



GOVERNMENT OF INDIA

OUTCOME BUDGET

2015 - 2016

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

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EXECUTIVE SUMMARY

The Outcome Budget 2015-16 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 2013-14 and financial year 2014-15 and the targeted performance during 2015-16. This has the following chapters covering different aspects of the Ministry:

Chapter	Aspect(s) covered
I	It gives brief introductory note on the functions of the Ministry, organizational setup, planning and policy framework and programmes / schemes being implemented by the Ministry. Briefly, the Ministry of Water Resources in the Government of India is responsible for laying down policy guidelines for overall development, conservation and management of water as a national resource, overall national perspective and coordination in this regard including coordination of diverse water uses. Under the Cabinet Minister, Minister of State, Secretary, the Ministry is organized under the administration wing, 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 2015-16 and Outcome Budget 2015-16. 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 2013-14 and financial year 2014-15.
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 6th April 2011, a Mission Secretariat has been set up. Presently it is functioning with Additional 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 (Amendment) 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
3. National Mission for Clean Ganga (NMCG)

PUBLIC SECTOR UNDERTAKINGS

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

1.4 The Ministry, during 2014-15, implemented and monitored 21 central sector and 2 centrally sponsored 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) was taken up with the objectives to extend and promote sustained and effective use of HIS by all potential users concerned with water resources planning and management, public and private, thereby contributing to improve productivity and cost effectiveness of water related investments in 13 States and 8 Central Agencies.

1.4.3. 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: The National Water Academy (NWA) set up by the Ministry of Water Resources is envisaged to function as 'Centre of Excellence' for capacity building in Water Sector. The mandate of NWA initially was to impart training to in-service engineers of various State and Central organizations involved in the Development and Management of Water Resources. Subsequently, the mandate of NWA was widened to also cater to the training needs of other stakeholder groups of water sector. Accordingly, since October 2010, the Academy's programs are also open to Public Sector Undertakings, Private Sectors, Academic Institutions, Media Personnel, NGOs, Foreign Nationals and Individuals, thus reaching out to almost every stakeholder.

The XII SFC Plan of NWA envisages further strengthening the institutional and infrastructural capabilities of NWA to meet the increasing training needs of all stakeholder groups in Water Sector and impart new methodologies and approaches to planning, development and management of Surface Water Resources based on the new emerging concepts. The strengthening of institutional and infrastructural capabilities is to be achieved by increasing the ambit of training programs to cover new emerging fields in the water sector, casting the net wider to include all stakeholders for the capacity development, collaborating with National / International organizations of reputed, faculty development program. The strengthening of infrastructural capabilities is to be achieved through development of various state-of-the-art facilities at NWA, increasing the manpower etc.

Being a premier institute, NWA conducts training programs on all aspects of water resources development and management. Initially, the NWA started with training in technology areas, but as of now have also expanded their range to include non technical topics like Socio, Economic and Environmental aspects of Water Resources Projects; Contractual and Financial Issues; Water related Law, and development of Soft Skills like

Management Development Programs etc. NWA is also mandated to form linkages with National and International Institutions in the field of science and technology and WRD&M as a part of the overall responsibility of capacity building assigned to NWA by the Ministry. NWA has started conducting tailor-made programs for various client organizations, and also participants from foreign countries including programs at the behest of MEA.

With a view to knowledge up gradation, CWC is arranging customized Training program for its officers through IIT and other institute like Indian Institute of public Administration etc.

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

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 :-

OBJECTIVES

- (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: Rajiv Gandhi National Ground Water Training and Research Institute (RGNGWT&RI) caters to the capacity building requirements of ground water professionals of Central Ground Water Board (CGWB) and other Central and State Govt. Organisations, Academic Institutes, NGOs, PRIs etc.

The Institute is part of Central Ground Water Board, which is a subordinate office of the Ministry of Water Resources, River Development & Ganga Rejuvenation. Chairman, CGWB is the overall head of the Institute. The Institute works under the technical and administrative supervision of Member (RGI). The Institute has a sanctioned strength of 37 persons including 3 Regional Directors and 19 core faculty members.

RGNGWT&RI plan scheme was first adopted during IXth five year plan and is running continuously since 1997. Till IXth Plan, it was an independent plan scheme,

whereas in XIIth plan, RGNGWT&RI was made a component of the HRD & Capacity Building Scheme of MoWR, RD & GR. During XIIth plan, RGNGWT&RI is implementing a three tier training programme keeping in view the capacity building requirements of professionals of CGWB, different States and Central Government Agencies and other organizations in the field of Ground Water with a special emphasize on the requirements of the National Project on aquifer Management. These trainings are aimed at overall capacity building in ground water sector and creation of trained workforce for implementation of National Project on Aquifer Management for sustainable development of ground water resources.

d. Capacity Building Programme: The North Eastern Regional Institute of Water and Land Management (NERIWALM) is a premier Institute of North Eastern Region of India established on 23rd 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. 1st 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. NERIWALM also undertakes research projects and studies from time to time on issues and problems pertaining to water and land resource management in the NE region of the country.

e. Training of the Ministry of Water Resources, River Development & Ganga Rejuvenation 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 4th July 2012. In consonance with the National Training Policy, the Training Policy for MoWR, RD & GR 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. As part of developing the human resources, officials of the Ministry are sent on training in various institutes to enhance their capabilities and skills. During the year 2014-2015, 95 officers/officials of the Ministry were sent for training till December 2014.

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: 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 Water Transfer Links, 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, 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,

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, River Development & Ganga Rejuvenation and (iv) e-Governance of the Ministry of Water Resources, River Development & Ganga Rejuvenation.

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 & Central Ground Water Board 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: The XIIth Five Year Plan Document inter alia proposed 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.

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.

1.4.9. Dam Rehabilitation and Improvement Project (DRIP): As part of continuous strengthening of the dam safety activities in India, Dam Rehabilitation and Improvement Project (DRIP) has been taken up with World Bank assistance at an estimated cost of Rs. 2100.00 Crore. About 223 large dams in four states i.e. Madhya Pradesh, Orissa, Kerala and Tamil Nadu would be rehabilitated under this project. Few more States/Organisation have also been identified to join DRIP at a later stage, for which a provision of unallocated resources had been provided in the project estimate. The project development objectives of DRIP are to:

- ❖ Improve the safety and performance of selected existing dams and associated appurtenances in a sustainable manner, and
- ❖ Strengthen the dam safety institutional setup in participating States as well as at Central level.

The objectives of DRIP are to be achieved through investments for physical and technological dam improvements, managerial upgrading of dam operations, management and maintenance, with accompanying institutional reforms. Further, it is expected that the institutional development activities will lead to an improvement in the system-wide management approach to all dams in the participating states, over and above the focus on the selected dams covered by the project. The project will thus address dam system management in a holistic manner.

The project implementation agencies for DRIP are the Water Resources Departments (WRD) of the four participating States and State Electricity Boards of Tamil Nadu and Kerala. The overall implementation of the project is being coordinated by Central Water Commission with assistance of a management and engineering consulting firm. The State-wise numbers of dams covered under DRIP and the estimate of the project cost is summarized in the table below:

State	Total No of large dams	No of DRIP dams	Total Project Cost (Rs. Crore)
Kerala	54	31	279.98
Orissa	163	38	147.74
Madhya Pradesh	906	50	314.54
Tamil Nadu	108	104	745.49
CWC			132.00
Unallocated Resources			480.24
Total		223	2100.00

Out of the total project cost, 80% will be funded by the World Bank loan/credit, while 20% will be borne by respective State governments and Central Water Commission. Apart from structural and non-structural measures for rehabilitation and improvement of identified dams, the scope of project includes the development of

appropriate institutional mechanisms for safe operation and maintenance of all large dams in participating states. In addition, strengthening of the institutional setup for national level dam safety surveillance and guidance would be taken up in Central Water Commission. The project has become effective from 18th April, 2012 and will be implemented over a period of six-years.

Performance during FY 2014-15 (till December 2014)

Physical Progress

1. Design Flood Review of 50 DRIP dams.
2. Inspection of 22 dams by Dam Safety Review Panel (DSRP); inspection of 40 dams by Dam Safety Experts of Central Project Management Unit; and inspection of 10 dams by Quality and Construction Expert of CPMU.
3. Approval of Project Screening Template (on line of Detailed Project Report) for 40 dams.
4. Approval of tender documents for 9 dams; award of work for 6 dams.
5. Organizing total of 11 trainings on different aspects of dam safety, emergency action plan, procurement procedures, and allied areas benefitting about 300 officials.
6. Preparation of four draft guidelines, namely on “Emergency Action Plan”, “Dam Break Analysis of Dam”, “Guidelines for Earthquake Resistant Rehabilitation Design of Solid and Earth fill Dams” and “Hazard categorization of Large dams”.
7. Website on DRIP (<http://damsafety.in/>) for dissemination of information to general public; promoting cross learning of implementing agencies with sharing of all DRIP implementation related documents; capturing status of work flows; and uploading of final key documents along with capturing of meta data for analysis.
8. Implementation of Quality Management System for Central Dam Safety Organisation linked with ISO certification targeted by April 2015.
9. Karnataka included in DRIP as new State for rehabilitation of their 27 dams.

Financial Progress

Total fund utilization in DRIP upto December 2014 is amounting to Rs. 7.107 Crore.

1.4.10. Ground Water Management and Regulation: The activities of the Ground Water Management & Regulation Scheme are as follows-

- ❖ National Aquifer Mapping;
- ❖ Ground water exploration;
- ❖ Ground water resource assessment;
- ❖ Ground water regime monitoring;
- ❖ Artificial recharge & rainwater harvesting studies;
- ❖ Geophysical Studies;
- ❖ Hydro-chemical studies;
- ❖ Regulation of ground water development;

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. Issuing flood forecasts at existing 147 level forecast and 28 inflow forecast sites covering 20 river basins so as to minimise loss of life and property by assisting relief and rescue agencies with real time forecast information. Automation of the existing network

of forecast sites together with telemetry system for communication of real time data and other state of art equipments. Automation and telemetry system at 219 existing stations covering flood forecasting network of CWC.

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:

A. **Background:** Farakka Barrage Project, with headquarters at Farakka in West Bengal, was commissioned in the year 1975 for preservation and maintenance of Kolkata Port by improving the regime and navigability of the Bhagirath-Hoogly river system. The increased upland supply from Ganga at Farakka into Bhagirathi reduces salinity and ensures sweet water supply to Kolkata and surrounding

areas. The rail-cum-road bridge built across the river Ganga at Farakka establishes direct road and rail communication link to the North-Eastern States with rest of the country. The Bhagirathi/Hooghly river system, the Feeder Canal and the Navigation Lock at Farakka form part of the Haldia-Allahabad Inland Waterway (National Waterway No:1).

B. Set-up of Farakka Barrage Project: Farakka Barrage Project is headed by General Manager. It has three Circles and one Co-ordination Unit, each headed by a Superintending Engineer and ten Divisions each headed by an Executive Engineer. Except, Jangipur Barrage Division and its field units and Purchase Office at Kolkata, all remaining field formations of Farakka Barrage Project are stationed at Farakka. An organization chart showing field formations upto Sub-Division level is appended as Annex-I. Currently, total sanctioned and filled posts, including worked-charged staff, are 1451 and 605 respectively. In addition there are 264 Muster Roll Staff who are at par with regular work charged staff in all respects.

C. Project Components: The principal components of the Farakka Barrage Project are –

- A 2245 metre long Barrage across river Ganga, with 109 bays and a Head Regulator with 11 bays
- A 213 metre long Barrage across river Bhagirathi at Jangipur with 15 bays
- 38.38 km long Feeder Canal with carrying capacity of 1133 cumec (40,000 cusec)
- Navigation locks at Farakka and Jangipur
- Kalindri Lock Channels, Shelter Basins and other infrastructures
- Left Afflux Bundh of Farakka Barrage – 33.79 km in length, Right Afflux Bundh of Farakka Barrage – 7 km in length and afflux bundh of Jangipur Barrage – 16.31 km in length
- Two rail-cum-road bridges and two road bridges across the Feeder Canal
- A number of Regulators at different locations situated in Murshidabad and Malda Districts of West Bengal
- Bagmari Syphon at RD 48.00 of Feeder Canal and Jetties shelter basin at RD 62.532 of Feeder Canal

D. Benefits from Farakka Barrage Project:

- ✚ Increased upland supplies from Ganga at Farakka into Bhagirathi
 - Preservation and maintenance of the Kolkata Port.
 - Improvement in Navigation System in National Waterways No: 1, operating between Haldia and Allahabad.
 - Reduction in salinity in water and thus improvement in availability of potable water to Kolkata and surrounding areas
- ✚ Surface communication link to North-Eastern Region of India including Sikkim with rest of the country, including Bhutan and Nepal through Rail-cum-Road Bridge over Farakka Barrage
- ✚ Catering water need of 2100 MW thermal power station at Farakka of National Thermal Power Corporation

E. Anti-erosion and bank protection works:

Initially, Farakka Barrage Project had a jurisdiction of 18.4 km – 11.5 km upstream and 6.9 km downstream of Farakka Barrage Project – for undertaking anti-erosion and bank protection works. Subsequently, since the year 2005, there has been substantial increase in jurisdiction of Farakka Barrage Project for taking up anti-erosion and bank protection works. Farakka Barrage Project presently undertakes anti-erosion and bank protection works in the extended jurisdiction of 120 km (40 km upstream and 80 km downstream) of Farakka Barrage Project. With successful accomplishment of time specific anti-erosion and bank protection works in last many years in succession on river banks of Ganga/Padma/Bhagirathi and tributaries in North Bengal, Farakka Barrage Project has been able to protect lives of vulnerable inhabitants and livestock and also their valuable movable as well as immovable properties.

F. Major programmes / schemes undertaken by Farakka Barrage Project:

- Operation & Maintenance of Main Barrage
 - (a) 109 Gates on main Barrage
 - (b) 11 Gates on Head-Regulator
 - (c) 15 Gates of Jangipur Barrage
 - (d) Kalindri lock Gate / Regulator
 - (e) Protective measures of apron and river bed in u/s and d/s of Barrage
- Maintenance and protective measures of Feeder Canal (38.38 Km. in length), structures across Feeder Canal, Culverts, Inlets, Ferry Services, Inspection Road (both banks), Syphon, Buildings etc.
- Maintenance & protective measures of bank & bed of river Ganga in upstream of Farakka Barrage (upto 11.5 Km.) and in the d/s upto 6.9 Km. alongwith its allied structures like marginal bundh, afflux bundh, inspection road, regulator , navigation locks, culverts, guide bund etc
- Maintenance of Farakka Township, Khejuriaghat Township, Jangipur Barrage colony, colony at Kalindri lock including maintenance of all civil, mechanical and electrical structures.
- Operation & Maintenance of all equipments, vehicles and machineries
- Since the year 2005 the Farakka Barrage Project has been entrusted with additional responsibility of undertaking anti-erosion works in its extended jurisdiction along the river Ganga from 40 Km. upstream of Barrage to 80 Km downstream and on tributaries of river Ganga in North Bengal.

G. Main functions-

- a. Operation and maintenance of Farakka Barrage, Jangipur Barrage, Feeder Canal, (including Bagmari siphon), Navigation Locks
- b. Facilitating implementation of agreement on sharing of Ganga water between India and Bangladesh
- c. Undertaking anti-erosion and bank protection works in enhanced jurisdiction 40 Km upstream and 80 Km downstream of Farakka Barrage

NEW SCHEMES INCORPORATED IN 2014-15

1.4.15. **Impact Assessment Studies of AIBFMP Projects :** An amount of Rs.5.00 crore has been allocated in the budget of Ministry of Water Resources under Central Sector Schemes during 2015-16 to conduct Impact Assessment Studies of AIBFMP Projects.

1.4.16. **Polavaram Project Authority:** The Union Cabinet in its meeting held on 1st 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 during 2014-15. Budget outlay of Rs. 100 crore for the year 2015-16 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 (Namami Gange): Learning lessons from the past, the Government revamped the river conservation strategy to promote a holistic and integrated river basin approach. The Central Government has set up the 'National Ganga River Basin Authority' (NGRBA) on 20.2.2009 as a collaborative institution of central and state governments under the Environment Protection Act of 1986. National Mission for Clean Ganga (NMCG), a registered society was set up in 12th August, 2011 as an implementation arm of the Authority. Each of the five states has also constituted a State Ganga River Conservation Authority (SGRCA), and established State Programme Management Groups (SPMGs) to coordinate and implement the NGRBA Program at the state level.

The Union budget 2014-15 has announced the Integrated Ganga Conservation Mission – 'Namami Gange' in June, 2014. The new initiatives under "Namami Gange" approaches Ganga Rejuvenation by consolidating the existing ongoing efforts and planning for integrated and comprehensive action plan. Incorporating the existing projects under the NGRBA, the Ganga rejuvenation plan provides for 'Short-term' (3 years), 'Medium-term' (5 years) and 'Long-term' (10 years and more) action plan. The projects and activities under this plan include pollution abatement measures for different sources of pollution, river front development, Afforestation and conservation of aquatic life, Communication and public outreach, water quality monitoring etc. and enforcement of standards and other policy initiatives for ensuring Aviral and Nirmal Ganga. The Expenditure Finance Committee (EFC) has approved the proposal under Namami Gange for an indicative cost of Rs. 20,000 Crore, and draft Cabinet note for the same is under process for approval.

The works under NGRBA Programme include laying of sewerage system, sewage treatment plants, solid waste management, common effluent treatment plant for controlling industrial pollution, river front management, crematoria etc. So far, 74 schemes in 49 towns in five Ganga States, 5 institutional development projects and 1 one implementation support project including Automatic Water Quality Monitoring and Ganga Knowledge Center have been sanctioned. Treatment capacity of 702.23 mld (including 64 mld for rehabilitation of old STPs) shall be created on implementation of these projects, of which a treatment capacity of 123 mld has been created so far. During 2015-16, sewage treatment capacity of 126.5 mld has been targeted under NGRBA.

Timeline for completion of projects under NGRBA including the projects proposed under 'Namami Gange' has been indicated for the year 2020 to abate pollution of river Ganga, particularly through the interventions to be made under short and medium term action plans. However, the interventions under long term action plan shall be based on the Ganga River Basin Management Plan of the IIT Consortium, 1st draft of which has been received on 31st January, 2015 and presently under examination in the ministry.

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. The Budget provision for this scheme is Rs. 1000 Crore during the FY 2015-16.

ii. **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 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. The Budget provision for this scheme is Rs. 1000 Crore during the FY 2015-16.

CHAPTER - II							
STATEMENT OF OUTLAYS & OUTCOME /TARGETS ANNUAL PLAN 2015-16							
Sl.No.	Name of scheme /programme	Objective/Outcome	Annual Plan (2015-16)	Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Process/Timelines	(Rs. in Crore) Remarks/Risk factors
1	2	3	4	5	6	7	8
CENTRAL SECTOR SCHEMES							
1	Development of Water Resources Information System (DWRIS)		81.00				
a	Hydrological Observations and Monitoring System						
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		Observation of data at 878 sites 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.	Works are of continuing nature and to be continued on routine basis. River Flow data for 878 hydro-meteorological stations for use in water resource management. Creation of database of hydro-meteorological data throughout the country for common rivers with neighbouring countries and with the States of desired quality and frequency for use in planning and development of water resources	Data/ periodical observation of hydro-meteorological, snow observation, Water quality parameters as per established procedures and protocol to continue through out the year.	
a(ii)	Collection of Storage data on the major reservoirs in the country	Collect reservoir storage status on real time basis of 120 reservoirs whose live storage is proposed to be monitored by CWC		Installation of water level automated sensors and telemetry system on 87 reservoirs	Real time status of major reservoirs in country	The activities to continue throughout the year as part of program to be completed in 12th Plan period.	
a(iii)	Developing Coastal Management Information System (CMIS)	Operational Coastal Management Information System to help in determining causes of erosion/ sediment transportation /defining sediment cell/sediment budgeting etc along maritime coastline to enable planning of coastal protection schemes 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.		Opening of two site and data collection Organizing meeting of CPDAC and its sub-committees. Strengthening of Beach Erosion Directorate	Coastal data for two sites for use in project planning.	Activities to continue throughout the year	

Sl.No.	Name of scheme /programme	Objective/Outcome	Annual Plan (2015-16)	Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Process/Timelines	Remarks/Risk factors
1	2	3	4	5	6	7	8
b	Irrigation Census		0.00				
b(i)	Rationalization of Minor Irrigation Statistics (RIMS)	Conduct of 5th Minor Irrigation Census in the country using traditional methodology.		1.Release of 40% (Second Instalment) of Census funds to States after completion of field work by States/UTs and receipt of Utilisation Certificates for first instalment from States/UTs. 2.Training to States/UTs for data entry/validation using software developed by NIC. 3.Data entry/ validation by States/UTs. 4.Receipt of Census data & Scrutiny of Census data at Central level	1.Completion of field work (including inspection & scrutiny)of Minor Irrigation Census by States/ UTs. 2.Organisation of Data processng Workshop for the States/UTs at Central level.	Various phases of 5th Minor Irrigation Census (i.e.Field work, data entry, validation) will continue in different stages in States/UTs during the year.	1)Release of funds will depend on timely submission of UC for 1st instalment, adequate budget provision and timely completion of field work by States/UTs. 2)Timely development of software by NIC. 3)Timely completion of data entry/validation by State/UTs and submission of data to the Ministry 4) Release of 3rd instalment will depend on receipt of UC for 2nd instalment & validated data from States/UTs.
b(ii)	Census of Major and Medium Irrigation Projects	Collection of census data (Phase-II) at outlet level of 8 projects covered in the Phase-I through outsourcing		Data at the outlet level to be collected through outsourcing during Phase-II in respect of 8 projets covered in Phase-I	The compiled data of Phase-II of Pilot Census will be integrated in INDIA WRIS portal	Will be decided at the time of award of work	Phase-II will be taken up only after successful completion of Phase-I of Pilot Census.
c	Water Quality Assessment Authority and Monitoring System	To provide Secretarial assistance to WQAA		Uniform Protocol on Water Quality Monitoring	Uniform Protocol on Water Quality Monitoring	Continuing Activity	
d	Strengthening of Monitoring Unit in CWC	Monitoring of major and medium irrigation and multipurpose projects so that they are completed as per scheduled timelines To develop information system of the water resources projects and related subject at the national level Evaluation of IP creation using remote sensing techniques		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 satellite imagery and potential assessment study in future similar to NRSC.	General/ AIBP Monitoring of Major/Medium/ERM Projects 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 Training by NRSC for CWC fficers 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.	The activities are continuing during the Plan period.	

Sl.No.	Name of scheme /programme	Objective/Outcome	Annual Plan (2015-16)	Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Process/Timelines	Remarks/Risk factors
1	2	3	4	5	6	7	8
e	Data Bank and Information System						
(i)	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 Reassessment of basin wise water availability for planning of national water resources		(i) Upgradation aand refinement of INDIA WRIS portal (ii) The work of Reassessment of Water Availability of 19 Nos. of basins in the country	'Single Window' source of updated data on water resources & allied themes; and provide value added products and services to all stake holders	The activities are continuing during the Plan period.	The studies for basin wise reassessment of Water availability" can be taken up after approvals of government.
(ii)	Up-gradation and Modernization of Library Information Bureau in CWC	Enhancement of CWC professional knowledge base by providing them with best of literature on the subject by upgrading the facilities in library and modernisation of library information system		Up-gradation & Modernization CWC Library & Information Bureau	up-gradation as well as enhancement of the knowledge of CWC officials in the field of water related sector	The activities are continuing during the Plan period.	
(iii)	Software Management in CWC	Enhancing e-governance capabilities with web based custom-made softwares in CWC. Up-grade and strengthen the hardware/ software/ network resources for CWC-HQ and field offices		Up-grade and strengthen the hardware / software / network resources for CWC-HQ and filed offices	Enhance e-governance capabilities with web based custom-made softwares. Up-grade and strengthen the hardware/ software/ network resources for CWC-HQ and field offices	Continuing process	
2	Flood Forecasting	1) Issuing flood forecasts at existing 147 level forecast and 28 inflow forecast sites covering 20 river basins so as to minimise loss of life and property by assisting relief and rescue agencies with real time forecast information. 2) Automation of the existing network of forecast sites together with telemetry system for communication of real time data and other state of art equipments. 3) Automation and telemetry system at 219 existing stations covering flood forecasting network of CWC.	50.00	1) Collection of real time data, compilation and formulation of flood and inflow forecast and its dissemination to user agencies to continue. 2) Automation of existing flood forecast sites together wth telemetry system for communication of real time data and other state of art equipments.	Flood Forecasts will be issued by CWC which helps in State authorities in undertaking flood mitigation works and save lives and property	Works will be continued throughout the year as a part of programme to be completed during 12th Plan	Approval of EFC proposal by the government towards modernisation of CWC flood forecasting activities and expansion of flood forecasting network, inundation forecasting and collaboration with best-in-field practising global agencies.
3	Hydrology Project III	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.	10.00	As the scheme is new, no further project details are available.			

SI.No.	Name of scheme /programme	Objective/Outcome	Annual Plan (2015-16)	Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Process/Timelines	Remarks/Risk factors
1	2	3	4	5	6	7	8
4	Ground Water Management And Regulation	Aquifer Mapping - Data Generation	163.00		Precise Aquifer maps for aquifer wise GW management.	One year	
		Preparation of Geological Map		1.95 lakh sq km	Precise Aquifer maps for aquifer wise GW management.	1.4.2015 to 31.3.2016	
		Micro level Sub-surface Hydrogeological data from existing wells(Nos)		55096 nos			
		Preparation of Aquifer Map		81000 sq km			
		Vertical Electrical Sounding (VES) Nos		8816 nos	Interpolation of subsurface aquifer geometry		
		Borehole Logging(Nos)		1555 nos			
		2-D Imaging (Line km)		173 line km			
		Ground TEM (Transient Electro Magnetic) surveys (Nos.)		93 nos			
		Carbon dating (Nos)		487 nos	For determination of age of ground water in various aquifer		
		Isotopic Studies (Nos)		5576 nos	For determination of ground water environment, recharge-discharge area etc.		
		Soil Infiltration studies(Nos)		11068 nos	For determination of infiltration characteristics of soil		
		Water Level Monitoring(No of stations* frequency (Nos)		137524 nos	Depiction of ground water regime and longterm trends of the country will be produced.		
		Exploratory Drilling(No of wells)		3733 nos	Subsurface aquifer disposition and their hydraulic parameters		
		Slug Test (Nos)		2052 nos	Aquifer Parameters		
		Specific Yield test (Nos)		1761 nos	Specific yield of unconfined aquifers		
		Analysis of Groundwater for major anion & cat ions, heavy metals & general parameters, industrial pollutions studies etc. (Nos)		29608 nos	Ground water quality of aquifers will be determined for potable and other uses.		
		Monitoring a hydrograph networks stations		4293 nos			
		a. Monitoring a hydrograph networks stations for water level and water quality(nos)		Monitoring 34000 wells 4 times in a year	Depiction of ground water regime and longterm trends of the country will be produced.		
		b. Establishment of additional wells (nos)		8000 nos			
		Water Quality Sampling Analysis (nos)		20000 nos samples	Ground water quality of aquifers will be determined for potable and other uses.		
		Technical assistance to organisations for water supply source investigations(nos)		need based	Assistance to concerned organizations for tapping more ground water for their water supply requirement.		
		Procurement of Machinery and equipment		Procurement of Rigs and scientific instruments	For making in-house arrangement to generate improved and accurate data acquisition facility		
		Participatory Ground Water Management		Ground Water Management Programme facilitation and Participatory Outreach programmes for Delivery to the End Users	To facilitate the stakeholders at grass root level with the outcome of ground water management		

Sl.No.	Name of scheme /programme	Objective/Outcome	Annual Plan (2015-16)	Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Process/Timelines	Remarks/Risk factors
1	2	3	4	5	6	7	8
		Regulation of Ground Water development by Central Ground Water Authority		Regulation of ground water in notified areas.	Regulation of ground water development and management in the country will result in arresting the trend of depletion.		
		Awareness for ground water conservation & rainwater harvesting etc – Nos(Need Based)		need based	For creating awareness regarding conservation of rainwater for sustainable management of water resources		
		Organizing National Ground Water Congress, Workshops, Seminars etc Nos(Need Based)		need based	For sharing of views, knowledge and ideas in matter of ground water development and management		
		Ground Water Resources Assessment		Dynamic Ground Water Resources Assessment (as on 31st March 2013)	For assessment of ground water resources for better management		
		Preparation of Reports, Maps for dissemination of Scientific information			compilation of works and data generated for utilization by stakeholders.		
		a. State Report		6 nos			
		b. District Brochures		125 nos			
		c. Ground Water Year Books		23 nos			
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.	30.00	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.	Research/Technical reports - 233 Research papers - 242 Training and workshop - 40	The work is to be implemented by Apex/ Research Organisations of the Ministry.	
6	HRD / Capacity Building		29.00				
(a)	Information, Education and Communication.	To generate awareness amongst the masses about the importance of water and need for its conservation.	10.00	ii. Organization of Painting Competition at Schools/ States and National level in the country. iii. Awareness on water conservation through Doordarshan, All India Radio and Private T.V. & Radio Channels . iv. Short films & documentaries to generate awareness among masses. v. Mass awareness programmes / workshops through CGWB and CWC. vi. Publicity through print media/ traditional media, printing and distribution of banners, posters etc. vii. Outdoor Publicity through Display of backlit transites at selected sites/ Erection of hoardings. Display on Metro trains /trains /buses. viii. Participation in Exhibition at prominent places like India International Trade Fair, Indian Science Congress etc. ix. Celebration of India Water Week. x. Mass awareness activities in Tribal areas under the Tribal Sub Plan. xi. Preparation of Media-Plan, Developing themes, slogans, logos and creatives etc.	Publicity and awareness about water resources sector with emphasis on water conservation and management.	Activities will be conducted throughout the year as per Annual Action Plan.	
(b)	National Water Academy		6.00				

Sl.No.	Name of scheme /programme	Objective/Outcome	Annual Plan (2015-16)	Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Process/Timelines	Remarks/Risk factors
1	2	3	4	5	6	7	8
	(i) NWA Component:	Training in all aspects of WRD&M for all Stakeholders of water Sector including induction Training Programme.		a) 32 Nos. of Training Programmes	a) 32 Nos. of Training Programmes to be completed by March-16	a) Training Prgoram will be spread over the whole year and will be conducted in accordance with the approved Training Calendar	
		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) Computer hardware & Software. Software for Construction Management, Simulation & Modelling, RS-GIS Library Software, DL learning. Upgradation of existing Computer Hardware, Software, Laptop, Wi-Fi facility, Website development, providing High bandwidth internet connection. Furnishing of Multipurpose hall, purchase of Gymnasium equipment, TT Table, Badminton Court, Carrom and recreational amenities . Expansion of Centre for instrumentation.	c) Computer hardware & Software. Software for Construction Management, Simulation & Modelling, RS-GIS Library Software, DL learning. Upgradation of existing Computer Hardware, Software, Laptop, Wi-Fi facility, Website development, providing High bandwidth internet connection. Furnishing of Multipurpose hall, purchase of Gymnasium equipment, TT Table, Badminton Court, Carrom and recreational amenities . Expansion of Centre for instrumentation.	c) to be completed by March,2016	
				d) Construction activities like Upgradation of the amenities in Guest House etc. Hydraulic elevator in the main building. Construction of 4 suits in Krishna & 8 in Godavari and Multipurpose Hall etc.	d) Construction activities like Upgradation of the amenities in Guest House etc. Hydraulic elevator in the main building. Construction of 4 suits in Krishna & 8 in Godavari and Multipurpose Hall etc.	d) to be completed by March,2016	
	(ii) CWC (HQ) Component	a) Training in all aspects including customized inhouse and abroad		13 no. of Training programs+ 125 officers in Training/Seminar/conferences etc.	13 no. of Training programs+ 125 officers in Training/Seminar/conferences etc.	Will be spread over the whole year	
		b) Residual work of Establishment of Computer room etc		1 No	1 No	To be completed by March, 2016	
		c) Membership fee for National/ international bodies for Gr A officers		50 Nos	50 Nos	To be completed by March, 2016	
		d)Purchase of necessary equipments/computers etc for CWC (HQ)/field offices		1 No	1 No	To be completed by March, 2016	
(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 350- Tier III (Block 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	Will be completed by March 2016.

Sl.No.	Name of scheme /programme	Objective/Outcome	Annual Plan (2015-16)	Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Process/Timelines	Remarks/Risk factors
1	2	3	4	5	6	7	8
(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.	1.00	(i) Organizing orientation training for officers/ officials who are newly posted. (ii) Deputing officers/ officials on induction training on selection/ recruitment in the Ministry. (iii) Deputing officers/ officials on mid-career training at various levels/stages in their career. (iv) Conducting in-house/ on the job training at workplace. (v) Deputing officials/ officers for thematic training like leadership development, stress management, ethics and values, finance administration, etc.	Human Resource Development through enhancement of domain knowledge with a view to improving efficiency in the tasks.	The training of the officers/ officials will be conducted round the year as per the Training policy of the Ministry	
(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	From 1-4-2014 to 31-12-2014 the Institute organised 42 training programmes and expected to organized 18-20 training programmes during the last quarter of the FY 2014-15 for farmers and functionaries, Water Users Associations etc.	During 2015-16 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 water and land resource management in the North Eastern Region	The funds are required to be released on quarterly basis	<ul style="list-style-type: none"> Lack of centres for regular interactions at the state level. Non arrival /reporting of adequate number of trainees in some of the courses.
7	Infrastructure Development		17.00				
	CGWB(IT)	1. Design & Development of Web based Applications for e-Governance activities. 2. Procurement of 200 PCs & Peripherals. 3. Networking in Regional Offices.		1. Design & Development of Web based Applications for e-Governance activities. 2. Procurement of 200 PCs & Peripherals. 3. Networking in Regional Offices	1. Design & Development of work flow application 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)	To procure land and construction of office/residential buildings for CGWB for providing decent, honorable better and healthy working condition to its staff.		Acquisition of Land and Construction of residential and office building for CGWB at various locations all over India. 1) Construction of building/ boundary walls at RGI, Raipur, Bhopal, Bhubaneswar , Guwahati, Ahmedabad, Ambala, Chennai, and Jodhpur	Divisional Office and Workshop at Guwahati, Bangalore have been completed and shifted in the newly constructed building and rest of the work in progress		
	CWC (Land & Building)	To procure land and construction of office/residential buildings for CWC for providing decent, honorable better and healthy working condition to its staff.		Acquisition of Land and Construction of non-residential building for CWC at various locations all over India. 2) Modernization of CWC HQ at New Delhi will continue. 3) Construction of hutments for CWC site locations. 4) Construction of building/ boundary walls and land acquisition (as required) at Kolkata, Nizamabad, Patna, Bhubaneswar, Balasore, Guwahati, Silchar, Itanagar	Constructions of CWC Office cum residential buildings at Kolkata, Guwahati, Patna, Burla, Balasore, Guwahati, and hutments of various site location along with land acquisition at these locations wherever required. 2.) Modernization of CWC (HQ) at Sewa Bhawan, WB-I&II Wherever applicable office/residential buildings at different locations along with modernization of CWC Hqs.	Majority of works are being implemented by CPWD/NPCC/CWC	

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1	2	3	4	5	6	7	8
	Infrastructure Development-e-Governance Scheme of 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		i) Implementation of various identified applications under the Roadmap on e-Governance project for the Ministry. ii) Implementation of e-Procurement solution in the Ministry	i) IT/e-Governance applications development in association. With NIC and procurement of Hardware etc. for enhancing IT/e-Governance capacity of the Ministry	As per NIC/concerned agency proposal	Part of 12th Plan – an ongoing scheme- This will provide the reference framework to be used by MoWR to implement e-Governance. It will facilitate promotion of transparent and responsive Government
	Infrastructure Development- IT, MoWR(Proper)	Purchase of computer consumables i.e. Cartridge, tonner etc., Running charges of multifunctional machines/copiers, repair and maintenance of various machines, computers, printers, scanners, laptops etc., Procurement of computers/printers/Scanners/copiers etc.		Procurement up gradation and maintenance of latest IT hardware and software besides networking of database to facilitate e-Gov. computer-33, Printers-15, Scanner-2, UPS off line-25, Digital multifunction-2, Laptop-5, Photocopiers-5	Change of XP window is a time consuming process, some of targeted have spilled over to next year	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 –Gov/e-office,	
	Infrastructure Land Building MoWR (Proper)	Renovation of various rooms of MoWR, S.S. Bhawan to next year.		Renovation of various rooms of MoWR, S.S. Bhawan to next year.	Renovation of canteen, Parking space, Shade at in and out gates S.S. Bhawan..		
8	River Basin Management		99.00				
i)	River Basin Organisation	--	0.10	--	--	--	Scheme under approval stage (not recommended by EFC).
ii) a	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.	25.00	(a) Survey & Investigations for preparation of Feasibility Report under Inter Basin Water Transfer Proposals 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 – Ghaghra link	Survey & Investigations and preparation of FRs, PFRs and DPRs in respect of Inter Basin Water Transfer link projects and intra-State link projects.		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 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. Permission is required from neighbouring countries such as Nepal & Bhutan for carrying out Survey & Investigations in their territories. NWDA through MOWR is pursuing the matter with MEA for expediting the dialogue with neighbouring countries. In view of this, the target date of completion for all the Himalayan links may not be fixed.

Sl.No.	Name of scheme /programme	Objective/Outcome	Annual Plan (2015-16)	Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Process/Timelines	Remarks/Risk factors
1	2	3	4	5	6	7	8
				(b) Preparations of DPR of Par-Tapi-Narmada (PTN) link. (c) Preparation of Prefeasibility Reports of intra – State link proposals, as proposed by State Govts. (d) Post – DPR stage work of: (i) Ken – Betwa link Phase-I. (ii) Ken – Betwa link Phase-II. (iii) Damanganga-Pinjal (DP) link. (iv) Par – Tapi - Narmada(PTN) link (e) Preparation of DPR of intra-State link	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. 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. (iv) Vamsdhara-Rushikulya link of Odisha	March, 2015 March, 2015 July, 2015 March, 2016 March, 2017 March, 2017	A DPR normally takes 3-4 years for completion.
ii) b	IWRD - CWC	Preparation of DPR of identified water resources projects for making investment decisions towards project implementation with a view of development of country's water resources.	20.00	Preparation of DPR of Kirthai-II Multipurpose Project and Suntaley HEP. Continuation of survey & investigation of Kalez Khola, Sonai & Rukni Irrigation Schemes, Tawanachu HE projects. New projects in NER (Tlawang in Mizoram), Sikkim (Tarum Chu HEP, Kali Khola), J&K, HP and funding of national project Gypsa to continue.	DPR of two projects will be completed and investigations and studies in respect of remaining will continue.	Activities to continue throughout the year as a part of programme to be completed during 12th Plan.	Timely clearances from Forest Deptt. for carrying out field works, cooperation from GSI in geological investigations and permission to procure field inspection vehicles for increasing mobility of CWC field officers and staff working at remote locations.
iii)	Re-Structuring of CWC	--	0.10	--	--	--	Scheme under approval stage (not recommended by EFC).

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1	2	3	4	5	6	7	8
iv)	Brahmaputra Board	<p>'Survey & Investigation' and Preparation of-</p> <ul style="list-style-type: none"> o Master Plan o DPRs for Drainage Development Schemes o DPRs for Multipurpose project <p>Execution of Anti-erosion schemes & Flood Management Schemes</p> <p>Execution of Drainage Development Schemes</p> <p>Execution of Anti-erosion schemes & Flood Management Schemes</p> <p>Execution of Drainage Development Schemes</p>	73.80	<p>'Survey & Investigation' and Preparation of-</p> <ul style="list-style-type: none"> o 3 Master Plans o DPRs of DDS o DPR of Simsang MP Project <p>Execution of Anti-erosion schemes & Flood Management Schemes</p> <p>Protection of Majuli Island-</p> <ul style="list-style-type: none"> □ Phase-II & III- 15% □ Phase -IV- 0.25% <p>Avulsion of Brahmaputra at Dhola Hatighuli- Phase- IV –Balance additional works</p> <p>Phase- V -25%</p> <p>Balat Village, Meghalaya- 50%</p> <p>Mankachar, Kalairalga, Assam- 50%</p> <p>Masalabari area, Assam- 50%</p> <p>Execution of Drainage Development Schemes</p> <ul style="list-style-type: none"> o 45% works of Barbhag DDS o 30% works of Amjur DDS o 50% of Jengrai 	<p>'Survey & Investigation' and Preparation of-</p> <ul style="list-style-type: none"> o 3 Master Plans o DPRs of DDS o DPR of Simsang MP Project <p>Execution of Anti-erosion schemes & Flood Management Schemes</p> <p>Protection of Majuli Island-</p> <ul style="list-style-type: none"> □ Phase-II & III- 15% □ Phase -IV- 25% <p>Avulsion of Brahmaputra at Dhola Hatighuli- Phase- IV –Completion of Balance additional works</p> <p>Phase- V -25%</p> <p>Balat Village, Meghalaya- 50%</p> <p>Mankachar, Kalairalga, Assam- 50%</p> <p>Masalabari area, Assam- 50%</p> <p>Execution of Drainage Development Schemes</p> <ul style="list-style-type: none"> o 45% works of Barbhag DDS o 30% works of Amjur DDS o 50% of Jengrai 	To be implemented by Brahmaputra Board	
		<p>Construction of raised platforms</p> <p>Feasibility studies of channalisation of river Brahmaputra</p> <p>Operation & maintenance and up-gradation of NEHARI</p> <p>Construction of H.Q. Complex and R&M of assets created by the Board</p>		<p>completion of construction of raised platforms</p> <p>Feasibility studies of channalisation of river Brahmaputra</p> <p>Operation & maintenance and up-gradation of NEHARI</p> <p>Construction of H.Q. Complex and R&M of assets created by the Board</p>	<p>completion of construction of raised platforms</p> <p>Feasibility studies of channalisation of river Brahmaputra</p> <p>Normal Operation and Maintenance – Continued</p> <p>Normal Running and Maintenance – Continued</p>		
9	River Management Activities And Works Related To Border Rivers & UTs	Hydrological observations and investigations of Water Resources Projects with neighboring countries for development of water resources and providing data for flood forecast formulation on transboundary rivers for minimising loss of life and property by making timely flood forecasts on these rivers.	102.00	<p>(i) Continuation of Joint Hydrological observations on river Ganga with Bangladesh, and</p> <p>(ii) Transmission of flood related data from/ to neighbouring countries</p> <p>(iii) Preparation of Joint Detailed Project Reports (DPR).</p>	Preparation of joint DPR with Nepal for Sapta Kosi Sun Kosi projects, 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	Timely clearances from Forest Deptt. for carrying out field works, cooperation from GSI in geological investigations and favourable civil condition in Nepal for carrying out field works.

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10	Farakka Barrage Project	<p>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 Waterway No.-1).</p> <p>(b) Contribution in improving socio-economic development of citizens of West Bengal by way of preservation of natural resources (Land, building, orchard) through anti-erosion of river bank & flood management work as well as contribution in development of North-East States by way of maintaining road & structures across the barrage</p> <p>2. Repair and maintenance of existing structure/ assets of FBP.</p>	100.00	<p>Anti- erosion works at different location along Ganga/Padma/ Bhagirathi, Filling of scour pocket at Feeder Canal just d/s of Bagmari Syphon & desiltation of Bagmari Syphon.</p> <p>Repair & maintenance work cannot be quantified in advance. Moreover, it is a continuing activity.</p>	<p>100%</p> <p>100%</p>	<p>1) The works are identified according to vulnerability and/ proneness of areas and executed after the approval of TAC, FBP.</p> <p>2) The works are identified in the beginning of the year and the works are executed as per requirement of site condition.</p>	<p>These are basically erosion & flood control works on river Ganga. Indeterminate nature of morphological behaviour of such alluvial rivers and uncertainty in onset of monsoon are the factors which affect these works</p>
11	Implementation Of National Water Mission(NWM)-New Scheme	<p>Conservation of water, minimizing wastage and ensuring its more equitable distribution both across and within States through intergated water resources development and management.The National Water Mission identifies five goals as under;</p> <p>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.</p>	20.00	<p>National Water Mission Directorate</p> <p>Preparation of State Specific Action Plans</p> <p>Human Resource Development and Capacity Building</p> <p>Setting up of National Bureau of Water Use Efficiency (NBWUE)</p> <p>Baseline Studies</p>	<p>National Water Mission Directorate is being established.</p> <p>Preparation of State Specific Action Plans. Four states, Maharashtra, Karnataka, Uttrakhand and Tripura have been identified as pilot study through WAPCOS Ltd.</p> <p>Human Resource Development and Capacity Building. NWM is in the process of finalizing MoU with national level institutes like NIRD & PR, LBSNAA, RGNGWTRI, CWRDM, TISS, NWA, etc. are undertaking NWM training and capacity building of stakeholders.</p> <p>Setting up of National Bureau of Water Use Efficiency (NBWUE). A proposal for setting up of NBWUE is under process in the Ministry.</p> <p>Baseline studies. Proposal for conducting baseline studies in irrigation sector through WALMI, Aurangabad, WALAMTARI, Hyderabad, NERIWALAM, Tejpur and DWM, Bhubaneswar is under process.</p>	<p>31.03.2016</p>	<p>Implementation of NWM – XII Plan is new Central Sector Scheme. The Scheme was approved by DoE, MoF in 2013.</p> <p>NWM activities have been initiated.</p> <p>Setting up of NBWUE shall be undertaken after Cabinet approval and creation of various posts by the DoE, MoF.</p>

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1	2	3	4	5	6	7	8
				Preparation of Demonstrative/ benchmarking projects	Preparation of Demonstrative/benchmarking projects. NWM has initiated actions for undertaking demonstration projects in irrigation sector in consultation with State Governments.		
12	Irrigation Management Programme	Incentivizing States for improvement in Irrigation Management	1.00	(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	Incentivising States for improvement in irrigation management will result in increased water use efficiency, participatory irrigation management, better utilization of irrigation infrastructure.	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-Central Component	To supervise and coordinate the implementation of Dam 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. (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.	29.00	Implementation of Engineering and Management Consultantancy for Central Project Management Unit (CPMU) of DRIP Funding to Academic Institutes for their capacity building requirement in dam safety areas Approval of Bid Documents beyond thresholds of State Project Management Units Approval of Project Screening Templates 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		Uniformly Spread	

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1	2	3	4	5	6	7	8
				International training programs/Seminars/Workshop in dam safety areas Preparation of guidelines on varied areas of dam safety ISO Certification for Central Dam Safety Organization Expenditure on hired vehicles for CPMU office Development of Dam Asses Management tool			
				Infrastructure Development of CPMU Office & DSO Unit of CWC. Purchase of Hydrologic/Design/Dam Break Modeling Softwares Like Mike 11, MIKE 21, ARC GIS, FEM Software Expenditure on hired vehicles for CPMU office			
14	Bodwad Parisar Sinchen Yojana	Grant is released to State Government.	1.00	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, 2015 to 31st March, 2016. 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	5.00	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.	100.00	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 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	The Authority shall also ensure expeditious execution, regulation and development of the project while simultaneously ensuring implementation of adequate environmental safeguard measures and proper rehabilitation of oustees. The Authority, being under the Central Government, is expected to instill confidence in both the successor States of	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.
				supply to Vishakhapatnam Steel Plant. An inter basin transfer of 80 TMC water annually to Krishna river basin is also envisaged.	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.		

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1	2	3	4	5	6	7	8
17	National River Conservation Plan	Pollution Abatement of River Ganga & its tributaries including Yamuna	550.00	<p>The WB assisted and JICA assisted project at Varanasi are included here. Under JICA assisted Yamuna Action plan at Delhi 10 projects will be sanctioned targetting rehabilitation of 950 mld STP capacity</p> <p>NON EAP Projects under NGRBA have been included here. The ongoing non EAP projects on Ganga & its tributaries are recently transferred from MoEF&CC to MoWR, RD & GR and under implementation.</p>	<p>The projects and activities under this plan include pollution abatement measures for different sources of pollution, river front development, Afforestation and conservation of aquatic life, Communication and public outreach, water quality monitoring etc. and enforcement of standards and other policy initiatives for ensuring Aviral and Nirmal Ganga.</p> <p>The projects and activities under this plan include pollution abatement measures for different sources of pollution, river front development, Afforestation and conservation of aquatic life, Communication and public outreach, water quality monitoring etc. and enforcement of standards and other policy initiatives for ensuring Aviral and Nirmal Ganga.</p>	<p>Projects identified under NGRBA program are scheduled to be completed by 2020. Projects under JICA assisted Yamuna Action Plan III are scheduled to be completed by 2018.</p> <p>These projects will be completed by 2020.</p>	<p>The proposal for interventions under 'Namami Gange' has been approved by the Expenditure Finance Committee (EFC) at an indicative cost of Rs. 20,000 Crore and the draft Cabinet note has been processed for consideration and approval. This scheme will be implemented in consultation & coordination with various ministries such as Ministry of Drinking Water & Sanitation, Ministry of Urban Development, Ministry of Environment, Forests & Climate Change etc.</p>
18	National Ganga Plan (Met from balance under NCEF)	The new initiatives under "Namami Gange" approaches Ganga Rejuvenation by consolidating the existing ongoing efforts and planning for integrated and comprehensive action plan. Incorporating the existing projects under the NGRBA, the Ganga rejuvenation plan provides for 'Short-term' (3 years), 'Medium-term' (5 years) and 'Long-term' (10 years and more) action plan.	2100 (this amount is to be met from NCEF and not to be included in the Ministry's Budget)	74 schemes in 49 towns in five Ganga States, 5 institutional development projects and 1 one implementation support project including Automatic Water Quality Monitoring and Ganga Knowledge Center have been sanctioned. Treatment capacity of 702.23 mld (including 64 mld for rehabilitation of old STPs) shall be created on implementation of these projects, of which a treatment capacity of 123 mld has been created so far. During 2015-16, sewage treatment capacity of 126.5 mld has been targeted under NGRBA.	The projects and activities under this plan include pollution abatement measures for different sources of pollution, river front development, Afforestation and conservation of aquatic life, Communication and public outreach, water quality monitoring etc. and enforcement of standards and other policy initiatives for ensuring Aviral and Nirmal Ganga.	Timeline for completion of projects under NGRBA including the projects proposed under 'Namami Gange' has been indicated for the year 2020 to abate pollution of river Ganga, particularly through the interventions to be made under short and medium term action plans. However, the interventions under long term action plan shall be based on the Ganga River Basin Management Plan of the IIT Consortium, 1st draft of which has been received on 31st January, 2015 and presently under examination in the ministry.	
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 (2015-16)	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	Improvement of built environment along river stretches, improvement of small ghats & crematoria and the conservation & preservation of ecologically sensitive sites	100.00	7 towns have been identified for the proposed ghat development / riverfront projects, DPR for which are under preparation.	The projects and activities under this plan include pollution abatement measures for different sources of pollution, river front development, Afforestation and conservation of aquatic life, Communication and public outreach, water quality monitoring etc. and enforcement of standards and other policy initiatives for ensuring Aviral and Nirmal Ganga.	These projects will be completed by 2020.	The proposal for interventions under 'Namami Gange' has been approved by the Expenditure Finance Committee (EFC) at an indicative cost of Rs. 20,000 Crore and the draft Cabinet note has been processed for consideration and approval. This scheme will be implemented in consultation & coordination with various ministries such as Ministry of Drinking Water & Sanitation, Ministry of Urban Development, Ministry of Environment, Forests & Climate Change etc.
		TOTAL (A)	1607.00				
CENTRALLY SPONSORED SCHEMES							
Accelerated Irrigation Benefit & Flood Management Programme							
1	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.		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, 2015 to 31st March, 2016. 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	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.		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 Culturable Command Area (CCA) for utilisation of irrigation (i) Irrigation potential of 0.5 million hectares is targeted for creation. (ii) Central assistance released.	1st April, 2015 to 31st March, 2016. Progress monitored on quarterly basis.	Progress depends on receipt of proposals in complete respect from the States.
3	Repair, Renovation and Restoration (RRR) of Water Bodies	Grant is released to State Governments for Repair, Renovation and Restoration of Water Bodies	1000.00	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) Ground Water Recharge, (ii) All round socio-economic development of people, (iii) Enhancement of availability of drinking water.	1st April, 2015 to 31st March, 2016. Progress monitored on quarterly basis.	Progress depends on receipt of proposals in complete respect from the States.
4	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.		(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.
5	Pradhan Mantri Krishi Sinchai Yojana		1000.00	Scheme transferred to Min of Agriculture. Some components are implemented by MoWR, RD & GR. . Scheme under approval stage.			
		Total (B)	2000.00				

Sl.No.	Name of scheme /programme	Objective/Outcome	Annual Plan (2015-16)	Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Process/Timelines	Remarks/Risk factors
1	2	3	4	5	6	7	8
		GRAND TOTAL (A+B)	3607.00				

CHAPTER – III

REFORM MEASURES AND POLICY INITIATIVES

3.1 **National Water Development Agency:** Mandate of NWDA has been approved in the 4th Special General Meeting of NWDA society to prepare the DPR of intra-State links after getting concurrence of Co-basin States. The revised EFC 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 done. 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 XIth Plan period and work of 2 links (one of Maharashtra and one of Tamil Nadu) taken up during 2012-13. DPR of two more intra-State link (one of Jharkhand and one of Odisha) has been initiated during 2014-15. Special Committee for Interlinking of Rivers has been constituted vide Gazette notification dated 23rd September, 2014 as per the direction of Hon'ble Supreme Court of India. Till now 2 meetings of this Committee has been held on 17.10.2014 and 06.01.2015.

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 13th May, 2010, was introduced in 15th Lok Sabha and was tabled before the Parliament on the 30th August, 2010. The Bill was subsequently referred to the parliamentary Standing Committee on Water Resources on 9th 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 17th 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. 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 the National Action Plan on Climate Change. The Union Cabinet approved, on 6th April, 2011, the comprehensive Mission Document for National Water Mission (NWM). The main 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”. NWM has identified five goals as under:-

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.

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

In pursuance to the approval accorded by the Union Cabinet to the National Water Mission, a Mission Directorate was established in the Ministry of Water Resources, River Development & Ganga Rejuvenation. Eight Advisory Groups/Committees as envisaged in the NWM Mission document have been constituted.

The National Water Mission (NWM) Outcome Budget FY 2015-16 has been prepared indicating physical dimensions as well as financial targets.

The NWM Directorate was established in the Ministry during the FY 2013-14. The EFC meeting held on 22.7.2013 has recommended Rs.196 crore for Implementation of National Water Mission Scheme during XII Plan. Department of Expenditure, Ministry of Finance has approved the NWM Scheme on 25.10.2013 and sanction order was issued on 27.11.2013. An expenditure of Rs. 0.71 crore was incurred during the FY 2013-14 and Rs. 0.62 Crore during nine months of FY 2014-15 (upto 31st December, 2014). NWM has proposed Rs.58.10 crore as budget estimate (BE) for the financial year 2015-16. The break-up of proposed cost is as under:-

1. National Water Mission Directorate	-Rs. 7.20
2. Preparation of State Specific Action Plans	-Rs. 6.50
3. Human Resource Development and Capacity Building	-Rs. 3.25
4. Setting up of NBWUE	-Rs.13.76
5. Baseline studies	-Rs.11.49
6. Preparation of DPR for Demonstrative/benchmarking projects	-Rs.15.90
Total	-Rs. 58.10 crore

The NWM outlay for implementation of the various activities during FY-2015-16 includes : NWM Directorate, Baseline studies, Formulation of State Specific Action Plans (SSAPs), HRD & Capacity Building, Establishment of demonstration projects and setting up of National Bureau of Water Use Efficiency (NBWUE). It may be noted that once NBWUE is established, a detailed Plan of action will be formulated for achieving the objectives 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 NWM Directorate/Secretariat has been established. 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 Advisers in the rank of Joint Secretary to the Government of India. Filling the post of Mission Director is under process. Adviser (Co-ordination & Monitoring) and Adviser (Technical) have been posted in the NWM Directorate. Five Young Professionals and five Consultants are proposed to be engaged to support the activities of NWM Directorate.

(ii) **State Action Plans on Climate Change and current progress :** NWM has initiated action for preparation of State Specific Action Plans on Climate Change on pilot basis for four States, namely, Maharashtra, Karnataka, Uttarakhand and Tripura through WAPCOS Ltd. State Governments 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 II, 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, NWM has initiated actions for signing of MoU with NIRD & PR, Hyderabad, CWRDM, Kozhikode, Kerala, Lal Bahadur Shastri National Academy of Administration, Mussorie and Directorate of Water Management, Bhubaneswar for organizing NWM training and capacity building programme to stakeholders.

It is proposed to engage NWA, Pune and Rajiv Gandhi National Ground Water Training and Research Institute, Raipur for organizing capacity building and training programme for multiple stakeholders including Central/State Government officials /local bodies/ WUAs etc.

A proposal for engagement of Tata Institute of Social Sciences (TISS), Mumbai is under process for undertaking Sensitization and capacity building of various stakeholders through Non-governmental organizations (NGOs).

NWM had organized a National Convention of Water Users' Associations (WUAs) on Participatory Irrigation Management (PIM) on 7-8 November, 2014 at New Delhi.

Training and Capacity building programmes on National Water Mission, Enhancing Water Use Efficiency and Water Conservation for State/Central Government officials/Water Users Associations have been conducted at Pune, Aurangabad and Kozhikode. One training programme proposed to be held during FY 2014-15 for WUAs on Micro-Irrigation and Protected Cultivation of Efficient Use of Water and Enhanced Crop Productivity at Directorate of Water Management, Bhubaneswar.

(iv) **Setting up of National Bureau of Water Use Efficiency (NBWUE):** Increasing water use efficiency is envisaged in agricultural, domestic and industrial sector as per NWM Goal IV. It may be mentioned that agriculture sector accounts for more than 80% of water usage, hence increasing water use efficiency in irrigation/agriculture is important for conservation of water.

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 IV, which envisages to increase water efficiency by 20%. National Bureau of Water Use Efficiency (NBWUE) shall be an Authority under Environment (Protection) Act 1986 for the purpose of promotion, regulation and control of efficient use of water irrigation, municipal and / or industrial uses. A proposal for setting up of NBWUE is under process in the Ministry.

(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, NERIWALAM, Tejpur and Directorate of Water Management, Bhubaneswar. The proposals of the various institutes are under examination in CWC.

The baselines studies shall be undertaken in agriculture, industry and domestic sectors. 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. Asian Development Bank (ADB) has undertaken a study on Innovation for More Food with Less Water for two irrigation projects (one in Gujarat and the other in Madhya Pradesh). Preparation of Detailed Project Report (DPR) for demonstrative benchmarking projects in agriculture, industry and domestic sector shall be undertaken.

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

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, River Development and Ganga Rejuvenation initiated the process of review of National Water Policy, 2002.

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.

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, River Development and Ganga Rejuvenation website for comments.

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.

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, River Development and Ganga Rejuvenation 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 unclassified data have been uploaded on India WRIS portal.

3.5. Irrigation Management Programme: The XIIth Five Year Plan Document inter alia proposed 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.

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.

Organisation of ‘Jal Manthan’: Recognizing the need to evolve strategies for better water resource development and management through wider consultations amongst various stakeholders, a three day Conference on “Jal Manthan” was organized from 20-22 November, 2014 in Vigyan Bhawan, New Delhi wherein various stakeholders participated in the deliberations.

The first day of the Conference was devoted to deliberations on the three flagship schemes being implemented by the Union Government of India through Ministry of Water Resources, River Development and Ganga Rejuvenation, viz. Accelerated Irrigation Benefit Programme (AIBP), Repair, Renovation and Restoration (RRR) of Water Bodies and Flood Management Programme (FMP). New proposals, such as, Incentivizing States for Water Sector Reforms, India Water Resources Information System (IndiaWRIS) and Hydrology Project III were also introduced.

The second day of the Conference was devoted to deliberations on various aspects of interlinking of River Programme.

On the third day, deliberations were held on broader issues of water conservation and management with civil societies, non-governmental organisations and water user communities. The focus was on water security; humane face to water resources projects; farm water management and rejuvenation of water bodies.

3.6. Result Framework Document (RFD)

Citizens Charter

The Institute has obtained ISO 9001:2008 certification with effect from December 13, 2012

Result Framework Document (RFD)

The Institute has finalized its RFD, providing a summary of the most important results that a department / ministry experts 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, 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.

a. Indus Waters Treaty 1960

- Tours of inspection and meetings of Permanent Indus Commission
- Collection and supply of data to Pakistan –
 1. supply of daily Gauge & Discharge data of observed and listed sites of Indus Basin rivers to Pakistan
 2. supply of Irrigated Crop Area Statistics for the Western Rivers of Indus Basin for Kharif and Rabi seasons on District wise/ Tehsil wise
 3. communication of Flood warning messages to Pakistan from 1st July to 10th of Oct every year on rivers Chenab, Jammu Tawi, Ravi and Sutlej.
 4. Supply of Information of Hydro Electric (H.E.) & Storage Projects on Western Rivers as per Treaty, data collection from projects, analysis of consistency, review & supply.
- Clearance of projects of Indus Basin from Treaty angle.
- Dealing with issues raised on projects from Treaty angle from time to time. Currently active:
- Works in connection with Secretary level meeting with Pakistan for talks with Govt. level.
- Interaction with L&T, PAI Divisions of Ministry of External Affairs on issues arising under Treaty.
- Meetings related to review of progress of Projects in J&K etc. from Treaty Angle and other matters arising from time to time.
- Issues in harnessing Western Rivers upto permissible limits under Treaty
- Issues in the optimal utilization of waters of Eastern Rivers.
- Analysis of data from Pakistan to the extent needed from time to time

b. Inter-State water related issues of Indus basin

- Inter-State issues among Punjab, Haryana and Rajasthan – Shahpurkandi project, Restoration of 0.6 MAF of Rajasthan's share of surplus Ravi Beas waters, Transfer of Control of Headworks at Ropar, Ferozepur and Harike, BML-Hansi Branch - Butana Branch Multipurpose Link channel, Sutlej-Yamuna Link (SYL) Canal, Presidential Reference on Punjab termination of Agreements Act, 2004 etc.
- Central Assistance for emergent counter protective works of rivers Ravi and Sutlej, works related to the Monitoring Committee thereof.

- Matters relating to the progress of Indira Gandhi Nahar Project, Indira Gandhi Nahar Board, change in composition, filling up of Financial Adviser's post etc.
- Matters relating to Bhakra Beas Management Board – references received under Rule 7 of the BBMB Rules, issues such as installation of G&D sites etc. of the Board needing interaction.
- Northern Zonal Council meetings relating to inter-state issues of Indus Basin
- Resettlement of Pong Dam oustees – High Level Committee and Sub-Committee meetings, interaction with Beas Construction Board and Ministry of Power on related matters including court cases.

A. **Bilateral Cooperation with Australia:**

The Governments of India and Australia entered into a Memorandum of Understanding (MoU) in the field of water resources management on 10th 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. The MoU has been renewed on 5-9-2014 for another five years.

2. 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), drawing together key policy, scientific and information inputs for a river basin in India.

3. Under the JWG, Australia is sharing its experiences in IWRM and planning with India. The Basin of Brahmani-Baitarni River of Odisha, Jharkhand and Chhattisgarh was selected for development of IWRM which involves specialists from Australia's Commonwealth Scientific and Industrial Research Organization (CSIRO), eWater and other Australian organizations working with Indian counterparts.

4. The second formal meeting of the JWG took place in Australia from 29th April to 3rd May, 2013 during which policy experience in water reform was shared by Australia. Detailed action plan for the next two years was finalized during this meeting.

5. Thereafter, 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 organised at CWC on 30-31 October, 2013. Thereafter, a two-week training at National Water Academy, Pune on eWater was also organized by the Australian water experts during 18-29 November, 2013 in which engineers/officials from CWC, CGWB, NIH and IMD participated. 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.

6. Recently, third meeting of JWG was held at New Delhi on 19th January, 2015 to discuss the progress achieved so far in IWRM plan for Brahmani-Baitarni Basin, its future road-map. The proposal of Australia to offer their expertise in rejuvenation of River Ganga was also discussed.

B. Bilateral Cooperation with other countries

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 22nd 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.

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

3. 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 23rd August, 2013 at New Delhi. A Joint Working Group having equal number of members from both the sides has been constituted in September, 2014 to implement the MoU.

4. During the visit of Finance Minister 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.

5. Recently, during the India-Bahrain High Level Joint Commission Meeting at New Delhi, a MoU with Bahrain for bilateral cooperation in the field of water resources development and management has since been signed on 22nd February, 2015.

6. MoUs with Israel, Hungary and Morocco for bilateral cooperation in water resources are also under consideration.

CHAPTER - IV

REVIEW OF PAST PERFORMANCE

4.1 The relevant information regarding performance during 2013-14 and 2014-15 (up to December, 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 2015-16 is in **Annexure-V**.

TREND OF EXPENDITURE IN FY 2014-15:

5.2 Budget Estimate for the annual plan of this Ministry for the year 2014-15 was Rs. 13237.00 crores which was reduced to Rs. 5400.00 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.3447.63 crores has been incurred upto December 2014 which works out to 26.04% and 63.85% with reference to B.E and R.E 2014-15 respectively.

5.3 The grant of Ministry of Water Resources for FY 14-15 is classified into five Sectors. The Sector-wise distribution of approved plan outlay (both BE/RE) and expenditure up to December 2014 under different Sectors are summarized below:

(Rs in crore)			
Sector	B.E. 2014-15	R.E. 2014-15	Exp. upto December 2014
Medium Irrigation	11122.88	3865.14	2906.99
Minor Irrigation	380.62	154.50	61.63
Flood Control	446.50	242.36	136.77
Transport Sector	150.00	85.00	65.72
Ecology and Environment (New Schemes 2014-15)	1137.00	1053.00	276.52
Total	13237.00	5400.00	3447.63

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 2015-16:

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 2013-14		BE 2014-15		RE 2014-15		BE 2015-2016		Total B.E. 2015-16
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
I.	Secretariat-Economic Services									
1.	Ministry of Water Resources	0.00	45.90	0.00	42.70	0.00	42.28	0.00	46.35	46.35
2.	Ravi-Beas Waters Tribunal	0.00	0.38	0.00	0.56	0.00	0.50	0.00	0.44	0.44
3.	Cauvery Water Disputes Tribunal	0.00	1.51	0.00	3.40	0.00	2.39	0.00	2.89	2.89
4.	Krishna Water Disputes Tribunal	0.00	2.06	0.00	2.30	0.00	2.20	0.00	2.20	2.20
5.	Vansadhara Water Dispute Tribunal	0.00	2.85	0.00	4.38	0.00	3.97	0.00	4.35	4.35
6.	Mahadayi Water Disputes Tribunal	0.00	2.33	0.00	2.78	0.00	2.74	0.00	2.80	2.80
	Total : Secretariat-Economic Services	0.00	55.03	0.00	56.12	0.00	54.08	0.00	59.03	59.03
II.	Medium Irrigation Central Water Commission									
1.	Direction & Administration	0.00	28.95	0.00	31.16	0.00	31.54	0.00	33.82	33.82
2.	Data Collection	0.00	88.64	0.00	96.79	0.00	94.23	0.00	97.84	97.84
3.	Training	0.00	0.29	0.00	0.43	0.00	0.36	0.00	0.48	0.48
4.	Research	0.00	1.98	0.00	2.35	0.00	2.56	0.00	2.80	2.80
5.	Survey & Investigation	0.00	8.93	0.00	7.09	0.00	9.25	0.00	10.29	10.29
6.	Consultancy	0.00	28.45	0.00	28.83	0.00	31.01	0.00	32.80	32.80
7.	Contribution to international bodies	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.01
8.	Seminars and conferences on water resources on water.									
9.	Exhibition and Trade Fair	0.00	0.14	0.00	0.20	0.00	0.18	0.00	0.20	0.20
10.	Modernization	0.00	0.24	0.00	0.31	0.00	0.30	0.00	0.38	0.38

SI No	Sector/ Organisation /Scheme	Actuals 2013-14		BE 2014-15		RE 2014-15		BE 2015-2016		Total B.E. 2015-16
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
	n of equipment CWC Offset Press									
11.	Cell for monitoring externally aided projects	0.00	0.86	0.00	0.98	0.00	0.64	0.00	1.01	1.01
12.	Water Planning Wing	0.00	1.56	0.00	1.83	0.00	2.40	0.00	2.49	2.49
13.	Hydrological observations in Chenab basin	0.00	2.56	0.00	2.93	0.00	2.76	0.00	3.04	3.04
	Total : CWC	0.00	162.60	0.00	172.91	0.00	175.24	0.00	185.16	185.16
14.	Central Soil and Materials Research Station	0.00	9.45	0.00	10.83	0.00	11.05	0.00	11.85	11.85
15.	Central Water & Power Research Station	0.00	39.60	0.00	48.11	0.00	46.11	0.00	50.33	50.33
16.	National Institute of Hydrology	0.00	12.80	0.00	14.00	0.00	14.42	0.00	15.43	15.43
17.	Sardar Sarovar Construction Advisory Committee	0.00	0.85	0.00	0.91	0.00	0.93	0.00	1.02	1.02
18.	Bansagar Control Board	0.00	0.27	0.00	0.35	0.00	0.32	0.00	0.36	0.36
19.	Sutlej Yamuna Link Canal Project	0.00	0.00	0.00	15.00	0.00	0.10	0.00	1.00	1.00
20.	Upper Yamuna River Board	0.00	1.70	0.00	1.40	0.00	2.41	0.00	2.34	2.34
21.	Krishna River Management Board	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00
22.	Godavari River Management Board	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00
23.	Mulla Periyar Dam	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
23.	Research and Development Programme	31.36	0.00	50.00	0.00	34.55	0.00	30.00	0.00	30.00
24.	Development of Water Resources Information System	42.65	0.00	225.38	0.00	79.99	0.00	80.99	0.00	80.99
25.	Hydrology Project	40.73	0.00	31.38	0.00	24.55	0.00	10.00	0.00	10.00
26.	Infrastructure	1.07	0.00	2.90	0.00	1.92	0.00	1.00	0.00	1.00

SI No .	Sector/ Organisation /Scheme	Actuals 2013-14		BE 2014-15		RE 2014-15		BE 2015-2016		Total B.E. 2015-16
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
	Development									
27.	HRD/ Capacity Building	20.48	0.00	43.00	0.00	23.10	0.00	22.00	0.00	22.00
28.	River Basin Management	64.87	0.00	107.00	0.00	78.00	0.00	45.20	0.00	45.20
29.	Implementation of National Water Mission	0.71	0.00	40.00	0.00	1.45	0.00	20.00	0.00	20.00
30.	Irrigation Management Programme	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	1.00
31.	Dam Rehabilitation and Improvement Programme	4.60	0.00	30.00	0.00	14.30	0.00	29.00	0.00	29.00
32.	Bodwad Parisar Sinchan Yojana	0.00	0.00	200.00	0.00	66.67	0.00	1.00	0.00	1.00
33.	AIBFMP (Impact Assessment Studies)	0.00	0.00	50.00	0.00	0.05	0.00	5.00	0.00	5.00
34.	Accelerated Irrigation Benefit Programme & Flood Management Programme (Centrally Sponsored Scheme)	0.00	0.00	8992.22	0.00	3276.56	0.00	1000.00	0.00	1000.00
35.	Polavaram Project Authority	0.00	0.00	250.00	0.00	250.00	0.00	100.00	0.00	100.00
36.	DPR for Interlinking of rivers	0.00	0.00	100.00	0.00	10.00	0.00	100.00	0.00	100.00
37.	Pradhan Mantri Krishi Sinchai Yojana	0.00	0.00	1000.00	0.00	4.00	0.00	1000.00	0.00	1000.00
	Total: Medium Irrigation	206.47	227.27	11122.88	266.01	3865.14	252.58	2445.19	267.49	2712.68
III.	Minor Irrigation									
1.	Central Ground Water Board	0.00	127.21	0.00	136.35	0.00	160.97	0.00	152.06	152.06
2.	Ground Water Management and Regulation	80.40	0.00	325.00	0.00	143.00	0.00	163.00	0.00	163.00
3.	Development of Water Resources Information	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.01

Sl No	Sector/ Organisation /Scheme	Actuals 2013-14		BE 2014-15		RE 2014-15		BE 2015-2016		Total B.E. 2015-16
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
	System									
4.	Infrastructure Development	3.43	0.00	48.60	0.00	5.49	0.00	9.00	0.00	9.00
5.	HRD/ Capacity Building	5.11	0.00	7.00	0.00	6.00	0.00	7.00	0.00	7.00
	Total : Minor Irrigation	88.94	127.21	380.62	136.35	154.50	160.97	179.01	152.06	331.07
IV.	Flood Control									
1.	Central Water Commission	0.00	74.55	0.00	79.91	0.00	81.97	0.00	89.37	89.37
2.	Payment to Govt. of Bhutan for maintenance of flood forecasting and warning centres	0.00	0.56	0.00	1.18	0.00	0.88	0.00	1.04	1.04
3.	Strengthening and modernization of flood forecasting and hydrological network in Brahmaputra and Barak Basin	0.00	2.42	0.00	3.23	0.00	3.35	0.00	1.13	1.13
	Total : CWC	0.00	77.53	0.00	84.32	0.00	86.20	0.00	91.54	91.54
4.	Emergent Flood Protection Measures in Eastern and Western Sectors	0.00	0.00	0.00	3.00	0.00	1.77	0.00	0.10	0.10
5.	Flood Forecasting	24.67	0.00	100.00	0.00	30.00	0.00	50.00	0.00	50.00
6.	River Management Activities and Works related to Border Areas	30.03	0.00	175.00	0.00	115.26	0.00	102.00	0.00	102.00
7.	Infrastructure Development	5.80	0.00	28.50	0.00	17.10	0.00	7.00	0.00	7.00
8.	River Basin Management	85.00	0.00	143.00	0.00	80.00	0.00	73.80	0.00	73.80
	Total : Flood Control	145.50	77.53	446.50	87.32	242.36	87.97	232.80	91.64	324.44
V.	Other Transport Services									
1.	Farakka	89.82	30.40	150.00	44.00	85.00	44.06	100.00	45.13	145.13

SI No .	Sector/ Organisation /Scheme	Actuals 2013-14		BE 2014-15		RE 2014-15		BE 2015-2016		Total B.E. 2015-16
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
	Barrage Project									
2.	Jangipur Barrage	0.00	2.30	0.00	2.46	0.00	2.45	0.00	2.60	2.60
3.	Feeder Canal	0.00	6.95	0.00	7.38	0.00	7.21	0.00	7.48	7.48
	Total :	89.82	39.65	150.00	53.84	85.00	53.72	100.00	55.21	155.21
VI	Ecology and Environment									
1.	National River Conservation Plan	0.00	0.00	537.00	0.00	453.00	0.00	550.00	0.00	550.00
2.	National Ganga Plan	0.00	0.00	1500.00	0.00	1500.00	0.00	2100.00	0.00	2100.00
2a	Less amount met from NCEF			-1500.00	0.00	-1500.00		-2100.00	0.00	-2100.00
3.	Ghat works for beautification of river fronts	0.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
4.	Water projects of NCT	0.00	0.00	500.00	0.00	500.00	0.00	00.00	0.00	00.00
	Total : Ecology and Environment	0.00	0.00	1137.00	0.00	1053.00	0.00	650.00	0.00	650.00
	TOTAL: (I to VI) \$	530.73	526.69	13237.00	599.64	5400.00	609.32	3607.00	625.43	4232.43
VII.	AIBP and other Water Resources Programme #	5010.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	GRAND TOTAL	5541.50	526.69	13237.00	599.64	5400.00	609.32	3607.00	625.43	4232.43

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 2013-14		BE 2014-15		RE 2014-15		BE 2015-2016		Total B.E. 2015-16
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
A.	DIRECT EXPENDITURE									
1.	Secretariat-Economic Services	0.00	55.03	0.00	56.12	0.00	54.08	0.00	59.03	59.03
2.	Central Water Commission: - Medium Irrigation	0.00	162.60	0.00	172.91	0.00	175.24	0.00	185.16	185.16
	-Flood Control	0.00	77.53	0.00	84.32	0.00	86.20	0.00	91.54	91.54
3.	Central Soil & Materials Research Station	0.00	9.45	0.00	10.83	0.00	11.05	0.00	11.85	11.85
4.	Central Water & Power Research Station	0.00	39.60	0.00	48.11	0.00	46.11	0.00	50.33	50.33
5.	Central Ground Water Board	0.00	127.21	0.00	136.35	0.00	160.97	0.00	152.06	152.06
6.	Farakka Barrage Project	89.82	39.65	150.00	53.84	85.00	53.72	100.00	55.21	155.21
7.	Boards and Committees	0.00	2.82	0.00	4.66	0.00	5.66	0.00	3.72	3.72
	Total : Direct Expenditure	89.82	513.89	150.00	567.64	85.00	593.03	100.00	608.90	708.90
B.	RELEASES									
(a)	Grants to Autonomous Bodies									
1.	National Institute of Hydrology	0.00	12.80	0.00	14.00	0.00	14.42	0.00	15.43	15.43
2.	Research & Development Programme - Medium Irrigation	31.36	0.00	50.00	0.00	34.55	0.00	30.00	0.00	30.00
	Sub-Total (a)	31.36	12.80	50.00	14.00	34.55	14.42	30.00	15.43	45.43
(b)	Assistance to States for Flood Control/anti-erosion works									
1.	Emergent Flood Protection measures in Eastern and Western Sectors	0.00	0.00	0.00	3.00	0.00	1.77	0.00	0.10	0.10
	Sub-Total(b : Assistance to States for flood control/anti-erosion works	0.00	0.00	0.00	3.00	0.00	1.77	0.00	0.10	0.10

Sl. No	Sector/Organisation /Scheme	Actuals 2013-14		BE 2014-15		RE 2014-15		BE 2015-2016		Total B.E. 2015-16
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
(c)	State Irrigation Schemes									
1.	Sutlej Yamuna Link Canal Project	0.00	0.00	0.00	15.00	0.00	0.10	0.00	1.00	1.00
	TOTAL: RELEASES (a) to (c)	31.36	12.80	50.00	32.00	34.55	16.29	30.00	16.53	46.53
	Total : (A+B)*	121.18	526.69	200.00	599.64	119.55	609.32	130.00	625.43	755.43
C	OTHER PLAN SCHEMES									
	Medium Irrigations									
1.	Development of Water Resources Information System	42.65	0.00	225.38	0.00	79.99	0.00	80.99	0.00	80.99
2.	Hydrology Project	40.73	0.00	31.38	0.00	24.55	0.00	10.00	0.00	10.00
3.	Infrastructure Development	1.07	0.00	2.90	0.00	1.92	0.00	1.00	0.00	1.00
4.	Human Resource Development/ Capacity Building	20.48	0.00	43.00	0.00	23.10	0.00	22.00	0.00	22.00
5.	River Basin Management	64.87	0.00	107.00	0.00	78.00	0.00	45.20	0.00	45.20
6.	Implementation of National Water Mission	0.71	0.00	40.00	0.00	1.45	0.00	20.00	0.00	20.00
7.	Irrigation Management Programme	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	1.00
8.	Dam Rehabilitation and Improvement Programme (DRIP)	4.60	0.00	30.00	0.00	14.30	0.00	29.00	0.00	29.00
9.	Bodwad Parisar Sinchan Yojana	0.00	0.00	200.00	0.00	66.67	0.00	1.00	0.00	1.00
10.	Accelerated Irrigation Benefit & Flood Management Programme	0.00	0.00	8992.22	0.00	3276.56	0.00	1000.00	0.00	1000.00
11.	Impact Assessment Studies of AIBFMP	0.00	0.00	50.00	0.00	0.05	0.00	5.00	0.00	5.00
12.	Polavaram Project Authority	0.00	0.00	250.00	0.00	250.00	0.00	100.00	0.00	100.00
13.	DPR for Interlinking of rivers	0.00	0.00	100.00	0.00	10.00	0.00	100.00	0.00	100.00
14.	Pradhan Mantri Krishi Sinchai Yojana	0.00	0.00	1000.00	0.00	4.00	0.00	1000.00	0.00	1000.00
	Total – Medium Irrigation	175.11	0.00	11072.88	0.00	3830.59	0.00	2415.19	0.00	2415.19
	Minor Irrigation									
1.	Ground Water Management and Regulation	80.40	0.00	325.00	0.00	143.00	0.00	163.00	0.00	163.00
2.	Development of Water Resources Information System	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.01
3.	Infrastructure Development	3.43	0.00	48.60	0.00	5.49	0.00	9.00	0.00	9.00

Sl. No	Sector/Organisation /Scheme	Actuals 2013-14		BE 2014-15		RE 2014-15		BE 2015-2016		Total B.E. 2015-16
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
4.	Human Resource Development/ Capacity Building	5.11	0.00	7.00	0.00	6.00	0.00	7.00	0.00	7.00
	Total – MI	88.94	0.00	380.62	0.00	154.50	0.00	179.01	0.00	179.01
1.	Flood Control									
	Flood Forecasting	24.67	0.00	100.00	0.00	30.00	0.00	50.00	0.00	50.00
2.	River Management Activities and Works related to Border Areas	30.03	0.00	175.00	0.00	115.26	0.00	102.00	0.00	102.00
3.	Infrastructure Development	5.80	0.00	28.50	0.00	17.10	0.00	7.00	0.00	7.00
4.	River Basin Management	85.00	0.00	143.00	0.00	80.00	0.00	73.80	0.00	73.80
	Total - FC	145.50	0.00	446.50	0.00	242.36	0.00	232.80	0.00	232.80
	Ecology and Environment									
1.	National River Conservation Plan	0.00	0.00	537.00	0.00	453.00	0.00	550.00	0.00	550.00
2.	National Ganga Plan	0.00	0.00	1500.00	0.00	1500.00	0.00	2100.00	0.00	2100.00
	Less amount met from NCEF			-1500.00		-1500.00		-2100.00	0.00	-2100.00
3.	Ghat works for beautification of river fronts	0.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
4.	Water projects of NCT	0.00	0.00	500.00	0.00	500.00	0.00	00.00	0.00	00.00
	Total- Ecology and Environment	0.00	0.00	1137.00	0.00	1053.00	0.00	650.00	0.00	650.00
	Total: Other Plan Schemes	409.55	0.00	13037.00	0.00	5280.45	0.00	3477.00	0.00	3477.00
	Total –(A+B+C)*	530.73	526.69	13237.00	599.64	5400.00	609.32	3607.00	625.43	4232.43
D	AIBP and other Water Resources Programme **	5010.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	GRANT TOTAL (A+B+C+D)	5541.50	526.69	13237.00	599.64	5400.00	609.32	3607.00	625.43	4232.43

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 31.12.2014

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.)
(Rs. in Crore)

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	As on 31.12.2014
Unspent Balances (Rs. In Crores)	181.79	205.59	158.08	1379.73	1446.2549	1462.91
Pending Ucs (In Numbers)	327	285	260	259	264	241
Pending Ucs (Rs. In Crores)	66.18	52.01	37.61	971.37	978.4742	975.74

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	As on 31.12.2014
Unspent Balances (Rs. In Crores)	14.99	14.02	17.12	1238.77	1236.435	1236.36
Pending Ucs (In Numbers)	7	6	6	5	7	3
Pending Ucs (Rs. In Crores)	14.99	14.02	14.02	947.78	947.8466	947.53

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	As on 31.12.2014
Unspent Balances (Rs. In Crores)	166.8	191.57	140.96	140.96	209.8199	226.55
Pending Ucs (In Numbers)	320	279	254	254	257	238
Pending Ucs (Rs. In Crores)	51.19	37.99	23.59	23.59	30.6276	28.21

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).

6.1.2 Composition: 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.

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,

Activities:

- (a) Preparation of 3 (three) Sub-basin Master Plans - Bugi, Dareng and Umsohryngkew – has been taken up by Brahmaputra Board during the year 2013-14 and data could be collected from the concerned State and Central Government Organizations in last part of the year 2013-14 and propose to complete in 2014-15.
- (b) 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 and Kulsu Multipurpose Project have been completed in 2014 and submitted to Ministry of Water Resources, RD&GR and it is under appraisal of Central Water Commission for techno-economic clearance.
- (c) 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 expenditure of ` 6.09 crore and completed in the year 2004-05. These works were followed by protection works under Phase –I (at the revised cost ` 56.07 crore). Works envisaged under Phase-I was completed in April, 2011. The total expenditure under Phase –I was ` 52.63 crore. Works under Phase-II & III at estimated cost of ` 115.99 crore are in execution and physical progress of 84.07% have been achieved at an expenditure of ` 98.30 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 ` 4.75 crore. A scheme formulated as per recommendation of Standing Committee of Experts on Majuli Island during its 8th visit amounting to ` 212.33 crore are under appraisal of CWC. On receipt of ‘Techno-economic Clearance’, ‘Administrative Approval’ & ‘Expenditure Sanction’ work will be started.
- (d) 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 (` 9.65 crore), Phase –II (` 3.76 crore) and Phase –III (` 8.45 crore) were completed. Works under Phase-IV for ` 54.43 crore are under execution and physical progress of about 99.80% has been achieved at an expenditure ` 49.69 crore up to December 2014 and tagged to complete by May 2015. For 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 and Restoration of original channels of Dibang and Lohit Rivers at Dhola-Hatighuli at an estimated cost of ` 383.18 crore under Phase-V has been formulated based upon recommendations of 8th visit of Standing Committee of Experts. The DPR is under appraisal in Central Water Commission. Activities envisaged under Phase-V proposals are planned to be implemented during XII Five Year Plan. On receipt of ‘Administrative Approval’ & ‘Expenditure Sanction’ work will be started.

- (e) 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.
- (f) 'Protection of Mankachar, Kalair-Alga International Border area from erosion of River Brahmaputra' in Assam
- (g) 'Protection of Maslabari International Border area of Dhubri District from erosion of River Brahmaputra' in Assam

Techno-economic clearances of above schemes at (e) to (g) have been received. Government of India has conveyed the sanction to implement Central Sector Plan scheme –“River Basin Management (RBM)” during XII Plan. Tendering process has been initiated on receipt of 'Administrative Approval' & 'Expenditure Sanction'.

- (h) 4 (four) Drainage Development Schemes - Barbhag (Estimated cost - ₹ 14.80 crore), Amjur (Estimated cost - ₹ 14.15 crore), Jengrai (Estimated cost - ₹ 5.23 crore-Revised) and Jakaichuk (Estimated cost- ₹ 2.96 crore) are in progress. The physical achievements attained under these schemes are 50.59%, 33.50%, 27% and 75% respectively.
- (i) 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. State wise details of Spill over FMP schemes pertaining to the jurisdiction of Brahmaputra Board

₹. in crore'

State	No of Scheme	Estimated Cost	Central Share	State Share	Central Share Released upto 31.03.12	No of schemes completed during XI Plan	No of schemes spilled over to XII Plan	Spill over Central Share
Assam	101	1146.79	1032.12	114.67	744.9	77	24	287.22
Sikkim	28	165.59	149.03	16.56	82.86	21	7	66.17
Manipur	22	109.34	98.41	10.93	65.03	20	2	33.37
Arunachal Pradesh	21	224.68	202.21	22.47	78.77	11	10	123.44
Nagaland	11	49.35	44.42	4.93	28.96	9	2	15.46
Tripura	11	26.57	23.91	2.66	20.91	4	7	3
West Bengal	6	22.33	16.75	5.58	13.39	6	0	3.36
Mizoram	2	9.13	8.22	0.91	3.4	Nil	2	4.82
Meghalaya	0	-	-	-	-	-	-	-
Total	201	1753.78	1575.07	178.71	1038.22	148	53	536.84

State wise details of implementation of new projects approved for funding under FMP during XII Plan-

`Rs. in crore`

State	No of Scheme approved during X Plan	Estimated Cost	Central Share	State Share	Central Share Released up to 31.10.14
Assam	41	1364.78	1027.89	336.89	Nil
Nagaland	3	37.38	26.16	11.22	13.08
Sikkim	17	261.3974	182.97	78.43	Nil
Total	61	1663.56	1237.02	426.64	13.08

Monitoring mechanism

Progress of all field activities are submitted to headquarter every month and forwarded to MoWR, RD&GR as a consolidated report in subsequent month. Further, performance appraisal of activities of Brahmaputra Board on quarterly basis is submitted to Ministry.

Public Information System

The Action Plan and Quarterly Performance Appraisal of Brahmaputra Board have been uploaded in the website of Brahmaputra Board regular basis.

6.2. Ravi and Beas Waters Tribunal

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

The Cauvery Water Disputes Tribunal (CWDT) was constituted by the Govt. of India on 02nd June, 1990 consisting of the Hon'ble Chairman and two Members to adjudicate the Water Disputes regarding the Inter-State River Cauvery and the river valleys thereof. The term of CWDT has been extended by the Central Government by a further period of one year with effect from the 3rd November, 2014 vide notification dated 3rd November, 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 5th February, 2007. Thereafter the Central Government as well as party States sought further clarification/guidance in this regard under Section 5(3) of the said Act.

The Tribunal took up the petitions of the party States for consideration on 10th 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 5th 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 18th 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.

IA No.6 in civil appeal No. 2456 of 2007 was taken up in the Hon'ble Supreme Court on 1..7.2013 and ordered for listing the consideration on 5th July, 2013 by giving time up to 4th July, 2013 for putting up response by the rejoinder. The case was again taken up on 5th July, 2013, it was ordered the rejoinder-Affidavit may be filed by the state of Tamil Nadu within three weeks and list the same on 5th August, 2013.

The case was taken up on 5th August, 2013 wherein it was ordered that having regards to good rains, Learned Senior Council for the state of Tamil Nadu is not desirous of

pressing IA No. 6 of 2013 and accordingly it was ordered to list the appeal on 15th Jan, 2014.

On joining of the Hon'ble Chairman on 21st May, 2014, the CMP No. 01/2012 was taken up on 15th July, 2014 in the Tribunal, wherein the Tribunal vide order dated 15.07.2014 desired that the State of Tamil Nadu may file a fresh application or press I.A. No. 11 filed by it in the Hon'ble Supreme Court in Civil Appeal No. 2453 of 2007 and get an appropriate direction that this Tribunal may proceed with the application under Section 5(3) of the Act 1956.

Expenditure incurred by the Tribunal: -

i)	Expenditure incurred by the Tribunal during for 2013-14	1,50,73,513
ii)	Cumulative expenditure upto 3/14	22,27,02,512
iii)	Budget Allocation for 2014-15.	3,40,00,000
iv)	Expenditure from 4/14 to 12/14	2,02,14,421
v)	Cumulative Expenditure upto 31/12/14	24,29,16,933

6.4 Krishna Water Disputes Tribunal

The Krishna Water Disputes Tribunal (KWDT) was constituted on 2nd 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 30th December, 2010.

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 on 29th March, 2011.

The order on references were pronounced by the Tribunal on 29.11.2013 by way of its further Report under Section 5(3) of the Act and forwarded the same to the Central Govt. and the respective Party States.

In term of Section 12 of the Inter State River Water Disputes Act, 1956 Central Government could dissolve the Tribunal after it has forwarded its report and as soon as the Central Government is satisfied that no further reference to the Tribunal in the matter would be necessary. However, as per Section 89 of the Andhra Pradesh Re-organization Act, 2014 (6 of 2014) the term of KWDT is required to be extended with the terms of reference specified in Clauses (a) & (b) of the said Section. Accordingly, the Central Government in exercise of powers conferred by the Sub-Section 3 of the Section 5 of the said Act vide Notification No. S.O. 1290 (E) dated 15.05.2014 and Corrigendum No. S.O. 1483 (E) dated

9th June, 2014 extended the period of submission of Further Report for a period of 2 years (or until further orders, whichever is earlier) w.e.f. 1st August, 2014 so as to address the Terms of Reference specified in Clauses (a) & (b) of the Section 89 of the Andhra Pradesh Re-organization Act, 2014 (6 of 2014).

The Tribunal has issued a Notice to all party States and the Central Government that 24th July, 2014 has been fixed for appearance of the parties i.e. Andhra Pradesh, Telangana, Maharashtra and Karnataka before the Tribunal through their Counsel or an officer duly authorized on their behalf.

After considering the replies and responses and the rejoinders of all the Parties the next date has been fixed for 7th January, 2015 for framing of the issues.

Expenditure incurred by the Tribunal

(Figures in crore)

Name of Scheme Programme	Actual expenditure 2012-13	BE 2013-14 Non-Plan	Actual expenditure 2013-14	BE 2014-15 Non-Plan	RE 2014-15 Non-Plan	BE 2015-16 Non-Plan
	1.7225	1.9525	2.0614	2.3000	2.3100	2.7635

6.5. Vansadhara Water Disputes Tribunal

The Vansadhara Water Disputes Tribunal (VWDT) was constituted by the Government of India on 24th February, 2010 to adjudicate the water disputes regarding Inter State River Vansadhara and the River valley thereof pursuant to the directions given by the Hon'ble Supreme Court in Writ Petition (Civil) No. 443/2006.

The Tribunal held its two preliminary sittings on 9th September, 2010 and 23rd November, 2010 in the office of the Central Water Commission, Seva Bhawan, Sector-1, R.K. Puram, New Delhi, 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.

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 14th March, 2014 decided that the effective date of constitution of the said Tribunal shall be 17th 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 17th September, 2012.

The Hon'ble Tribunal delivered its order in IA No.1 of 2010 on 17th December, 2013, allowing the Government of Andhra Pradesh to construct the side weir along with the ancillary works as proposed and has inter alia directed for constitution of a 3 Member Supervisory Flow Management and Regulation Committee on River Vansadhara. The State of Odisha has filed an SLP against the said order in the Hon'ble Supreme Court and the same is pending for hearing.

The issues of the disputes have already been framed. The Tribunal has also started recording of evidence of the witnesses of the State of Odissa.

Recently, the Tribunal visited the C.W.P.R.S. office at Pune from 3.12.2014 to 5.12.2014 for inspection of physical model of proposed Katargadda side weir and proposed Neradi Barrage and also held discussions with the concerned officials and parties at C.W.P.R.S., Pune.

6.6. Mahadayi Water Disputes Tribunal

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 Water 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 constitution of the Tribunal consists of a Chairman and two Members.

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 5th Floor, A-Wing, JanpathBhavan, Janpath on 21.08.2013 and is conducting the further sittings in its Court Hall since then.

During the sittings of the Tribunal, held on 4th March, 2014, 1st April, 2014 to 3rd April, 2014, the Tribunal heard the pleadings of all the three States, viz, Goa, Karnataka and Maharashtra, disposed of various applications and issued directions to them to file requisite documents to adjudicate the dispute. The Tribunal in its sitting held on 17.4.2014 disposed of the main application for stay filed by the State of Goa by passing appropriate directions to the parties.

The requisite documents as directed have now been filed before the office of the Tribunal and the same will be taken up by the Tribunal for hearing on 11.02.2015.

Expenditure incurred by the tribunal:-

(Figures Rupees in in thousands)

Sl.No	Particulars	Actual 2013-14	B.E. 2014-15	Actual 2014-15 (Upto Dec, 2014)	Anticipated Expenditure from 1.1.2015 to 31.3.2015	Total Anticipated Expenditure from 1.4.2014 to 31.3.2015	Budget Demand 2015-16
1.	Salary	14504	17500	14858	4,042	18,900 Appropriation From OE Head 1,400	21900
2.	Wages	924	0	0			0
3	Medical treatment	0	150	48	27	75	150
4.	Overtime allowance	0	10	0	0	0	10
5.	Domestic travel expenses	444	700	0	100	100	700
6.	Foreign Travel expenses	0	0	0	0		0
7.	Office Expenses	5373 *1399	6500 Less 10% 650 <u>5850</u>	2603	1,224	3,827 Balance Left 2,023 App. to Salary 1,400 App. to Prof. Ser. 120	5000
8.	Publications	38	100	54	46	100	200
9.	Other administrative expenses	0	30	0	15	15	30
10	Professional Services/ Other Contractual Services	803	2810	2095	836	2,930 Appropriation From OE Head 120	3300
	Grand Total	22,085	27,800	19,658	6,290	25,947	31290

Note: 1.Amount Reqd. to be appropriated from 'Office Expenses'to the Head 'Salaries'Rs.14,00,000

2.Amount Reqd. to be appropriated from 'Office Expenses'to the Head Prof.Ser.ead Prof.Ser. Rs. 1,20,000

*Revalidated by Controller of Accounts, Shastri Bhawan, New Delhi in favour of PAO, NDZ, CPWD, New Delhi vide Authority No. WR/CA/A/5(2)(4)(4)/2013-14/366-73 dated 4.7.2013 in favour of PAO (NDZ), CPWD, IP Bhawan, New Delhi regarding electric works.

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

1. Section 85(1) of the Andhra Pradesh Reorganization Act, 2014 (No. 6 of 2014), notified on 1st 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 28th May, 2014 respectively. The headquarters of both the Boards are located at Hyderabad.

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.

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.

4. The Cabinet while approving the proposal for constitution of Godavari and Krishna River Management Boards in its meeting held on 3rd April 2014 had also approved an initial contribution of Rs. 1.00 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. The initial contribution of Rs. 1.00 Cr. to each Board has been released in December, 2014.

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 WR, RD & GR) 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.

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

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

- a. To carry out detailed surveys and investigations of possible reservoir sites and inter-connecting links in order to establish feasibility of the proposal of

Peninsular Rivers Development and Himalayan Rivers Development Components forming part of the National Perspective for Water Resources Development prepared by the then Ministry of Irrigation (now Ministry of Water Resources) and Central Water Commission.

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

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.

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 and PFRs of 2 links are remained in progress during 2014-15.

An expenditure of Rs. 43.01 Crores has been incurred by NWDA on Interlinking of Rivers programme during 2014 -15 (upto December 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 link 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 DPRs, one of Maharashtra and one of Tamil Nadu also taken up and remained in progress during 2014-15. Two more DPRs of intra-State link of Jharkhand and Odisha were also initiated during 2014-15.

During the year 2015 -16, an outlay of ` 69.00 Crores has been proposed by 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 3 links in Himalayan Component (Indian Portion). Also, PFRs of one intra-State link will be completed and DPRs of 4 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 2015-16.

The physical performance under the plan scheme of NWDA has been discussed in detail in Chapter – IV.

FINANCIAL OUTLAY

(Rs. in crores)

Name of the Scheme / Activity	XII Plan Outlay	Actual Expenditure 2013 – 14	Actual Expenditure 2014 – 15	Budget Estimate 2015 – 16
Investigation of Water Resources Development Schemes – Investigation of River Link Proposals	280.00	50.30	43.01*	69.00 (Proposed)

*up to December, 2014

6.9 National Institute of Hydrology (NIH):

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.

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.

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 oraganizations. NIH works as a nodal centre of the Ministry for effective implementation of the National Water Mission.

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.

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 2014-15 and targets for the year 2015-16 are shown below:

S. No.	Description of Item	Physical target for 2014-15	Achievement during 2014-15*	Target for 2015-16
1	Preparation of technical reports/ studies completed	50	31	50

2	Publication of research papers	148	125	150
3	Preparation of guidelines /manuals	2	0	2
4	Organization of workshops /seminars/ symposia	25	14	25
5	Training of Personnel	40	42	40

*Upto Dec., 2014

PUBLIC SECTOR UNDERTAKINGS:

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

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

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.

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.

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, Ghat Development, 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.

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 & maintenance, quality assurance & management, software development and human resource development.

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 more than 56 countries and is currently engaged in providing consultancy services in Afghanistan, Angola, Bangladesh, Benin, Bhutan, Burkina Faso, Burundi, Cambodia, Central African Republic, Chad, DR Congo, Ethiopia, Ghana, Guinea Conakry, Kenya, Lao PDR, Lesotho, Liberia, Malawi, Maldives, Mali, Mozambique, Myanmar, Nepal, Niger, Nigeria, Rwanda, Senegal, Sierra Leone, South Sudan, Sri Lanka, Swaziland, Tanzania, Togo, Uganda, Yemen and Zimbabwe.

DIVIDEND: For the year 2013-14, a dividend of Rs. 1500 lakh, which is the highest-ever in the history of the company, was paid as against Rs. 1200 lakh paid in 2012-13 on the paid-up capital.

BONUS SHARES: Bonus Shares of Rs. 9 crore were issued in the year 2014.

6.11. National Projects Construction Corporation Limited:

INTRODUCTION: National Projects Construction Corporation Limited (NPCC) was set up in 1957 as a premier construction Company to create necessary infrastructure for economic development of the country in the core sectors of irrigation and water resources, power and heavy industries. Its administrative control was transferred from M/o Irrigation and Power to M/o Water Resources, RD & GR since 1989. NPCC is having pan india presence with 15 Zonal offices situated at Kolkata, Bhubneshwar, Guwahati, Silchar, Shillong, Itanagar, Raipur, Mumbai, J&K, Bangalore, Patna, Ranchi, Lucknow, NCR Gurgaon and Dehradun & 105 operational Units. NPCC Ltd complies with Quality management requirements of ISO 9001-2008 for execution of Civil Works. The corporation has also been awarded credit rating as A+ company by ICRA. Presently, the total manpower of the Company is 1182 as on 1.02.2015.

VISION: *“To become world class engineering projects implementing organization”*

MISSION: *“To achieve a turnover exceeding Rupees 3500 crores with positive net worth by 2021-22 by focusing value addition at all points of interaction with our clients and continuously enhancing capabilities of organization and employees through innovations.”*

OBJECTIVES:

1. To ensure customer satisfaction through:
 - Execution of projects within schedule time & cost,
 - Adhering Specifications & conditions of Contract,
 - Customer feedback & ensuring improvement.

2. Achieving Turnover Target as per MOU
3. Securing Business to maintain Work Order Book position in excess of three times of Turnover.
4. Realizing old dues maximally and quickly for improving financial position of NPCC.
5. Continual improvement of Manpower knowledge & skills.
6. Continual organizational re-structuring and diversification with focus to Business, Profitability and Customer's satisfaction..
7. Maintaining & improving ISO 9001 – 2008 based Quality Management Systems in all areas of activity.

AREAS OF OPERATION

- Townships & Other Residential Buildings
- Institutional Buildings
- Office Complexes
- Roads, Bridges & Fly-Overs
- Hospitals & Health Sector Projects
- Industrial Structures
- Surface Transport Projects
- Environmental Projects
- Thermal Power Projects
- Hydro-Electric Power Projects
- Dams, Barrages & Canals
- Tunnels & Underground Projects
- Real Estate Works

Financial Status: The authorized capital of the corporation is Rs. 700 Crores and its Paid up Capital is Rs. 94.53 Crores. The Corporation achieved a turnover of Rs. 1174.69 crore during 2013-14 compared to previous year's turnover of Rs 1155 crore. The turnover during the year 2014-15 is anticipated amount to Rs. 1180 crore, whereas the turnover of Rs. 676 crore is achieved upto December 2014. The order book position as on 31st December 2014 stand at Rs. 3960 crore.

The Company has made net profits for the last 5 years continuously and has a positive net worth during the last two years. Net profit expected during the financial year 2014-15 of Rs 31.30 Crore (Unaudited).

The Company has set the following targets for the year 2015-16

(Rupee in Crores)

S.No.	Financial indicator	Target for Good Category
1	Gross Margin	59.05
2	Gross Sales	1250
3	Gross Profit	59.00
4	New Business	1300

Performance of 2013-14

Annexure – I (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/ Risk 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.	

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/ 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			
	Irrigation Census						
	Rationalization of Minor Irrigation Statistics (RMIS)	Conduct of 5th Minor Irrigation Census w.r.y. 2011-12		1.) Conduct of All India Workshop for Introduction of New Methodology for next MI Census in the States-	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.	

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/ 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 outsourcing.	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	

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/ 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.	

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/ 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.

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/ 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	Ground Water Management And Regulation	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.

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/ 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		

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/ 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 st 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"> • Procurement of 9 Rigs - DGS&D has published the Tender on 5th March 2013. Tender opened on June, 2013 and under finalization. • Tenders for 9 rigs finalized by DGS&D. Expenditure sanction of Rs. 67 Crore is received from MoWR. Budget allocation is awaited from MoWR. • A National Level Technical Specification Committee has been constituted by MoWR for procurement of scientific 	

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/ 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 - 296, 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	Human Resources Development /Capacity Building		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	1. Painting Competition: • 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	

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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"> 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. A Special Painting Competition for Hilly States was also organised in Dehradun in 24th January, 2014, by CGWB. 	
						<p>2. Electronic Media Campaign for mass awareness on water conservation:</p> <ul style="list-style-type: none"> Electronic Media Campaign was launched on DD National, DD News, Regional Channels including Lokvani channels of Prasar Bharti for spreading 	

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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"> Electronic Media Campaign was launched for a period of three months on Lok Sabha TV. Electronic Media Campaign was launched on various Radio Stations of All India Radio for a period of three months. 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. 	
						<p>3. Print Media Campaign – · 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 17th July 2013, 20th August, 2013, 27th September, 2013, 19th November, 2013 and 27th December, 2013.</p> <p>4. Workshops/Seminars/ Conferences – · 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.</p>	

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/ Risk Factor
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.	
						5. Participation in Fairs/Exhibitions – 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 & Power Research Station (CWPRS), and Public Sector undertakings viz. WAPCOS Ltd. and National Projects Construction Corporation Limited (NPCC) exhibited	

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/ 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"> The Ministry participated in the 17th National Exhibition at Visva Bharti University Ground, Bolpur, West Bengal from 6th -10th September, 2013. 	
						<p>6. Celebration of Water Conservation Year 2013 -</p> <ul style="list-style-type: none"> 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 	
(b)	National Water Academy	Training for Engineers/ Engineers Resources Development and Infrastructure development	5.00	a) 32 Nos. of Training Programmes	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 th National Exhibition at Visva Bharti University Ground, Bolpur, West Bengal from 6 th -10 th 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.	

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1	2	3	4	5	6	7	8
	Strengthen of WALMs/ IMTIs	To repair/ renovate/ upgrade/ modernize/ of dilapidated Infrastructure 14 of WALMIs/ IMTIs.		One time financial assistance to each of 14 institutes in installments will be provided and each installment will be tied with deliverable performance indicators as per MoU.	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 st 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 st 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	Infrastructure Development	Land & Building (CWC) and Ministry (Proper) - To provide decent honorable, better and healthy working conditions for the staff engaged in works of data collection planning and investigation of 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	CWC(L&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.

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/ 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.	Ministry proper (IT & e-Gov) & CGWB(IT):- 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).	CGWB(L&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 XIth Plan shall be executed	

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/ Risk Factor	
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.	
8	River Basin Management		200.00					
a	River Basin Organisation	To encourage setting up of River Basin Organisation with the primary objective of providing a forum to all the co-basin states for taking up necessary studies and evaluation etc., with a view to identify the most appropriate alternative for optimum utilisation of resources and meeting the aspirations of all state-holders.	1.00	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.	During financial year 2013-14, an amount of Rs.149.87 crore has been incurred against RE 2013-14 of Rs.150.00 crore..	
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	(a) Survey & Investigations for preparation of Feasibility Report of 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		

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/ 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.	

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/ Risk Factor
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	Re-Structuring of CWC	Horizontal expansion of field activities at basin level to address the basin level issues in more comprehensive and integrated manner and to take up the responsibilities assigned to MoWR/ CWC under National Water Mission(NWM) to address climate change issues .	9.00	Approval of the scheme of Re-Structuring of CWC and creation of posts for restructured CWC. Starting of work of hiring of offices / infrastructure.	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	

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/ Risk Factor
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	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,,	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 Brahamaputra Assam - 24%, Puthimari river in Assam -33%,	To be implemented by Brahamaputra 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 Brahamaputra 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 Brahamaputra, Operation & maintenance & upgradation of NEHARI, Upgradation of IT & GIS, Climate Change studies would be taken up.		iv. construction of 4 raised platforms completed.	

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/ Risk Factor
1	2	3	4	5	6	7	8
9	River Management Activities And Works Related To Border Rivers & UTs	Hydrological observations and investigations of Water Resources Projects with neighboring countries besides river management works on common/border rivers. Flood control, Anti-erosion and anti sea erosion works, Maintenance of flood protection works of Kosi and Gandak Projects (in Nepal).	125.00	(i) Continuation of Joint Hydrological observations on river Ganga with Bangladesh, and(ii) Transmission of flood related data from / to neighboring countries (iii) Preparation of Joint Detailed Project Reports (DPR).(iv) Development works on common/border rivers.(v) Anti-erosion and anti sea erosion works of UTs.(vi) Maintenance of flood protection works of Kosi and Gandak Projects (in Nepal).	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	Farakka Barrage Project	(i) Maintenance of Farakka Barrage Project and its appurtenant structure including feeder canal, Jangipur Barrage etc. (ii) Anti-erosion works for protection of embankments along river Ganga and its tributaries to train the river along main barrage.	150.00	(i) Special repair and Maintenance of Farakka Barrage Project and its appurtenant structure including feeder canal, Jangipur Barrage and replacement of barrage gates etc. ii) Erosion control in the extended jurisdiction of FBP from 40 km u/s to 80 km d/s of Farakka Barrage to save land, crops, orchards, public buildings etc. along river Ganga-Padma.	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, Kulidiara, 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	Implementation Of National Water Mission(NWM)-New Scheme	Conservation of water, minimizing wastage and ensuring its more equitable distribution both across and within States through intergated water resources development and management	110.00	The NWM identifies five goals as under;	Activities to continue in the FY 2013-14 (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.

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/ Risk Factor
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,		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
				(II) Promotion of citizen and state actions for water conservation, augmentation and preservation,			NMW 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 framewrk for incentivizing Sates for improvement in irrigation management (ii) Approval of Scheme - EFC Memo (iii) Approval of Sceme Cabinet Note (iv) Evaluation of States as per frameowork (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 sing 24th Decemeber 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.

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/ Risk 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 Karnataka, 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	Bodwad Parisar Sinchen Yojana of Maharashtra	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

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/ Risk Factor
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				

Performance of 2014-15

Annexure – II
(Chapter-IV)

(Rs. in Crore)

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2014-15	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.12.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
1	Development of Water Resources Information System (DWRIS)		225.40				
	Hydrological Observations and Monitoring System						
	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 modernization 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,		1). Continuation of Hydrological Observation activities including Snow Hydrology, water quality and monitoring of glacier lakes. 2). Expansion and modernization of hydrological observation network with state of the art techniques and equipments. 3).Collection, compilation, storage, dissemination, analysis and publication of data in the form of Water Year Books.	Data/ periodical observation of hydro-meteorological, snow observation, Water quality parameters as per established procedures and protocol to continue throughout the year	1). Observation of Hydrological data at 878 sites including snow data and monitoring of glacier lakes continued. 2). Collection, compilation, storage, dissemination, analysis and publication of data in the form of Water Year Books achieved. 3). Up gradation of 100 HO stations to be achieved. 4). 236 new sites to be opened.	
	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		To collect reservoir water level of 87 reservoirs whose live storage is proposed to be monitored by the CWC by telemetry system		Reservoir storage data continued to be collected using conventional methods. Tenders have been drafted for telemetry based monitoring system and processed	

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2014-15	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.12.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
						for approval.	
	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.		Opening of two site and data collection Organising meeting of CPDAC and its sub-committee/workshop/seminars etc. Strengthening of Beach Erosion and Coastal Erosion Directorate.	Activities to continue throughout the year.	A meeting was held with IIT, Madras and their estimate for 66 crore was discussed. They were advised to revised it and submit the same. NIO Goa has also been requested to submit the proposal similarly.	
	Irrigation Census						
	Rationalization of Minor Irrigation Statistics (RMIS)	Conduct of 5th Minor Irrigation Census in the country using traditional methodology.		1. Release of funds to States for organising the Regional Training Workshops. 2. Release of 40% of Census funds to States for preparatory work(i.e. Printing of Schedules 3. Pursuing Development of Software for data entry/validation by NIC and its adoption by its States/UTs.	Activities in respect of 5th Minor Irrigation Census (i.e. Field work & Supervision etc.) to continue throughout the year.	1.Six Regional Training Workshops organised in six regions in which detailed training on schedules/manuals etc. of 5th Minor Irrigation Census was imparted to officials from States/UTs 2. Released/ Revalidated Census funds to 25 States/UTs till Dec.2014. 3. MoU has been signed with NIC for development of software	Expenditure incurred is Rs.19.57 cr till Dec.2014

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1	2	3	4	5	6	7	8
						for data entry/ validation.	
	Census of Major and Medium Irrigation Projects	Collection of census data (Phase-II) at outlet level of 8 projects covered in the Phase-I through outsourcing		Finalization of schedule to be filled up for census and guidelines thereon.		<p>Eight projects from North, South, East, West, North East and Central region were selected for phase I of Pilot Census of Major and Medium Irrigation (MMI) Projects. For the purpose of collecting data on physical assets i.e. inventory of projects during Phase-I, schedule and guidelines were prepared and sent to concern regional Chief Engineers for collecting the information from state project authorities.</p> <p>The filled in scheduled were received in respect of seven out of eight (except Upper Ganga Canal project) projects from regional CE's. on examining the same, some incompleteness was observed in the filled in schedules. Accordingly these schedules were referred back to the concerned regional CEs for doing</p>	

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1	2	3	4	5	6	7	8
						the needful	
	Water Quality Assessment Authority and Monitoring System	To provide Secretarial assistance to WQAA		Training programs/ seminars through CWC, NIH, CWRDM, ESCI, CSE & WQRCs or other reputed institutions			
	Strengthening of Monitoring Unit in CWC	General/ AIBP Monitoring of Major/Medium/ERM Projects		13 + 36 visits in Q1/ 14 + 37 Visits in Q2/ 13+ 37 visits in Q3/14+37Visits in Q4. Processing for Approval of advance payment/Award of work/ Procurement & hosting of processed imageries/ digitization and assessment study.	Continuous activity	General Monitoring visits 4 (2+2)out of 27 and AIBP Monitoring 12 visits out of 73 for I & II quarters made by field monitoring units	
	Data Bank and Information System						
	Web-enabled Water Resources Information System & Setting up of National Water Informatics Centre (NWIC)	'Single Window' source of updated data on water resources & allied themes; and provide value added products and services to all stake holders		(i) Completion of India WRIS by NRSC (ii) Taking over of India WRIS project by CWC & setting up of Centre at CWC hq (iii). Updation & Refinement of India-WRIS iv). Updation & Refinement of India-WRIS (v) Approval of proposal by MoWR (vi) Phase I data collection and capacity building of CWC officers (vii) Phase II - checking of consistency of data and calibrating of data and model parameters	Continuous activity.	Proposal of NWIC and Reassessment of Water Availability of 19 no. of basins (Rs 6 cr) in the country has been sent to MoWR for approval. The approval is awaited.	

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1	2	3	4	5	6	7	8
				(viii) Phase II continues			
	Up-gradation and Modernization of Library Information Bureau in CWC	Up-gradation as well as enhancement of the knowledge of CWC officials in the field of water related sector		Procurement of books/publication/software purchase etc., R&M of library & library building, Procurement of M&E+AC + Computer, Digitization of CWC publications, R&M of library & library building + payment for Horticulture services	Continuing process.	Procurement of books/publications/ periodicals/ Journals etc. Procurement of AC/ Computers and stationary/ library furniture Charges towards Electrical Energy /Water/ Sewage. Training of staff	
	Software Management in CWC	Enhance e-governance capabilities with web based custom-made softwares. Up-grade and strengthen the hardware/ software/ network resources for CWC-HQ and field offices		Procurement of laptops/ computers/ printers up-grade and strengthen the hardware / software / network resources for CWC-HQ and filed offices	Activities to continue throughout the year.	Up-grade and strengthen the hardware / software / network resources for CWC-HQ and filed 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 network of forecast sites together with telemetry system for communication of real time data and other state of art equipments. 3) Automation and telemetry system at 219 existing stations covering flood	100.00	1) To continue flood forecasting from existing 147 level forecast and 28 inflow forecast sites covering 20 river basins. 2) Automation of the existing network of forecast sites together with telemetry system for communication of real time data and other state of art equipments. 3) Automation and telemetry system at 219 existing	Data/periodical observation of Hydro Metrological, snow observation, water quality parameters as per established procedures and protocol to continue throughout the year.	1). A total of 4772 forecast were issued upto 31.10.2015 out of which 4667 (97.8%) were within permissible limit. 2). To continue development of mathematical modeling for flood forecasting 3). Process for supply, installation and commissioning of 219	

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2014-15	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.12.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
		forecasting network of CWC.		stations covering flood forecasting network of CWC.		telemetry stations is in progress. The work could not be completed as approval of EFC is awaited.	
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.	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 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. The World Bank reimbursement shall be completed by 30 th September, 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.	Project has now been closed and all reimbursement completed by November 30 th , 2014.

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1	2	3	4	5	6	7	8
						(f) Heliborne survey completed in the 6 Pilot Areas. The interpretation of results and finalization of report in progress.	
4	Ground Management Water And Regulation	<p>1) Aquifer Mapping - Data Generation</p> <ul style="list-style-type: none"> - Compilation of Existing data (in sq.km.) - Procurement of Hard copy (topographical, geological, soil, geomorphologic and other maps) <ul style="list-style-type: none"> ➤ Topographical ➤ Geology ➤ Soil ➤ Geomorphological - Data base on Exploration wells - Compilation of information of Geology, Geophysics, Hydrogeology, Geochemical, Hydrology - Delineation of principal aquifers-(Vertical and Lateral) - Aquifer Wise Water Level Data - Aquifer Wise Draft Data 	325.00	<p>5,89,000 sq.km.</p> <p>-Do-</p>	1 st April 2014 to 31 st March,2015	<p>505009 Sq.km</p> <p>174534 Sq.km</p> <p>530776 Sq.km</p> <p>273432 Sq.km</p> <p>490548 Sq.km</p> <p>540830 Sq.km</p> <p>545916 Sq.km</p> <p>598098 Sq.km</p> <p>708094 Sq.km</p>	

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2014-15	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.12.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
		<p>Data gap for Aquifer Mapping Area</p> <ul style="list-style-type: none"> - Thematic layer--land use/geomorphology - Information on Geology, Geophysics, Hydrogeology, Geochemical, Hydrology <ul style="list-style-type: none"> ➤ Geology ➤ Geophysics ➤ Hydrogeology ➤ Geochemical data ➤ Hydrology - Delineation of Principal aquifer- Vertical and lateral - Aquifer wise water level data - Aquifer wise draft data 		<p>5,89,000 sq.km.</p> <p>- Do -</p>	<p>1st April 2014 to 31st March,2015</p>	<p>327310 Sq.km</p> <p>477443 Sq.km</p> <p>456288 Sq.km</p> <p>435675 Sq.km</p> <p>482649 Sq.km</p> <p>439795 Sq.km</p> <p>464895 Sq.km</p> <p>447829 Sq.km</p> <p>522130 Sq.km</p>	
		<p>Data generation (1.30 lakh Sq.Km.)</p> <p>Hydrogeological data</p> <ul style="list-style-type: none"> • Exploratory drilling including pumping test (nos) <p>Geophysical data</p> <ul style="list-style-type: none"> • VES (nos) • Profiling(Line Km.) • Borehole logging(No.) <p>Water quality parameter (in No.)</p> <ul style="list-style-type: none"> - Analysis of groundwater for major anions and cations,heavymetals and general parameters, industrial pollution studies etc. - Water level monitoring of NHS (No.) 		<p>700 Wells</p> <p>2000 Nos. Need based -Do-</p> <p>20000 Samples</p> <p>27000 (4 times in a year)</p>	<p>1st April 2014 to 31st March,2015</p>	<p>421 Wells</p> <p>1107 Nos.</p> <p>203.112 L.Km</p> <p>74 Nos.</p> <p>17912 nos.</p> <p>Four times achieved (May, August, November-2014 & January-2015)</p>	

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1	2	3	4	5	6	7	8
		<ul style="list-style-type: none"> - Establishment of additional new observation wells (nos) - Completion of Artificial Recharge structure as spill over of 11th plan(nos) - Technical assistance to organisations for water supply source investigations (nos) - Organizing National Ground Water Congress, Workshops, Seminars etc (Nos) 		<p>7000 Nos</p> <p>Spill over of XIth Plan</p> <p>Need based</p> <p>Need based</p>		<p>1531 Nos.</p> <p>46 Nos. Structures</p> <p>101 Nos. Investigations</p> <p>Nil</p>	
		Ground Water Resources Assessment		Dynamic Ground Water Resources Assessment(As on 2013)	1 st April 2014 to 31 st March,2015	<ul style="list-style-type: none"> • MoWR, RD&GR has constituted the Expert Group to review and revise the G W Estimation Methodology 1997(GEC-97). • 23 states/ UTs, have constituted the State Level Committee for Assessment of Dynamic Ground Water Resources of concerned states/ UTs(As on 31st March, 2013) 	

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1	2	3	4	5	6	7	8
		<p>Preparation of Reports, Maps for dissemination of Scientific information</p> <p>a. State Report</p> <p>b. District Brochures</p> <p>c. Ground Water Year Books</p>		<p>18 Nos.</p> <p>125 Nos.</p> <p>23 Nos.</p>	1 st April 2014 to 31 st March,2015	<p>Completed – 4 Nos.</p> <p>Completed- 625 Nos.</p> <p>Completed-21 Nos.</p>	<p>Remaining reports are Under preparation.</p> <p>625 District ground water Brochures completed during XII plan.</p> <p>(Remaining reports are Under preparation)</p>
		Procurement of Machinery & Equipments for Technology up-gradation		- Procurement of Rigs	1 st April 2014 to 31 st March,2015	<p>Procurement of 9 Rigs</p> <p>-</p> <p>Procurement of 9 Rigs</p>	

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1	2	3	4	5	6	7	8
				- Procurement of Scientific Equipments/ Softwares and Data		<p>–</p> <ul style="list-style-type: none"> • 3 rigs 500m (DTH rig), supply order placed by DGS & D on 9th July, 2014. • 2 rigs-400 m (Dual R), supply order placed by DGS & D on 25th Sep, 2014. • 4 rigs -300m (DTH rig) supply order finalized by DGS&D on 27th Jan, 2015 <p>Procurement of 15 Air compressors:-</p> <p>Draft tender document vetting by FAO under process.</p> <p>Procurement of scientific equipments and software's are under process at various stages which are as under:</p> <ul style="list-style-type: none"> • Procurement of 4 nos of hydro geological equipments – administrative approval has been received from the Ministry for e- 	

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1	2	3	4	5	6	7	8
						<p>procurement. Tender document has been up-loaded on CPP portal on 6.01.2015. Date of opening of tender is 11.02.2015.</p> <ul style="list-style-type: none"> • Procurement of 4 nos of geophysical equipments –Tender documents are under scrutiny by the internal finance wing of CGWB for sending it to the Ministry for obtaining administrative approval. • Procurement of 6 nos of chemical equipments – Proposal for obtaining administrative approval of the Ministry for e-procurement has been sent on 7.01.2015. • Procurement of 4 nos of chemical equipments – The tender documents has been under scrutiny for sending it to the Ministry for administrative approval for e-procurement. 	

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1	2	3	4	5	6	7	8
						<ul style="list-style-type: none"> Procurement of 7 nos scientific softwares - The case has been forwarded to the Ministry for obtaining administrative approval and expenditure sanction on 21.01.2015. 	
5	Research & Development Programme in Water Sector	It includes preparation of technical reports. It also includes publishing research papers/ Manual /Guidelines, organizing training/ workshop etc	50.00	Preparation of technical reports-229 Nos. Publication of research papers- 270 Nos. Organization of workshop /seminar/symposia/Training- 37 Nos.	The work is to be implemented by various organisations of the Ministry.	Upto Dec.14 Preparation of technical reports- 170 Nos. Publication of research papers- 229 Nos. Organization of workshop /seminar/symposia /Training- 35 Nos	
6	Human Resources Development /Capacity Building		50.00				An amount of
(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	30.00	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	During the financial year 2014-15, total committed plus incurred expenditure stands at Rs. 18.522crore (latest updated on 6th January, 2015) out of the allocated Revised Budget of Rs 20 crore. Publicity through Electronic Media for	Rs.10.14 crore has been incurred against RE 2014-15 of Rs.18.00 crore.

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1	2	3	4	5	6	7	8
						<p>mass awareness on water conservation</p> <p>Messages of Water Conservation were propagated through Electronic Media by telecasting video spots of 60 seconds duration on DD National, DD News and 18 Regional Kendras from 23.08.2014 to 20.10.2014. These were also telecast on LSTV from 22.08.2014 to 20.10.2014. Similarly, 60 seconds of audio spots were broadcast on National News, Vividh Bharti (37 Stations), FM Radio (20 Rainbow + 4 Gold) and Regional News (31 stations) from 26th August, 2014 to 24th September, 2014.</p> <p>Painting Competition</p> <p>School level Painting Competition on the theme of "Save Water Live Better" for the students of 6th, 7th</p>	

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1	2	3	4	5	6	7	8
						<p>and 8th standard was organized from September, 2014 to October, 2014 in the schools all over the country.</p> <p>ii. State level painting competition on the theme of “Save a drop save the future” was organized across the country on 26.11.2014 amongst the 50 best students of each state out of the school level entries.</p> <p>iii. National painting competition on the theme “Save Water for the Future” has to be organized on 28th January, 2015.</p> <p>Publicity through participation in Fairs/Exhibitions</p> <p>Ministry of Water Resources, River Development and Ganga Rejuvenation had erected a pavilion on the theme of “CLEAN</p>	

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1	2	3	4	5	6	7	8
						<p>RIVER-BRIGHT FUTURE” in Hall No.7-E in the 34th Edition of India International Trade Fair in Pragati maidan from 14th to 27th November, 2014,</p> <p>ii. The Ministry participated in 18th National Exhibition through CWC and CGWB from 3rd to 7th September, 2014 at Kolkata.</p> <p>Publicity through Print media i.e. newspapers /magazines</p> <p>A colored advertisement on Painting Competition was issued in all leading newspapers across the country on 18th October, 2014.</p> <p>ii. Half page colored advertisement in leading newspapers of Hindi, English and regional languages was issued on the occasion of ‘Jal Manthan’ on 20th</p>	

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1	2	3	4	5	6	7	8
						<p>November, 2014</p> <p>Organisation of Workshops /Seminars/ Conferences</p> <p>India Water Week is planned to be organized from 13th to 17th January, 2015 at Vigyan Bhawan and Pragati Maidan. The main theme of IWW-2015 is “Water Management for Sustainable development”. Main theme has been divided into 8 sub themes, under each sub-theme a number of technical sessions have been planned.</p> <p>ii. ‘Hamara Jal- Hamara Jeevan’ has to be organized in the districts of the country along with the organization of India Water Week in New Delhi.</p> <p>iii. Workshops are to be</p>	

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1	2	3	4	5	6	7	8
						<p>organized at different places of the country by CGWB on various water related topics covering the local problems and possible solutions.</p> <p>Exhibitions in prominent Places</p> <p>Ministry will participate in the '7th Vibrant Gujarat Global Trade Show' from 8th to 13th January at Gandhi Nagar, Gujarat.</p>	
(b)	National Water Academy	Training in all aspects of WRD&M for all Stakeholders of water Sector including Induction Training Programme.	6.00	32 Nos. of Training Programmes	Training Programme will be spread over the whole year and will be conducted in accordance with the approved Training Calendar	<p>During the year 2014-15, in all 26 numbers of training programs including Workshop/Seminar have been conducted. This includes regular training programs of NWA, programs conducted under Hydrology Project-II, and programs sponsored by ISRO etc. During the year 2014-15 (up to 31st December-2014), 656 numbers of officers from various states/central Govt. organizations, PSUs were trained by NWA with a total number of man weeks</p>	

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1	2	3	4	5	6	7	8
						accomplished to the tune of 1510. CWC deputed 430 officials in 40 programs including deputation of three officers in two programs abroad.	
(c)	RGN Ground Water Training Institute	Capacity building of personnel from CGWB, other Central Govt. Agencies, state Govt. Agencies, NGOs, PRIs etc. In the field of ground water.	7.00	32-Tier-I (National level) Training Courses 50-Tier-II (State level) Training Courses 350-Tier-III (Block level) Training courses	One year	Tier I: 23 trainings completed, Tier-II: 19 trainings completed, Tier-III: Nil.	Targets against Tier-I & Tier-II will be achieved by March 2015. Using available funds 35 Tier-III training will be completed.
(d)	Capacity Building Programme (NERIWALM)	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 the current year the institute has organized 42 training programmes upto 31.12.2014 and expected to conduct 18-20 training programme during the last quarter of FY 2014-15 for farmers and functionaries Water Users Association etc.	Funds are required to be released on quarterly basis.	The institute adopts a Training Calendar every year after getting comments, suggestions & feed back of the concerned departments of NE Regions. During the current year the institute has covered various subjects related to water and land resources management like water use efficiency in irrigation projects, irrigation water management including	

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1	2	3	4	5	6	7	8
						command area development activities, participatory irrigation management (PIM), preparation of DPR for irrigation project, rain water harvesting etc. "River Basin planning & Integrated Water Resource Management (IWRM)" at Assam & Arunachal Pradesh, two "Water Conservation Week" at Assam and 3 conferences on "Flood Erosion, land slide and Environmental issues" at Assam were convened.	
(e)	Training of MoWR Officers	To train officers/officials of the Ministry in institutions located in India and Abroad in different fields as per the mandate given to MoWR, RD & GR.	2.00	(i) Organizing orientation training for officers/ officials who are newly posted. (ii) Deputing officers/ officials on induction training on selection/ recruitment in the Ministry. (iii) Deputing officers/ officials on mid-career training at various levels/stages in their career. (iv) Conducting in-house/ on the job training at workplace. (v) Deputing officials/ officers for thematic training	The training of the officers/ officials will be conducted round the year as per the Training policy of the Ministry	As part of developing the human resources, officials of the Ministry are sent on training in various institutes to enhance their capabilities and skills. During the year 2014-2015, 95 officers/officials of the Ministry were sent for training till December 2014.	

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1	2	3	4	5	6	7	8
				like leadership development, stress management, ethics and values, finance administration, etc.			
7	Infrastructure Development	<p>To procure land and construction of office/residential buildings for CWC for providing decent, honorable better and healthy working condition to its staff.</p> <p>Construction of Building for Regional & Divisional Office Including Workshop & Store at Guwahati. (Civil + Electrical)</p> <p>Construction of Building for Divisional Store & Workshop at Bangalore.</p> <p>Construction of Staff Qtrs for the employee of CGWB at Bhubaneswar.</p> <p>Construction of Building for office Store & Workshop for Div-XII, Bhopal.</p> <p>Construction of Building for Regional & Divisional Office at Ahmedabad.</p> <p>Construction of Building for Divisional Office, Workshop & Store of CGWB, Div-II at Ambala.</p> <p>Construction of Boundary wall, Building for Office workshop & Store</p>	80.00	<p>Acquisition of Land and Construction of non-residential and residential building for CWC at various locations all over India.</p> <p>2) Modernization of CWC HQ at New Delhi will continue.</p> <p>3) Construction of hutments for CWC site locations.</p> <p>4) Construction of buildings/ boundary walls and land acquisition (as required) at Kolkata, Nizamabad, Patna, Bhubaneswar, Balasore, Guwahati, Silchar, Itanagar</p> <p>Regional and Divisional Office at Guwahati</p> <p>Divisional Store and Workshop at Bangalore.</p> <p>Staff Qtrs. for the employee of CGWB at Bhubaneswar</p> <p>Divisional Store and</p>	<p>Majority of works are being implemented by CPWD/NPCC/CWC.</p> <p>Subject to approval from MoWR& tendering of works by construction agency (Lead time 3 months minimum)</p> <p>One year</p> <p>As per NIC/concerned agency proposal</p> <p>Change of XP window is a time consuming process, some of targeted have spilled over to next year.</p> <p>Renovation of</p>	<p>Construction of building at Kolkata, Guwahati, Patna, Balasore (Swarnarekha Sub-Division) Hutments continued.</p> <p>Construction work boundary wall at Itanagar to be contd.</p> <p>Proposal for construction of office cum residential buildings at Rongpur, Silchar to be taken up.</p> <p>Modernization of CWC (HQ?) at New Delhi continued, Fresh proposal for modernization works through NPCC pursued.</p> <p>Divisional Office and Workshop completed and shifted in the newly constructed building and rest of the work is in</p>	<p>Ministry's advice without submitting DPR and approved drawing, 40% advance cannot be sanctioned.</p> <p>CPWD has demanded of Rs. 1.56 Cr for payment of pending bills of contractors. Sanctioned accorded, placement awaited.</p> <p>Proposal for minor changes of MoA is submitted to Ministry for approval which is</p>

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2014-15	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.12.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
		<p>for Regional & Division at Jammu.</p> <p>Construction of Building for RGNGWTRI (RGI) at Raipur</p> <p>Construction of Building for Divisional Workshop & Store at Chennai.</p> <p>Construction of Building for Divisional Office, Workshop & Store at Jodhpur</p> <p>1. Design & Development of Web based Application for e-Governance activities</p> <p>2. Procurement of Personal Computers & Peripherals</p> <p>To strengthen the working environment with a view to providing prompt, responsive and transparent governance. Dissemination of citizen centric information on the water related issues</p> <p>To procurement of computers, printers, scanners, Laptop, Multi-function machine, Digital copiers etc., consumable items.</p> <p>3. Provision of necessary infrastructure of IT Plan in MoWR</p>		<p>Workshop for Division-XII at Bhopal.</p> <p>Regional & Divisional Office at Ahmedabad</p> <p>Divisional Office, Workshop & Store Division-II at Ambala.</p> <p>Boundary Wall, building for Office, Workshop & Store for Region & Division at Jammu.</p> <p>Boundary Wall and Building for RGNGWTRI (RGI) at Raipur.</p> <p>Building for Divisional Workshop & Store at Chennai.</p> <p>Building for Divisional, Workshop & Store at Jodhpur.</p> <p>Procurement of 200 Personal Computers Printers, MS Office, Antivirus & UPS</p> <p>Development/Redesigning the Website of the Ministry in compliance with Guidelines for Indian Government Websites</p>	<p>various rooms of MoWR, S.S. Bhawan to next year.</p>	<p>progress.</p> <p>Work completed and Divisional Workshop/Store is shifting to new building.</p> <p>Mostly all the works have been completed except some works (water tank and lifts faciaetc) and maximum work of electrical except the work of lift has been completed</p> <p>On receipt of Ministry's approval the work shall be started.</p> <p>Proposal is awaited from CGWB.</p> <p>On receipt of Ministry's approval the work shall be started.</p> <p>200 Nos of Personal Computers and printers have been procured through DGS&D</p> <ul style="list-style-type: none"> A comprehensive 	<p>awaited.</p> <p>To strengthen the working environment with a view to providing prompt, responsive and transparent governance. Dissemination of citizen centric information on the water related issues.</p>

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2014-15	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.12.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
		4. Land & Building		<p>(GIGW)</p> <p>Implementation of identified IT/e-Governance applications under the Roadmap project or mandated to be implemented by Government of India</p> <p>Procurement up-gradation and maintenance of latest IT hardware and software besides networking of database to facilitate e-Gov.</p> <p>Computers- 104, Printers-60,</p> <p>UPS- off line-84, MFM-3, Digital multifunction-2,</p> <p>Photocopier-6, Set making Collator Machine-1.</p>		<p>Website detailing all information about the work beng done by the Ministry and the Water Resources available in the country has been designed and operationalized for use of the people/experts in the field of water resources. The new Website of this Ministry has been launched by NIC o 11/6/2014.</p> <ul style="list-style-type: none"> • Facebook page of the ministry hosted on 12/11/2014. • Prepared/uploaded an e-Book containing major activities and achievements of the Ministry on 26/12/2014. • Hardware for enhancing e-Governance capacity of the Ministry containing computers, printers, UPS etc. procured from e-Governance Budget Head. 	

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1	2	3	4	5	6	7	8
						<p>Procurement Desktop and peripherals, Purchase of Photocopiers Machine, 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.</p> <p>Renovation of canteen, Parking space, Shade at in and out gates S.S. Bhawan..</p>	
8	River Basin Management		250.00				
a	River Basin Organisation	Scheme under approval stage	1.00				
b	Investigation of Water Resources Development Schemes	To carry out activities related to survey, field Investigations in respect of preparation of Detailed Project Reports (DPRs), Feasibility Reports (FRs) of river link proposals & preparation of Prefeasibility Reports (PFRs) / FRs / DPRs of intra-State link proposals and	105.00	(a) Survey & Investigations for preparation of Feasibility Report under Inter Basin Water Transfer Proposals			Permission is required from neighbouring countries of Nepal & Bhutan for
				1. Manas – Sankosh – Tista –	December, 2016		

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2014-15	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.12.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
		activities considered incidental, supplementary or conducive to the attainment of above objectives.		Ganga (M – S – T – G) 2. Sone dam – STG link 3. Kosi – Ghaghra link	March, 2017 Out of 429 Km of link length, 278 Km lies in Nepal. Topographical Surveys for remaining 151 km in Indian Portion will be completed by March, 2016.		carrying out Survey & Investigations in their territories for Manas – Sankosh – Tista – Ganga and Kosi – Ghaghra links. NWDA through MOWR is pursuing the matter with MEA for expediting the dialogue with neighbouring countries. In view of this, the target date of completion for all the Himalayan links may not be fixed. NWDA has carried out alternative

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2014-15	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.12.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
							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 Reserve and Buxa Tiger Reserve and other Forests will be avoided. Therefore, NWDA is concentrating on the alternative alignment of MSTG link which merges both MSTG and JTF alignments.
				(b) Preparations of DPR of Par-Tapi-Narmada (PTN) link. (c) Preparation of	March, 2015.		A DPR normally takes 3-4 years for

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1	2	3	4	5	6	7	8
				<p>Prefeasibility Reports of intra – State link proposals, as proposed by State Govts.</p> <p>(i) Pairy-Mahandi link (Chhattisgarh)</p> <p>(ii) Kosi-Adhwara-Bagmati link (Bihar).</p> <p>(d) Preparation of DPR of intra-State links</p> <p>(i) Ponnaiyar-Palar link of Tamil Nadu.</p> <p>(ii) Wainganga (Gosikhurd) – Nalganga (Purna Tapi) link of Maharashtra.</p> <p>(iii) Barakar-Damodar-Subarnarekha link of Jharkhand..</p> <p>(iv) Vamsadhara – Rushikulya link of Odisha</p>	<p>March, 2015</p> <p>March, 2015</p> <p>July, 2015.</p> <p>March, 2016.</p> <p>March, 2017</p> <p>March, 2017</p>		preparation.
c	Re-Structuring of CWC	Scheme under approval stage (not recommended by EFC).	1.00				
d	Brahamaputra Board	<p>✓ ‘Survey & Investigation’ and Preparation of-</p> <ul style="list-style-type: none"> ○ Master Plan ○ DPRs for Drainage Development 	143.00	<p>✓ Survey & Investigation’ and Preparation of-</p> <ul style="list-style-type: none"> ○ 3 Master Plans ○ DPRs of DDS 	Activities implemented by Brahmputra Board.	<p>✓ ‘Survey & Investigation’ and Preparation of-</p> <ul style="list-style-type: none"> ○ Preparation of 3 Master Plans 	

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1	2	3	4	5	6	7	8
		<p>Schemes</p> <ul style="list-style-type: none"> ○ DPRs for Multipurpose project <p>✓ Execution of Anti-erosion schemes & Flood Management Schemes</p> <p>✓ Execution of Drainage Development Schemes</p> <p>✓ Operation & maintenance and up-gradation of NEHARI</p> <p>✓ Construction of H.Q. Complex and R&M of assets created by the Board</p> <p>✓ Construction of raised platforms</p> <p>Feasibility studies of channalisation of river Brahmaputra</p>		<ul style="list-style-type: none"> ○ DPR of Kulsi MP Project <p>✓ Execution of Anti-erosion schemes & Flood Management Schemes</p> <ul style="list-style-type: none"> ■ Protection of Majuli Island- Phase-II & III - 33.52% ■ Avulsion of Brahmaputra at Dhola Hatighuli-Phase- IV -0.2% ■ Balat Village, Meghalaya- 35% ■ Mankachar, Kalairalga, Assam- 50% <p>Masalabari area, Assam- 50%</p> <p>✓ Execution of Drainage Development Schemes</p> <ul style="list-style-type: none"> ○ 25% works of Barbhag DDS ○ 30% works of Amjur DDS ○ 50% of Jengrai ○ 35% of Jakaichuk <p>✓ R & M of NEHARI</p> <p>✓ R&M of assets created by the Board</p> <p>✓ completion of</p>		<ul style="list-style-type: none"> ○ are in progress ○ Preparation of 2 DPRs of DDS are in progress ○ DPR of Kulsi MPP completed <p>✓ Execution of Anti-erosion schemes & Flood Management Schemes</p> <ul style="list-style-type: none"> ■ 7.59% of phase-II & III works of protection of Majuli Island completed ■ Additional works under Phase –IV works are in progress <p>Tendering process for execution have been initiated for these three schemes</p> <p>✓ Execution of Drainage Development Schemes</p> <ul style="list-style-type: none"> ○ Due to dewatering problem in 	

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2014-15	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.12.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
				<p>construction of 4 raised platforms</p> <p>Feasibility studies of channalisation of river Brahmaputra</p>		<p>Barbhag DDS progress is nil</p> <ul style="list-style-type: none"> ○ Due to revision of DPR the progress of Amjur DDS is held up ○ Tender invited for execution of construction of sluice of Jengrai DDS ○ 10% of Jakaichuk DDS completed <p>✓ Continued</p> <p>✓ Continuing Activity</p> <p>✓ construction of 4 raised platforms completed</p> <p>✓ Continued</p>	
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.	175.00	<p>(i) Continuation of Joint Hydrological observations on river Ganga with Bangladesh, and</p> <p>(ii) Transmission of flood related data from/ to neighbouring countries</p> <p>(iii) Preparation of Joint Detailed Project Reports (DPR).</p>	Implemented by Central Water Commission, Ganga Flood Control Commission, and State Governments of Bihar, Uttar Pradesh, Tripura, West Bengal, Jammu & Kashmir, Punjab, Himachal	<p>(i) Continued Joint Hydrological observations on river Ganga with Bangladesh, and</p> <p>(ii) Transmission of flood related data from/ to neighbouring countries continued</p> <p>(iii) The work of Preparation of Joint</p>	

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2014-15	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.12.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
				(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).	Pradesh, Uttrakhand and UTs.	Detailed Project Reports (DPR) of Sapta Kosi Sun Kosi projects continued. The works could not progress due to local law and order problems. (iv) 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.	
10	Farakka Barrage Project	<ul style="list-style-type: none"> • Operation and maintenance of Barrage and allied structure including protective measures for safety of the barrage • Maintenance and protective measures of Feeder Canal and allied structures including navigational lock etc • Operation and maintenance of Jangipur Barrage - Gates & allied structures, protection measures for afflux bund of River Ganga/Padma • Maintenance of townships at Farakka, Jangipur & Khejuriaghat, Barrage Hospital, 	150.00	<ul style="list-style-type: none"> • Operation & maintenance works are not quantifiable. • Regular & Emergent Anti Erosion works executed along Ganga/Padma & tributories u/s & d/s of Farakka Barrage in the length of 6540m. 	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 will complete has done anti-erosion works in some reaches of Hussainpur, Chakbahadurpur, Kulidiara, 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	During the year 2014-15, an amount of Rs.65.72 crore has been incurred against RE 2014-15 of Rs.85.00 crore.

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1	2	3	4	5	6	7	8
		<p>FBP HS School,Roads, Buildings, Drains, Water Supply System, Electrical Works, Vehicles, Equipments etc</p> <ul style="list-style-type: none"> • Anti erosion & Flood management works along river Ganga/Padma in the u/s & d/s of Farakka Barrage and tributaries of river Ganga in North Bengal including Bhutni Diara. 				implementation of India -Bangladesh Treaty (1996) for sharing of Ganga Water during lean period by controlling discharge at Farakka.	
11	Implementation Of National Water Mission(NWM)-New Scheme	The Ministry of Water Resources established the National Water Mission (NWM) on the recommendations of the National Action Plan on Climate Change (NAPCC). The main objective of the 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”. There are five goals of the Mission and various strategies formulated for carrying out the work during 12 th Plan.	40.00	<ol style="list-style-type: none"> 1.National Water Mission Directorate 2. Preparation of State Specific Action Plans 3. Human Resource Development and Capacity Building 4. Setting up of National Bureau of Water Use Efficiency (NBWUE) 5. Baseline studies 6. Preparation of Demonstrative/benchmarking projects 	31.03.2015	<p>Expenditure, Rs. 0.62 crore upto 31st December, 2014.</p> <p>1.Establishment of National Water Mission is in progress in the Ministry National Water Mission is headed by a Mission Director in the rank of Additional Secretary to the Government of India and is supported by two Advisors (Adviser, Coordination & Monitoring and Adviser, Technical) with supporting staff.</p> <p>2. Formulation of proposal for State Specific Action Plans</p>	<p>Implementation of NWM – XII Plan is new Central Sector Scheme. The Scheme was approved by DoE, MoF on 25.10.2013 and sanction order issued on 27.11.2013.</p> <p>NWM activities have been initiated.</p>

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1	2	3	4	5	6	7	8
						<p>for four States, namely, Maharashtra, Karnataka, Uttrakhand and Tripura through WAPCOS Ltd. is under process.</p> <p>3. NWM formulated MoUs with the NIRD & PR, LBSNAA, CWRDM, NWA, RGNGWTRI, TISS for training capacity building of multi-stakeholders.</p> <p>4. A proposal for setting up of NBWUE is under process in the Ministry.</p> <p>5. Proposal for conducting baseline studies in irrigation sector through WALMI, Aurangabad, WALAMTARI, Hyderabad, NERIWALAM, Tejpur and DWM, Bhubaneswar is under process.</p> <p>6. Demonstration/ benchmarking projects shall be undertaken in water sector. NWM has initiated actions for undertaking demonstration projects in irrigation sector in</p>	

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2014-15	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.12.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
						consultation with State Governments.	
12	Irrigation Management Programme	Incentivizing States for improvement in Irrigation Management	1.00	(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	A questionnaire for “Evolving Benchmark For State Specific Water Sector Reforms And Methology For Assessment Of State’s 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 receipts of response from	The scheme has not been approved.	

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1	2	3	4	5	6	7	8
					the States.		
13	Dam Rehabilitation and Improvement Project (DRIP)	Coordination and Supervision of DRIP activities in participating states and Dam Safety Institutional Strengthening of CWC	30.00	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.	<ol style="list-style-type: none"> 1. Design Flood Review of 50 DRIP dams. 2. Inspection of 22 dams by Dam Safety Review Panel (DSRP); inspection of 40 dams by Dam Safety Experts of Central Project Management Unit; and inspection of 10 dams by Quality and Construction Expert of CPMU. 3. Approval of Project Screening Template (on line of Detailed Project Report) for 40 dams. 4. Approval of tender documents for 9 dams; award of work for 6 dams. 5. Organizing total of 11 trainings on different aspects of dam safety, emergency action plan, procurement procedures, and allied areas benefitting about 	Total fund utilization in DRIP upto December 2014 is amounting to Rs. 7.107 Crore against the RE of Rs. 14.30 crore.

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1	2	3	4	5	6	7	8
						<p>300 officials.</p> <p>6. Preparation of four draft guidelines, namely on “Emergency Action Plan”, “Dam Break Analysis of Dam”, “Guidelines for Earthquake Resistant Rehabilitation Design of Solid and Earth fill Dams” and “Hazard categorization of Large dams”.</p> <p>7. Website on DRIP (http://damsafety.in/) for dissemination of information to general public; promoting cross learning of implementing agencies with sharing of all DRIP implementation related documents; capturing status of work flows; and uploading of final key documents along with capturing of meta data for analysis.</p> <p>8. Implementation of</p>	

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1	2	3	4	5	6	7	8
						<p>Quality Management System for Central Dam Safety Organisation linked with ISO certification targeted by April 2015.</p> <p>9. Karnataka included in DRIP as new State for rehabilitation of their 27 dams.</p>	
14	Bodwad Parisar Sinchen Yojana of Maharashtra	Grant is released to State Government.	200.00	Grants will be released to State Governments as per their demands. Quantifiable outputs are: (i) Area covered, (ii) Central assistance	1 st April, 2015 to 31 st March, 2016. Progress monitored on quarterly basis.	Coverage of Area for creation of irrigation potential.	
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 potential of 960 Mega Watt (MW). It also	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.	

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1	2	3	4	5	6	7	8
				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.			
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	The WB assisted and JICA assisted project at Varanasi are included here. Uder JICA assisted Yamuna Action plan at Delhi 10 projects will be sanctioned targeting rehabilitation of 950 mld STP capacity NON EAP Projects under NGRBA have been included here. The ongoing non EAP projects on Ganga & its tributaries are recently transferred from MoEF&CC to MoWR, RD & GR and under implementation.	Projects identified under NGRBA program are scheduled to be completed by 2020. Projects under JICA assisted Yamuna Action Plan III are scheduled to be completed by 2018. These projects will be completed by 2020.	The projects and activities under this plan include pollution abatement measures for different sources of pollution, river front development, Afforestation and conservation of aquatic life, Communication and public outreach, water quality monitoring etc. and enforcement of standards and other policy initiatives for ensuring Aviral and Nirmal Ganga.	
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	74 schemes in 49 towns in five Ganga States, 5 institutional development projects and 1 one implementation support project including Automatic Water Quality Monitoring	Timeline for completion of projects under NGRBA including the projects proposed under 'Namami	The projects and activities under this plan include pollution abatement measures for different sources of pollution, river front development,	

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1	2	3	4	5	6	7	8
				and Ganga Knowledge Center have been sanctioned. Treatment capacity of 702.23 mld (including 64 mld for rehabilitation of old STPs) shall be created on implementation of these projects, of which a treatment capacity of 123 mld has been created so far. During 2015-16, sewage treatment capacity of 126.5 mld has been targeted under NGRBA.	Gange' has been has been indicated for the year 2020 to abate pollution of river Ganga, particularly through the interventions to be made under short and medium term action plans. However, the interventions under long term action plan shall be based on the Ganga River Basin Management Plan of the IIT Consortium, 1st draft of which has been received on 31st January, 2015 and presently under examination in the ministry.	Afforestation and conservation of aquatic life, Communication and public outreach, water quality monitoring etc. and enforcement of standards and other policy initiatives for ensuring Aviral and Nirmal Ganga.	
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	The scheme is under approval stage.			

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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	7 towns have been identified for the proposed ghat development / riverfront projects, DPR for which are under preparation.	These projects will be completed by 2020.	The projects and activities under this plan include pollution abatement measures for different sources of pollution, river front development, Afforestation and conservation of aquatic life, Communication and public outreach, water quality monitoring etc. and enforcement of standards and other policy initiatives for ensuring Aviral and Nirmal Ganga.	
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			Rs. 270 crore has been transferred to NCT of Delhi for the water projects.	
22	Accelerated Irrigation Benefit & Flood Management Programme						
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)	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.	Progress monitored on quarterly basis.	The State Governments have been provided an amount of Rs.66994.74 crores CLA/Grant under AIBP since inception of this programme till 26.12.2014 for 296	

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2014-15	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.12.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
		Create additional irrigation potential and (B) Derive envisage benefits from these projects.				major/medium irrigation projects and 16538 Surface minor irrigation schemes. So far, 143 major/medium and 12357 Surface MI Schemes have been completed. The irrigation potential of 80.552 lakh ha has been created upto March, 2012. 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.11600.06crore.	
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 Government as per their demands. Quantifiable outputs are: 1) Irrigation potential of 0.5 million hec. Is targeted for creation. 2) Central assistance released.	Progress monitored on quarterly basis.	Since its inception in 1974-75 upto March, 2014, CCA of about 20.8 Mha has been covered. Central Assistance of	

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2014-15	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.12.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
						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.	
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 a Central Assistance for restoration of about 10 thousand water bodies in XIIth Plan.	Progress monitored on quarterly basis.	Progress depends on receipt of proposals in complete respect from the States.	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

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2014-15	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.12.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
							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.
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 project completion schedule would be generally 2 to 4 years.	The Central Assistance would 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 central assistance of Rs. 572.85 crore was released under the Programme in the years 2012-13 and 2013-14 of XII Plan towards ongoing and new works.	
		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	1000.00	Scheme transferred to Min of Agriculture. Some components are implemented			

Sl.No.	Name of Scheme/ Programme	Objective/ Outcome	B.E. 2014-15	Quantifiable Deliverables/ physical outputs	Process/ Timelines	Achievements w.r.t Col (5) as on 31.12.2014	Remarks/ Risk Factor
1	2	3	4	5	6	7	8
		<p>programme will be somewhat similar to existing surface</p> <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 & 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>		by MoWR, RD & GR. . Scheme under approval stage.			
		GRAND TOTAL	14737.00				

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.66994.74 crores CLA/Grant under AIBP since inception of this programme till 26.12.2014 for 296 major/medium irrigation projects and 16538 Surface minor irrigation schemes. So far, 143 major/medium and 12357 Surface MI Schemes have been completed. The irrigation potential of 80.552 lakh ha has been created upto March, 2012.

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.11600.06crore.

Continuation of AIBP in 12th plan

The Scheme AIBP has been approved for implementation in 12th plan by Cabinet Committee on Economic Affairs in its meeting held on 12.09.2013. During the 12th 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.

Sl No	Activities	Revised Target (Lakh ha) as per MTA Document
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	32
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	36

	potential utilised	
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AIBP in 12th Plan Policy changes

Some of the main policy changes include:

1. Pari-Passu implementation of AIBP & CAD&WM works.
2. Ongoing and 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 benefiting 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 7th February 2008 has given its consent to the proposal of the Ministry of Water Resources on Implementation of National Projects with central assistance of 90% of the cost of the project as grant falling in the following selection criteria:

- (i) International projects where usage of water in India is required by a treaty or where planning and early completion of the project is necessary in the interest of the country.
- (ii) Inter-State projects which are dragging on due to non-resolution of inter-State issues relating to sharing of costs, rehabilitation, aspects of power production etc., including river interlinking projects.

- (iii) Intra-state projects with additional potential of more than 2, 00,000 ha. and with no dispute regarding sharing of water and where hydrology is established

Recently, modification in the Guide lines of the schemes of National Projects has been made in September 2012. As per the modification, Extension, Renovation and 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), Shahpur Kandi Project (Punjab) and Saryu Nahar Pariyojana (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 estimated Cost of the Project (Rs. in Crore)	Total Potential (In Lakh ha.)	Cumulative potential created (in Lakh ha)	Total Expenditure on Project (Rs. in Crore)	Central Assistance released under National Project (Rs. In Crore)	Schedule period of Starting/ completion of Project
1	Gosikhurd	Maharashtra	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 (proposed to extend upto March, 2015)

2	Shahpur Kandi	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	Saryu Nahar Pariyojna	Uttar Pradesh	7270.32	14.04 (target under National Project is 4.37 lakh ha)	9.364 (O.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 March, 2014, CCA of about 20.8 Mha has been covered.

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 revised physical target is coverage of CCA of 3.6 Mha.

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 1098 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 2015-16, a budget provision of Rs.4200 crore under AIBFMP has been proposed for FMP to cover on-going liabilities also.

Ministry of Water Resources, River Development & Ganga Rejuvenation

State of Outlay and Outcomes/Targets (2015-16)

(Rs. in Crores)

Sl. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2015-16 (Rs.Crore)			Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk Factors
			(i) Non-Plan Budget	(ii) Plan Budget	(iii) Complimentary Extra-Budgetary Resources				
1	2	3	4			5	6	7	8
			(i) Non-Plan Budget	(ii) Plan Budget	(iii) Complimentary Extra-Budgetary Resources				
1.	Accelerated Irrigation Benefits Programme (AIBP)	To complete ongoing Major, Medium & Minor irrigation/multipurpose projects/National Project (including Polavaram) 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	Polavaram - 100 AIBP-250+1(NE)	0.0	Irrigation Potential of 0.6 million hectares is targeted for creation. 5Nos. of major/medium irrigation projects and 1000 MI schemes are targeted for completion.	Coverage of area for creation of irrigation potential	1 st April, 2015 to 31 st March, 2016. 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	194.8 +173.2 (NE)+29.0(Tribal) =397	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	Coverage of CCA for utilisation of irrigation potential created.	1 st April, 2015 to 31 st March, 2016. Progress monitored on quarterly basis.	Progress depends on receipt of proposals in complete respect from the States.

						creation. (ii) Central assistance released.			
3.	RRR	Grant is released to State Governments under RRR Programme	0.0	150 +1(NE)	0.0	Grants released to State Governments as per their demands. Quantifiable outputs are: (i) Irrigation Potential of 0.5 lakh hectares is targeted for creation by completing RRR of 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 st April, 2015 to 31 st March, 2016. Progress monitored on quarterly basis.	Progress depends on receipt of proposals in complete respect from the States.
			Sub-Total	899					
4.	Bodwad Parisar Sinchan Yojana	Grant is released to State Governments	0.0	1	0.0	Grants 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	1 st April, 2015 to 31 st March, 2016. Progress monitored on quarterly basis.	Progress depends on receipt of proposals in complete respect from the States.
			Total	900.00					

STATEMENT SHOWING DETAILS OF MINISTRY OF WATER RESOURCES BUDGET VIS-À-VIS XI PLAN OUTLAY											ANNEXURE - IV (Chapter-V)	
(Rs. in Crore/Net)												
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
Major & Medium Irrigation												
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 Water Resources Information	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
Total: Major and Medium Irrigation			132.50	88.99	209.90	145.79	219.20	169.50	251.00	172.46	277.19	189.85
Minor Irrigation												
Surface Water Schemes												
10. Ground Water Management and Regulation	460.00	2702	62.00	48.11	95.00	54.37	70.00	68.82	100.00	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
Total: Minor Irrigation			68.05	49.98	104.10	57.08	76.50	72.75	116.50	90.97	134.40	141.37
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
Total: CAD & WM			300.00	277.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Flood Control Sector												
14. Flood Forecasting	130.00	2711	16.00	13.91	23.00	13.68	25.00	17.38	36.00	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. Paqgladia 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
Total: Flood Control Sector			66.45	68.24	211.00	196.33	234.30	181.09	250.50	213.02	238.01	174.84
Transport Sector												
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
** Total allocation for XI Plan	115.00											
\$\$ Scheme has been transferred to State Sector w.e.f. 2008-09												
Grant Total	3246.00		600.00	516.04	600.00	453.23	600.00	492.29	700.00	520.47	720.00	575.52

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

(Rs. in Crore/Net)

Sector / Orgn / Scheme	XII Plan	Heads of	B.E.	R.E.	Actual	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	2014-15	31.12.2014	2015-16
Central Sector Schemes												
I. Medium Irrigation												
1. Research & Development Programme	360.00	2701	100.00	35.00	31.37	50.00	35.00	31.36	50.00	34.55	21.35	30.00
2. Development of Water Resources Information System	##	2701	84.99	40.00	38.30	149.98	43.00	42.65	225.38	79.99	62.73	80.99
3. Infrastructure Development	\$\$	2701	3.20	1.50	1.41	2.55	1.30	1.07	2.90	1.92	1.20	2.00
4. Hydrology Project	120.00	2701	70.00	43.72	37.9	70.00	50.00	40.73	31.38	24.55	24.55	10.00
5. Human Resource Development/Capacity Building	**	2701	85.00	29.90	11.09	85.00	24.50	20.48	43.00	23.10	13.46	22.00
6. River Basin Management	&&	2701	110.00	57.40	58.67	100.00	65.00	64.87	107.00	78.00	55.62	45.20
7. Implementation of National Water Mission	1390.00	2701	200.00	0.25	0.00	110.00	2.00	0.71	40.00	1.45	0.56	20.00
8. Irrigation Management Programme	6000.00	2701	100.00	0.75	0.24	40.00	0.10	0.00	1.00	0.00	0.00	1.00
9. Dam Rehabilitation and Improvement Programme (DRIP)	120.00	2701	24.00	2.30	0.43	36.00	9.00	4.60	30.00	14.30	7.17	29.00
10. Bodwad Parisar Sinhan Yojana		2701	0.00	0.00	0.00	0.00	12.40	0.00	200.00	66.67	66.66	1.00
11. Impact Study Assessment of Project (AIBFMP)		2701	0.00	0.00	0.00	0.00	0.00	0.00	50.00	0.05	0.02	5.00
12. Polavaram Project Authority (new scheme from 2014-15)		2701	0.00	0.00	0.00	0.00	0.00	0.00	250.00	250.00	0.00	100.00
13. DPR for interlinking of Rivers		2701	0.00	0.00	0.00	0.00	0.00	0.00	100.00	10.00	0.00	100.00
Total: Medium Irrigation			777.19	210.82	179.41	643.53	242.30	206.47	1130.66	584.58	253.32	446.19
II. Minor Irrigation												
Surface Water Schemes												
14. Ground Water Management and Regulation	3539.00	2702	318.00	180.00	118.28	275.00	140.00	80.40	325.00	143.00	57.67	163.00
15. Human Resource Development/Capacity Building	**	2702	15.00	9.00	6.09	9.00	7.00	5.11	7.00	6.00	3.35	7.00
16. Infrastructure Development	\$\$	4702	39.80	6.93	3.45	28.00	7.70	3.43	48.60	5.49	0.61	9.00
17. Development of Water Resources Information System	##	2702	0.01	0.00	0.00	0.02	0.00	0.00	0.02	0.01	0.00	0.01
Total: Minor Irrigation			372.81	195.93	127.82	312.02	154.70	88.94	380.62	154.50	61.63	179.01
III. Flood Control Sector												
18. Flood Forecasting	794.00	2711	48.00	30.00	25.21	150.00	25.00	24.67	100.00	30.00	22.57	50.00
19. Infrastructure Development	\$\$	4711	12.00	6.57	4.99	19.45	11.00	5.80	28.50	17.10	1.43	6.00
20. River Management Activities and works related to Border	763.00	2711	125.00	30.00	25.99	125.00	67.00	30.03	175.00	115.26	65.10	102.00
21. River Basin Management	&&	2711	90.00	76.68	76.00	100.00	85.00	85.00	143.00	80.00	47.67	73.80
Total: Flood Control Sector			275.00	143.25	132.19	394.45	188.00	145.50	446.50	242.36	136.77	231.80
IV. Transport Sector												
22. Farakka Barrage Project	558.00	5075	75.00	100.00	73.56	150.00	115.00	89.82	150.00	85.00	65.72	100.00
V. Ecology and Environment (New Schemes 2014-15)												
24. National River Conservation Plan		3435	0.00	0.00	0.00	0.00	0.00	0.00	537.00	453.00	6.52	550.00
25. National Ganga Plan (met from balance under NCEF)		3435	0.00	0.00	0.00	0.00	0.00	0.00	1500.00	1500.00	0.00	2100.00
		3435	0.00	0.00	0.00	0.00	0.00	0.00	-1500.00	-1500.00	0.00	-2100.00

(Rs. in Crore/Net)

Sector / Orgn / Scheme	XII Plan	Heads of	B.E.	R.E.	Actual	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	2014-15	31.12.2014	2015-16
26. Ghat works for beautification of River fronts		3435	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	100.00
27. Water Projects for NCT		3435	0.00	0.00	0.00	0.00	0.00	0.00	500.00	500.00	270.00	0.00
Total: Ecological and Environment			0.00	0.00	0.00	0.00	0.00	0.00	1137.00	1053.00	276.52	650.00
VI. Centrally Sponsored Schemes												
20. Accelerated Irrigation & Flood Management Programme		3601 & 2552	0.00	0.00	0.00	0.00	0.00	0.00	8992.22	3276.56	2653.67	1000.00
14. Pradhan Mantri Krishi Sinchai Yojana		2552	0.00	0.00	0.00	0.00	0.00	0.00	50.00	0.00	0.00	100.00
		3601	0.00	0.00	0.00	0.00	0.00	0.00	950.00	4.00	0.00	900.00
Total: Centrally Sponsored Schemes			0.00	0.00	0.00	0.00	0.00	0.00	9992.22	3280.56	2653.67	2000.00
Grant Total	18118.00		1500.00	650.00	512.98	1500.00	700.00	530.73	13237.00	5400.00	3447.63	3607.00
## Development of Water Resources Information System	2247.00											
\$\$ Infrastructure Development	337.00											
** Human Resource Development/Capacity Building	610.00											
&& River Basin Management	1280.00											