

**Government of India
Ministry of Jal Shakti
Department of Water Resources, RD&GR
CADWM Wing

Room 299, F-Wing, Krishi Bhawan
Dr. Rajendra Prasad Marg, New Delhi

OFFICE MEMORANDUM

Subject: Modernization of Command Area Development and Water Management (M-CADWM) – a Sub Scheme of PMKSY

The undersigned is directed to convey the approval of Government of India for implementation of Pilot Projects for Modernization of Command Area Development and Water Management (M-CADWM) as a Centrally Sponsored Scheme (CSS) sub-scheme of Pradhan Mantri Krishi Sinchayee Yojana (PMKSY). Major details of the scheme are at **Annexure-I**.

2. The total outlay of the sub-scheme is ₹ 1600 Crores for the period 2025-26. The outlay for the central share will be Rs. 1100 Crores, which includes ₹ 100 Crore of Central Component as Administrative & Other Expenses (A&OE).
3. Detailed guidelines for the implementation of M-CADWM Scheme will be issued and updated from time to time based on the recommendations of Empowered Committee and approval by Hon'ble Minister, Jal Shakti.
4. The implementation of the scheme shall be as per the approved Cabinet Note.

(Bhaskar B. Saikia)
Sr. Joint Commissioner (CADWM)
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To:

1. Secretary, Department of Expenditure, Ministry of Finance, New Delhi
2. Secretary, Department of Economic Affairs, Ministry of Finance, New Delhi.
3. Secretary, Department of Financial Services, Ministry of Finance, New Delhi
4. Secretary, Deptt. of Agriculture & Farmers Welfare, MoA&FW, New Delhi

5. Secretary, Department of Drinking Water & Sanitation, MoJS, New Delhi
6. Secretary, Ministry of Panchayat Raj, New Delhi
7. Secretary, Department of Land Resources, MoRD, New Delhi
8. Secretary, Ministry of Cooperation, New Delhi
9. Secretary, Ministry of New & Renewable Energy, New Delhi
10. Secretary, Ministry of Environment, Forest & Climate Change, New Delhi
11. Chairman, Central Water Commission, MoJS, New Delhi
12. Chairman, Central Ground Water Board, MoJS, New Delhi
13. Additional Secretary (Admin, IC&GW), DoWR, RD&GR, MoJS, New Delhi
14. Principal Secretary/ Secretaries of the Irrigation/Water Resources Departments of various States as per list at **Annexure-II**
15. Advisor, Project Appraisal & Management Division, NITI Aayog, New Delhi

Copy for kind information to:

1. PS to Hon'ble Minister (WR, RD&GR), MoJS
2. PS to Hon'ble Minister of State (WR, RD&GR), MoJS
3. Sr. PPS to Secretary (WR, RD&GR), MoJS
4. PPS to Additional Secretary (WR, RD&GR), MoJS
5. PPS to Commissioner (CADWM), MoJS

ANNEXURE-I

Modernization of Command Area Development and Water Management M-CADWM – a Sub Scheme of PMKSY

1. Introduction

1.1 Government of India plans to implement pilot projects for modernization of command area development and water management (M-CADWM). M-CADWM Scheme has accordingly been formulated, which seeks to transform the existing CADWM component of Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) to make it more integrated, efficient, sustainable and inclusive.

1.2 M-CADWM will accelerate adoption of Integrated Water Resources Management. The Scheme envisages both supply side and demand side interventions and adopts the principles of integrated water resources management. The scheme aims to accelerate access to some means of assured or protective irrigation to agricultural farms in the country, thus bringing much desired rural prosperity and food security for the country.

1.3 As part of the revamped scheme, it is proposed to implement pilot M-CADWM projects across various agro-climatic zones in the country incorporating institutional, technical and management reforms and strategies in command area development and water management. Based on the learnings in design and structuring of these projects, National Plan for Command Area Development and Water Management will be designed.

1.4 The Scheme envisages development of 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.

2. Objectives of M-CADWM Scheme

The broad objectives of M-CADWM scheme are:

- i) To promote water security in rural areas particularly for irrigation services by adopting integrated water resources management with supply side and demand side interventions,
- ii) To enhance the supply side by integrating all water sources, efficient distribution and using appropriate water saving technologies and practices,
- iii) To manage the demand side effectively through water conservation, community mobilization, awareness and capacity building,
- iv) To expand cultivable area under assured and protected irrigation irrespective of the nature of existing command areas, by aligning command areas to administrative boundaries at the village, block and district level.

3. Vision of M-CADWM Scheme

India to be a water and food secure nation with prosperous rural areas.

4. Mission of M-CADWM Scheme

India will have integrated, efficient, equitable and sustainable management of water resources for agriculture in particular and rural areas in general.

5. Key Strategic Pillars of M-CADWM

Implementation of M-CADWM will follow the following key strategies.

5.1 Area based approach

M-CADWM will follow area based approach and align the command area development and water management to the administrative boundaries of village, block and district, to utilize the capacity, accountability and legitimacy of existing administrative hierarchies. A block will further be divided into clusters of contiguous villages to be called Irrigation Clusters for ease of implementation. These administrative units facilitate planning of M-CADWM initiatives and measuring performance of M-CADWM in the country.

5.2 Master Plan, Convergence and Saturation approach

A master plan will be prepared for each block for water management, viz. development of water sources including water conservation, harvesting and recharge, distribution network, efficient farm level application, demand management, participatory governance, extension services on new

technologies & information. This will act as water security plan for the block. The Plan will utilize convergence of all water related central and state schemes in the block suited to the local context and requirement.

It will include convergence of schemes such as SMI/ RRR component of PMKSY, watershed development component of PMKSY, creation or restoration of water bodies under MGNREGA, Micro Irrigation under RKVY and Micro Irrigation Fund, PM-KUSUM scheme for farmers, Ground water schemes such as Atal Bhujal Yojna etc. The scheme will follow a saturation approach and in case funding is not available from the relevant scheme for the cluster, provision of funds will be considered under M-CADWM scheme within the overall allocation.

5.3 Programmatic and Projectised approach

The Scheme will follow a programmatic and projectised approach. A detailed plan for various programmatic and project interventions will be prepared through professional agencies in line with the scheme guidelines and include the funding, milestones and timelines for various activities. Professional support will be provided for program and project management at various levels to ensure smooth implementation of the scheme. A project under the scheme will usually cover the entire development block but in case of it being very large, the project may cover some of the clusters in the block. Similarly, a project may also cover more than one block.

5.4 Promote conjunctive and integrated use of water

The Scheme will promote conjunctive and integrated use of all sources of water in the cluster including canal water, water tanks and water bodies, ground water, treated waste water etc. in an optimal manner. All the components of the water cycle will be considered as one single resource, and therefore are managed in closest possible coordination, in order to maximize overall benefits from water at the short and at the long term.

5.5 Promote water conservation and efficiency

The Scheme will promote water conservation and harvesting to supplement water resource availability and focus on efficient distribution and utilization of water converging with the efforts being made under Jal Shakti Abhiyan. The distribution of water will be done through pressurized piped network to enhance water use efficiency as compared to gravity based field channels.

5.6 Promote participatory governance through WUS

The Scheme will be implemented with full participation of water users. Water User Societies (WUSs) will be formed before the planning and implementation of the project in any cluster. WUSs will work at village, cluster and block level. The irrigation management system will be transferred to the WUSs, which will be responsible for operation and management of the same. Water User Societies will be registered as societies and suitably empowered by the State Governments. There will be annual audit of WUS as per norms.

5.7 WUS to be developed as dynamic and vibrant organizations

WUS will be developed as a dynamic and vibrant organizations to facilitate implementation of various water and allied schemes enhancing sustainable management of water, farmer's income and rural livelihoods. WUS will work towards developing the cluster as economic hub through its integration and partnerships with other similar initiatives such as FPOs, PACS etc.

5.8 Training and Capacity Building of WUS

Social and professional organizations will be employed for mobilization, training and capacity building of farmers and WUSs. The training and capacity building will cover various relevant aspects including technical, financial, administrative, extension, agri-business, marketing, credit, legal / dispute resolution etc. Jal Shakti Kendras will be set up for IEC, training and capacity building activities.

5.9 Provide irrigation as a service

The Scheme will ensure that water is delivered to the users in a reliable manner and the user will pay only if the delivery is made as per agreed service levels and performance indicators. One or more irrigation service providers may be engaged to provide services in the clusters. Models to provide irrigation as a service will be developed keeping in view the specific conditions of various regions.

5.10 Leverage innovation and technology

The scheme will leverage innovation and technology for water management, audit and performance assessment. The Scheme will engage startups to encourage innovative solutions to meet the objective of integrated,

sustainable, efficient and inclusive water management. The Scheme will use GIS and satellite data for planning, use of SCADA/ IoT based systems for service level monitoring, volumetric measurement of water used, measuring WUE/ water productivity of each field amongst other applications.

6. Key Phases in the implementation of the Scheme

The Scheme will be implemented in the following manner.

6.1 Preparatory Phase

In the preparatory phase, the Department will set up central institutional structure, national program management unit, detailed guidelines, model documents etc. The States will also set up institutional structure notifying nodal department, project implementation authority and District M-CADWM committees. The Department will also carry out selection of blocks for the implementation of the scheme through challenge mode and sign MOUs with the respective States, Project Implementation Authorities and District M-CADWM Committees to work towards modernization of command area development and water management and undertaking key reforms for efficient, sustainable and inclusive water management in the States

6.2 Preparation and approval of Master Plan and Project Report

Pursuant to signing of MoU, funds will be released to the States for mobilization of farmers and preparation of master plan and detailed project report. The States will set up SPMUs and DPMUs and undertake activities for mobilization and formation of Water User Societies and capacity Building of WUS concurrently. The States through Project Implementation Authority and District M-CADWM Committees will prepare master plans, detailed project reports etc. as per template and submit the same for scrutiny and approval as per the guidelines.

6.3 Implementation Phase

Once the programmatic and projectised interventions are sanctioned, the Project Implementation Authority and District M-CADWM will carry out the implementation of various components and interventions including procurement of services of Irrigation Service Provider (ISP), training and capacity building of farmers and WUSs, implementation of convergence components etc. The progress will be reviewed at District, State and National level. Once the core infrastructure components enabling service delivery are completed, tested and accepted by the Project Implementation Authority, the project will be declared as commenced. Project

Implementation Authorities and District M-CADWM will then initiate the steps for Irrigation Management Transfer to WUS.

6.4 Operation and Management Phase

The Project Implementation Authority and District M-CADWM will ensure transfer of irrigation infrastructure to WUSs and ISP will be responsible to WUS for performance. The capacity building of WUS will be continued. A mechanism will be set up to carry out regular third party audit, make payments to ISP after deducting payments for breaches in service levels, if any. Implementation of other interventions will be followed up and monitored. Water use efficiency and other performance parameters will be monitored using IoT, SCADA and satellite based data and prepare accurate water accounts.

6.5 Exit Phase

Once the irrigation management has been fully transferred to WUS, and WUS has been fully trained and empowered and can manage the irrigation system as stipulated in the irrigation management transfer, the Project Implementation Authority will exit from the project and confine to bulk supply of water to WUS and upstream systems within its control. District M-CADWM committee will continue to engage, monitor and facilitate WUS and other stakeholders.

7. Institutional Set Up and Governance for the Scheme

There will be following institutional set up and governance mechanism at central, state, district and cluster level for smooth implementation of the Scheme.

7.1 Central level

An empowered committee under Secretary (Water Resources) will be set up for effective implementation of the Scheme:

1	Secretary, DoWR, RD&GR, Ministry of Jal Shakti	Chairperson
2	Representative of Department of Agriculture (not below JS level)	Member
3	Representatives of Department of Rural Development (not below JS level)	Member
4	Representatives of NITI Aayog (Not below JS level)	Member
5	Representative of Ministry of Environment (Not below JS level)	Member
6	Chairman, CWC	Member
7	Chairman, CGWB	Member

8	Additional Secretary, DoWR, RD&GR, Ministry of Jal Shakti	Member
9	Financial Advisor, DoWR, RD&GR, Ministry of Jal Shakti	Member
10	Commissioner, CADWM	Member Secretary

The Empowered Committee will have the following powers and functions:

- i. To take all the necessary decisions for smooth implementation of the Scheme to achieve its objectives,
- ii. To approve the projects submitted by the States and other interventions under the Scheme,
- iii. To approve standard operating procedures /guidelines / model contracts including engagement models for irrigation as a service,
- iv. To approve the convergence of various components of different schemes such as SMI/ RRR component of PMKSY, Watershed development component of PMKSY, Micro Irrigation Fund (MIF), PDMC component under RKVY etc., other relevant schemes and programs of Central and State Governments.
- v. The Empowered Committee may be assisted by Implementation and Technical Committees as may be required.
- vi. The Chairperson may invite representative of any other department or ministry as may be required.
- vii. CADWM Wing, Department of Water Resources will coordinate the implementation of the Scheme at national level.
- viii. National Program Management Unit will be set up through reputed professional agency to provide support for national level governance.

7.2 State level

A State Level Steering Committee will be set up under Chief Secretary and comprising of all the relevant stakeholders with administrative secretary of the nodal department as member secretary. The Steering Committee will ensure effective oversight, coordination and convergence of various schemes. The State will identify a nodal department, project implementation authority and a State Nodal Officer. The Project Implementation Authority, will be responsible for implementation of the project. There will also be a State Program Management Unit set up through professional agency to support state level program governance.

7.3 District and Cluster level

There will be a District M-CADWM Committee under the chairpersonship of

District Collector and comprising of all the relevant stakeholders at the district level. District M-CADWM Committee will be supported by District Program Management Unit for professional support. There will also be a Social facilitator to support mobilization of farmers and capacity building of Water User Societies and other agencies including gram panchayats. Suitable mechanism will be set up at the block/ cluster level for effective coordination and support for smooth implementation of the scheme.

8. Funding Arrangement

The scheme will be implemented as centrally sponsored scheme with total outlay of ₹1600 crores. The projects will be sanctioned during the remaining period of finance commission cycle i.e. upto March 2026. The funding pattern for scheme will be 60:40 (Centre: State) for all states except for 90:10 (Centre: State) in case of Himalayan, NE States & UTs as applicable for the Centrally Sponsored Scheme (CSS).

The projects will be expected to be completed in a period of one year. However, the central support for O&M of the irrigation system and handholding support to WUSs will continue for a period of five years after the completion of the project. The O&M of projects after initial 5 years under M-CADWM shall be borne by WUS/States. No Central funding would be provided. Subject to the overall central support for the project as above, the flow of funds will be in accordance with the Guidelines issued by Department of Expenditure from time to time.

9. Performance Linked Incentives (PLI)

Suitable incentives will be designed for early completion of the projects and achieving higher level of performance in delivery of services.

10. Detailed Guidelines

Detailed guidelines for the implementation of M-CADWM Scheme would be issued and updated from time to time based on the recommendations of Empowered Committee and approved by Minister, Jal Shakti.