



(2012-2013)

Section 1: Vision, Mission, Objectives and Functions

Vision

Accurate assessment of water resources alongwith optimal and sustainable development, while ensuring maintenance of quality and efficient use so as to match with the growing demands of the country

Mission

To make an accurate assessment and to make the same available to citizens of the country. To develop policies, programmes and practices, which would enable the efficient and effective use of the country's water resources in an equitable and sustainable manner with active involvement of all stakeholders. To develop policies, programmes and practices, which would enable mitigation of floods and control the river bank and coastal erosions. To put into place systems and practices, which would result in sustained increase in water use efficiency. To actively engage with the neighbouring countries and the international community for the harmonious development and utilization of water resources. To disseminate information, skills and knowledge, which would help in capacity building and mass awareness

Objective

- 1 Implementation of National Water Mission
- 2 Alignment of Acts to present day needs
- 3 Inter basin transfer of waters / Investigation of schemes
- 4 Creation of irrigation potential and Reducing Gap between the IPC & IPU
- 5 Ground Water Management & Regulation
- 6 Research & development and Capacity Building
- 7 Benchmarking of R&D; institutions against international standards and technological Up-gradation
- 8 River Management Activities and Works related to Border Areas
- 9 Flood Forecasting
- 10 Awareness generation programme
- 11 Independent review / evaluation of XI Plan activities of organizations /Schemes
- 12 Development of Water Resource Information system
- 13 Reducing the Gap between the IPC and IPU
- 14 Irrigation Management Programme incentivizing reforms in water sectors
- 15 Hydrology Project Phase II
- 16 Farakka Barrage Project

Section 1: Vision, Mission, Objectives and Functions

- 17 Brahmaputra Board
- 18 Water Quality Management

Functions

- 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 Regulation and development of inter-State rivers and river valleys. Implementation of Awards of Tribunals through Schemes, River Boards.
- 4 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 hydropower; 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; and dam safety.
- 5 Water Laws, legislation.
- 6 Water quality assessment
- 7 International organizations, commissions and conferences relating to water resources development.
- 8 International Water Law
- 9 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
- 10 Bilateral and external assistance and cooperation programmes in the field of water resources development

Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%
[1] Implementation of National Water Mission	14.00	[1.1] Comprehensive water database in public domain and assessment of the impact of climate change on water resources	[1.1.1] Award of Work for 20 studies for downscaling of Climate Change models to assess the impact for 20 major river basins	Nos	2.00	20	18	16	14	12
		[1.2] Updation of existing layers in water resources information System for both ground and surface water	[1.2.1] Updation of GIS based existing layers and putting all data upto 31/12/2012 in Public Domain	Date	2.00	31/12/2012	31/01/2013	28/02/2013	15/03/2013	31/03/2013
		[1.3] Conduct of Pilot Census of Minor irrigation Schemes in Gujarat State using new methodology as suggested by NISG	[1.3.1] Completion of Minor Irrigation Census in the state	Date	2.00	31/12/2012	31/01/2013	28/02/2013	15/03/2013	31/03/2013
		[1.4] Promotion of citizen and state action for water conservation, augmentation and preservation	[1.4.1] Preparing a Training Module for sensitization of all Panchayat members and their functionaries	Date	2.00	31/12/2012	31/01/2013	28/02/2013	15/03/2013	31/03/2013
		[1.5] Increasing water use efficiency	[1.5.1] Selection of Demonstrative & benchmarking for 5 projects having minimum size of 10000ha for Increased water use efficiency by 20%	Date	2.00	30/09/2012	30/11/2012	31/01/2013	15/03/2013	31/03/2013
			[1.5.2] Award of Work for preparation of 5 DPRs for Demonstrative & benchmarking	Date	2.00	30/11/2012	31/12/2012	31/01/2013	28/02/2013	31/03/2013

Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%
[2] Alignment of Acts to present day needs	6.00	[1.6] Promotion of basin level and integrated water resources management	projects [1.6.1] Finalization of National Water Policy (2012) by National Water Council	Date	2.00	31/12/2012	31/01/2013	28/02/2013	15/03/2013	31/03/2013
		[2.1] Preparation of Cabinet Note for Inter State River Water Disputes Act, 1956	[2.1.1] Preparation and Submission of Cabinet- Note	Date	3.00	31/07/2012	31/08/2012	30/09/2012	31/10/2012	30/11/2012
		[2.2] Formulation of proposal for Review of River Boards Act, 1956	[2.2.1] Preparation and Submission of Draft Cabinet Note	Date	3.00	31/12/2012	31/01/2013	28/02/2013	15/03/2013	31/03/2013
[3] Inter basin transfer of waters / Investigation of schemes	4.00	[3.1] Survey & Investigation of new projects in different states including Morphological studies	[3.1.1] FRs of 6 intra-state links in different areas	Date	2.00	10/03/2013	15/03/2013	20/03/2013	25/03/2013	31/03/2013
			[3.1.2] DPR of 2 intra-state links	Date	2.00	10/03/2013	15/03/2013	20/03/2013	25/03/2013	31/03/2013
[4] Creation of irrigation potential and Reducing Gap between the IPC & IPU	13.00	[4.1] Preparation of Cabinet note for AIBP/CAD projects	[4.1.1] preparation of Cabinet Note	Date	1.86	30/06/2012	15/07/2012	31/07/2012	15/08/2012	31/08/2012
		[4.2] Completion of Irrigation works under AIBP programmes	[4.2.1] Irrigation potential created under AIBP programmes	Mha.	2.79	1	0.9	0.8	0.7	0.6
		[4.3] Utilisation of Irrigation Potential under CAD programme	[4.3.1] Irrigation potential Utilised under CAD programmes	Mha	2.79	1	0.9	0.8	0.7	0.6
		[4.4] Implementation of three National Projects under AIBP	[4.4.1] EFC clearance and preparation of Cabinet Note	Date	1.86	28/02/2013	10/03/2013	20/03/2013	31/03/2013	--
		[4.5] Reducing the gap between IPC and IPU including RRR	[4.5.1] reducing gap	Mha	3.71	1	0.95	0.9	0.85	0.8

Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%
[5] Ground Water Management & Regulation	11.00	[5.1] Comprehensive assessment of ground water resources through aquifer mapping	[5.1.1] Sub-Surface survey for 6 pilot projects	Sq.KM	2.20	1800	1600	1400	1200	1000
			[5.1.2] Exploration and borehole geophysical logging	Nos.	2.20	100	90	80	70	60
		[5.2] Launch of National Projects on Aquifer mapping including Participatory ground water management	[5.2.1] EFC clearance and preparation of Cabinet Note	Date	2.20	28/02/2013	10/03/2013	15/03/2013	25/03/2013	31/03/2013
			[5.3.1] Recharging of over exploited Ground Water areas	Date	2.20	28/02/2013	10/03/2013	15/03/2013	25/03/2013	31/03/2013
[6] Research & development and Capacity Building	8.00	[5.4] Taking a Note to the Cabinet on treatment of contaminated ground water aquifer.	[5.4.1] Submission of Draft Cabinet Note on treatment of contaminated ground water.	Date	2.20	01/02/2013	15/02/2013	01/03/2013	15/03/2013	31/03/2013
		[6.1] Research on various aspects of water resources and to bring out technical reports / research papers in Indian & International journals of repute by various organizations namely NWA (CWC), NIH, CWPRS CSMRS and CGWB.	[6.1.1] Number of reports brought out / published	No.	2.00	190	171	152	133	114
			[6.1.2] Number of papers brought out / published	No.	2.00	290	261	232	203	174
		[6.2] Organization of training programmes by various organizations namely	[6.2.1] Number of training programmes organized	No.	4.00	80	72	64	56	48

Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%
[7] Benchmarking of R&D institutions against international standards and technological Up-gradation	5.00	NWA (CWC), NIH, CWMRS, CSMRS and CGWB.								
		[7.1] Procurement of final benchmarking report for NIH, CSMRS & CWMRS	[7.1.1] Procurement of reports	Date	1.00	31/12/2012	31/01/2013	28/02/2013	31/03/2013	--
		[7.2] Refinements of protocols for investigations for CGWB	[7.2.1] Refinements of protocols	Date	1.00	30/11/2012	31/12/2012	31/01/2013	28/02/2013	31/03/2013
		[7.3] Up-gradation of practices for ground water drilling for exploration	[7.3.1] Up-gradation of practices	Date	1.00	30/11/2012	31/12/2012	31/01/2013	28/02/2013	31/03/2013
		[7.4] Ground water modeling for development of implementable management plans	[7.4.1] Ground water modeling	Date	1.00	30/11/2012	31/12/2012	31/01/2013	28/02/2013	31/03/2013
[8] River Management Activities and Works related to Border Areas	8.00	[7.5] Strengthening infrastructures in terms of man power and equipments NIH/CSMRS /CWMRS/CGWB	[7.5.1] Strengthening of infrastructures – preparation of action plan	Date	1.00	31/10/2012	31/12/2012	28/02/2013	15/03/2013	31/03/2013
		[8.1] Hydrological observations and investigations of Water Resources Projects, Flood control, Anti-erosion & Drainage development works with neighboring countries.	[8.1.1] Completion of irrigation planning studies of Sapt-kosi project	Date	1.20	31/12/2012	31/01/2013	28/02/2013	15/03/2013	31/03/2013
			[8.1.2] Finalisation of communication survey of Sapt-kosi project	Date	1.20	31/12/2012	31/01/2013	28/02/2013	15/03/2013	31/03/2013
			[8.1.3] Finalisation of power evacuation study of Sapt-kosi project	Date	0.80	01/03/2013	10/03/2013	15/03/2013	25/03/2013	31/03/2013

Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent	Very Good	Good	Fair	Poor
						100%	90%	80%	70%	60%
[9] Flood Forecasting	6.00									
			[8.1.4] Erosion control works in Farakka Barrage Project	No.	0.80	4	3	2	1.5	1
			[8.1.5] Replacement of Gates of Farakka Barrage Project	No.	2.00	6	5	4	3	2
			[8.1.6] Majuli Island Flood protection and erosion Works for Phase II & III under Brahmaputra Board	%	2.00	43	36	32	28	24
[9.1] To collect real time data, its analysis and issue of flood forecasts. About 6000 forecasts are issued every year.	6.00		[9.1.1] Accuracy warning of the incoming flood to help in planning activities for reducing the damages from floods within 24 hours.	%	2.00	98	92	88	84	80
			[9.2.1] Completion of Works	No.	2.00	100	90	80	70	60
			[9.3.1] Installation of telemetry stations	No.	2.00	125	110	100	90	80
[10] Awareness generation programme	3.00		[10.1.1] Completion of India Water Week celebration 2012	Date	1.00	10/04/2012	11/04/2012	12/04/2012	13/04/2012	14/04/2012
			[10.2.1] Awareness among children on water conservation	Date	1.00	20/01/2013	31/01/2013	11/02/2013	21/02/2013	01/03/2013
			[10.3.1] Organising of workshops/seminars	No.	1.00	20	18	16	14	12

Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%
[1*] Independent review / evaluation of XI Plan activities of organizations /Schemes	7.00		assigned by MoWR							
		[11.1] For CWC, CSMRS, CWPRS and NIH	[11.1.1] Finalization of agency for award of the study	Date	2.33	30/11/2012	31/12/2012	31/01/2013	28/02/2013	31/03/2013
		[11.2] For AIBP, CAD and RRR	[11.2.1] initiation of the process	Date	2.33	30/11/2012	31/12/2012	31/01/2013	28/02/2013	31/03/2013
		[11.3] For FPARP – 2nd Phase	[11.3.1] submission of interim	Date	1.17	30/06/2012	31/07/2012	31/08/2012	30/09/2012	31/10/2012
			[11.3.2] Submission of final report	Date	1.17	30/09/2012	31/10/2012	30/11/2012	31/12/2012	31/01/2013
* Efficient Functioning of the RFD System	3.00	Timely submission of Draft for Approval	On-time submission	Date	2.0	05/03/2012	06/03/2012	07/03/2012	08/03/2012	09/03/2012
		Timely submission of Results	On- time submission	Date	1.0	01/05/2012	03/05/2012	04/05/2012	05/05/2012	06/05/2012
* Administrative Reforms	6.00	Implement mitigating strategies for reducing potential risk of corruption	% of implementation	%	2.0	100	95	90	85	80
		Implement ISO 9001 as per the approved action plan	Area of operations covered	%	2.0	100	95	90	85	80
		Identify, design and implement major innovations	Implementation of identified innovations	Date	2.0	05/03/2013	06/03/2013	07/03/2013	08/03/2013	09/03/2013
* Improving Internal Efficiency / responsiveness / service delivery of Ministry / Department	4.00	Implementation of Sevottam	Independent Audit of Implementation of Citizen's Charter	%	2.0	100	95	90	85	80
			Independent Audit of implementation of public grievance redressal system	%	2.0	100	95	90	85	80
* Ensuring compliance to the Financial Accountability Framework	2.00	Timely submission of ATNs on Audit paras of C&AG	Percentage of ATNs submitted within due date (4 months) from date of presentation of Report to Parliament by	%	0.5	100	90	80	70	60
* Mandatory Objective(s)										

Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%
			CAG during the year.							
		Timely submission of ATRs to the PAC Sectt. on PAC Reports.	Percentage of ATRS submitted within due date (6 months) from date of presentation of Report to Parliament by PAC during the year.	%	0.5	100	90	80	70	60
		Early disposal of pending ATNs on Audit Paras of C&AG Reports presented to Parliament before 31.3.2012.	Percentage of outstanding ATNs disposed off during the year.	%	0.5	100	90	80	70	60
		Early disposal of pending ATRs on PAC Reports presented to Parliament before 31.3.2012	Percentage of outstanding ATRS disposed off during the year.	%	0.5	100	90	80	70	60

* Mandatory Objective(s)

Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value FY 10/11	Actual Value FY 11/12	Target Value FY 12/13	Projected Value for FY 13/14	Projected Value for FY 14/15
[1] Implementation of National Water Mission	[1.1] Comprehensive water database in public domain and assessment of the impact of climate change on water resources	[1.1.1] Award of Work for 20 studies for downscaling of Climate Change models to assess the impact for 20 major river basins	Nos	--	--	18	--	--
	[1.2] Updation of existing layers in water resources information System for both ground and surface water	[1.2.1] Updation of GIS based existing layers and putting all data upto 31/12/2012 in Public Domain	Date	--	--	31/01/2013	--	--
	[1.3] Conduct of Pilot Census of Minor Irrigation Schemes in Gujarat State using new methodology as suggested by NISG	[1.3.1] Completion of Minor Irrigation Census in the state	Date	--	--	31/01/2013	--	--
	[1.4] Promotion of citizen and state action for water conservation, augmentation and preservation	[1.4.1] Preparing a Training Module for sensitization of all Panchayat members and their functionaries	Date	--	--	31/01/2013	--	--
	[1.5] Increasing water use efficiency	[1.5.1] Selection of Demonstrative & benchmarking for 5 projects having minimum size of 10000ha for Increased water use efficiency by 20%	Date	--	--	30/11/2012	--	--
		[1.5.2] Award of Work for preparation of 5 DPRs for Demonstrative & benchmarking projects	Date	--	--	31/12/2012	--	--

Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value FY 10/11	Actual Value FY 11/12	Target Value FY 12/13	Projected Value for FY 13/14	Projected Value for FY 14/15
[2] Alignment of Acts to present day needs	[1.6] Promotion of basin level and integrated water resources management	[1.6.1] Finalization of National Water Policy (2012) by National Water Council	Date	--	--	31/01/2013	--	--
	[2.1] Preparation of Cabinet Note for Inter State River Water Disputes Act, 1956	[2.1.1] Preparation and Submission of Cabinet-Note	Date	--	--	31/08/2012	--	--
	[2.2] Formulation of proposal for Review of River Boards Act, 1956	[2.2.1] Preparation and Submission of Draft Cabinet Note	Date	--	--	31/01/2013	--	--
[3] Inter basin transfer of waters / Investigation of schemes	[3.1] Survey & Investigation of new projects in different states including Morphological studies	[3.1.1] FRs of 6 intra-state links in different areas	Date	--	--	15/03/2013	--	--
		[3.1.2] DPR of 2 intra-state links	Date	--	--	15/03/2013	--	--
[4] Creation of irrigation potential and Reducing Gap between the IPC & IPU	[4.1] Preparation of Cabinet note for AIBP/CAD projects	[4.1.1] preparation of Cabinet Note	Date	--	--	15/07/2012	--	--
	[4.2] Completion of Irrigation works under AIBP programmes	[4.2.1] Irrigation potential created under AIBP programmes	Mha.	--	--	0.9	--	--
	[4.3] Utilisation of Irrigation Potential under CAD programme	[4.3.1] Irrigation potential Utilised under CAD programmes	Mha	--	--	0.9	--	--
	[4.4] Implementation of three National Projects under AIBP	[4.4.1] EFC clearance and preparation of Cabinet Note	Date	--	--	10/03/2012	--	--
	[4.5] Reducing the gap between IPC and IPU including RRR	[4.5.1] reducing gap	Mha	--	--	0.95	--	--

Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value FY 10/11	Actual Value FY 11/12	Target Value FY 12/13	Projected Value for FY 13/14	Projected Value for FY 14/15
[5] Ground Water Management & Regulation	[5.1] Comprehensive assessment of ground water resources through aquifer mapping	[5.1.1] Sub-Surface survey for 6 pilot projects	Sq.KM	--	--	1600	--	--
		[5.1.2] Exploration and borehole geophysical logging	Nos.	--	--	90	--	--
	[5.2] Launch of National Projects on Aquifer mapping including Participatory ground water management	[5.2.1] EFC clearance and preparation of Cabinet Note	Date	--	--	10/03/2013	--	--
	[5.3] Recharging of over exploited Ground Water areas	[5.3.1] Preparation and submission of Cabinet Note	Date	--	--	10/03/2013	--	--
	[5.4] Taking a Note to the Cabinet on treatment of contaminated ground water aquifer.	[5.4.1] Submission of Draft Cabinet Note on treatment of contaminated ground water.	Date			15/02/2013		
[6] Research & development and Capacity Building	[6.1] Research on various aspects of water resources and to bring out technical reports / research papers in Indian & International journals of repute by various organizations namely NWA (CWC), NIH, CWPRS CSMRS and CGWB.	[6.1.1] Number of reports brought out / published	No.	82	78	171	400	400
		[6.1.2] Number of papers brought out / published	No.	--	--	261	--	--
	[6.2] Organization of training programmes by various	[6.2.1] Number of training programmes organized	No.	42	36	72	70	70

Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value FY 10/11	Actual Value FY 11/12	Target Value FY 12/13	Projected Value for FY 13/14	Projected Value for FY 14/15
[7] Benchmarking of R&D institutions against international standards and technological Up-gradation	organizations namely NWA (CWC), NIH, CWPRS, CSMRS and CGWB.							
	[7.1] Procurement of final benchmarking report for NIH, CSMRS & CWPRS	[7.1.1] Procurement of reports	Date	--	--	31/01/2013	--	--
	[7.2] Refinements of protocols for investigations for CGWB	[7.2.1] Refinements of protocols	Date	--	--	31/12/2012	--	--
	[7.3] Up-gradation of practices for ground water drilling for exploration	[7.3.1] Up-gradation of practices	Date	--	--	31/12/2012	--	--
	[7.4] Ground water modeling for development of implementable management plans	[7.4.1] Ground water modeling	Date	--	--	31/12/2012	--	--
[8] River Management Activities and Works related to Border Areas	[7.5] Strengthening infrastructures in terms of man power and equipments NIH/CSMRS /CWPRS/CGWB	[7.5.1] Strengthening of infrastructures – preparation of action plan	Date	--	--	31/12/2012	--	--
	[8.1] Hydrological observations and investigations of Water Resources Projects, Flood control, Anti-erosion & Drainage development works with neighboring countries.	[8.1.1] Completion of irrigation planning studies of Sapt-kosi project	Date	--	--	31/01/2013	--	--
		[8.1.2] Finalisation of communication	Date	--	--	31/01/2013	--	--

Section 3:
Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value FY 10/11	Actual Value FY 11/12	Target Value FY 12/13	Projected Value for FY 13/14	Projected Value for FY 14/15
[9] Flood Forecasting		survey of Sapt-kosi project						
		[8.1.3] Finalisation of power evacuation study of Sapt-kosi project	Date	--	--	10/03/2013	--	--
		[8.1.4] Erosion control works in Farakka Barrage Project	No.	--	--	3	--	--
		[8.1.5] Replacement of Gates of Farakka Barrage Project	No.	--	--	5	--	--
		[8.1.6] Majuli Island Flood protection and erosion Works for Phase II & III under Brahmaputra Board	%	--	--	36	--	--
		[9.1.1] Accuracy warning of the incoming flood to help in planning activities for reducing the damages from floods within 24 hours.	%	98.14	98.53	92	96	96
[10] Awareness generation programme	[9.1] To collect real time data, its analysis and issue of flood forecasts. About 6000 forecasts are issued every year.							
	[9.2] Setting up of hydrological observation stations	[9.2.1] Completion of Works	No.	--	--	90	--	--
	[9.3] Successful installation of telemetry stations during flood season	[9.3.1] Installation of telemetry stations	No.	--	--	110	--	--
	[10.1] Organisation of India Water Week, an international event	[10.1.1] Completion of India Water Week celebration 2012	Date	--	--	11/04/2012	--	--
	[10.2] Awareness among children on water conservation	[10.2.1] Painting Competition at School, State and	Date	--	--	31/01/2013	--	--

Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value FY 10/11	Actual Value FY 11/12	Target Value FY 12/13	Projected Value for FY 13/14	Projected Value for FY 14/15
[11] Independent review / evaluation of XI Plan activities of organizations /Schemes		National level						
	[10.3] Organising of workshops/seminars	[10.3.1] Organizing the workshop as assigned by MoWR	No.	--	--	18	--	--
	[11.1] For CWC, CSMRS, CWPRS and NIH	[11.1.1] Finalization of agency for award of the study	Date	--	--	31/12/2012	--	--
	[11.2] For AIBP, CAD and RRR	[11.2.1] initiation of the process	Date	--	--	31/12/2012	--	--
	[11.3] For FPARP – 2nd Phase	[11.3.1] submission of interim [11.3.2] Submission of final report	Date	--	--	31/07/2012 31/10/2012	--	--
* Efficient Functioning of the RFD System	Timely submission of Draft for Approval	On-time submission	Date	05/03/2010	07/03/2011	06/03/2012	--	--
	Timely submission of Results	On- time submission	Date	29/04/2011	--	03/05/2012	--	--
* Administrative Reforms	Implement mitigating strategies for reducing potential risk of corruption	% of implementation	%	--	--	95	--	--
	Implement ISO 9001 as per the approved action plan	Area of operations covered	%	--	--	95	--	--
	Identify, design and implement major innovations	Implementation of identified innovations	Date	--	--	06/03/2013	--	--
* Improving Internal Efficiency / responsiveness / service delivery of Ministry / Department	Implementation of Sevottam	Independent Audit of Implementation of Citizen's Charter	%	--	--	95	--	--
		Independent Audit of implementation of public grievance redressal	%	--	--	95	--	--

* Mandatory Objective(s)

Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value FY 10/11	Actual Value FY 11/12	Target Value FY 12/13	Projected Value for FY 13/14	Projected Value for FY 14/15
* Ensuring compliance to the Financial Accountability Framework		system						
	Timely submission of ATNs on Audit paras of C&AG	Percentage of ATNs submitted within due date (4 months) from date of presentation of Report to Parliament by CAG during the year.	%	--	--	90	--	--
	Timely submission of ATRs to the PAC Sectt. on PAC Reports.	Percentage of ATRs submitted within due date (6 months) from date of presentation of Report to Parliament by PAC during the year.	%	--	--	90	--	--
	Early disposal of pending ATNs on Audit Paras of C&AG Reports presented to Parliament before 31.3.2012.	Percentage of outstanding ATNs disposed off during the year.	%	--	--	90	--	--
	Early disposal of pending ATRs on PAC Reports presented to Parliament before 31.3.2012	Percentage of outstanding ATRs disposed off during the year.	%	--	--	90	--	--

* Mandatory Objective(s)

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All water resources projects including flood management schemes are planned and implemented by the respective State Governments. Government of India provides technical assistance and also financial assistance through various schemes namely 'Accelerated Irrigation Benefits Programme', 'Command area Development & Water Management', 'Repair, Renovation and Restoration of Water Bodies', 'Flood Management Programme'; etc. The proposals of the State Governments for inclusion under specific programme or scheme of the Ministry of Water Resources are required to fulfill all the requirements of the guidelines and an important requirement for major and medium irrigation projects as well as for flood control projects relates to clearance of the project proposed by the State Governments by the Technical Advisory Committee (TAC) and the investment clearance of the Planning Commission. The process constitutes an important component as this helps proper technoeconomic evaluation of the projects to ensure that the projects are technically feasible and economically viable and that all other requirements in respect of environmental and rehabilitation and resettlements aspects etc. are fully adhered to. Thus considerable activities are involved before release of the central assistance for the projects. Further, the projects are closely monitored and even for the release of next installment of the central assistance, the monitoring report is mandatory. Prior examination and monitoring of the project contributes considerably in ensuring physical sustainability of the project. Further, the emphasis has been laid not only on completion of the projects but also in creation of the irrigation potential even with part completion of the projects.

The key objectives included in the document are:

- Implementation of National Water Mission
- Alignment of Acts to present day needs
- Inter basin transfer of waters / Investigation of Schemes
- Creation of irrigation potential and Reducing Gap between the IPC & IPU
- Ground Water Management & Regulation
- Research & Development and Capacity Building
- Benchmarking of R&D institutions against international standards and technological Up-gradation
- River Management Activities and Works related to Border Areas
- Flood Forecasting
- Awareness generation Programme
- Independent review / evaluation of XI Plan activities of organizations / Schemes

Measurement Methodology adopted in implementing few important Objectives are briefed below.

(i) Implementation of National Water Mission

The Government of India launched National Action Plan on Climate Change (NAPCC) on 30th June, 2008, which inter alia envisaged identified the approach to be adopted to

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meet the challenges of impact of climate change through eight National Missions including National Water Mission with the main objective of “conservation of water, minimizing wastage and ensuring its more equitable distribution both across and within States through integrated water resources development and management”.

The Comprehensive Mission Document for National Water Mission, approved by the Cabinet on 6th April, 2011, identifies five goals as under;

- (i) Comprehensive water data base in public domain and assessment of the impact of climate change on water resource,
- (ii) Promotion of citizen and state actions for water conservation, augmentation and preservation, Description and Definition of Success Indicators and Proposed Measurement Methodology
- (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.In order to achieve the above goals following activities are targeted during 2012-13.

(a) Downscaling of Climate Change Models and assessment of the impact of climate change on water resource in each of 20 major river basins.

There are about 23 Global Circulation Models (GCM) at 200-300 km grids available worldwide to forecast future climate change scenario. Some Regional Circulation Models (RCMs) at 50 km grids have also been developed to suit regional climate pattern. These global/ regional models need to be downscaled and translating it to a finer spatial scale, say at 10 km grids, to assess the likely impact of climate change on water resources scenario in each of the 20 major river basins. Such downscaling will enable taking appropriate decisions about water utilizations, etc. An interaction meeting with all IITs, IISc and other leading academic institutes were organized on 6th March, 2012 and lead institutes along with supporting institutes for downscaling of climate change models and assessment of the impact of climate change in each of the 20 major river basins in the country were identified. Project proposals for these studies have been invited from the identified lead institutes. National Institute of Hydrology, Roorkee is co-ordinating these studies.It is expected that these studies would take about two years’ time after award of work

(b) Sensitization and capacity building of Local Governing Bodies, Panchayats, etc.

Following strategies are listed in achieving the goal viz. Promotion of citizen and state actions for water conservation, augmentation and preservation;

- (a) Empowerment and involvement of Panchayati Raj Institutions, urban local bodies, Water Users Associations and primary stake holders in management of water

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resources with focus on water conservation, augmentation and preservation;

- (b) Promote participatory irrigation management;
- (c) Sensitization of elected representatives of over-exploited areas on dimensions of the problems and to orient investment under MNREGP towards water conservation;

The above activities would involve training/capacity building which needs assessment and preparation of training modules during the year 2012-13.

(c) Baseline study and taking up benchmarking and/or demonstrative projects for Water Use Efficiency

Increasing water use efficiency by 20% is one of the major goals of National Water Mission. This can be achieved by implementing various engineering and non-engineering measures, such as;

- (i) Increasing conveyance and distribution efficiencies by lining and proper maintenance of canal system, using pipes as field channels, etc.
- (ii) Command Area Development by proper distribution of field channels, drainage, etc.
- (iii) Use of Micro-irrigation methods, such as drip, sprinkler irrigation methods
- (iv) Implementing water supply on volumetric basis
- (v) Improving water governance by empowering Water Users Association to collect water charges and maintain water resources infrastructure
- (vi) Promoting conjunctive use of surface and ground water including re-use of irrigation drainage water, etc.

It is proposed to select five irrigation projects in different parts of the country to act as demonstrative projects, where all approaches for increasing water use efficiency would be implemented. These projects could then act as benchmarking projects for other irrigation projects. During the current year, it is proposed to select five irrigation projects on the basis of their present water use efficiency, potential for improvement and consequential impact on the society. The State Governments of the identified irrigation projects would be requested to award the work of preparation of Detailed Project Reports for these selected projects.

(d) Review of National/State Water Policies

The Ministry of Water Resources has undertaken to review the existing National Water Policy and held a series of consultation meetings with different stakeholders. On the basis of feedback received, a draft National Water Policy (2012) has been prepared and placed on the Ministry's website for comments. This was also circulated amongst all States/related Ministries. More than 600 comments were received.

During the current year 2012-13, it is proposed to review the draft National Water Policy

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(2012) on the basis of comments received and place the revised draft National Water Policy (2012) before the National Water Board comprising of Chief Secretaries of all State Governments and Union Secretaries of related Ministries with Secretary (WR) as Chairman. The draft National Water Policy (2012) recommended by the National Water Board would be placed before the National Water Resources Council comprising of all Chief Ministers with the Prime Minister as Chairman.

(ii) Inter basin transfer of waters / Investigation of Schemes

This National Water Development Agency under this Ministry has proposed to take up the Survey and Investigations for two intra-state river links and prepare Detailed Project Reports there on. Similarly, Feasibility /Pre- feasibility Studies for Six intra-state links in different areas of the country are proposed during 2012-13.

List of DPR of Intra-State links:

- (i) Burhi Gandak-None-Baya-Ganga Link and
- (ii) Kosi-Mechi Link in India

List of FR/PFR of Intra-State links:

- (i) Koyna - Mumbai City link
- (ii) Koyna - Nira link
- (iii) Kolhapur - sangli - Sangola link
- (iv) Mahanadi - Rushikulya link (Barmul Project)
- (v) Vamsadhara - Rushikulya link (Nandini Nalla Project)
- (vi) Mahi - Luni link

(iii) Creation of irrigation potential and Reducing Gap between IPC & IPU

Preparation of Cabinet Note for three National Projects proposed under AIBP namely, Saryu Nahar Pariyojana (UP), Restoring capacity of Sarda Sahayak System (UP) and Bargi Diversion Project (MP) having Irrigation Potential Creation of 80,000 ha, 150000ha and 37500ha respectively are included in the RFD for 2012-13.

(iv) Ground Water Management & Regulation

Activities of Ground Water Management & Regulation implemented through available infrastructure and manpower of Central Ground Water Board.

The main success indicator for Sub-Surface Survey for Six Pilot Project covering areas of 2573 sq. km in the States of Tamil Nadu, Rajasthan, Bihar, Karnataka, and Maharashtra is included. Detail hydro-geological, geophysical and water quality investigations shall be carried out in the areas to delineate aquifer geometry and yield potential and aquifer characteristics etc. in the proposed scale of 1:50,000.

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To obtain the aquifers zones and hydraulic parameters of an aquifer, it is proposed to drill 100 Nos. of exploratory wells.

(v) Independent review / evaluation of XI Plan activities of Organizations / Schemes

The evaluation in respect of CWPRS, CSMRS, NIH and CWC during X Plan have been completed by consultants viz., IIT Bombay, IIM Bangalore, Achievement Review Committee and IIM, Lucknow respectively. The recommendations made by these independent agencies are under finalization for implementation.

Section 5:

Specific Performance Requirements from other Departments

- As indicated earlier, all water resources projects including flood management schemes are planned and implemented by the respective State Governments. Therefore, the progress in respect of the identified actions / strategies in respect of key objectives (a) Monitoring of accelerating irrigation development / stabilizing created facilities by State Governments and Utilisation of Created Irrigation Potential (b) Monitoring of Flood management which are fully dependent on the actions taken by the State Governments at almost all stages such as:

Approval Stage

- preparation of the project proposal as per the approved norms and submission for appraisal;
- compliance of the observations of appraising agencies including the Ministry of Environment and Forests (for clearance from environmental and forests considerations);
- compliance of Ministry of Social Justice and Empowerment from the view point of rehabilitation and resettlements;
- compliance of Ministry of Tribal Affairs in case of projects in tribal areas;

Implementation Stage

- providing matching allocation from State Plan;
- timely release of the funds to the project authorities;
- timely measures for land acquisition etc.;
- physical progress in respect of works;
- timely submission of the proposal for release of next installments along with requisite utilization certificate etc.; and
- adherence to the agreed time schedule for completion of works.

It would be observed that the progress is fully dependent on series of actions to be undertaken by the respective State Governments. The progress is also dependent to some extent on the clearances to be accorded by the concerned Ministries particularly, the Ministry of Environment and Forests and Ministry of Social Justice and Empowerment. Planning Commission is also involved in the investment clearance. The releases for the State sector schemes namely 'Accelerated Irrigation Benefits Programme', 'Repair, Renovation and Restoration of Water Bodies', 'Command area Development and Water Management', 'Flood Management Programme'; are made by the Ministry of Finance.

Similarly, for implementing Ground Water Management & Regulation the Public Sectors, State Governments, NGOs, Academic /Research Institutions and outside agency like DFID are being involved.

Section 6:
Outcome/Impact of Department/Ministry

Outcome/Impact of Department/Ministry	Jointly responsible for influencing this outcome / impact with the following department (s) / ministry(ies)	Success Indicator	Unit	FY 10/11	FY 11/12	FY 12/13	FY 13/14	FY 14/15
1 Impact of climate change on water resources	NIH/IITs/IISc	TBD	TBD					
2 Better access to information on water resources	CWC/ISRO/State Govts	TBD	TBD					
3 Promotion of citizen and state action for water conservation, augmentation and preservation	State Govts	TBD	TBD					
4 Increase in Water use efficiency	MoA./ States Govts. / CWC	Water use efficiency	TBD					
		Increase in water use efficiency by 20%	TBD					