization under progress in 9 HP-I states</p> <p>(c) Installation of RT-DAS for DSS- Real Time of BBMB in progress</p> <p>(d) Development of modules of Hydrological Design Aids (HAD) model is in progress.</p> <p>(e) 10 Purpose Driven Studies are under different stages of completion and some of them are nearing completion. The interpretation of results and finalization of report in progress.</p> <p>(f) Various procurements and survey under Aquifer Mapping are in progress.</p>	During the FY 2012-13 an amount of Rs. 37.90 crore has been incurred against RE 2012-13 of Rs.43.72 crore. Project completion date is 31.05.2014.
4.	River Basin Management		200.00				An amount of Rs. 134.67 crore has been incurred against RE 2012-13 of Rs.134.08 crore.
a.	Investigation of Water Resources Development Schemes	Carry out Investigations in respect of identified Project for water resources development	100.00	Investigation and preparation of project report for identified project to continue.	The works of investigation / preparation of project report are covered in more than one year and are carried over to following years.	<p>Survey &amp; Investigation work in the Indian territory for 5 links remained under progress during 2012-13. The S&amp;I work of one link in Indian portion completed.</p> <p>The work of alternative studies of Manas-Sankosh-Tista-Ganga link remained under progress. Various alternatives of Manas-Sankosh-Tista-Ganga link remained in progress.</p> <p>The DPR of Ken – Betwa link project was completed by NWDA in April, 2010 and Ken-Betwa Phase-II – ‘Project on river Betwa’ consists of one major dam i.e. Lower Orr, two medium dams i.e. Tharr, Babnai and 7 nos. barrages at Parariya, Narkherea Ghat, Rajkhera, Bojrotha, Kotha, Barari and Kesri.</p> <p>Detailed Project Report of Ken-Betwa Phase-II is under progress. Topographical survey,</p>	<p>International dimensions are involved, permission is required from neighbouring countries for carrying out S&amp;I work in their territory.</p> <p>Environment, Wild life and forest issues being dealt in MoEF.</p> <p>Upto the year 2011-12, 21 PFRs completed. 6 PFRs completed during the year 2012-13. Thus, upto 2012-13 total 27 PFR completed and other remain in progress</p>

S. No.	Name of Scheme/ Programme	Objective/ Outcome	BE 2012-13	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.03.2013	Remarks
1	2	3	4	5	6	7	8
						<p>construction material survey, Geological investigation, Borrow area survey, Soil testing, Environmental impact assessment study work completed. Design, cost estimate and preparation of report are at various stages of completion and targeted to be completed as per schedule.</p> <p>The work of preparation of DPRs of Par- Tapi – Narmada &amp; Damanganga – Pinjal Links remained in progress during 2012-13.</p> <p>Collection of various data for preparation of PFRs of other link proposals remained under progress.</p> <p>Work of Preparation of DPR of 2 links of Bihar, one link of Maharashtra &amp; one link of Tamil Nadu remained under progress.</p> <p>Work of consensus building on the links under 8 link system remained under progress. NWDA has carried out various alternative studies in Tel sub-basin of Mahanadi basin of diversion of water of Mahanadi river from the site other than Manibhadra dam site.</p>	
b.	River Basin Organization	The scheme is to encourage formulation of River Basin Organisation with the primary objective of providing a forum to all the co-basin states for taking up necessary studies and evaluation etc., with a view to identify the most appropriate alternative for optimum utilization of resources and meeting the aspirations of all state-holders.	0.00	The creation of RBO has to be preceded by consultations with State Governments. Process of consultations was to be initiated during 2012.		Ministry has sent proposal to the concerned states for constitution of the RBO for Mahanandi & Godavari rivers. The concurrence of concerned state Government has not been received. The matter is being pursued with the concerned states.	
c.	Re-Structuring of CWC	Horizontal expansion of field activities at basin level to address the basin level issues in more	10.00	Approval of the scheme of "Re-structuring of CWC" and creation of posts for restructured CWC.	Activity to start after approval of Restructuring Proposal.	i. Survey and investigation of Ujh, Kirthai-II, Kalez Khola, Suntaley, Tawanchu HEP, Sonai and Rukni Irrigation Projects continued,	

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		comprehensive and integrated manner and to take up the responsibilities assigned to MoWR / CWC under National Water Mission (NWM) to address climate change issues				<p>ii. S &amp; I for Gyspa project (National Project) continued through HPPCL.</p> <p>iii. Hydrological and seismological observations, Observations continued at 4 stations in Bhutan.</p>	
d.	Brahmaputra Board	Survey, Investigation & preparation of Master Plan, DPRs for Drainage Development Schemes & DPRs for Multipurpose project, Execution of Drainage Development Schemes, Anti-erosion schemes & Flood Management Schemes, Operation & maintenance & upgradation of NEHARI, Construction of H.Q.Complex & R&M of assets created by the Board, construction of raised platform, Upgradation of IT&GIS, Climate Change Studies etc.	90.00	3 Nos Master Plan, 2 Nos DPR of DDS, completion of 3 Nos. of DPRs of MPP viz. Kuls, Noa-Dihing and Simsang, completion of 40% works of Barbhag DDS, 18% of Amjur DDS, 42% of Jengrai, 22% of Jakaichuk, 43% of Phase-II & III works of Protection of Majuli Island from flood and erosion, 26% works of Avulsion of Dhola Hatighuli Phase -IV, 30% works of Raised Platforms. Continuation of feasibility study of channalisation of river Brahmaputra, Operation & maintenance & upgradation of NEHARI, Upgradation of IT & GIS, Climate Change studies would be taken up, 20% of anti-erosion works for protection of Kalair Alga of Man Cachar Masalpur area in Assam.	Activities to continue throughout the year.	<p>✓ 'Survey &amp; Investigation' and Preparation of-</p> <ul style="list-style-type: none"> <li>○ 50% of 3 Master Plans</li> <li>○ 2 DPRs of DDS</li> </ul> <p>✓ Execution of Anti-erosion schemes &amp; Flood Management Schemes</p> <ul style="list-style-type: none"> <li>○ 17.75% of phase-II &amp; III works of protection of Majuli Island completed</li> <li>○ 22% works of Avulsion of Brahmaputra at Dhola Hatighuli Phase-IV completed</li> </ul> <p>✓ Execution of Drainage Development Schemes</p> <ul style="list-style-type: none"> <li>○ 18.66 % works of Barbhag DDS</li> <li>○ 2% works of Amjur DDS</li> </ul> <p>✓ construction of 2 raised platforms completed</p> <p>✓ Feasibility studies of channalisation of river Brahmaputra- continued</p> <p>Mathematical model studies- continued</p>	
5.	Infrastructure Development Scheme	1. To procure land and construct office & residential buildings for the Ministry of Water Resources and its attached/ subordinate organizations and	55.00	(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	As acquisition of Land & Buildings is a time consuming process involving various agencies, some of the targeted works have spilled over to next year.	<p><b>CWC(L&amp;B):-</b> Construction of CWC building at burla completed. Construction of CWC building at Kokata, Guwahati, Hutments and Modernisation of CWC(HQ) at New Delhi continued.</p> <p><b>CGWB(L&amp;B):-</b> Guwahati- Divisional Office and Workshop completed and shifted in the newly constructed building and rest of the</p>	Total expenditure incurred during the year 2012-13 is Rs.9.85 crore against RE 2012-13 of Rs.15.00 crore.

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1	2	3	4	5	6	7	8
		2. Provision of necessary infrastructure for implementation of IT Plan in MoWR, CWC and CGWB.		Headquarters to facilitate e-governance and training of personnel in I.T. facilities.		<p>work is in progress.</p> <p><b>Bangalore:-</b> Work completed and Divisional Workshop/ Store is shifting to new building</p> <p><b>Bhopal-</b> Road pavement, underground sump is in progress. Final finishing work yet to be completed. <b>Raipur-</b> Land acquired and physical possession is taken over.</p> <p><b>CGWB(IT):-</b> 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 the Ministry (Proper) and CGWB.</p> <p><b>e-Gov., MoWR:-</b> FTS and e-VIP Reference were implemented in 2012-13.</p> <p><b>Ministry(IT):-</b> Procurement of Desktop and peripherals, Purchase of Photocopier Machines, Scanner AMC of IT equipment. AMC of photocopiers, AMC of UPS.</p> <p>Providing infrastructure support for implementation of IPV 6 in Ministry. Providing infrastructure support for implementation of e-Gov/e-Office.</p>	
6.	<b>Flood Forecasting.</b>	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.	48.00	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.	<p>i. Total of 5031 nos. flood forecasts were issued.</p> <p>ii. Mathematical modeling study continued.</p> <p>The work could not be completed as approval of EFC is awaited.</p>	Total amount of Rs.25.21 crore has been incurred against RE 2012-13 of Rs.30.00 crore.
7.	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	75.00	Maintenance of Farakka Barrage Project and its appurtenant structure including feeder canal, Jangipur Barrage etc which is a continuing activity and procurement of gates etc. Erosion control works in the extended jurisdiction of FBP from 40 km	The identified activities to be implemented by Farakka Barrage Project. Activities to continue throughout the year.	<p>Operation &amp; maintenance works are not quantifiable.</p> <p>Regular &amp; Emergent Anti Erosion works executed along Ganga/ Padma &amp; tributaries u/s &amp; d/s of Farakka Barrage in the length of 6540m.</p>	During the financial year 2012-13, 99.90% has been completed. Total amount of Rs.73.56 crore has been incurred against RE 2012-13 of Rs.100.00 crore.



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1	2	3	4	5	6	7	8
		river Ganga and its tributaries to train the river along main barrage.		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.			
8.	River Management Activities and Work Related to Border Areas	Hydrological observations and investigations of Water Resources Projects with neighboring countries besides river management works on common/border rivers. Flood control, Anti-erosion & Drainage development works by Brahmaputra Board. Maintenance of flood protection works of Kosi and Gandak Projects (in Nepal).	125.00	(i) Continuation of Joint Hydrological observations on river Ganga with Bangladesh, and (ii) Preparation of Joint Detailed Project Reports (DPR). (iii) Breach closure of left afflux bund of Kosi barrage in Nepal. (iv) Anti-erosion & Flood protection works of Majuli Island. (v) Transmission of flood related data from / to neighboring countries, (vi) Development works on common/border rivers	Implemented by Central Water Commission, Ganga Flood Control Commission, Brahmaputra Board and State Governments of Bihar, Uttar Pradesh, Tripura, West Bengal & Jammu & Kashmir, Punjab, Himachal Pradesh, Uttarakhand and UTs.	<ul style="list-style-type: none"> <li>Continued Joint Hydrological observations on river Ganga with Bangladesh, and</li> <li>Transmission of flood related data from / to neighbouring countries continued,</li> <li>The work of Preparation of Joint Detailed Project Reports (DPR) of Sapta Kosi Sun Kosi Projects continued. The works could not progress due to local law and order problems,</li> <li>The work of investigations for Pancheswar project at Rupaligad site continued but could not progress due to lack of response from Nepalese side as the works are located in Nepalese territory.</li> </ul>	An amount of Rs. 25.99 crore has been incurred against RE 2012-13 of Rs.30.00 crore.
9.	Ground Water Management & Regulation	<b>(a) Aquifer Mapping &amp; Management :</b> (i) Evolve strategies for scientific planning, monitoring, development and management of ground water resources under different hydrogeological environs. (ii) Develop and operationalize area - specific techniques / technologies for ground water development, augmentation and management. (iii) Regulate and control the development and management of ground water resources.	318.00	Hydrogeological Survey, Investigation, Data acquisition and analysis ( 150 Number of Top sheets)	One year	<p>Hard coopy of topo maps - 212480 Sq. km, Hard copy of geology map - 147697 Sq.km, Soil Maps - 124774 Sq. km and Geomorphological maps - 143574 sq. km, Delimeation of Principal Aquifers - 132560 Sq. km Aquifer wise water level data 128588 Sq. km.,</p> <p>664 wells constructed,</p> <p>2073 VES conducted,</p> <p>55 Bore-Hole logging and</p> <p>19955 samples analysis.</p>	An amount of Rs. 118.28 crore has been incurred against RE 2012-13 of Rs.180.00 crore.



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1	2	3	4	5	6	7	8
		(iv) Conduct Research & development studies including upgradation of technological capabilities and infrastructural base of the Central Ground Water Board to meet the upcoming challenges in ground water. (v) Transfer of knowledge and education in hydro-geological research and ground water management. Also increase capacity building in all aspects of ground water development and management through information dissemination, education, awareness and training. (vi) Increase coordination with concerned central / state govt. organizations for sustainable ground water development and management.					
		(b)Ground Water Exploration utilizing scientific tools viz. Remote sensing and GIS, Geophysical surveys aided by drilling to locate ground water worthy areas.		Ground Water Exploration - 800 wells(EW-530, OW-270) Construction of Piezometers/Exploration through WAPCOS	One year	Agreement revised. Preparatory work started. 40 % advance payment of Rs 31.69 Crore released to WAPCOS	
		(c)Monitoring of Ground Water levels from the ground water monitoring stations.,		Monitoring of Ground Water observation wells - 15640	One year	178 wells constructed in Punjab, Haryana, U.P & M.P, Jharkhand	
		(d)Short term water supply investigations for source finding to Central / State Govt. department		Short term water supply investigations -Need Based (~200)	One year	Monitoring for the month of April-May /Aug/ Nov 12 Completed. Additional 3200 wells established for monitoring	

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1	2	3	4	5	6	7	8
		(e)Geophysical studies to selection of sites for ground water exploration and artificial recharge structures and deciphering aquifers		Geophysical Survey: VES – 2000 Well Logging – NB	One year	132 investigations	
		(f)Chemical studies to assess ground water quality		Chemical analysis of water samples – 20000 samples	One year	382 Artificial recharge structures were constructed during 2012-13 and total structures constructed under the scheme are 1127 Structures Completed.	
		(g)Preparation of reports, maps for use by planners and administrators		District brochures – 120,Ground Water Year Book – 23,State Reports - 5	One year	Report on Dynamic Ground Water Resources Assessment as on 31.03.2011 – Report approved by SLTC: 29 States Submitted draft reports : 2 States Under finalization	
		(h)Regulation of ground water development by CGWA		Regulation of Ground Water development in notified areas	Continuing	District Brochures : issued – 46 and submitted 171; State Reports: Issued – 3 and submitted – 12 and Ground Water Year Book : Issued – 20 and submitted - 3	
		(i)Demonstrative project for Artificial Recharge to ground water for replicating the same by State Govt. and other agencies.		Spill Over work of Demonstrative Artificial Recharge	2-3 year	80 new areas have been notified by CGWA in the year. Total notified areas are now 162.  <b>Procured</b> 8 Rigs, UV VIS Spectrophotometer, Map Info Software, 393 sheets of classified forest cover map in digital format. NRSC LISS III data- 188 scenes.  <b>Procurement under Process</b> 13 Rigs through DGS&D. Scientific Equipments	

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1	2	3	4	5	6	7	8
10.	HRD / Capacity Building		100.00				An amount of Rs. 17.18 crore has been incurred against RE 2012-13 of Rs.38.90 crore.
a.	Rajiv Gandhi National Ground Water Training & Research Institute.	Training of CGWB and other Central/ State Govt. officers and staff on ground water aspect	15.00	32 Training Courses Tier- II – 36 Tier-III through outsourcing- 100	One year	<b>Tier-I</b> : Total no. of National Level Trainings programme completed- 32. <b>Tier-II</b> : Total no. of District Level Trainings programme completed- 36 and <b>Tier-III</b> : Total no. of Block Level Training programme completed-100.	
b.	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.	25.00	To create awareness among the people to provide education for sustainable development and utilization of water resources	Continuing activity	The following activities have been undertaken:-  <b>1. Painting Competition:-</b> <ul style="list-style-type: none"> <li>A three tier painting competition at school, State and National level was organized by MoWR in 35 States/UTs.</li> <li>A total of 21,41,077 students from 41,421 schools participated at the school level competition in 35 States/UTs.</li> <li>The State level competition was held on 21<sup>st</sup> November 2012 in the State/UT Capitals, amongst the 50 best entries received in the State/UT.</li> <li>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 on 21<sup>st</sup> January, 2013.</li> </ul>	
		ii) To create awareness for the urgent need for mutual cooperation and adopting integrated planning and participatory approach in management.				<b>2. Electronic Media Campaign for mass awareness on water conservation –</b> <ul style="list-style-type: none"> <li>Electronic Media Campaign was launched on Prasar Bharti, Doordarshan, New Delhi for telecast of video spots on National Network (DD-1)and 12 Regional Channels for a period of 13 days from 29<sup>th</sup> June to 11<sup>th</sup> July 2012.</li> </ul>	

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						<ul style="list-style-type: none"> <li>Electronic Media Campaign was launched on National News, Vivid Bharti National(37 stations) 22 FM Channels and 31 Stations of Regional News of All India Radio w. e. f. 29.06.2012 to 12.08.2012 for 45 days to broadcast audio spots on water conservation.</li> <li>Electronic Media Campaign was launched through DAVP on private FM Channels for broadcasting audio spots for a period of 52 days from 29.06.12 to 19.08.12 by the 72 stations across 55 cities.</li> <li>Video spots of 30 seconds on water conservation for 285 days w. e. f. 29.06.2012 telecast on Lok Sabha Television.</li> </ul>	
		(iii) To create awareness among the people about necessity of water conservation.				<p><b>3. Print Media Campaign –</b></p> <p>* A two page feature was released in Rail Bandhu Magazine of the Indian Railways.</p> <p>* An advertisement was released on the Occasion of National Integration Day on 19.11.2012.</p>	
		(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><b>4. Water Conservation Day</b></p> <ul style="list-style-type: none"> <li>Birth anniversary of late Mrs. Indira Gandhi on 19.11.2012 was celebrated as Water Conservation Day by organisation of a variety of programmes by the Ministry and its Organisations for different stakeholders to create awareness regarding concern about depleting water resources and Ministry's vision for the water underlining its commitment to be an active contributor to the sustainability of this very important natural resource.</li> </ul>	

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1	2	3	4	5	6	7	8
		<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><b>5. Workshops/Seminars/Conferences –</b></p> <ul style="list-style-type: none"> <li>* Ministry organised the 'India Water Week-2012' from 10-14 April 2012.</li> <li>* Advertisement &amp; Publicity through awareness workshop on "Sustainable Management of Ground Water Resources/ Depletion of Ground Water Level" at Vatakara, Kerala.</li> </ul> <p><b>6. Participation in Fairs/Exhibitions –</b></p> <ul style="list-style-type: none"> <li>• Ministry and its organizations participated in IITF-2012 at New Delhi from 14<sup>th</sup> to 27<sup>th</sup> November, 2012 through erection of pavilion, models on water conservation to spread awareness amongst masses for water conservation and management.</li> <li>• CWC participated in the 'Water World Expo 2013' in Mumbai from 15-18 January 2013.</li> <li>• CWC participated in the exhibition during the 100<sup>th</sup> Indian Science Congress at Kolkata from 3-7 January 2013.</li> </ul> <p><b>7. Evaluation of IEC Scheme during the XI Plan</b></p> <ul style="list-style-type: none"> <li>* The independent evaluation of the IEC Scheme during the XI Plan is being undertaken.</li> </ul>	
c.	National Water Academy	<p>(i) Training in all aspects of WRD&amp;M for all stakeholders of water sector including Induction Training Programme.</p> <p>(ii) Infrastructure development</p>	5.00	<p>a) 37 nos. of Training Programme,</p> <p>b) Spillover work of XI Plan like construction of Swimming Pool, and</p> <p>c) Furnishing of newly constructed Guest House &amp; Annexe Building.</p>	<p>(a) Training Program will be spread over the whole year and will be conducted in accordance with the approved Training Calender.</p> <p>(b) To be completed by March 2013.</p> <p>(c) to be completed by March 2013.</p>	<ul style="list-style-type: none"> <li>• 33 Nos. of Training Programmes including Workshop/Seminar,</li> <li>• 787 Officers Trained in 1322 manweeks</li> <li>• Running and Maintenance of NWA campus and its infrastructure.</li> </ul>	

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1	2	3	4	5	6	7	8
						<ul style="list-style-type: none"> <li>Construction of Swimming Pool Completed and the swimming pool was made operational</li> <li>Construction work of 2 lecture hall and a computer lab and extension of Krishna Guest House consisting 14 suites and dining hall was completed up to 90%.</li> </ul>	
d	Capacity Building Programme	i) Strengthening of WALMIs/MTIs. ii) National level Training/visit of farmers iii) Demonstrations iv) National Water Mission	55.00	Strengthening of 14 WALMIs, 200 training courses, 600 demonstrations and programme on water conservations, preservation & augmentation	Activities to be implemented by States Govt. in one/two years. National level training programmes are proposed in addition to the State level training programme organized by the States.	NERIWALM was transferred from DONER to Ministry of Water Resources w.e.f. 01.4.2012. Funds were allocated during 2012-13 but curtailed at RE 12-13 stage on the grounds that NERIWALM has spillover funds of DONER.	
11.	Implementation of National Water Mission	The objective of National Water Mission is "conservation of water, minimizing wastage and ensuring its more equitable distribution both across and within States through integrated water resources development and management".	200.00	<p>Institutional Mechanism: - Convening of meetings of Advisory Boards/ Groups /Committees.</p> <p>(i) Goal 1 –Comprehensive water database in public domain and assessment of the impact of climate change on water resources :- Downscaling of Climate Change models on river basin scale.</p> <p>(ii) Goal 2 –Promotion of citizen and state action for water conservation, augmentation and preservation :- Sensitization of all Panchayat members and their functionaries in dark and grey blocks - Preparation of Framework Action Plan (iii) Goal 3-Focused attention to vulnerable areas including over exploited areas: - (a) Comprehensive assessment of ground water resources through aquifer mapping. (b) All over-exploited areas to be covered by recharge of ground water.</p>	Preparation of Cabinet Note and EFC Memo and processing for approval would be taken up during the year 2012-13.	Expenditure 'Nil' during FY 2012-13	NWM is new scheme, EFC approved by MoF on 25.10.2013 and sanction order issued on 27.11.2013. Budget allocation has been reduced to Rs.0.25 crore at the RE 2012-13 stage.

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1	2	3	4	5	6	7	8
				(iv) Goal 4-Increasing water use efficiency by 20% :- (a) Increasing water use efficiency by 20% (b) The gap of about 15% between the irrigation potential created and the irrigation potential utilized to be reduced by half. (v) Goal 5-Promotion of basin level and integrated water resources management:- (i) Finalization of National Water Policy (2013) (ii) Preparation of River Basin Master Plan for integrated water resources, development & management.			
12.	Irrigation Management Programme	Central assistance linked to outcomes in terms of MMI performance and impacts of States or the local bodies such as Panchayats or Water Users's Association.	100.00	(a) improve the ISF collection ratio; (b) generate more accurate data on irrigation potential utilized; (c) give strong fillip to PIM; (d) speed up CAD; (e) encourage rationalization of ISC levels; (f) encourage volumetric water supply and pricing; (g) foster partnership between irrigation agencies and WUAs; (h) in general help reduce the gap between IPC & IPU.	Preparation of Cabinet Note and EFC Memo and processing for approval would be taken up during the year 2012-13.	The scheme has not been approved.	An amount of Rs 0.24 crore has been incurred against RE 2012-13 of Rs.0.75 crore.
13.	Dam Rehabilitation & Improvement Programme (DRIP)	The Engineering and Management Consultant for the CPMU will be hired. CPMU activities related to rehabilitation of Phase-I project will commence	24.00	Hiring of CPMU consultant	June, 2012	i. For hiring the Consultancy services, RFP was issued to the shortlisted consultants. Three firms had submitted technical and financial proposals. Technical evaluation had been completed and sent to the World Bank for 'No Objection'. Financial bid was opened after receipt of Bank's 'No Objection'.  ii. 'First tender documents' in respect of four implementing agencies out of six implementing agencies was got approved by the World Bank during the year. In addition tendering for road improvement works in respect of 7 dams of Madhya Pradesh was also taken up.	An amount of Rs. 0.43 crore has been incurred against RE 2012-13 of Rs.2.30 crore. The expenditure of Central component was affected largely owing to delay in hiring of Engineering and Management Consultant.

S. No.	Name of Scheme/ Programme	Objective/ Outcome	BE 2012-13	Quantifiable Deliverables	Process/ Timelines	Achievements w.r.t. Col (5) as on 31.03.2013	Remarks
1	2	3	4	5	6	7	8
						<p>iii. CPMU received 21 Project screening templates from the implementing agencies, on which first-level comments was given by CPMU, and 10 templates were sent to the World Bank for partial agreement. World Bank had cleared the two screening templates of Tawa and Kalo dam.</p> <p>iv. Out of 41 Batch-I dams in DRIP, 38 proposals were received by the CPMU for design flood review. Out of 38 proposals received, design flood review of 31 DRIP dams had been completed. Design flood review of another 15 Batch-II was also completed.</p> <p>v. 22 DRIP dams were inspected by the CPMU teams during the FY 2012-13.</p> <p>vi. During FY 2012-13, five trainings programs had been conducted on different aspects of dam safety and procurement and financial management issues for the officers of participating states. About 200 officials were trained on different aspects of DRIP implementation.</p> <p>vii. Case for an early involvement of Academic/Research Institutes in DRIP for their capacity building in the field of dam safety was processed. Eight institutes had submitted their proposals for participating in DRIP, and their proposals were shared with the World Bank for an early agreement on the allocation and manner of resource allocation from central DRIP component.</p> <p>viii. Five new States/ Organizations are expected to join DRIP, for which funds have been earmarked under DRIP as unallocated resources. The cost allocation for these new States/ Organization had been finalized in consultation with the Bank. Their revised proposals for agreed allocations were shared with the World Bank for an early project agreement for five States/ Organizations with the Bank.</p>	



## Performance of 2013-14

## Annexure – II (Chapter-IV)

(Rs. in Crore)

Sl.No	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2013-14	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.03.2014	Remarks/ Rish Factor
1	2	3	4	5	6	7	8
1	Development of Water Resources Information System (DWRIS)		150.00				An amount of Rs. 42.65 Crore has been incurred against RE 2013-14 of Rs.43.00 crore.
	Hydrological Observations and Monitoring System						
	Upgradation of the existing HO Stations and setting up of new HO sites	Continuing activities to collect hydrometeorological and water quality on all major rivers including snowmelt runoff monitoring, compilation and dissemination of the observed data to users. Hydrological Information System, Upgradation of sites, Opening of New Sites and Water Quality Laboratory upgradation		Publication of Hydrological Water Year Book, Water Quality Year Book, Silt Year Book, Hydrological Information System, Upgradation of sites, Opening of New Sites and Water Quality Laboratory upgradation	Daily/Ten Daily/Monthly/Yearly / Periodical	i). Observation of Hydrological data at 933 sites including snow data and monitoring of glacier lakes continued. (ii) Collection, compilation, storage, dissemination, (iii) Upgradation of 47 HO stations achieved. analysis and publication of data in the form of Water Year Books achieved.	
	Collection of Storage data on the major reservoirs in the country	To collect reservoir water level of 120 reservoirs whose live storage is proposed to be monitored by the CWC by telemetry system		Installation of Telemetry System on 87 reservoirs	Telemetry System will be installed on 87 reservoirs	Reservoir storage data continued to be collected using conventional methods as the activity is new and approval of EFC was awaited.	
	Developing Coastal Management Information System (CMIS)	i) Determination of causes of erosion/ sediment transportation /defining sediment cell/sediment budget etc. including data collection and documentation ii) Installation of Tidal gauge and data collection iii) Data collection of Parameter like Wave, current, Bathymetry etc. in short-fall areas		i) 2 Site  ii) 1 Site  iii) 2 Site	Continuous activity	Since it is new component of scheme, which was approved in Dec'2013, the component could not be implemented. However, CWC identified and held discussions with State/ central agencies for entering into MoU to implement opening of new sites for data required for CMIS as preparatory works. Discussions were continued.	

SI.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2013-14	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.03.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
		iv) Collection, Analysis, Processing and Integration of Coastal Data into WRIS v) Strengthening of CPDAC/it's sub-committees, Field visits, Training/Study Tours, Technology Transfer, Strengthening of Beach Erosion Dte. as a Centre of excellence , Preparation of Manual, guidelines, Workshop / Seminar etc.		iv) Ongoing Process v) Ongoing Process			
	<b>Irrigation Census</b>						
	Rationalization of Minor Irrigation Statistics (RMIS)	Conduct of 5th Minor Irrigation Census w.r.y. 2011-12		1.) Conduct of All India Workshop for Introduction of New Methodology for next MI Census in the States-	28-02-2013	5th MI Census to be conducted with Reference Year 2013-14 using traditional methodology (instead of new methodology).All India Training Workshop was held on 25.02.2014 to impart training to States for conducting Census in traditional methodology.	
				2.) Selection of Central Agency for conduction the MI Census through outsourcing.	30-04-2013	5th MI Census to be conducted with Reference Year 2013-14 using traditional methodology with reference year 2013-14. Now no Central agency required as Census is to be done in traditional way.	
				3.) Other Preparatory work for MI Census work like finalization of Schedules/Guidelines and the related software, selection of field agency etc.	30-08-2013	Other Preparatory work for MI Census work like finalization of all Schedules/ manuals, concepts, definitions using traditional methodology were sent to States. Field work to be done by States. Since it is component of scheme, which was approved in Dec' 2013, Field work could not start in States.	

SI.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2013-14	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.03.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
				4.) Hiring of Additional Staff at Central level for better supervision and Monitoring of 5th MI census.	31-08-2013	Since it is component of scheme, which was approved in Dec'2013, Hiring of additional staff could not take place.	
				5.) Training to field agencies	31-03-2014	All India Training Workshop was held on 25.02.2014 to impart training to States for conducting Census in traditional methodology.	
	Pilot Census/Survey of Major and Medium Irrigation Projects	To collect information through outsourcing on Culturable Command Area (CCA) and their geographical extent, Irrigated area by season, Irrigation Potential created and utilized (IPC & IPU), Cropping pattern, Other project related information		To initiate the process for undertaking Pilot Survey through out sourcing.	Pilot Survey would be completed by March, 2014	Since it is component of scheme, which was approved in Dec'2013, the component could not be implemented. Schedule for collection of data was prepared and finalised to be made part of Pilot Survey.	
	Water Quality Assessment Authority and Monitoring System	WQAA is mandated to direct various agencies to standardise methods for water quality monitoring and to ensure quality of data generation; to take measures so as ensure proper treatment of wastewater with a view to restoring the water quality of the river/water bodies to meet the designated-best-uses; to take up research and development activities in the area of water quality management; to promote recycling, re-use of treated sewage/trade effluent for irrigation in development of agriculture; to draw action plans for quality improvement in water bodies; to maintain minimum discharge for sustenance of aquatic life forms in riverine system; to utilize self-assimilation capacities at the critical river stretches to minimize cost of effluent treatment; to review the status of quality of national water resources (both surface water & groundwater (except that due to geo-genic aspect) and identify "Hot Spots" for taking necessary actions for improvement in water quality; to constitute/set-up State-level Water Quality Review Committee (WQRC) to coordinate the work to be assigned to such committees.		Most of the activities of WQAA are of continuous nature and are taken up throughout the year regularly. Few of the quantifiable activities to be taken up by WQAA are: 1. R&D Studies - 4 2. Training Programme-6 3. Preparation of various reports on water quality issues – 4 4. Organization of WQAA meetings – 2 Nos.	Continuous activity	1. organized one a National level training programme on "Water Quality Monitoring and Assessment" from 20th to 24th Jan, 2014. 2. The Revision of UPWQM completed on 27th December, 2013. 3. 2 committees constituted - (1) Committee on revision of UPWQM and (2) Committee on rationalisation and optimization of WQ monitoring stations (12.07.2013). 4. As per the recommendation of the Sub-Committee to review powers and mandate of WQAA, the revised notification of WQAA prepared and submitted to the Ministry of Law and Justice for vetting after getting the same verified from MoE&F. Based upon their comments, it was forwarded to MoE&F	

SI.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2013-14	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.03.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
						for getting approval of Hon'ble Minister (E&F) 5. Final Report on 'Study of WQ of the Existing Water Bodies of Meerut district on GIS Platform' has been submitted by Janhit Foundation in January, 2014 after complying all the suggested modifications.	
	Strengthening of Monitoring Unit in CWC	To monitor Major, Medium Irrigation Projects by making field visits and prepare implementation status report thereof and Strengthening to monitoring units of CWC.		i) online monitoring of major & medium projects under AIBP will be carried out by developing in-house capability iii) All the Major and Medium projects are monitored.	Activities to continue through out the year.	All the major and medium projects are monitored. For related training redered by NRSC was attended by CWC officers for pilot study of 13 identified projects to develop in-house capability Web enabled online monitoring system - Monitoring of project by field visits will also be supplemented with a web based online monitoring system linking the state govt. monitoring offices/ project offices in respect of major/medium/ERM projects receiving AIBP assistance with the regional offices of CWC as well as the CWC head quarters for better monitoring of ongoing activities on the project.	
	Data Bank and Information System						
	Web-enabled Water Resources Information System & Setting up of National Water Informatics Centre (NWIC)	Creation of Watershed Atlas and development of web enabled Water Resources Information System of the country at 1:50000 scale		Fourth version of WRIS will be launched.	Expected by Dec., 2013	Fourth version of WRIS was launched in March 2014.	

SI.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2013-14	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.03.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
	Up-gradation and Modernization of Library Information Bureau in CWC	Up gradation & Modernisation Library of CWC		Upgradation & Modernisation Library of CWC	Continuing activity	Since it is new component fo scheme, which was approved in Dec'2013, the component could not be implemented. However routine works of maintenance of library were undertaken.	
	Software Management in CWC	i) Enhancement of e-Governance capabilities, ii) upgradation & strengthening of hardware, software and network resources iii) Improvement of CWC Website iv) Building of IT knowledge base in CWC through Training v) Strengthening of SM Dte.		i) Establishment of data centre ii) Digitization of Engg. Drawings iii) establishment of disaster recovery site iv) procurement of Laptop, printer vi) Installation of FEM software vii) Upgradation of computers and printers viii) Website development on on IPv6 platform ix) Expansion of LAN facility x) AMC for hardware and software xi) Implemenation of e-procuremnt xii) Digitization of Service books of staff of CWC	III rd Quarter  III rd Quarter  III rd Quarter  IIInd Quarter  Ist Quarter  IIInd Quarter  IIInd Quarter  Continue activity Continue activity Ist Quarter  IIInd Quarter	Since it is component of scheme, which was approved in Dec'2013, the component could not be implemented. However routine activities like, upgradation of computers and printers, procurement for consumables, AMC of hardware and software, MS office were carried out.	
				xiii) Installation of Library information Software xiv) Installation of DBMS software xv) procurement of consumables xvi) Installation of microsoft office xvii) Installation of active directory	IIIrd Quarter  IVth Quarter  Continue activity		
2	Flood Forecasting	To maintain the network of hydrological observations sites across the country by CWC covering 20 river basins to provide timely flood forecasts at 175 stations to the local administration and extension of Flood Forecasting in other areas	150.00	Collection of real time data, its analysis and issue of flood forecasts. Around 6000 forecasts are issued every year.	Central Water Commission will implement during the year.	A total of 7059 nos. flood forecasts were issued.	New activity of extension of Flood Forecasting Network could not be undertaken due to non-approval of Scheme.

SI.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2013-14	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.03.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
							An amount of Rs.24.67 crore has been incurred against RE 2013-14 of Rs.25.00 crore.
3	Hydrology Project	To extend and promote the sustained and effective use of the Hydrological Information System by all potential users concerned with water resources planning and management in 13 states and 8 Central Agencies.	70.00	Implementation of the project components, i.e. institutional strengthening, vertical extension (with DSS-Planning, DSS-Real Time, Hydrological Design Aids, and 10 Purpose Driven Studies) and Horizontal Expansion with support of 4 major consultancies. Aquifer Mapping in 6 pilot study areas.	The planned activities are to be implemented through the Central Agencies, viz. PCS (MoWR), BBMB, CWC, CGWB, CWPRS, CPCB, IMD and NIH till end of May, 2014.	(a) Data observation and validation is being carried out on a regular basis. (b) Under Decision Support System-Planning consultancy, DSS developed for identified basins in 9 HP-I states. (c) Installation of RT-DAS for DSS-Real Time of BBMB nearing completion. (d) Development of modules of Hydrological Design Aids (HDA) model nearing completion. (e) 2 No. of Purpose Driven Studies are completed and approved. Remaining PDSs are nearing completion. The interpretation of results and finalization of report in progress. (f) Heliborne survey completed in the 6 Pilot Areas. The interpretation of results and finalization of report in progress.	An amount of Rs. 40.73 crore has been incurred against RE 2013-14 of Rs.50.00 crore.
4	<b>Ground Water Management And Regulation</b>	A. Aquifer Mapping for delineation of Aquifer disposition and their charecterisation	275.00	As follows	One year	The major activities envisaged under Aquifer mapping and preparation of Aquifer Management Plans are Compilation of existing data, Data Gap Analysis, Generation of additional data and Preparation of Aquifer Plan. Each activity has numbers of sub-activities and tasks and is carried out as per detail protocol for implementation.	An amount of Rs. 81.53 Crore has been incurred RE 2013-14 of Rs.140.00 crore.

SI.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2013-14	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.03.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
		i. Procurement of Maps 7 Data sheets		5.0 lakh Sq Km	One Year	The procurement of digital topo sheets from Survey of India is under process during the year 2013-14. Hard copy of topomaps for 154149 sq. km, hard copy of geology map 43319 sq.km, Soil Maps of 33943 Sq.Km and Geomorphological maps for 24802 Sq.Km have been procured. In respect of data compilation, against a target of Data base on Exploration wells – 165713 Sq.km, Analysis of Geological data- 89381 Sq.Km., Analysis of Geophysical Data-100276 Sq.Km., Analysis of Hydrological Data- 55526 Sq.Km., Analysis of Geochemical Data- 86586 Sq.Km., Analysis of Hydrogeological Data-120244 Sq.Km., Preparation of composite Lithologs - 69366 Sq.Km., Delineation of principal aquifers-(Vertical and Lateral) – 94786 Sq.Km., Aquifer Wise Water Level Data- 98597 Sq.Km., Aquifer Wise Draft Data – 26543 Sq.Km. have been completed.	
		ii. Data Compilation		6.25 lakh Sq Km	One year	Data Gap Analysis, in respect of Geology- 100042 Sq.Km., in respect of Geophysics- 120306 Sq.Km., in respect of Hydrology-93741 Sq.Km., in respect of Geochemical Data – 94756 Sq.Km., in respect of Hydrogeology-141810 Sq.Km. has been identified. Delineation of Principal Aquifers by exploration- 103141 Sq.Km., Aquifer Wise Water Level Data – 125988 Sq.Km. and	
		iii. Data Gap Analysis		6.25 Lakh Sq Km	One year		

SI.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2013-14	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.03.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
						Aquifer Wise Draft Data – 38591 Sq.Km. has been identified .	
		iv. Data Generation		0.54 Lakh Sq Km	One Year	For generation of additional data, fieldwork is initiated in 54,000 Sq.Km through in-house resources of CGWB in year 2013-14. Activities of ground water management studies viz; exploratory drilling, geophysical surveys, chemical quality studies and micro-level hydrogeological surveys are taken up during the year for value addition to aquifer maps.	
		Ground Water Exploration for aquifer mapping		800 Well	One year	The exploration is aimed at generation of precise demarcation of aquifer disposition and	
						characteristics of hydrological parameters of sub-surface ground water data in the area. It is being carried out by the Board through a fleet of 90 drilling rigs (33 Direct Rotary, 47 Down the Hole and 10 Percussion Combination types). During financial year 2013-14 (up to 31.03.2014), the Central Ground Water Board constructed 649 wells (EW-426, OW-137, PZ-86) including 32 high yielding wells to assess the ground water potential in different hydrogeological set up. The Board has also constructed 231 exploratory wells through outsourcing in the States of Uttar Pradesh, Haryana and Uttarakhand.	



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1	2	3	4	5	6	7	8
		Geophysical Studies for aquifer mapping		VES-2000 Bore-hole Logging- Need based	One year	Geophysical studies are undertaken as an integral part of aquifer mapping and short-term water supply investigations. During 2013-14 up to 31 <sup>st</sup> March,	
		Geophysical Studies for aquifer mapping		VES-2000 Bore-hole Logging- Need based	One year	2014, carried out 2383 Vertical Electrical soundings, 145 line kilometer resistivity profiling and geophysical logging of 96 bore holes have been conducted in various parts of the country. 550 Vertical Electrical Soundings conducted through outsourcing.	
		Hydro-chemical studies for aquifer mapping		20000 Samples	One year	completed.	
		B. Monitoring and Strengthening of Hydrograph net work Observation Wells		Existing four times in a year and additional 7000	One year	2438 nos. Of additional new observation wells had been established.	
		C. Technical Assistant to State & Central Govt. for drinking water source findings		Need based as per request	One year	Total nos. 169 water supply source investigations has been completed.	
		D. Ground Water Resource Assessment		. Dynamic Ground Water Resource Assessment (as on 31st March 2013)	One year	CGBW in association with State Ground Water Organization has completed the re-assessment of country's Dynamic Ground Water Resources assessment taking base year 2011.	
		E. Preparation of Reports, Map of dissemination of Scientific information : State Reports and Ground Water Year Book		State Reports - 17 Ground Water Year Book- 23	One year	- 11 nos of State Report had submitted and 491 nos of District Brochures had submitted. - 19 nos of Ground Water Year Books had submitted.	
		F. regulation of Ground Water development by Ground Water Authority		Regulation of ground water in 162 notified areas	One year	As part of streamlining the regulatory function of "Central Ground Water	

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1	2	3	4	5	6	7	8
						Authority (CGWA)", District Magistrates / Deputy Commissioners of revenue districts have been appointed as authorized officers for grant of permission for extraction of ground water for drinking/ domestic uses in notified areas. They have been advised to process requests for grant of permission for extraction of ground water for drinking/ domestic purposes in notified areas as per guidelines issued by CGWA. Central Ground Water Authority has also framed revised guidelines for grant of NOC for ground water abstraction by industries/ projects in the country. Central Ground Water Authority has been entrusted with the responsibility of regulating and controlling ground water development and management in the country and issuing necessary directives for the purpose. Total notified areas are now 162.	
		G. Procurement of Machinery & Equipment for Technology up-gradation		Procurement of Rigs & Equipments	One year	<ul style="list-style-type: none"> <li>• Procurement of 9 Rigs - DGS&amp;D has published the Tender on 5th March 2013. Tender opened on June, 2013 and under finalization.</li> <li>• Tenders for 9 rigs finalized by DGS&amp;D. Expenditure sanction of Rs. 67 Crore is received from MoWR. Budget allocation is awaited from MoWR.</li> <li>• A National Level Technical Specification Committee has been constituted by MoWR for procurement of scientific</li> </ul>	

SI.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2013-14	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.03.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
						equipments. 1st Meeting of the Committee held on 31st July, 2013. The 2nd & final meeting has been held on 18th Sep, 2013 and committee has finalized the specifications. • A proposal for procurement of scientific equipments has been submitted to MoWR on 21.03.2014 for administrative approval for the implementation of aquifer mapping during 2014-15.	
5	Research & Development Programme in Water Sector	Objective of the scheme is to find practical solutions to the Country's water resources related problems and to improve available technology, engineering methods, procedures, and to create/upgrade research facilities, benchmarking of the research institutions of the premier organisation under MoWR.	50.00	Completion of physical/ mathematical/ model/ /desk studies=165 Nos Preparation of technical reports= 218 Nos Publication of research papers=260 Nos Preparation of guidelines/manuals=6 Nos Organization of workshop/ seminar/symposia/Training = 33 Nos Training of personnel= 240 Nos	The work is to be implemented by various organisations of the Ministry.	Research / Technical reports - 301, Research papers - 196, and Training and workshop - 64 completed.	During the year 2013-14 an amount of Rs. 31.36 crore has been incurred against RE 2013-14 of Rs.35.00 crore.
6	<b>Human Resources Development /Capacity Building</b>		94.00				An amount of Rs.25.59 crore has been incurred against RE 2013-14 of Rs.31.50 crore.
(a)	Information, Education and Communication Component of Human Resources Development /Capacity Building Scheme.	To generate awareness amongst the masses about the importance of water and need for its conservation	40.00	i) Painting Competition. ii) Electronic Media Campaign for mass awareness on water conservation iii) Print media Campaign iv) Workshops/Seminars/Conferences v) Participation in Fairs/Exhibitions	Continuing activity	<b>1. Painting Competition:</b> • The Ministry of Water Resources conducted a three tier Painting Competition for 6th, 7th and 8th standard students in three stages, namely, School, State and National Level to spread awareness on water conservation in all the States/UT's .The themes chosen for the school level	

SI.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2013- 14	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.03.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
						<p>painting competition was 'Save Water, Secure The Future', The State Level Painting competition on the theme 'Care for Water before it becomes Rare' was conducted on 18.11.13. The winners were awarded Rs. 10,000/- for First Prize, Rs. 8000/- for Second Prize and Rs. 5000/- for Third Prize and Ten Consolation Prizes of Rs. 1000/- each along with a certificate of merit.</p> <ul style="list-style-type: none"> <li>The 4th National Painting Competition was held among the 90 students comprising 1st, 2nd and 3rd prize winners of State Level competition on 27th December, 2013 at NASC Complex, PUSA, New Delhi. The winners were awarded first prize of Rs. 1,00,000/- (Rs. One Lakh), four second prizes of Rs. 50,000/-, eight third prizes of Rs. 25,000/- and seventy seven consolation prizes of Rs. 5,000/- each along with certificates.</li> <li>A Special Painting Competition for Hilly States was also organised in Dehradun in 24th January, 2014, by CGWB.</li> </ul>	
						<p><b>2. Electronic Media Campaign for mass awareness on water conservation:</b></p> <ul style="list-style-type: none"> <li>Electronic Media Campaign was launched on DD National, DD News, Regional Channels including Lokvani channels of Prasar Bharti for spreading</li> </ul>	

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1	2	3	4	5	6	7	8
						<p>messages of water conservation among the masses in the Water Conservation Year – 2013 for two and half months (plus Bonus telecast of another 2 1/2 months) by telecast of video spots.</p> <ul style="list-style-type: none"> <li>• Electronic Media Campaign was launched for a period of three months on Lok Sabha TV.</li> <li>• Electronic Media Campaign was launched on various Radio Stations of All India Radio for a period of three months.</li> <li>• Electronic Media Campaign was launched on 74 Private TV Channels and 97 Private FM Stations and 42 Community Radio Stations for a period of two months.</li> </ul>	
						<p><b>3. Print Media Campaign –</b></p> <ul style="list-style-type: none"> <li>• Print Media Campaigns were undertaken throughout the country. Advertisements on Water Conservation to create awareness among the masses were published in all leading newspapers throughout the country on 17<sup>th</sup> July 2013, 20<sup>th</sup> August, 2013, 27<sup>th</sup> September, 2013, 19<sup>th</sup> November, 2013 and 27<sup>th</sup> December, 2013.</li> </ul> <p><b>4. Workshops/Seminars/ Conferences –</b></p> <ul style="list-style-type: none"> <li>• India Water Week-2013 with the theme “Efficient Water Management: Challenges and Opportunities” was organised during 8 – 12 April, 2013 at Vigyan Bhawan, New Delhi.</li> </ul>	

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1	2	3	4	5	6	7	8
						A seminar on Water Conservation was organized by CSMRS on 28th June, 2013 on behalf of the ministry of Water Resources. • 20 workshops were conducted by CGWB and its regional offices in various parts of the country as part of Results Framework Document (RFD) of the Ministry.	
						<p><b>5. Participation in Fairs/Exhibitions –</b> The Ministry of Water Resources had erected a pavilion in Hall No.7E in the 33rd Edition of India International Trade Fair organized by ITPO in Pragati Maidan from 14th to 27th November, 2013. The pavilion carried out different exhibitory materials viz. working models, translites, banners, posters etc. The theme of the pavilion was “Inclusive Growth”. Several organizations under the Ministry of Water Resources viz. Central Water Commission (CWC), Central Ground Water Board (CGWB), National Water Development Agency (NWDA), Central Soil and Materials Research Station (CSMRS), National Institute of Hydrology (NIH), Central Water &amp; Power Research Station (CWPRS), and Public Sector undertakings viz. WAPCOS Ltd. and National Projects Construction Corporation Limited (NPCC) exhibited</p>	

SI.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2013-14	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.03.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
						<p>their models and other exhibitory materials to showcase their activities and achievements.</p> <ul style="list-style-type: none"> <li>The Ministry participated in the 17th National Exhibition at Visva Bharti University Ground, Bolpur, West Bengal from 6th -10th September, 2013.</li> </ul>	
						<p><b>6. Celebration of Water Conservation Year 2013 -</b></p> <ul style="list-style-type: none"> <li>The year 2013 was declared as 'Water Conservation Year' by the Union Cabinet. During the year various mass awareness activities like seminars, nukkad nataks, padyatra, Marathon, debate, painting competitions, quiz competitions, essay competitions, distribution of pamphlets/brochures, visit of school/college students to project sites, out door publicity, video shows, campaign for industry farmers/RWAs/NGOs/WUA, cultural programmes, exhibitions etc. were undertaken by the Ministry and its organisations to spread the message on water conservation throughout the country. • A logo on Water Conservation Year – 2013 was developed</li> </ul>	
(b)	National Water Academy	Training for In-service Engineers/ Induction Engineers in water Resources Planning Development and Management Infrastructure development	5.00	a) 32 Nos. of Training Programmes t	Training programme will be spread over the whole year and will be conducted in accordance with the approved Training Calendar	During the year 2013-14, As against RFD target of 32 programs, 37 number of training programmes including Workshop/Seminar have been conducted. This include regular training programs of NWA,	

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1	2	3	4	5	6	7	8
						programs conducted under Hydrology Project-II, programs conducted in association with World Meteorological Organisation, programs sponsored by ISRO etc. During the year 877 number of officers from various states/central Govt. organizations, PSUs were trained. During the last 5 years, the output is about 50 to 55 weeks of training and 1000 to 1100 man weeks of training per year. However, this year the output is about 75 weeks of training and 1781 manweeks of training which is much more than an average output.	
(c)	RGN Ground Water Training Institute	Training of CGWB and other Central/ State Govt. officers and staff on ground water aspect	9.00	32 Training Courses Tier-II-36 Tier-III through outsourcing-100	One year	Tier I: 32 national level trainings completed, Tier-II: 36 State level trainings completed, and Tier-III: 97 Block level trainings completed.	
(d)	Capacity Building Programme		40.00			The Ministry participated in the 17 <sup>th</sup> National Exhibition at Visva Bharti University Ground, Bolpur, West Bengal from 6 <sup>th</sup> -10 <sup>th</sup> September, 2013.	
	Training & demonstration	Training Programmes Seminars / Workshops /of farmers/ functionaries and demonstrations of tested technology in the fields.		200 programmes	progress to depend upon WALMIs taking up training work	The EFC proposal on HRD and Capacity Building Scheme covering the component namely 'Implementation of Training policy of MoWR' has been approved by the Cabinet on 3.09.2013. Based on the approval, the Training Policy of MoWR has been approved by the competent authority in the month of January 2014. Hence no review of past performance arises.	



SI.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2013-14	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.03.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
	Strengthen of WALMs/ IMTIs	To repair/ renovate/ upgrade/ modernize/ of dilapidated Infrastructure 14 of WALMs/ IMTIs.		One time financial assistance to each of 14 institutes in installments will be provided and each installment will be tied with deliverable performance indicators as per MoU.	state Government making available their share of contribution	Electronic Media Campaign was launched on 74 Private TV Channels and 97 Private FM Stations and 42 Community Radio Stations for a period of two months.	
	NERIWALM	Running and Maintenance of the Institute NERIWALM.		NERIWALM, Which is a WALMI in North Eastern region of the Country is transferred to MoWR from M/o DoNER w.e.f.1 <sup>st</sup> April, 2012.	training and project work taken up	During Financial Year 2013-14 though allocation of Rs.9.60 crore was made by Ministry of Water Resources but no funds released that NERIWALM has spillover funds of DONER.	Funds already with them were utilized for inhouse (Administrative) works and no developmental projects were taken up.
	NERIWALM	Running and Maintenance of the Institute NERIWALM.		NERIWALM, Which is a WALMI in North Eastern region of the Country is transferred to MoWR from M/o DoNER w.e.f.1 <sup>st</sup> April, 2012.	training and project work taken up	During Financial Year 2013-14 though allocation of Rs.9.60 crore was made by Ministry of Water Resources but no funds released that NERIWALM has spillover funds of DONER.	Funds already with them were utilized for inhouse (Administrative) works and no developmental projects were taken up.
7	<b>Infrastructure Development</b>	Land & Building (CWC) and Ministry (Proper) - To provide decent honorable, better and healthy working conditions for the staff engaged in works of data collection planning and investigation of WR projects, monitoring of various WR projects and flood forecasting activities.	50.00	Acquisition of land and construction of non-residential and residential buildings for CWC at various locations all over India, modernisation of CWC HQ at Sewa Bhawan, New Delhi, Establishment of National Water Technology Park at Hyderabad.	Majority of works are being implemented by Central Public Works Department	<b>CWC(L&amp;B):-</b> Construction of CWC Building at Kolkata, Guwahati, Patna, Balasore, Hutments continued. Construction works of boundary wall at Itanagar contd. Proposal for construction of office cum residential buildings at Rongpur, Silchar under progress. Modernization at New Delhi continued, fresh proposal for modernization works through NPCC pursued. Proposal for construction of Sub Div building at Hyderabad pursued.	An amount of Rs.10.30 crore has been incurred against RE 2013-14 of Rs.20.00 crore.

SI.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2013-14	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.03.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
		IT & e-Governance Scheme Ministry(Proper) - Development of Web based Work flow applications for e-Governance in CGWB in association with NIC and to procure associated Hardware, Software and Peripherals.		Development of effective Web based Work flow applications for use of all the employees of CGWB along with deployment of associated Hardware, Software and Peripherals.	Development and Deployment would be carried out during 2013-14 and 2014-15.	<b>Ministry proper (IT &amp; e-Gov) &amp; CGWB(IT):-</b> Procurement of Desktop and peripherals, Purchase of Photocopier Machines, Scanner AMC of IT equipment. AMC of photocopiers, AMC of UPS. Providing infrastructure support for implementation of IPV 6 in Ministry. Providing infrastructure support for implementation of e- Gov/ e-office. Development of citizen centric Website of MoWR as per Guidelines for Indian Government Website (GIGW) is nearing the finalization stage. KMS operationalized and provision of Online Pay Slips of the employees E-Leave system operationalized during 2013-14. Systems Study for the development of web based applications for CGWB completed.	
		CGWB (IT) - • Development of Web based Work flow applications for e-Governance in CGWB in association with NIC and to procure associated Hardware, Software and Peripherals.		Development of effective Web based Work flow applications for use of all the employees of CGWB along with deployment of associated Hardware, Software and Peripherals.	Development and Deployment would be carried out during 2013-14 and 2014-15.		
		CGWB (Land & Buildings)--To set up own office buildings		Regional & Divisional Office including Workshop & Store on the land of CGWB at Guwahati.Divisional Store & Workshop at Bangalore . Staff Qtrs. for the employees of CGWB Bhubaneswar. Office, Store & Workshop for CGWB, Div.XII at Bhopal. Regional and Divisional Office at Ahmedabad. Divisional Office Workshop & Store of CGWB,	2-3 years(Since this is an on-going scheme and as per the time scheduled by CPWD it would not be feasible to indicate out put and out come).	<b>CGWB(L&amp;B):-</b> Construction of building of CGWB at Guwahati, Bangalore is completed. Construction of building at Bhopal is in progress, final finishing of work likely to be completed shortly and work on rest of the seven projects as per EFC for the XII Plan shall be executed	

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1	2	3	4	5	6	7	8
				Division-II at Ambala. Boundary wall and Building for Construction of Boundary wall, Building for Office, Workshop & Store for Regional & Divisional at Jammu. Boundary wall and Building for Construction of Boundary wall, Building for Office, Workshop & Store for Regional & Divisional at Jammu. Acquisition of land and construction of Office Building of CGWB, Uttaranchal Region at Dehradun. Divisional Workshop & Store at Chennai. Divisional Office, Workshop & Store at Jodhpur. Divisional Office, Workshop & Store at Ahmedabad. Regional, Divisional Office including Workshop & Store at Dharamshala. Construction of Building for Divisional Office, Workshop & Store at Ranchi (Jharkhand).		on receipts of Ministry's approval/sanction.	
<b>8</b>	<b>River Basin Management</b>		200.00				During financial year 2013-14, an amount of Rs.149.87 crore has been incurred against RE 2013-14 of Rs.150.00 crore..
a	River Basin Organisation	To encourage setting up of River Basin Organisation with the primary objective of providing a forum to all the co-basin states for taking up necessary studies and evaluation etc., with a view to identify the most appropriate alternative for optimum utilisation of resources and meeting the aspirations of all state-holders.	1.00	The creation of RBO has to be preceded by consultations with State Governments. Process of consultations was to be initiated during this year. A token provision has been kept in this regard.		Ministry has sent proposal to the concerned states for constitution of the RBO for Mahanandi & Godavari rivers. The concurrence of concerned state Government has not been received. The matters is being pursued with the concerned states.	
b	Investigation of Water Resources Development Schemes	Survey and investigation for preparation of DPR of continuig projects viz. Rukni - Sonal, Manas Sankosh Teesta link, Twangchu, Suintaley, Kalezkhola, Kirthal, Ujh and national projects Gyspa and Bursar and new projects proposed in XII Plan Tiwant, Drass Suru, Taramchu, Kali Khola and preparation of feasibility reports of Adhwara groups of river in Sitamarhi districts.	90.00	<b>(a) Survey &amp; Investigations for preparation of Feasibility Report of :</b> 1. Bedti-Varada link2. Manas – Sankosh – Tista –Ganga (M – S – T – G) link3. Jogighopa – Tista – Farakka link (Alternative to M – S – T – G)4. Sone dam-STG link5. Kosi – Ghaghara link6. Kosi-Mechi link7. Netravati-Hemavati link	The works of investigation / preparation of project report are covered in more than one year and are carried over to following years.	1. Could not be taken up as Government of Karnataka has to carry out EIA studies. 2. & 3. NWDA has carried out alternative studies of Manas-Sankosh-Tista-Ganga link to avoid Jogighopa – Tista – Farakka (Alternative to M–S–T–G). In the alternative proposal of M-S-T-G link, Manas Tiger	

SI.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2013-14	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.03.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
						Reserve and Buxa Tiger Reserve and other Forests will be avoided. Therefore, NWDA is doing alternative alignment of MSTG link which merges both MSTG and JTF alignments. Topographical Surveys of alternative alignment taken up. 4. Could not be taken up as 2 DPRs of Intra-State link of Bihar were scheduled to be completed in 2013-14.5. Out of 151 Km length in Indian portion, 80% Topographical Surveys completed (278 Km lies in Nepal).6. Entirely lies in Nepal.7. Concurrence from Government of Karnataka awaited.	
		To carry out activities related to survey, field Investigations in respect of preparation of Detailed Project Reports (DPRs), Feasibility Reports (FRs) of river link proposals & preparation of Prefeasibility Reports (PFRs) / FRs/ DPRs of intra state link proposals and activities considered incidental, supplementary or conducive to attainment of above objectives.		b) Consensus building process amongst the concerned States for preparation of Detailed Project Report of Parbati – Kalisindh – Chambal link and Mahanadi – Godavari – Krishna – Pennar – Cauvery – Vaigai – Gundar links system.  c) Preparation of Prefeasibility Reports of Intra – State link proposals, as proposed by State Govts.	March, 2014	Efforts have been made by MOWR / NWDA to obtain the concurrence of concerned States, Madhya Pradesh & Rajasthan for signing of tripartite MOU for preparation of DPR of Parbati –Kalisindh – Chambal link. Efforts have been made for arriving at a consensus for Mahanadi – Godavari – Krishna – Pennar – Cauvery – Vaigai – Gundar link system amongst the concerned States. Meeting of Consensus Group under the Chairmanship of Chairman CWC was held on 27.11.2013. The consensus however is yet to be achieved. 6 PFRs completed during 2013-14.	

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1	2	3	4	5	6	7	8
				(d) Post -DPR stage work of Ken - Betwa link Project Phase-I		DPR of Phase-I project is under appraisal in CWC. The issues related to Environment, Forests and Wildlife clearances are being actively resolved with the Ministry of Environment and Forest. The appraisal of DPR by 12 out of 16 Directorates of CWC & CEA has been completed. Efforts are being made to get the clearance of remaining Directorate of CWC & CEA.	
				(e) Preparation of DPR of Ken - Betwa links (Phase-II)	November, 2013	DPR completed in January 2014.	
				(f) Preparation of DPR of : (I) Damanganga- Pinjal (DP) link (ii) Par-Tapi- Narmada (PTN) link.	July, 2014 and March, 2015	The DPR of Damanganga-Pinjal (DP) link completed in March, 2014. The work of DPR of Par-Tapi-Narmada (PTN) link remained in progress. S&I of various dams have been completed. The command area survey, design work for various structures, cost estimation and EIA are under progress.	
				(g) Preparation of DPR of Intra-State links: (i) Burhi Gandak- Noon-Baya- Ganga link of Bihar, and (ii) Kosi-Mechi link Bihar	October, 2013 and March, 2014	The DPR of Burhi Gandak-Noon-Baya-Ganga link and Kosi-Mechi link of Bihar State have been completed during the year 2013-14. The work of Wainganga (Gosikhurd) –Nalganga (Purna Tapi) link of Maharashtra and Ponnaiyar – Palar link of Tamil Nadu remained in progress.	
c	<b>Re-Structuring of CWC</b>	Horizontal expansion of field activities at basin level to address the basin level issues in more comprehensive and integrated manner and to take up the responsibilities assigned to MoWR/ CWC under National Water Mission(NWM) to address climate change issues .	9.00	Approval of the scheme of Re-Structuring of CWC and creation of posts for restructured CWC. Starting of work of hiring of offices / infrastructure.	Activity to continue throughout the year	i. DPR Submitted for Kirthai-II HEP. (ii) Continuation of the works of & I and HO of Twang chu, Ujh, Suntaley, Kalez Khola HEP, Sonai and Rukni Irrigation Project, and	

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1	2	3	4	5	6	7	8
						and Hydrological & seismological observations in Sankosh basin. (iii) Works of Gyspa project could not progress due to cloca hindrances in the project area. (iv) Satellite imageries received by WAPCOS from NRSE for Adhwara groups of rivers.	
d	<b>Brahmaputra Board</b>	Survey, Investigation & preparation of Master Plan, DPRs for Drainage Development Schemes & DPRs for Multipurpose project, Operation & maintenance & upgradation of NEHARI, Construction of H.Q.Complex & R&M of assets created by the Board, Upgradation of IT&GIS, Climate Change Studies etc. Execution of (i) Drainage Development Schemes, (ii) Anti-erosion schemes & Flood Management Schemes, (iii) Construction of raised platform,,	100.00	3 Nos Master Plan, 2 Nos DPR of DDS, completion of 2 Nos. of DPRs of Multipurpose Projects, completion of 61% works of Barbhag DDS, 42% of Amjur DDS, 74% of Jengrai, 49% of Jakaichuk, 61% of Phase-II & III works of Protection of Majuli Island from flood and erosion, 10% works of Avulsion of Dhola Hatighuli Phase -IV, Anti-erosion works - at Balat village at river Umngi in Meghlaya - 53%, anti-erosion works for protection of Mankachar, Kalairalga international border area from erosion of river Brahmaputra Assam - 24%, Puthimari river in Assam -33%,	To be implemented by Brahmaputra Board	i. Survey & Investigation' and Preparation of :- a) 3 Master Plans, b) 2 DPRs of DDS, c) DPR of Noa-Dihing MPP completed. ii. Execution of Anti-erosion schemes & Flood Management Schemes: a)19.66% of phase-II & III works of protection of Majuli Island completed, b) 29.8% works of Avulsion of Brahmaputra at Dhola Hitighutli Phase-IV completed, iii. Executive of Drainage Development Schemes : a) 1% works of Barbhag DDS, b) 20% of Jakaichuk.	
				Protection work of river Teesta at Baikuthapur in West Bengal - 5%, 30% works of Raised Platforms, Continuation of feasibility study of channalisation of river Brahmaputra, Operation & maintenance & upgradation of NEHARI, Upgradation of IT & GIS, Climate Change studies would be taken up.		iv. construction of 4 raised platforms completed.	

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1	2	3	4	5	6	7	8
9	River Management Activities And Works Related To Border Rivers & UTs	Hydrological observations and investigations of Water Resources Projects with neighboring countries besides river management works on common/border rivers. Flood control, Anti-erosion and anti sea erosion works, Maintenance of flood protection works of Kosi and Gandak Projects (in Nepal).	125.00	(i) Continuation of Joint Hydrological observations on river Ganga with Bangladesh, and(ii) Transmission of flood related data from / to neighboring countries (iii) Preparation of Joint Detailed Project Reports (DPR).(iv) Development works on common/border rivers.(v) Anti-erosion and anti sea erosion works of UTs.(vi) Maintenance of flood protection works of Kosi and Gandak Projects (in Nepal).	Implemented by Central Water Commission, Ganga Flood Control Commission, and State Governments of Bihar, Uttar Pradesh, Tripura, West Bengal, Jammu & Kashmir, Punjab, Himachal Pradesh, Uttrakhand and UTs.	(i)Joint Hydrological observations on river Ganga with Bangladesh continued as per Treaty of 1996. (ii) Survey & Investigation of Pancheswar and Sapta Kosi projects* (in Nepal) continued. (iii) Flood related data transmitted to Bangladesh.(iv) River management works in Tripura and West Bengal on common border with bangladesh continued.	The EFC had Cleared the Scheme but pending approval of CCEA, new activities could not be undertaken. An amount of Rs.30.03 crore has been incurred against RE 2013-14 of Rs.67.00 crore.
10	<b>Farakka Barrage Project</b>	(i) Maintenance of Farakka Barrage Project and its appurtenant structure including feeder canal, Jangipur Barrage etc. (ii) Anti-erosion works for protection of embankments along river Ganga and its tributaries to train the river along main barrage.	150.00	(i) Special repair and Maintenance of Farakka Barrage Project and its appurtenant structure including feeder canal, Jangipur Barrage and replacement of barrage gates etc. ii) Erosion control in the extended jurisdiction of FBP from 40 km u/s to 80 km d/s of Farakka Barrage to save land, crops, orchards, public buildings etc. along river Ganga-Padma.	Farakka Barrage Project will complete all necessary works as per approval and direction of Technical advisory Committee (TAC) of FBP headed by Member (D&R), CWC.	Farakka Barrage Project has done anti-erosion works in some reaches of Hussainpur, Chakbahadurpur, Kuldiara, Birnagar and Simultala etc.approved by TAC-FBP. FBP also replaced 5 nos. of gates of main barrage besides executing works related to O&M of the Farakka Barrage Project under its XII Plan scheme.Continuing implementation of India - Bangladesh Treaty (1996) for sharing of Ganga Water during lean period by controlling discharge at Farakka.	During the year 2013-14, an amount of Rs.89.82 crore has been incurred against RE 2013-14 of Rs.115.00 crore.
11	<b>Implementation Of National Water Mission(NWM)-New Scheme</b>	Conservation of water, minimizing wastage and ensuring its more equitable distribution both across and within States through intergated water resources development and management	110.00	The NWM identifies five goals as under;	Activities to continue in the FY 2013-14 (i.e. 31.3.2014)	Establishment of National Water Mission is in progress in the Ministry. NWM is headed by a Mission Director in the rank of Additional Secretary to the Government of India and is supported by two advisors in	NWM is new scheme EFC approved by MoF on 25.10.2013 and sanction order issued on 27.11.2013.

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1	2	3	4	5	6	7	8
				(I) Comprehensive water data base in public domain and assessment of the impact of climate change on water resource, (II) Promotion of citizen and state actions for water conservation, augmentation and preservation,		the rank of Joint Secretary to the Government of India. One Advisor shall be devoted to technical evaluations and the other for co-ordination and monitoring with necessary supporting staff. NWM activities have since commenced. Total expenditure for the year 2013-14 is Rs.0.71 crore.	An amount of Rs.0.71 crore has been incurred against RE 2013-14 of Rs.2.00 crore  NWM activities at initial stage.
				(III) Focused attention to vulnerable areas including over-exploited areas,			
				(IV) Increasing water use efficiency by 20%, and (V)Promotion of basin level integrated water resources management			
12	Irrigation Management Programme	Incentivizing States for improvement in Irrigation Management	40.00	(i) Evolution of framework for incentivizing States for improvement in irrigation management (ii) Approval of Scheme - EFC Memo (iii) Approval of Scheme Cabinet Note (iv) Evaluation of States as per framework (v) Release of incentives to State Governments	(i) June, 2013(ii) Sept, 2013(iii) Dec, 2013(iv) Dec, 2013(v) March, 2014	The scheme has not been approved.	Budget provision of Rs.0.10 crore has been kept at RE 2013-14 stage.
13	Dam Rehabilitation and Improvement Project (DRIP)	Coordination and Supervision of DRIP activities in participating states and Dam Safety Institutional Strengthening of CWC	36.00	Hiring of Engineering and Management Consulting Firm	Implementation period for DRIP is six years. The activities shall be carried out as per phasing of rehabilitation works of DRIP dams.	1. Central Water Commission hired the services of an Engineering and Management Consultant, and consultant has been mobilized since 24th December 2013. 2. Design flood reviews of 22 DRIP dams have been completed. 3. Project authorities have been about	An amount of Rs.4.60 crore has been incurred against RE 2013-14 of Rs.9.00 crore.



SI.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2013-14	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.03.2014	Remarks/ Rish Factor
1	2	3	4	5	6	7	8
						19 tender documents which covers the works have commenced on some of the dams. 4. Project Screening Templates in respect of 32 dams have been prepared by the Project authorities and are at different stages of approval process. 5. Six trainings have been conducted, wherein about 240 officials have been	
				Dam Safety Institutional Strengthening of CWC		trained on different aspects of DRIP implementation. 6. Some more States/Organizations such as Karanataka, Punjab, Uttar Pradesh, Uttarakhand Jal Vidyut Nigam Limited, Damodar Valley Corporation and Farakka Board are expected to join DRIP shortly, and their cost allocations have been finalized in consultation with the Bank. 7. Three meetings of Technical Committee for DRIP have been held for guiding and expediting the pace of project implementation. World Bank has also completed two of its Review Missions, wherein road blocks as well as way forward in project implementation have been discussed.	
				Monitoring and Supervision of rehabilitation of DRIP dams in the participating states			
14	<b>Bodwad Parisar Sinchen Yojana of Maharashtra</b>	one time grant to State Government of Maharashtra.	0.00	Grants will be released to State Governments as per their demands. Quantifiable outputs are: (i) Area covered, (ii) Central assistance	New scheme, no process / timelines has been set.	Progress depends on receipt of proposals in complete respect from the States.	Token supplementary grant of Rs.12.40 crore has been

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1	2	3	4	5	6	7	8
				released	New scheme, no process / timelines has been set.	Progress depends on receipt of proposals in complete respect from the States.	obtained during RE 2013-14 stage. No expenditure has been incurred.
		Total	1500.00				

**ACCELERATED IRRIGATION BENEFITS PROGRAMME & NATIONAL PROJECT**

The Accelerated Irrigation Benefits Programme (AIBP) was launched during 1996-97 to give loan assistance to the states to help them complete some of the incomplete major/medium irrigation projects which were in an advanced stage of completion and create additional irrigation potential in the country. The Surface Minor Irrigation Schemes of North-Eastern States, Hilly States of Sikkim, Uttaranchal, Jammu and Kashmir, Himachal Pradesh and Koraput, Bolangir and Kalahandi Districts of Orissa have also been provided Central Loan Assistance (CLA) under this programme since 1999-2000. Grant component has been introduced in the programme from April, 2004 like other Central sector schemes

The State Governments have been provided an amount of Rs.64905 crores CLA/Grant under AIBP since inception of this programme till 31.03.2014 for 294 major/medium irrigation projects and 16456 Surface minor irrigation schemes. So far, 142 major/medium and 12083 Surface MI Schemes have been completed. The irrigation potential of 80.552 lakh ha has been created upto March, 2012. Irrigation Potential after March, 2012 is yet to be received from states and under reconciliation.

Of the 65 major/medium projects initially included in the Prime Minister's relief package for agrarian distressed districts of Andhra Pradesh, Karnataka, Kerala and Maharashtra, so far 40 projects have been funded under AIBP. The grant released so far for these projects is Rs.6732.928 crore.

**Continuation of AIBP in 12<sup>th</sup> plan**

The Scheme AIBP has been approved for implementation in 12<sup>th</sup> plan by Cabinet Committee on Economic Affairs in its meeting held on 12.09.2013. During the 12<sup>th</sup> plan, a total outlay of Rs 55200 Cr is approved for Continuation of AIBP programme and for pari-passu implementation with AIBP a total out lay of Rs 15000 Cr for CAD&WM has been approved.

Considering the current progress and allocation of funds by the Planning Commission the following targets have been adopted.

<b>SI No</b>	<b>Activities</b>	<b>Revised Target (Lakh ha) as per MTA Document</b>
1	Creation of new irrigation potential (IP)through completion of ongoing MMI projects and new MMI projects and Restoration of lost irrigation potential through ERM of old MMI projects and	24
2	Creation of new irrigation potential (IP)through completion of new and ongoing surface Minor MI projects	10
3	Closing the gap of irrigation potential created and irrigation potential utilised	36

### **AIBP in 12<sup>th</sup> Plan Policy changes**

Some of the main policy changes include:

1. Pari-Passu implementation of AIBP & CAD & WM works.
2. New projects of General areas continue to get Central assistance of 25% of the cost. It may be enhanced upto 50% subject to the condition that States actually carry out water sector reforms and satisfy the “Reform Friendliness” benchmarks.
3. For new projects in Special areas of non Special Category States, the Central Assistance under AIBP will be 75 % of the project (work component) for eligible irrigation projects
4. Ongoing projects and Surface Minor Irrigation Schemes benefiting Special Category States (including MI Schemes of KBK region of Orissa may continue to be eligible for 90% Central Assistance.
5. For New projects in special States, the Central Assistance under AIBP will be 90% of the cost of the Project (work component) for eligible Irrigation projects.
6. For Surface Minor Irrigation (MI) Schemes (both new as well as ongoing) of special category States, individual Schemes have Culturable Command Area (CCA) of 10 ha and cluster of MI Schemes with in radius of 5 km having CCA of 20 ha.
7. For Non- special category states, the individual surface MI schemes having CCA of 20 hectare and cluster of MI schemes within radius of 5 km. having total CCA of 50 hectare benefitting Desert Prone Area Left Wing Extremists affected area will also be eligible for assistance under AIBP and central assistance @ 75% of the total cost of the project will be provided.
8. Advance stage of construction of the projects is specified.

## **NATIONAL PROJECTS**

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

- (i) International projects where usage of water in India is required by a treaty or where planning and early completion of the project is necessary in the interest of the country.
- (ii) Inter-State projects which are dragging on due to non-resolution of inter-State issues relating to sharing of costs, rehabilitation, aspects of power production etc., including river interlinking projects.
- (iii) Intra-state projects with additional potential of more than 2, 00,000 ha. and with no dispute regarding sharing of water and where hydrology is established.

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

Government of India has approved a scheme of National Projects with proposed outlay of Rs 8150 Cr under the ambit of AIBP with a view to expedite completion of identified National Projects for the benefit of people. Out of 16 projects selected in the scheme of National Projects, 4 projects namely, Gosikhurd Irrigation Project (Maharashtra), Teesta Barrage Project (West Bengal), ShahpurKandi Project (Punjab) and SaryuNaharPariyojana (Uttar Pradesh) are under execution. Lakhwar Multipurpose Project has been accepted by the Advisory Committee of MoWR. Three projects namely Kishau Multipurpose Project, Renuka Project and Ken Betwa Link Project are under appraisal. Polavaram irrigation project which was under execution by State Government and was under AIBP funding has been recently included as National Project and will be implemented by the Central Government. Remaining 7 projects are at various stages of investigation / DPR preparation.

In case of minor irrigation schemes, the central assistance (grant) to the projects in the case of North-Eastern Region, hilly states(Himachal Pradesh, Jammu & Kashmir and Uttarakhand), Undivided Koraput, Bolangir and Kalahandi (KBK) Districts of Orissa and projects benefitting tribal areas and drought prone areas, DDP and naxal affected areas in non- special category states. The central assistance is provided in the form of grant which is 90% and 75% of the total cost of the project in special category states and non-special category states respectively.

**Present details & Achievements of ongoing National Projects (N.P.)**

Sl. No.	Name of the Project	State	Total estimate d Cost of the Project (Rs. in Crore)	Total Potenti al (In Lakh ha.)	Cumulati ve potential created (in Lakh ha)	Total Expendit ure on Project (Rs. in Crore)	Central Assistance released under National Project (Rs. In Crore)	Schedul e period of Starting/ completi on of Project
1	Gosikhurd	Mahar ashtra	7777.85	2.51	0.377 (0.180 under N.P. upto 03/2014)	7215.25 (up to 03/2014) (4308.34 under N.P.)	2987.94	1983/ March, 2013 (propose d to extend upto March, 2015)
2	ShahpurK andi	Punjab	2285.81	0.37	-	299.34 (up to 03/2013)	26.036	May 1999/ October 2016
3	Teesta Barrage	West Bengal	2988.61	5.27	1.97 (up to 08/2013, 0.4397 under N.P.)	1446.29 (up to 06/2013) (162.06 under N.P.)	178.20	1975-76/ March, 2015
4	SaryuNah arPariyojna	Uttar Prade sh	7270.32	14.04 ( target under Nationa l Project is 4.37 lakh ha)	9.364 (0.069 in 2012-13)	2932.73 (up to 03/2013) (Rs. 88.04 crore under National Project)	448.73	1976/ March, 2016

## CAD&WM

The Centrally Sponsored Command Area Development (CAD) programme was launched in 1974-75 for development of adequate delivery system of irrigation water up to farmers' field with an objective to enhance water use efficiency and production and productivity of crops per unit of land and water for improving socio-economic condition of farmers. The Programme was restructured and renamed as Command Area Development and Water Management (CAD&WM) Programme w.e.f. 1-4-2004. The scheme has been implemented as a State Sector Scheme from 2008-09 onwards and is being implemented pari-passu with Accelerated Irrigation Benefits Programme (AIBP) during the XII Five Year Plan. At least 10% of the total culturable command area (CCA) of each new project is to be covered under micro-irrigation during XII Plan.

The funding pattern for all the programme components is on 50:50 sharing basis between Centre and State for all the components except for State sponsored software components such as training of farmers and field functionaries and officials, adaptive trials and demonstrations, monitoring & evaluation of the programme, etc. and one time financial assistance to Water and Land Management Institutes/Irrigation Management and Training Institute (WALMIs/IMTIs) for strengthening & up gradation of infrastructure and infrastructure grant to WUAs for which the funding pattern is 75:25 basis between the Centre and States. There is also a provision of one time functional grants at the rate of Rs. 1200/- per hectare (45:45:10 as Centre: State: Farmers) to the registered Water Users' Associations. The interest accrued from this fund is utilized to upgrade the irrigation system and infrastructure developed under this programme.

The core components of physical works are construction of field channels. Since its inception in 1974-75 upto December, 2013, CCA of about 20.7 Mha has been covered including CCA of about 0.58 Mha (tentative) covered from 2012-13 upto December, 2013.

Central Assistance of about Rs.5753/- crore has been released to States under the CAD Programme since its inception in 1974-75 upto March, 2014, including an amount of about Rs.545/- crore released during two years from 2012-13 to 2013-14 of XII Plan.

The outlay for the XII Five Year Plan is Rs.15000/- crore and physical target is 7.6 Mha. Keeping in mind the physical and financial progress during the initial two years, the total physical and financial target for the XII Plan has been revised in the midterm appraisal of the Planning Commission as coverage of CCA of 3.6Mha and Rs.7545/- crore as Central Assistance.

## **Repair, Renovation & Restoration (RRR) of Water Bodies for continuation in XII Plan**

During the X Plan, the Pilot Scheme namely Repair, Renovation & Restoration (RRR) of Water bodies directly linked to Agriculture was launched in January, 2005 with an outlay of Rs. 300 crore with 75% central assistance by Government of India and 25% by State Government. 1098 water bodies were taken up under the Pilot Scheme. The work was completed in 1085 water bodies and work has been dropped in 13 water bodies. An irrigation potential of 0.78 lakh hectare was restored.

Based on success of the Pilot Scheme, two schemes of RRR, one with domestic support with an outlay of Rs. 1250 crore and other with external assistance with an outlay of Rs. 1500 crore were launched during XI Plan. Under the scheme of domestic support, a total of 3341 water bodies were taken up for restoration in 12 states out of which 2033 water bodies have been completed upto March, 2014. A total central grant amounting to Rs. 890.259 crore was released to the states for completion of works on these water bodies. An irrigation potential of about 88 th. Ha. has been restored. Under the scheme of external assistance, 10887 water bodies were taken up for restoration in the states of Andhra Pradesh (3000), Karnataka (1224), Orissa (900) and Tamil Nadu (5763).

The scheme for continuation for Repair, Renovation & Restoration of Water Bodies for XII Plan was approved by the union Government on 20.9.2013 and guidelines were issued in October, 2013. It is envisaged to provide central assistance for restoration of about 10,000 water bodies with an ear marked outlay of Rs. 6235 crore for the scheme. An irrigation potential of 6.235 lakh hectare will be restored. Out of 10000 water bodies, 9000 water bodies in rural areas and balance 1000 water bodies in urban areas would be covered. The proposal of water bodies where the Integrated Water Management Programme (IWMP) is implemented would be considered for inclusion under the scheme of RRR of water bodies. The central assistance is provided in the form of grant which is 90% of the project cost only in special category states (NE states, Himachal Pradesh, J&K, Uttarakhand and undivided KBK districts of Odisha) as well as projects lying in drought prone area, tribal area, desert prone area and naxal affected areas and 25% of the project cost in case of non-special category states/areas.



## **Flood Management Programme (FMP)**

**Flood Management Programme (FMP) During XI Plan** - During XI Plan the Government of India launched a “Flood Management Programme” a State Sector scheme under Central Plan for providing central assistance to the extent of Rs. 8000 crore to the State Governments for undertaking works related to river management, flood control, anti-erosion, anti-sea-erosion, drainage development, flood proofing, flood prone area development, restoration of damaged flood management works etc.

During XI Plan, a total of 420 flood management /anti-sea erosion works with a total cost of Rs. 9435.45 crore ( with XI Plan component of Rs. 7739.69 crore ) of critical nature from 24 States were approved under the Programme. Out of these, 252 works were completed and the central assistance amounting to Rs. 3566.00 crore was released to States (including Rs. 89.79 crore for spilled over works of X Plan) upto 31.3.2012.

By completing these 252 works, new flood prone area of 0.26 mha was protected against the floods besides restoration of the old flood prone area of 1.70 mha and these measures provided safety to about 19.73 million people during high flood situation. State-wise details of area protected/ restored and population benefited by completing 252 works.

**Flood Management Programme (FMP) During XII Plan** – In October, 2013 the Government of India approved continuation of Flood Management Programme during XII Plan with outlay of Rs. 10,000 crore. A total of 97 nos.of new projects having estimated cost of Rs. 4411.595 crore have been approved for funding under FMP during XII Plan. The central assistance of Rs. 572.85 crore was released under the Programme in the years 2012-13 and 2013-14 of XII Plan ( till 31.03.2014) towards ongoing and new works.

During 2014-15, a budget provision of Rs.900 crore under AIBFMP has been made by Planning Commission for FMP.

**Ministry of Water Resources, River Development & Ganga Rejuvenation**

**Statement of Outlay and Outcomes/Targets (2014-15)**

**(Rs. in Crores)**

S. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2014-15			Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk Factors
1	2	3	4			5	6	7	8
			(i)	(ii)	(iii)				
			Non-Plan Budget	Plan Budget	Complementary Extra-Budgetary Resources				
1.	Accelerated Irrigation Benefits Programme (AIBP)	To complete ongoing Major, Medium & Minor irrigation/multipurpose projects in advanced stage of construction and which are beyond the resource capability of State Government in a time bound manner with a view to (A) Create additional irrigation potential and (B) Derive envisage benefits from these projects.	0.0	Rs. 6265.22 Crores for Major, Medium and Minor Irrigation projects under AIBP and National Projects.	0.0	Irrigation Potential of 0.6 million hectares is targeted for creation. 5 Nos. of major/medium irrigation projects and 1000 MI schemes are targeted for completion.	Coverage of area for creation of irrigation potential	1 <sup>st</sup> April, 2014 to 31 <sup>st</sup> March, 2015. Progress monitored on quarterly basis.	The projects included in the AIBP are to be executed by respective State Govts. The time for completion of Major/Medium Irrigation Scheme is 5 years and MI schemes are 3 years including the year of inclusion under AIBP.

2.	CADWM Programme	Grant is released to State Governments under CADWM Programme	0.0	Rs. 1077 Crores	0.0	Grants released to State Governments as per their demands. Quantifiable outputs are: (i) Irrigation Potential of 0.5 million hectares is targeted for creation. (ii) Central assistance released.	Coverage of CCA for utilisation of irrigation potential created.	1 <sup>st</sup> April, 2014 to 31 <sup>st</sup> March, 2015. Progress monitored on quarterly basis.	Progress depends on receipt of proposals in complete respect from the States.
3.	RRR	Grant is released to State Governments under RRR Programme	0.0	Rs. 750 Crores	0.0	Grants released to State Governments as per their demands. Quantifiable outputs are: (i) Irrigation Potential of 1000 hectares is targeted for creation by completing RRR of 750 water bodies.. (ii) Central assistance released.	(i)Ground water Recharge, (ii) All round socio-economic development of people. (iii)Enhancement of availability of drinking water.	1 <sup>st</sup> April, 2014 to 31 <sup>st</sup> March, 2015. Progress monitored on quarterly basis.	Progress depends on receipt of proposals in complete respect from the States.
4	Flood Management Programme (FMP)	To provide financial assistance to various State Governments for works related to river management, flood control, anti-erosion, drainage development, flood proofing, restoration of damaged flood management works and anti-sea erosion in critical areas in the country, catchment area treatment and related DPRs.	0.0	Rs. 900 Crores	0.0	An area of about 0.108 million hectare is expected to be provided with reasonable degree of protection against floods.	The activity will help the States in reducing damages due to flood, river bank erosion, coastal erosion and reduction of sediment erosion in selected river catchments.	1 <sup>st</sup> April, 2014 to 31 <sup>st</sup> March, 2015. Progress monitored on quarterly basis.	Timely submission of proposals by States with all mandatory documents / clearances.
			Total	8992.22 crores					

**Statement showing details of Ministry of Water Resources budget vis-à-vis XI Plan outlay**

Annexure-IV/ Chapter-V

Sector/Orgn/ Scheme	XI Plan	Heads of	B.E.	Actual	B.E.	Actual	B.E.	Actual	B.E.	Actual	B.E.	Actual
	Outlay	Accounts	2007-08	2007-08	2008-09	2008-09	2009-10	2009-10	2010-11	2010-11	2011-12	2011-12
<b>Major &amp; Medium Irrigation</b>												
1. National Water Academy	15.00	2701	2.00	1.86	2.30	2.37	2.60	2.53	4.00	2.94	3.00	3.62
2. Research & Development Programme	260.00	2701	30.00	33.28	60.00	39.81	52.00	32.85	54.00	41.38	46.19	34.20
3. Hydrology Project	180.00	2701	33.00	6.98	44.00	9.92	38.10	21.54	53.00	27.22	80.00	27.65
4. Development of WRIS	200.00	2701	30.00	18.65	46.00	45.58	70.00	63.10	66.00	39.43	59.00	53.58
5. Infrastructure Development	**	2701	4.00	1.33	5.00	2.06	1.00	1.28	3.00	2.82	3.00	2.13
6. Investigation of Water Resources Development	260.00	2701	30.00	25.09	37.00	36.17	42.00	37.01	54.00	44.27	54.00	52.97
7. Information, Education and Communication	90.00	2701	2.00	1.32	13.00	9.08	12.00	10.85	15.00	13.30	25.00	14.32
8. Dam Safety Studies and Planning	10.00	2701	1.00	0.48	1.60	0.80	1.00	0.34	1.50	1.10	3.00	1.38
9. River Basin Organisation/Authority	50.00	2701	0.50	0.00	1.00	0.00	0.50	0.00	0.50	0.00	4.00	0.00
<b>Total: Major and Medium Irrigation</b>			<b>132.50</b>	<b>88.99</b>	<b>209.90</b>	<b>145.79</b>	<b>219.20</b>	<b>169.50</b>	<b>251.00</b>	<b>172.46</b>	<b>277.19</b>	<b>189.85</b>
<b>Minor Irrigation</b>												
<b>Surface Water Schemes</b>												
10. Ground Water Management and Regulation	460.00	2702	62.00	48.11	95.00	54.37	70.00	68.82	100.00	80.92	120.00	130.75
11. Rajiv Gandhi NGWT&RI	25.00	2702	1.50	0.60	2.10	0.64	2.00	1.78	6.00	3.19	3.00	3.65
12. Infrastructure Development	**	4702	4.55	1.27	7.00	2.07	4.50	2.15	10.50	6.86	11.40	6.97
<b>Total: Minor Irrigation</b>			<b>68.05</b>	<b>49.98</b>	<b>104.10</b>	<b>57.08</b>	<b>76.50</b>	<b>72.75</b>	<b>116.50</b>	<b>90.97</b>	<b>134.40</b>	<b>141.37</b>
13. Command Area Development Programme	\$\$	2705	300.00	277.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total: CAD &amp; WM</b>			<b>300.00</b>	<b>277.84</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Flood Control Sector</b>												
14. Flood Forecasting	130.00	2711	16.00	13.91	23.00	13.68	25.00	17.38	36.00	24.02	36.00	33.13
15. Infrastructure Development	**	4711	3.45	1.54	26.00	6.56	9.50	4.25	15.00	9.48	14.00	5.73
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	179.52	188.00	135.98
17. Pagladia Dam Project	500.00	2552	1.00	1.35	2.00	0.00	0.50	0.00	0.50	0.00	0.01	0.00
<b>Total: Flood Control Sector</b>			<b>66.45</b>	<b>68.24</b>	<b>211.00</b>	<b>196.33</b>	<b>234.30</b>	<b>181.09</b>	<b>250.50</b>	<b>213.02</b>	<b>238.01</b>	<b>174.84</b>
<b>Transport Sector</b>												
18. Farakka Barrage Project	350.00	5075	33.00	30.99	75.00	54.03	70.00	68.95	82.00	44.02	70.40	69.46
<b>** Total allocation for XI Plan</b>	<b>115.00</b>											

\$\$ Scheme has been transferred to State Sector w.e.f. 2008-09

<b>Grant Total</b>	<b>3246.00</b>		<b>600.00</b>	<b>516.04</b>	<b>600.00</b>	<b>453.23</b>	<b>600.00</b>	<b>492.29</b>	<b>700.00</b>	<b>520.47</b>	<b>720.00</b>	<b>575.52</b>
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**Statement showing details of Ministry of Water Resources budget vis-à-vis XII Plan outlay**

**Annexure-V/ Chapter-V**

Sector / Orgn / Scheme	XII Plan	Heads of	B.E.	R.E.	Actual	B.E.	R.E.	Actual	B.E.
	Outlay	Accounts	2012-13	2012-13	2012-13	2013-14	2013-14	2013-14	2014-15
<b>Central Sector Schemes</b>									
<b>I. Medium Irrigation</b>									
1. Research & Development Programme	360.00	<b>2701</b>	100.00	35.00	31.37	50.00	35.00	31.36	50.00
2. Development of Water Resources Information System	##	<b>2701</b>	84.99	40.00	38.30	149.98	43.00	42.65	225.38
3. Infrastructure Development	\$\$	<b>2701</b>	3.20	1.50	1.41	2.55	1.30	1.07	2.90
4. Hydrology Project	120.00	<b>2701</b>	70.00	43.72	37.9	70.00	50.00	40.73	31.38
5. Human Resource Development/Capacity Building	**	<b>2701</b>	85.00	29.90	11.09	85.00	24.50	20.48	43.00
6. River Basin Management	&&	<b>2701</b>	110.00	57.40	58.67	100.00	65.00	64.87	107.00
7. Implementation of National Water Mission	1390.00	<b>2701</b>	200.00	0.25	0.00	110.00	2.00	0.71	40.00
8. Irrigation Management Programme	6000.00	<b>2701</b>	100.00	0.75	0.24	40.00	0.10	0.00	1.00
9. Dam Rehabilitation and Improvement Programme (DRIP)	120.00	<b>2701</b>	24.00	2.30	0.43	36.00	9.00	4.60	30.00
10. Bodwad Parisar Sinhan Yojana		<b>2701</b>	0.00	0.00	0.00	0.00	12.40	0.00	200.00
11. Impact Study Assessment of Project (AIBFMP)		<b>2701</b>	0.00	0.00	0.00	0.00	0.00	0.00	50.00
12. Polavaram Project Authority (new scheme from 2014-15)		<b>2701</b>	0.00	0.00	0.00	0.00	0.00	0.00	250.00
13. DPR for interlinking of Rivers		<b>2701</b>	0.00	0.00	0.00	0.00	0.00	0.00	100.00
<b>Total: Medium Irrigation</b>			<b>777.19</b>	<b>210.82</b>	<b>179.41</b>	<b>643.53</b>	<b>242.30</b>	<b>206.47</b>	<b>1130.66</b>
<b>II. Minor Irrigation</b>									
<b>Surface Water Schemes</b>									
14. Ground Water Management and Regulation	3539.00	<b>2702</b>	318.00	180.00	118.28	275.00	140.00	80.40	325.00
15. Human Resource Development/Capacity Building	**	<b>2702</b>	15.00	9.00	6.09	9.00	7.00	5.11	7.00
16. Infrastructure Development	\$\$	<b>4702</b>	39.80	6.93	3.45	28.00	7.70	3.43	48.60
17. Development of Water Resources Information System	##	<b>2702</b>	0.01	0.00	0.00	0.02	0.00	0.00	0.02

<b>Total: Minor Irrigation</b>			<b>372.81</b>	<b>195.93</b>	<b>127.82</b>	<b>312.02</b>	<b>154.70</b>	<b>88.94</b>	<b>380.62</b>
<b>III. Flood Control Sector</b>									
18. Flood Forecasting	794.00	<b>2711</b>	48.00	30.00	25.21	150.00	25.00	24.67	100.00
19. Infrastructure Development	<b>\$\$</b>	<b>4711</b>	12.00	6.57	4.99	19.45	11.00	5.80	28.50
20. River Management Activities and works related to Border Rivers	763.00	<b>2711</b>	125.00	30.00	25.99	125.00	67.00	30.03	175.00
21. River Basin Management	<b>&amp;&amp;</b>	<b>2711</b>	90.00	76.68	76.00	100.00	85.00	85.00	143.00
<b>Total: Flood Control Sector</b>			<b>275.00</b>	<b>143.25</b>	<b>132.19</b>	<b>394.45</b>	<b>188.00</b>	<b>145.50</b>	<b>446.50</b>
<b>IV. Transport Sector</b>									
22. Farakka Barrage Project	558.00	<b>5075</b>	75.00	100.00	73.56	150.00	115.00	89.82	150.00
<b>V. Ecology and Environment (New Schemes 2014-15)</b>									
24. National River Conservation Plan		<b>3435</b>	0.00	0.00	0.00	0.00	0.00	0.00	537.00
25. National Ganga Plan (met from balance under NCEF)		<b>3435</b>	0.00	0.00	0.00	0.00	0.00	0.00	1500.00
		<b>3435</b>	0.00	0.00	0.00	0.00	0.00	0.00	-1500.00
26. Ghat works for beautification of River fronts		<b>3435</b>	0.00	0.00	0.00	0.00	0.00	0.00	100.00
27. Water Projects for NCT		<b>3435</b>	0.00	0.00	0.00	0.00	0.00	0.00	500.00
<b>Total: Ecological and Environment</b>			<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1137.00</b>
<b>VI. Centrally Sponsored Schemes</b>									
20. Accelerated Irrigation & Flood Management Programme		<b>3601 &amp; 2552</b>	0.00	0.00	0.00	0.00	0.00	0.00	8992.22
14. Pradhan Mantri Krishi Sinchai Yojana		<b>2552</b>	0.00	0.00	0.00	0.00	0.00	0.00	50.00
		<b>3601</b>	0.00	0.00	0.00	0.00	0.00	0.00	950.00
<b>Total: Centrally Sponsored Schemes</b>			<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>9992.22</b>
<b>Grant Total</b>	<b>18118.00</b>		<b>####</b>	<b>650.00</b>	<b>512.98</b>	<b>1500.00</b>	<b>700.00</b>	<b>530.73</b>	<b>13237.00</b>
<b>##</b> Development of Water Resources Information System	2247.00								
<b>\$\$</b> Infrastructure Development	337.00								
<b>**</b> Human Resource Development/Capacity Building	610.00								
<b>&amp;&amp;</b> River Basin Management	1280.00								