

**QUARTERLY COMPILATION OF PROGRESS REPORT UNDER NATIONAL ACTION PLAN ON CLIMATE CHANGE-WATER**

**Quarter-IV ending March, 2017**

Sl. No.	Activities under each Mission deliverables	Implementing Agency	Overall target for Mission Period (2013-17)	Target for 2016-17	Quarter-wise target/achievement during 2016-17								Achievement during 2016-17	Cumulative Achievement up to 2015-16	Remarks  (Cumulative Progress upto March 2017)
					Quarter 1		Quarter 2		Quarter 3		Quarter 4				
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<b>1.0</b>	<b>Goal 1: Comprehensive water database in public domain and assessment of the impacts of climate change on water resources</b>														
<b>1.1.0</b>	<b>Review and establishment of network for collection of additional necessary data</b>														
1.1.1	Establishment of new Hydrological Observation Stations (HOS) for improved water resource assessment, planning, and flood forecasting etc.  (Nos)	CWC (RDC Dte)	800	252	12	nil	70	42	70	417	100	26	485	217	<b>702 no. new HOS established upto 2016-17.</b> Less progress due to Non-availability of manpower and delay in land acquisition. This will cover the hitherto uncovered areas and provide information through 275 flood forecasting sites and help in climate change studies, glacial lake burst/cloud burst, FF and estimate of flow distribution in various seasons.
1.1.2	Automatic satellite based telemetry system for hydrological network for real time information for improved water resource assessment, planning, and flood forecasting. *-Targets revised. Tender process is on.  (Nos.)	CWC (FFM Dte)	629*	200	--	--	20	--	05	--	175	08	08	57	<b>65 Nos. stations installed upto March 2017.</b>  <b>Less progress due to delay in approval of the EFC Memo and subsequently delay in award of work.</b> <b>Contract Awarded for 458 Stations.</b> As a result of the telemetry network, live information would be available on the real time basis. It will eliminate the delays in dissemination of flood warnings to the States due to manual system of dissemination.  The sites have been rationalized based on the requirement of mathematical models being developed for various basins. Based on this rationalization, tenders have been floated for 458 stations and work has been

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																awarded during the financial year 2016 -17 under different river basin organisations of CWC. Total number of stations where automatic satellite based telemetry system has been installed/installation in progress is 523 stations.
1.1.3	Establishing of New Ground Water Monitoring Wells by CGWB (Nos.).  Central Ground Water Board monitors wells throughout the country for measurement of water levels, to prepare depth to water level maps, to find out long term water level trends and resource assessment.  (Nos.)	CGWB	9360	1900	300	172	--	231	800	99	800	232	734	5642	<b>6376 Nos. GWM wells established till March 2017.</b> The monitoring stations show that of the 6607 blocks, 1071 (16%) blocks were found to be over-exploited (OE); 217 (3%) blocks found to be critical and 697 blocks (11%) were found to be semi-critical.  Efforts are made to restrict drawl in OE blocks and recharge the overdrawn blocks.	
1.1.4	Installation of Automatic Water Level Recorder (AWLR) with Telemetry in Piezometers( Nos.). These AWLR will provide real time/near real time water level data for planning the groundwater development and management in the over exploited areas of the country.	CGWB	584	584	--	--	--	--	--	--	584	--	--	--	Tender work in progress.	

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2.0	Goal 2: Promotion of citizen and State Action for water conservation, Augmentation and preservation															
2.1.0	Setting up of Water Users Associations for community management of Command Areas.	Com. (CAD)		500* (2000)	--	--	--	--	200*	--	300*	278	278	84,799 Nos.	<b>85,087 no. WUAs setup upto March 2017.</b> *Target revised by Commissioner (CAD) to 500. (Rs. 854 Crore funded for 21 Projects through NABARD).	
2.1.1	Training and Capacity building programme on National Water Mission, Enhancing Water Use Efficiency and water conservation for State/Central Govt. officials/stakeholders.	CWC, CGWB, NWM, NERIWALM	780 Trainings (42955 persons)	208 Trainings (8485 Persons)	27 (1535)	19 (1757)	67 (2160)	37 (1741)	50 (2010)	32 (1948)	61 (2705)	41 (3067)	129 (8513)	539 Trainings (48255 Persons)	<b>668 trainings conducted, 56,768 stakeholders trained upto March 2017.</b>	
a.	<b>Water User's Association (WUA)</b>		No of Trainings	100	50	05	—	17	03	09	05	19	0	09	53	CWC: 07 Trainings (223 Persons) CGWB: 20 Trainings (5611 Persons)
			No. of Persons	3000	720	100	—	120	122	270	192	230	0	337	4184	NERIWALM: 58 Trainings (2031 Persons)
b.	<b>Panchayati Raj Institutions (PRI)</b>		No of Trainings	228	39	08	06	08	06	09	10	11	13	35	181	NWM: 14 Trainings (73 Persons)
			No. of Persons	26730	4480	1000	1350	1000	755	1030	1277	1375	1752	5134	25132	<b>TOTAL: 129 training, 8513 persons</b>
c.	<b>Other/ Govt. Officials</b>		No of Trainings	297	73	01	01	31	22	25	15	16	19	57	224	
			No. of Persons	8475	1825	55	35	610	626	500	435	660	753	1849	6508	
d.	<b>Mass Awareness Programmes</b>		No of Programmes	155	46	13	12	11	6	7	2	15	8	28	81	
			No. of Persons	4750	1460	380	372	430	238	210	44	440	539	1193	12431	
	<b>TOTAL</b>			780 Trainings (42955 persons)	208 Trainings (8485 Persons)									129 Trainings (8513 Persons)	539 Trainings (48255 Persons)	

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<b>3.0</b>	<b>Goal 3: Focused attention to vulnerable areas including over-exploited, critical and semi-critical areas</b>														
<b>3.1.0</b>	<b>Promotion of traditional system of water conservation</b>														
3.1.1	Repair, Renovation and Restoration (RRR) for 10,000 water bodies has been taken up during the 12 <sup>th</sup> Plan. (Nos.)	CWC (Economics Dte)	10,00	1,000	100	--	300	--	300	--	300	nil	--	1237	<b>1237 no. water bodies restored upto March 2017.</b>  CA (Rs. 264.67 Cr) released to 8 States for 1237 water bodies. Work on 1236 water Bodies taken up with a target of restoration of CCA of 101265 Ha. 506 water bodies with CCA of 60081 ha have been restored. RRR works of 730 water bodies are under progress.
3.1.2	Strengthening of traditional water bodies (Nos. in Lakh )	MoRD (MGNREGA)		2.04 Lakh	--	--	--	2.05 Lakh	--	0.17 Lakh	--	0.69 Lakh	2.91 lakh	2.76 lakh	<b>5.67 Lakh Water bodies strengthened upto March 2017.</b>  In addition strengthening of 2.82 Lakh water bodies is on-going.
<b>3.2.0</b>	<b>National Project on Aquifer Management on 1:50000 scale</b>														

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3.2.1	Preparation of Management Plans to facilitate community participation through three dimensional delineation of aquifers and to assess the quality and quantity of ground water. (lakh sq.km.)	CGWB	8.89 lakh sq.km.	3.00 lakh sq.km.	0.75	1.19	0.75	nil	0.75	1.73	0.75	1.11 lakh sq km	4.03 lakh sq km (provisional)	2.28 lakh sq km	<b>6.31 lakh Sq km Progress upto March 2017.</b> These Plans inter-alia provide strategies for various interventions like construction of recharge structures; type of crops to be grown; amount of water to be drawn to ensure optimal and sustainable utilization of ground water.
<b>3.3.0</b>	<b>Ground water quality sampling and analysis</b>														
3.3.1	Analysis of groundwater quality for major anion & cations, heavy metals and industrial pollutants to assess the presence of Arsenic, fluoride, iron, nitrate, chromium etc. and recommend suitable strategies to the States for remediation. ( Nos.)	CGWB	80,000 No.	20,000 No.	5,000 No.	8,783 No.	5,000 No.	7,514 No.	5,000 No.	8,091 No.	5,000 No.	9420 No.	33,808 No.	78,145 No.	<b>1,11,953 Nos. samples analysed upto March 2017.</b>
<b>3.4.0</b>	<b>Physical sustainability of ground water resources</b>														
3.4.1	Expeditious implementation of programme for conservation of water through recharge of ground water including rain water harvesting (under MGNREGA). (Nos. in Lakh )	MoRD (MGNREGA)		9.86 lakh Structures	--	--	--	5.62 lakh Structures	--	0.55 lakh Structures	--	1.69 Lakh Structures	7.86 lakh Structures	11.14 Lakh structures	<b>19.00 lakh structures completed upto March 2017.</b> 5.62 Lakh structures completed and 8.10 Lakh structures are ongoing.
<b>3.5.0</b>	<b>Optimization of Surface water resources</b>														

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3.5.1	Completion of ongoing 99 AIBP projects to realise an irrigation potential of 76 Lakh ha. (Lakh Ha.)	Com. (SPR)	76 Lakh Ha.	14.53 Lakh Ha. (23 Projects)	--	--	--	--	--	--	--	--	--	12.42 Lakh Ha.	<b>12.42 Lakh ha. Irrigation potential generated upto March 2017.</b>  The purpose is to reduce the gap between IPC & IPU to ensure optimal utilization of Surface Water Resources and scale the lessons from these projects to other WR projects. Phase-I, 23 project, FY 2016-17. Achievement will be available after June 2017.
<b>3.6.0</b>	<b>Systemic approach for coping with flood</b>														
3.6.1	Flood Forecasting by inclusion of additional Forecast stations for unrepresented areas/projects using hydrological and hydraulic modeling. (Nos.)	CWC (FFM Dte)	100 Nos.	23 Nos.	--	05 Nos.	23 Nos.	19 Nos.	--	--	--	--	24 Nos.	—	<b>24 No. Additional forecast stations established upto March 2017.</b>  The network is proposed to be expanded from existing 176 flood forecasting stations to 276 stations to feed into the 276 flood forecasting stations.  The total network of 1118 would be on automatic satellite based telemetry system.

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3.6.2	Number of Flood Forecasts at existing 176 FF Stations. (Nos.)	CWC	24,000 Nos.	about 6,000 No. per annum	1,000 Nos.	550 Nos.	4,500 Nos.	4,374 Nos.	1,500 Nos.	1315 Nos.	--	--	6,239 Nos.	18,000 Nos.	<b>24,239 nos. forecasts issued upto March 2017.</b>  Flood forecasting activity is undertaken, based on the network stated in para 3.6.1, in 2nd & 3rd quarters.
<b>4.0</b>	<b>Goal 4: Increasing water use efficiency by 20%</b>														
4.1.1	Baseline Studies in Irrigation Sector. (Nos.)	NWM	25 Nos.	12 Nos.	--	--	--	04 Nos.	--	--	--	21 Nos.	04 Nos.	02* Nos.	<b>21 No. baseline studies under progress upto March 2017.</b> * -ADB Studies.  NERIWALAM- 5 No. Draft Inception Report for Base-line Studies received in NWM and sent to CWC., the observations of CWC have been sent to NERIWALM for needful action.  WALMTARI – 10 No. Draft Inception Report for Base-line Studies of all the ten projects sent to CWC for examination.  WALMI – 6 No. Draft Inception Reports for Base-line Studies sent to CWC for examination.

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<b>5.0</b>	<b>Goal 5: Promotion of basin level integrated water resources management</b>														
5.1	Development of State Specific Action Plan (SSAP) for Water Sector (Nos.)	NWM	29 States and 7 UTs	22 States and 7 UTs	--	--	--	--	--	--	--	--	11 States*		NERIWALM & NIH have been engaged as Nodal agencies. MOU signed by *Gujarat, Madhya Pradesh, Karnataka, Maharashtra, Uttarakhand, Andhra Pradesh, Telangana, Tamil Nadu, Orissa, WB and Arunachal Pradesh. In Phase-II- two states have signed the MOU. 1 <sup>st</sup> installment released For 11 States.
<b>6.0</b>	<b>Waste Water Dimension and Pollution abatement</b>														
6.1	Rural Sanitation program by MoDWS. (Individual Household latrines) (Nos.)	NMCG	1527105 Nos.	--	--	--	--	285491 Nos	--	138171 Nos.	--	252469 Nos.	6,76,131 Nos.	4,21,011 Nos.	<b>10,97,142 IHHL Built upto March 2017.</b>
6.2	Installation of online continuous effluent monitoring stations. (Nos.)	NMCG	No Fixed target	610 Nos.	508 Nos.	508 Nos.	48 Nos.	48 Nos.	--	16 Nos.	38 Nos.	05 Nos.	577 units installed	--	<b>577 units installed upto March 2017</b> , out of which 384 units have established data connectivity with CPCB server.
6.3	Real-Time Water Quality Monitoring Stations. (Nos.)	NMCG	113 Nos.	36 (Phase-I)	--	--	01 Nos.	01 Nos.	07 Nos.	07 Nos.	28 Nos.	28 Nos.	36 Nos.	--	<b>36 Nos. WQM Stations installed upto March 2017.</b> Contract signed on 11 July, 2016.