

Department of Water Resources, River Development and Ganga Rejuvenation

1. Interlinking of Rivers Project (National Project)- NWDA (CSS)

FINANCIAL OUTLAY (Rs. In Cr.)	OUTPUTS 2022-23			OUTCOMES 2022-23		
	2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators
1,400	1. Priority links / Implementation of Project	1.1 Ken-Betwa link project – Second year outlay for construction. <sup>1</sup> (Done/Not Done)	Not Done	1. All the interlinking of river projects will provide long term outcomes of increase in CCA, power generation and make water available for various uses <sup>2</sup>	1.1 Ken-Betwa Phase-I&II Project (On Completion) CCA (in ha.) MP: 6,53,368 UP: 2,51,064 Total: 9,04,432  Drinking Water Supply  Total :228.9 MCM for 62.94 Lakh population of Uttar Pradesh and Madhya Pradesh	Target not amenable <sup>3</sup>

<sup>1</sup> Post DPR activities like obtaining balance clearances, additional surveys for identified storage sites in UP side, revision of DPR of Phase-I etc. Formation of Special Purpose Vehicle (SPV) for the implementation of KBLP. Carry out preparatory works for construction of various components of KBLP etc.

<sup>2</sup> The construction will start only after all statutory clearances and will take about 6 to 8 years. So, the outcome will commence after implementation of any ILR project.

<sup>3</sup> On implementation, the project will provide the benefits as furnished in outcome indicators.

FINANCIAL OUTLAY (Rs. In Cr.)	OUTPUTS 2022-23			OUTCOMES 2022-23			
	2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
						Power Generation: Hydro: 103MW  Solar: 27 MW  Total power generation: 130 MW	

## 2. Umbrella Scheme: Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) (CSS)

FINANCIAL OUTLAY (Rs. In Cr.)	OUTPUTS 2022-23			OUTCOMES 2022-23		
	2022-23	Output	Indicators	Target 2022-23	Outcome	Indicators
10,954.44	<b>a. Accelerated Irrigation Benefits Programme (AIBP)</b>					
	1. Expedite Implementation of AIBP works 46 projects (including	1.1. No. of AIBP projects targeted for completion by March 2023. <sup>4</sup>	10 projects by March 2022 and another	1. Creation of additional irrigation potential	1.1. Total additional Irrigation Potential Created (in lakh Ha) through PMKSY-AIBP	3.5 lakh Ha

<sup>4</sup>60 projects (including phases) are currently under progress, and 10 projects are targeted for completion by March 2022.

FINANCIAL OUTLAY (Rs. In Cr.)	OUTPUTS 2022-23			OUTCOMES 2022-23			
	2022-23	Output	Indicators	Target 2022-23	Outcome	Indicators	Target 2022-23
		phases) completed so far.		20 projects by March 2023	2. Resulting in increase in yield of crops & income of farmers; replenishment of ground water and increased water availability for other uses.	2.1 Increase in crop yield attributable to increased irrigation from PMKSY- AIBP	Target not amenable <sup>5</sup>
						2.2 Increase in groundwater levels attributable to PMKSY-AIBP	Target not amenable <sup>6</sup>
	<b>b. Har Khet Ko Pani (HKKP)</b>						
	<b>i. Command Area Development &amp; Water Management (CADWM)</b>						

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<sup>5</sup> Cannot be quantified

<sup>6</sup> Ibid

FINANCIAL OUTLAY (Rs. In Cr.)	OUTPUTS 2022-23			OUTCOMES 2022-23			
	2022-23	Output	Indicators	Target 2022-23	Outcome	Indicators	Target 2022-23
	1.	CADWM works in the identified prioritised projects	1.1. Central Assistance released to the states (in Rs. crore)	190	1. Reduce the gap between Irrigation potential created and utilized	1.1. Additional culturable command area covered (in lakh ha.)	2
			1.2. Additional no. of Water Users Associations created	400	2. Strengthen participatory irrigation management	2.1. Command area (in lakh ha) covered for participatory irrigation management through the Water User Associations formed.	2
			1.3. No. of assets handed over to the Water User's Associations <sup>7</sup> (Additional)	300			
	<b>ii. Surface Minor Irrigation (SMI) &amp; Repair, Renovation and Restoration (RRR) of Water Bodies</b>						
	1.	Expedite progress on the RRR/SMI components of the scheme	1.1. Additional no. of RRR & SMI projects to be completed (projects/water bodies)	100 projects/water bodies	1. Creation of additional irrigation potential	1.1. Additional irrigation potential created (in lakh ha)	0.5
<b>iii. Ground Water Irrigation</b>							

<sup>7</sup>2900 Assets that have been handed over to no. of WUAs and Cumulative WUAs created till date is 8391.

<b>FINANCIAL OUTLAY (Rs. In Cr.)</b>	<b>OUTPUTS 2022-23</b>			<b>OUTCOMES 2022-23</b>		
<b>2022-23</b>	<b>Output</b>	<b>Indicators</b>	<b>Target 2022-23</b>	<b>Outcome</b>	<b>Indicators</b>	<b>Target 2022-23</b>
	1. Creation of Ground water abstraction structures	1.1. No. of wells constructed with pumps, Pipes/in Safe <sup>8</sup> blocks/districts:	Targets not amenable <sup>9</sup>	1. Development of additional Irrigation potential and irrigation facility to farmers	1.1 Creation of additional command area (in ha)	Targets not amenable <sup>10</sup>
					1.2 Numbers of farmers benefitted	Targets not amenable <sup>11</sup>
	<b>c. Special Package for Irrigation projects in Maharashtra</b>					
	1. Expeditious implementation of Major & Medium Irrigation (MMI) and Surface Minor Irrigation (SMI) Project. 18 SMI	1.1. No. of Major & Medium Irrigation (MMI) projects to be completed by March-23	1 project by March 2022 and an additional 3 projects by March 2023	1. Creation and utilization of additional irrigation potential in the command of the projects under special package	1.1. Additional irrigation potential created (in Lakh Ha.)	1
					1.2. Irrigation Potential utilised <sup>12</sup>	100% (on completion of CADWM, agricultural

<sup>8</sup> After the implementation of scheme Stage of GW development should not exceed 70%

<sup>9</sup> The Expenditure Finance Committee (EFC) meeting was held on 6th August '21 for continuation of PMKSY-HKPP-GW Irrigation scheme for 2021-26. The EFC has recommended to review the performance of the scheme after March '22 to take a final view about its continuance during the remaining period of XV Finance Commission cycle.

<sup>10</sup> Ibid

<sup>11</sup> Ibid

<sup>12</sup> IPU is dependent upon CADWM works, agriculture extension works etc.

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<b>2022-23</b>	<b>Output</b>	<b>Indicators</b>	<b>Target 2022-23</b>	<b>Outcome</b>	<b>Indicators</b>	<b>Target 2022-23</b>
	projects completed					extension works, etc.)
		1.2. Additional No. of Surface Minor Irrigation (SMI) projects to be completed by March-23	65	2. Resulting in increase in yield of crops & income of farmers; replenishment of ground water and increased water availability for other uses.	2.1 Increase in crop yield attributable to increased irrigation from Special Package for Irrigation projects in Maharashtra	Targets not amenable
					2.2 Increase in groundwater levels attributable to Special Package for Irrigation projects in Maharashtra	Targets not amenable
	<b>d. Irrigation Census- Standalone component</b>					
	1. Conducting 2 <sup>nd</sup> census of water bodies in convergence with of 7 <sup>th</sup> MI Census	1.1 Undertaking preparatory activities:  (i) Formulation of schedules/ instruction manuals/ concepts& definitions for data collection of 7 <sup>th</sup> Minor Irrigation Census and	06	1. Information based planning and policy formulation in Minor Irrigation Sector.	1.1 Activities for data dissemination to be undertaken:  (i) Publishing of National level report of 6 <sup>th</sup> Minor Irrigation Census	03

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2022-23	Output	Indicators	Target 2022-23	Outcome	Indicators	Target 2022-23
		<p>2<sup>nd</sup> Census of Water bodies.</p> <p>(ii) Finalisation of schedules/ instruction Manual and concepts and definitions in consultation with concerned States/UTs, Central line Ministries and other stake holders</p> <p>(iii) Constitution of Steering Committee</p> <p>(iv) Meeting of Steering Committee for finalising the statistical instruments</p> <p>(v) Development of mobile app and software for real time data entry &amp; validation of schedules</p>			<p>and first Census of Waterbodies.</p> <p>(ii) Creation of dashboard for 6th Minor Irrigation Census and first Census of Waterbodies.</p> <p>(iii) Publishing of data up to village level in OGD platform data.gov.in</p>	

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<b>2022-23</b>	<b>Output</b>	<b>Indicators</b>	<b>Target 2022-23</b>	<b>Outcome</b>	<b>Indicators</b>	<b>Target 2022-23</b>
		(vi) Pilot testing of mobile app				
		1.2 Conduct of 01 All India and 06 Regional Workshops for undertaking 2 <sup>nd</sup> census of water bodies in convergence with of 7 <sup>th</sup> MI Census	Organization of 01 All India and 06 Regional Workshop			

### 3. National Ganga Plan, Ghat Works and National River Conservation Programme – Namami Gange (CS)

<b>FINANCIAL OUTLAY (Rs. In Cr.)</b>	<b>OUTPUTS 2022-23</b>			<b>OUTCOMES 2022-23</b>		
<b>2022-23</b>	<b>Output</b>	<b>Indicators</b>	<b>Target 2022-23</b>	<b>Outcome</b>	<b>Indicators</b>	<b>Target 2022-23</b>
2,800	1. Preventing direct discharge	1.1. Sewage Treatment Capacity installed (in MLD)	615	1. Improved water quality	1.1. Average B.O.D content	3



FINANCIAL OUTLAY (Rs. In Cr.)	OUTPUTS 2022-23			OUTCOMES 2022-23			
	2022-23	Output	Indicators	Target 2022-23	Outcome	Indicators	Target 2022-23
		of sewage into Ganga and treatment of sewage.			to achieve prescribed bathing standards by 2023.	( $\leq$ mg/l)	
						1.2. Average D.O. content ( $\geq$ mg/l)	5
		2. Pollution abatement through regulation of direct discharge of industrial waste in Ganga and monitoring of water quality.	2.1. % of complying Grossly Polluting Industries.	100	2. Improved water quality to achieve prescribed bathing standards by 2023.	2.1. Average B.O.D content ( $\leq$ mg/l)	3
			2.2. Cumulative number of Manual water quality monitoring stations installed.	97 (previousl y) <sup>13</sup>		2.2. Average D.O. content ( $\geq$ mg/l)	5
			2.3. Number of additional Real Time water quality monitoring stations installed	40			
			2.4. Cumulative number of Real Time water quality monitoring stations installed.	36 (previousl y) + 40			

<sup>13</sup> Already installed, no additional manual water quality station planned to be installed during F.Y. 2022-23.

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<b>2022-23</b>	<b>Output</b>	<b>Indicators</b>	<b>Target 2022-23</b>	<b>Outcome</b>	<b>Indicators</b>	<b>Target 2022-23</b>
			(additional)			
	3. Planning and management for Aquatic species conservation and maintenance of Ecosystem services in the Ganga River basin for a clean Ganga.	3.1. No. of Carp fingerlings ranched in selected stretches Ganga in UP, Bihar and West Bengal.	5,00,000	3. Improved fish biodiversity of river Ganga. Increased awareness about conservation of fish biodiversity among fisherman communities.	3.1. Improved catch per unit hour of effort.	Target not amenable
		3.2. No. of Mahaseer (keystone species) brooders developed.	3,000		3.2. Increase in Mahaseer population (by experimental fishing or surveying the fishermen) (in kgs)	Target not amenable <sup>14</sup>
		3.3. No. of adult Hilsa ranched in Farakka stream.	5,000		3.3. Increased availability of Hilsa upstream of Farraka up to Allahabad (Yes/No)	Yes
	4. Increasing area afforested area.	4.1. Additional Area Covered under afforestation (in ha.)	0 <sup>15</sup>	4. Improvement in quality and	4.1. % Survival of the plants	Target not amenable <sup>16</sup>

<sup>14</sup>Since the brooder development will take 2-3 years, the outcomes shall only be measures post breeding raising fingerling and ranching.

<sup>15</sup>Carried out by MoEF&CC through National & State CAMPA fund.

<sup>16</sup>Target cannot be quantified in the short-term, as the outcome of afforestation works for improving wholesomeness of the river and Aviral Dhara will be felt in the long term

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	2022-23	Output	Indicators	Target 2022-23	Outcome	Indicators	Target 2022-23
		4.2	Cumulative afforested area being maintained (period of 5 years) (in ha)	28,000	quantity of precipitation, which would contribute to the objective of improving the wholesomeness of the river and Aviral Dhara.		

#### 4. National Hydrology Project (NHP) (CS)

FINANCIAL OUTLAY (Rs. In Cr.)	OUTPUTS 2022-23			OUTCOMES 2022-23			
	2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
800	<b>National Water Information Centre</b>						
	1.	Strengthening of Integrated Water Resource Information System	1.1. No of additional Real Time Hydromet Stations with Water Data on line for surface as well as ground water.	6,000	1. Making available enhanced Water Resources information for better water resources planning and informed decision	1.1. No of States with strengthened hydromet monitoring systems	10

FINANCIAL OUTLAY (Rs. In Cr.)	OUTPUTS 2022-23			OUTCOMES 2022-23			
	2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
					making for extreme events.		
		1.2. No. of existing modules of India WRIS to be enhanced.	10	2. Number of users visiting India WRIS portal along with number of data downloads	2.1 No. of incremental users in F.Y. 2022-23	13,000	
					2.2 No. of incremental Data Download	25,000	
	2.	Installation of Supervised Control and Data Acquisition System (SCADA) for better Water Resource Management	2.1. No. of Projects being undertaken by the Implementing Agencies.	13	3. Automatic system operation based on Real Time data acquisition with reduced margin of errors and skill improvement of operational staff.	3.1. No. States and River basin Organisation benefiting out of these.	8
	3.	Construction of Piezometers for effective Ground Water Monitoring	3.1. No. of Piezometers being installed by the Implementing Agencies	2,000	4. Improved Ground Water Resource Estimation along with installation of DWLRs for Real time water level and Quality monitoring for better Ground Water Management	4.1. No. States/UTs benefiting out of these.	15

FINANCIAL OUTLAY (Rs. In Cr.)	OUTPUTS 2022-23			OUTCOMES 2022-23			
	2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
	4.	Institutional Strengthening	4.1. No of additional Data Centre set up	8	5. Converting data into knowledge products for informed decision making and enhanced capacity building for water resources professionals	5.1 No of Knowledge Products	8
			4.2. No. of Trainings conducted (Both Online & Offline Mode)	60		5.2 No. of Water Resources Professionals trained	700
	5.	Setting up of Inundation Forecast	5.1 No. of basins to be covered for Operational Inundation mapping based upon flood forecast with additional lead-time.	2	6. Enhanced responsiveness to flood forecasting <sup>17</sup>	6.1 Enhancement in lead time for flood forecasting. (In hours) <sup>18</sup>	48 hrs to 72 hrs
						6.2 River basin area under monitoring for floods. (in lakh sq. km)	3.75 (Total Basin area)

<sup>17</sup> Apart from water levels in the rivers, on completion of the system in 2022-23, mapping of expected inundation extent including the depth of inundation Improved lead time in case of forecast based upon meteorological parameters would be possible

<sup>18</sup> The baseline is – up to 24 hours.

**5. Atal Bhujal Yojana (CS)**

FINANCIAL OUTLAY (Rs. In Cr.)	OUTPUTS 2022-23			OUTCOMES 2022-23				
	2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23	
700	1.	Improved ground water monitoring and	1.1. Additional no. of monitoring wells.	4,000	1.	Improved awareness about the local ground	1.1. No. of Gram panchayats having	1,670

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	2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
		dissemination of data	1.2. No. of block-wise ground water reports published.	100	water scenario among the community	communities with improved awareness	
	2.	Community led Water Security Plans (Prepared / Updated	2.1. No. of Water Security Plans finalized and approved 3511 WSPs	3,511	2. Comprehensive plans to ensure sustainable development of available water.	2.1. Number of Supply side interventions constructed as per the plan	Target not amenable
						2.2. Increased area under efficient water use	Target not amenable
	3.	Public financing of Water Security Plans through convergence of ongoing/ new schemes	3.1. Cost of interventions (as per approved water security plan) implemented through convergence.	644 crore	3. Optimal use of available funds for facilitating sustainable water management	3.1. Number of blocks which have achieved convergence	42 blocks
	4.	Drip / sprinkler Crop diversification	4.1. Increase in area under Drip / Sprinkler Irrigation.	Target not amenable	4. Improved water use efficiency in agriculture	4.1. Volume of water conserved	Target not amenable <sup>19</sup>
			4.2. Increase in area with diversified crops (in ha.)	Target not amenable		4.2. No. of farmers using drip/sprinkler irrigation.	5,000 Overall

<sup>19</sup> In the absence of data capture mechanisms, numbers from empirical calculations to be used.

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	2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
						4.3. No. of farmers undertaking crop diversification.	5,000