

- I. Name of the Nodal Ministry/Agency: Ministry of Water Resources, River Development & Ganga Rejuvenation
- II. Monitoring of implementation of the National Water Mission (NWM) under the National Action Plan on Climate Change.

### NWM Activities (Year-2016-17)

(QUARTER-I, ending June.,

2016-17)

Sl. No.	Activities under each Mission deliverables	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
				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
<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 for improved water resource assessment, planning, and flood forecasting, etc.( Nos)	800	252	40	Nil	70		70		100		Nil	217	This will cover the hitherto uncovered areas and provide information through 275 flood forecasting sites and help in climate change
1.1.2	Automatic satellite based telemetry system for hydrological network for real time information for improved water resource assessment, planning, and flood forecasting	1118	611	--	--	--	--	--	--	--	--	--	507	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
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.	9360	1901	300	--	--	--	800	--	800	--	--	6839	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

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														be semi-critical.  The 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.	584	584	--	--	--	--	--	--	584	--	--	--	The work will be completed by the fourth quarter.  In the next phase during 2017-18, construction of 691 piezometers and installation of AWLR/ Telemetry will be taken up in the remaining over exploited areas.
<b>2.0</b>	<b>Goal 2: Promotion of citizen and State Action for water conservation, Augmentation and preservation</b>													
2.1.0	Setting up of Water Users Associations for community management of Command Areas.		2,000	--	--	--	--	--	--	--	--	--	84,799	
2.1.1	Capacity building for multiple stakeholders Central/ State Govt. officials/WUAs/ PRIs/ NGOs etc. for enhancing Water Use Efficiency and water conservationIn partnership with ICAR-IIWM, NIRD, WALAMTARI-Hyd, WALMI-Aurangabad, TISS &RGNGWTRI (CGWB).		207 CWC - 8 CGWB- 35	27	--	50	--	50	--	90	--	--	227	District level training-Tier III (Panchayat officials) - 35 b. WUAs / State govt. Officials -107 c. Mass awareness programmes - 45 d. Convention of WUAs - 03 e. Other training-CGWB Tier II-17

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
															<b>Total: 207</b> 2013-16: 25,053 persons trained.  2013-16: 178 Tier-III trainings conducted.
<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	Based on NRSC data UID for all the water bodies has been generated by under WARIS, for Repair Renovation and Restoration of identified water bodies. A scheme namely Repair, Renovation and Restoration for 10,000 water bodies has been taken up during the 12 <sup>th</sup> Plan.	10,000	1,000	--	--	--	--	--	--	--	--	--	1,354	The WRIS has generated information for 798909 water bodies with the support of NRSC	
3.1.2	Strengthening of traditional water bodies		2.04 lakh	--	--	--	--	--	--	--	--	--	2.76 lakh	This work has been carried out by MoRD, on an average they take up strengthening of 0.65 - 0.70 lakh traditional water bodies.  The figure of Rs. 2.04 lakh includes the spill over works of last four years	
<b>3.2.0</b>	<b>National Project on Aquifer Management on 1:50000 scale</b>														
3.2.1	Preparation of Management Plans to facilitate community participation through three dimensional delineation of aquifers and to assess the quality and	8.89 lakh sq.km.	3.00	0.75	--	0.75	--	0.75	--	0.75	--	--	2.28 lakh sq km	These Plans inter-alia provide strategies for various interventions like construction of recharge structures;	

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	quantity of ground water.														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.	80,000	20,000	5,000	--	5,000	--	5,000	--	5,000	--	34,155	78,145	86 districts in 10 States were found to be Arsenic affected; 276 fluoride affected; 297 iron affected and 213 salinity affected.  Arsenic (1800), Fluoride (12727), Iron (34096) and Nitrate (2521) affected rural habitations have been prioritized for remediation by MoDWS.	
<b>3.4.0</b>	<b>Physical sustainability of ground water resources</b>														
3.4.1	Expedient implementation of programme for conservation of water through recharge of ground water including rain water harvesting (under MGNREGA).		9.86 lakh structures	--	--	--	--	--	--	--	--	--	11.14 Lakh structures	This work has been carried out by MoRD, on an average they take up 2.50 - 2.75 lakh water conservation and rainwater harvesting structures. The figure of 9.86 lakhs includes the spill over works of last four years.	
<b>3.5.0</b>	<b>Optimization of Surface water resources</b>														
3.5.1	Completion of ongoing AIBP projects to realise an irrigation potential of 7.6 mha.	405	125	60	68	25	--	20	--	20	--	68	143	The purpose is to reduce the gap between IPC and IPU to ensure optimal	

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															utilization of SW Resources and scale the lessons from these projects to other WR projects.
<b>3.5.0</b>	<b>Systemic approach for coping with flood</b>														
3.5.1	Flood Forecasting by inclusion of additional Forecast stations for unrepresented areas/projects using hydrological and hydraulic modeling.	100	23	--	--	23	--	--	--	--	--	--	--	--	The network is proposed to be expanded from existing 176 flood forecasting stations to 275 stations to feed into the 275 flood forecasting stations.  The total network of 1118 would be on automatic satellite based telemetry system.
3.5.2	Issue of Flood Forecast at existing 175 FF Stations (Nos).	24,000	6,000	1,000	550	4,500	--	1,500	--	--	--	550	6,000	Flood forecasting activity is undertaken based on the network clarified in para 3.5.1 in 2 & 3 quarters.	
<b>4.0</b>	<b>Goal 4: Increasing water use efficiency by 20%</b>														
4.1.1	Baseline Studies in Irrigation Sector.	21	25	--	Nil	--	--	--	--	--	--	--	21	21 studies awarded to WALMI(Aurangabad), NERIWALAM, WALAMTARI-Hyderabad.& expected to be completed in 18 months.	
<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.)	29 States and 7	22 States & 7	--	--	--	--	--	--	--	--	--	7 States	NERIWALM has been engaged as Nodal	

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		UTs	UTs											agency.
<b>6.0</b>	<b>Waste Water Dimension and Pollution abatement</b>													
6.1	Rural Sanitation program by MoDWS. (Individual Household latrines) ( Nos. )	15,18,649 Nos.	-	No fixed target	--	--	--	--	--	--	--	78,108 Nos.	5,08,528 Nos.	
6.2	Installation of real time effluent monitoring stations ( Nos)		764 Nos.	508	508	--	--	--	--	--	--	556 units installed	--	556 units installed out of which 232 units have established data connectivity with CPCB server.
6.3	Real-Time Water Quality Monitoring Stations (Nos)		113 Nos.	5	5	36	--	35	--	37	--	Nil	--	(Contract signed on 11 July,2016)