

SCADA-IOT BASED IRRIGATION MODERNISATION UNDER PMKSY

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Water being a State subject, it is for the State Government concerned to plan, implement and manage the irrigation projects, and to prepare action plan to make irrigation system more extensive in the State. Role of Government of India is limited to providing technical support, and partial financial assistance for identified projects under the ongoing schemes.

Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) was launched during the year 2015-16, with an aim to enhance physical access of water on farm and expand cultivable area under assured irrigation, improve on-farm water use efficiency, introduce sustainable water conservation practices, etc. Extension for implementation of PMKSY during 2021-22 to 2025-26 has been approved by Government of India in December, 2021.

Technological innovations such as underground pipelines, micro-irrigation, SCADA based monitoring etc. are promoted under Pradhan Mantri Krishi Sinchayee Yojana- Accelerated Irrigation Benefits Programme (PMKSY-AIBP). States are encouraged to adopt such interventions for enhanced water use efficiency.

Some of the important projects under PMKSY-AIBP with SCADA as a component are listed at **Annexure-I**.

Further, the Cabinet has approved to implement pilot projects for Modernization of Command Area Development and Water Management (M-CADWM) as a sub-scheme of PMKSY on 09.04.2025. The scheme aims for efficient distribution and utilisation of water through pressurised piped network and use of micro-irrigation in a designated cluster by adopting the principles of integrated water resources management. The Supervisory Control and Data Acquisition (SCADA) and Internet of Things (IoT) are also envisaged for water accounting and water management under the scheme. A total of 32 nos. of clusters in 23 States/UTs are sanctioned for inclusion under the M-CADWM Scheme. The details of 32 nos. of clusters are at **Annexure-II**.

Mother Sanctions (Budget allotment) under PMKSY-AIBP are issued to States project wise. Components under a project is undertaken in a financial year on the basis of progress made under the project and their action plan for execution of the project in that financial year. For M-CADWM Scheme, the approved total outlay is Rs. 1600 crores of which Central Share is Rs. 1100 crores (including Rs.100 crores for Administrative and Other Expenses) and State share is Rs. 500 crores. Rs. 550 crores is the budget outlay in BE 2026-27.

The details in respect of M-CADWM Scheme are placed at **Annexure-II**.

However, M-CADWM Scheme will develop suitable models for different agro-climatic zones, integrating various sources of water, and different levels of water availability, covering both areas of assured irrigation and protected irrigation. These models will pave the way for development of a national

plan for modernization of water management in rural area in general and irrigation services in particular based on integrated, sustainable, efficient and inclusive water management.

The information was provided by **THE MINISTER OF STATE FOR JAL SHAKTI SHRI RAJ BHUSHAN CHOUDHARY** in a written reply to a question in Lok Sabha today.

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(Lok Sabha USQ 3376)

ANNEXURE-I

Important projects under PMKSY-AIBP with SCADA as a component

Sl. No.	State	Name of the Project	Status of the project
(1)	(2)	(3)	(4)
1.	Karnataka	ERM of Narayanpur Left Bank Canal	Completed
2.	Madhya Pradesh	Indira Sagar Canal Project Phase-V (Khargaon Lift)	Completed
3.	Maharashtra	Lower Wardha Project	Completed
4.	Maharashtra	Bembla River Project	Completed
5.	Maharashtra	Dongargaon Project	Completed
6.	Maharashtra	Bodwad Parisar Sinchan Yojna Stage-I	Ongoing
7.	Maharashtra	Gosikhurd Project	Ongoing
8.	Maharashtra	Lower Pedhi Project	Ongoing
9.	Telangana	J. Chokka Rao Devadula Lift Irrigation Scheme	Ongoing
10.	Jharkhand	Subernrekha Multipurpose Project	Ongoing

ANNEXURE-II

List of Projects/Clusters sanctioned under M-CADWM

SN	State / UT	Cluster Name	District	Cluster CCA (Ha)	Total Cost (Rs. In Cr.)	Amount Released to State/UT (5% of CA) (Rs. in Thousand)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Andhra Pradesh	Peddagedda Project WUA - 3,4,5,6 Clusters	Vizianagaram, Paravathipuram Manayam	3061	60.76	18,228
2	Arunachal Pradesh	Dekam Rikmeng (Ledum Village)	East Siang	978	19.41	8,736
3	Assam	Singua FIS	Kamrup	1200	23.82	10,719
4	Bihar	Mahmadpur	Muzaffarpur	2450	48.6325	14,590
		Badal(480)				
5	Bihar	Bangra-	Saran	2,195	43.57	13,071
		Kishunpur				
6	Chhattisgarh	Bagiya	Jashpur	4831	95.90	28,769
7	Goa	Sal, Vadaval, Mencurem /Advalpal	North Goa	1,563	31.03	9,308
8	Gujarat	Mandvi- Mangrol Taluka Villages	Surat	6,069	120.46	36,139
9	Gujarat	Pinchhavi	Gir Somnath	523	10.38	3,114
10	Haryana	Panihar- Choudhariwas	Hisar	4,950	98.26	29,477
11	Himachal Pradesh	Haroli Block, District Una	Una	4889	97.05	43,671

12	Karnataka	Distributary 54 9R of Tungabhadra Left Bank Canal	Raichur	2,600	51.61	15,483
13	Karnataka	Hattikuni	Yadgiri	2,145	42.58	12,773
14	Madhya Pradesh	Gudariya	Khandwa	2,320	46.05	13,816
15	Madhya Pradesh	Netangaon	Khandwa	2,387	47.38	14,213
16	Madhya Pradesh	Bahuti PH2	Rewa	3160	62.73	18,818
17	Maharashtra	AsodaBhadali Branch canal of Waghur LBC	Jalgaon	4996	99.17	29,751
18	Manipur	Pengjang	Churachandpur	500	9.93	4,466
19	Meghalaya	Lyngkhoi FIP	East khasi Hills	170	3.37	1,519
20	Mizoram	Champhai Sub-Valley MCAD Cluster, Champhai	Champhai	320	6.35	2,858
21	Nagaland	Mongleu Jalukie	Peren	200	3.97	1,787
22	Odisha	MCAD Cluster-V	Nuapada	3,180	63.12	18,937
23	Punjab	SBS Nagar	SBS Nagar	856	16.99	5,097
24	Punjab	Ludhiana, Malerkotla, Fatehgarh Sahib	Ludhiana, Malerkotla, Fatehgarh Sahib	1500	29.78	8,933
25	Rajasthan	Right Main Canal (RMC) of Bisalpur Project	Tonk	5,000	99.25	29,775

26	Tamil Nadu	Palladam Extension canal	Tiruppur	4,989	99.03	29,709
27	Tripura	Brahmacherra	Khowai	135	2.68	1,206
28	Uttar Pradesh	Bargadwa	Gorakhpur	149	2.96	887
29	Uttar Pradesh	Malaon& Majhagavan	Gorakhpur	550	10.92	3,275
30	Uttar Pradesh	Prajapatipur	Sant Kaabir Nagar	284	5.64	1,691
31	Uttar Pradesh	Rajdhani	Gorakhpur	790	15.68	4,704
32	J&K	Patyari	Samba	400	7.94	3,573

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