

## **Pradhan Mantri Krishi Sinchayee Yojana**

### ***Protective Irrigation for Farms in India***

(Ministry of Agriculture & Farmers Welfare and Ministry of Jal Shakti)

July 01, 2022

*“As far as rural infrastructure is concerned, highest priority is being accorded to Pradhan Mantri Krishi Sinchayee Yojana to help our farmers”.*

- **Prime Minister Narendra Modi**

### **Introduction**

The overarching vision of Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) is to ensure access to protective irrigation for all agricultural farms in the country, to produce ‘per drop more crop’, thus bringing much desired rural prosperity.<sup>1</sup>

Launched on 1 July, 2015, the objective of PMKSY is to achieve convergence of investments in irrigation sector at field level. The scheme aims at providing end-to-end solutions in irrigation supply chain, viz., water resources, distribution network, farm level applications and improving water use efficiency. PMKSY not only focuses on creating sources for assured irrigation, but also creating protective irrigation by harnessing rain water at micro level through ‘Jal Sanchay’ and ‘Jal Sinchan’. **Micro Irrigation (MI)** is an integral component of PMKSY to maximise water use efficiency at field level.<sup>2</sup>



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- ▶ **Convergence of investments** in irrigation at the field level
- ▶ Expansion of cultivable area under **assured irrigation**
- ▶ Improving **on-farm water use efficiency** to reduce wastage of water
- ▶ Encouraging **precision-irrigation** and other water saving technologies.
- ▶ Around **35 Lakh** hectare of land irrigated using water saving methods since 2015
- ▶ Total **9.38 Lakh** hectare of land covered under micro irrigation methods in 2020-2021

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<sup>1</sup>[https://www.pmkSY.gov.in/pdflinks/Guidelines\\_English.pdf](https://www.pmkSY.gov.in/pdflinks/Guidelines_English.pdf)

<sup>2</sup>[Guideline\\_MIF03082018.pdf \(pmkSY.gov.in\)](#)

## Background

PMKSY is an umbrella scheme, providing central grants to the State Governments for specific activities detailed below. It consists of two major components by [Department of Water Resources](#), [River Development and Ganga Rejuvenation](#), namely, **Accelerated Irrigation Benefits Programme (AIBP)**, and **Har Khet Ko Pani (HKKP)**. HKKP, in turn, consists of Four Sub – Components: Command Area Development (CAD), [Surface Minor Irrigation \(SMI\)](#), Repair, [Renovation and Restoration \(RRR\) of Water Bodies](#), and Ground Water Development. In addition, PMKSY has [Watershed Development \(WD\)](#) component being implemented by Department of Land Resources. Further, during the years 2015-22, [Per Drop More Crop \(PDMC\)](#) component was being implemented by [Department of Agriculture and Farmers Welfare](#) under PMKSY, which has now been taken up under [Rashtriya Krishi Vikas Yojana \(RKVY\)](#).<sup>3</sup>

## Objectives of Pradhan Mantri Krishi Sinchayee Yojana

The Broad Objectives of PMKSY include the following:

- Achieve **convergence of investments in irrigation at the field level** (preparation of district level and, if required, sub district level water use plans).
- Enhance the physical access of water on the farm and expand cultivable area under assured irrigation (**Har Khet Ko Pani**).
- Integration of water source, distribution and its efficient use, to make best use of water through appropriate technologies and practices
- **Improve on-farm water use efficiency** to reduce wastage and increase availability both in duration and extent
- Enhance the adoption of precision-irrigation and other water saving technologies (**More Crop per Drop**).
- Enhance **recharge of aquifers** and introduce **sustainable water conservation** practices
- Ensure the integrated development of rainfed areas using the watershed approach towards soil and water conservation, regeneration of ground water, arresting runoff, providing livelihood options and other Natural Resource Management (NRM) activities.
- Promote extension activities relating to water harvesting, water management and crop alignment for farmers and grass root level field functionaries.
- Explore the feasibility of reusing treated municipal waste water for periurban agriculture
- Attract greater private investments in irrigation. This will in turn increase agricultural production and productivity and enhance farm income.<sup>4</sup>

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<sup>3</sup><https://pib.gov.in/PressReleaseIframePage.aspx?PRID=1814491>

<sup>4</sup>[https://www.pmkSY.gov.in/pdflinks/Guidelines\\_English.pdf](https://www.pmkSY.gov.in/pdflinks/Guidelines_English.pdf)

## Programme Components of PMKSY

- **Accelerated Irrigation Benefit Programme (AIBP)**

To focus on faster completion of ongoing Major and Medium Irrigation including National Projects.

- **Har Khet Ko Pani**

Har Khet Ko Pani (HKKP) focuses on [expanding cultivable area under assured irrigation](#), it is funded through the ongoing Command Area Development & Water Management (CADWM) programme. The component is implemented by the States through the Department that implements AIBP.

- **Per Drop More Crop**

“[Per Drop - More Crop](#)”, an integral component of PMKSY, focuses on maximizing water use efficiency at the farm level. Major activities under Per Drop - More Crop can be categorized into “Micro Irrigation” including Drip, Sprinkler, Micro Sprinklers etc. and “Supplementary Water Management Activities (SWMA)/ Other interventions”. SWMA activities include farm level secondary storage structures.

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### Pradhan Mantri Krishi Sinchayee Yojana - Ensuring Per Drop More Crop

Enhancing water use efficiency at farm level through Micro Irrigation (MI)

MI techniques sustains soil health besides:

- Reducing Irrigation cost up to 50%
- Reducing electricity consumption by about 31%
- Saving of fertilizers up to 42%
- Increasing productivity of fruits & vegetables by up to 52.8%
- Enhancing overall income of farmers in range of 20% to 68%

11.72 lakh ha covered under MI through Per Drop More Crop scheme in 2019-20

#AatmaNirbharKrishi

Date: 8 August, 2020

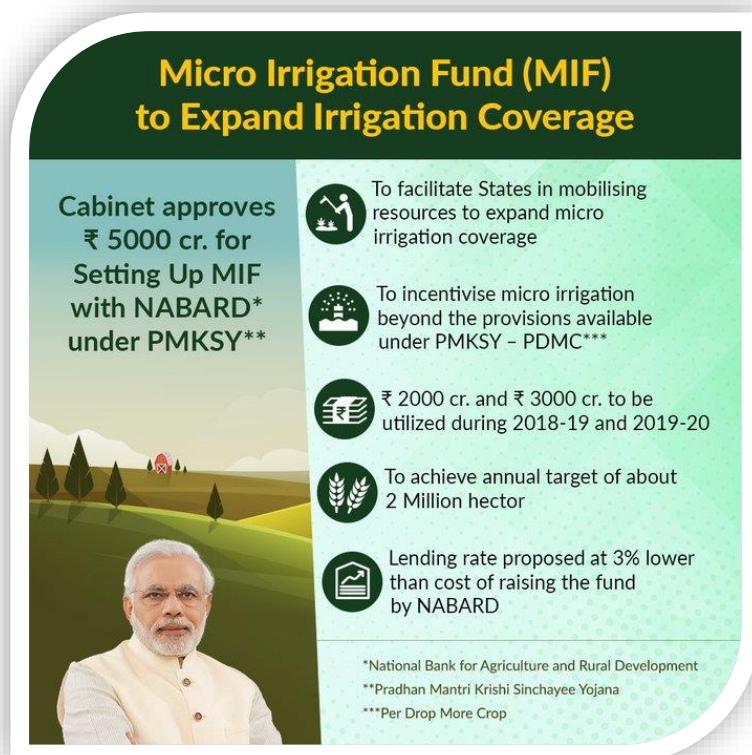
- **Watershed Development**

Watershed Development component focuses on Effective management of runoff water and improved soil & moisture conservation activities such as ridge area treatment, drainage line treatment, rain water harvesting, in-situ moisture conservation and other allied activities on watershed basis.

## Micro Irrigation Fund under PMKSY

**Micro Irrigation Fund (MIF)** has been created with National Bank for Agriculture and Rural Development (NABARD). The major objective of the fund is to facilitate the States in mobilizing the resources for expanding coverage of Micro Irrigation by taking up special and

innovative projects and also for incentivising micro irrigation beyond the provisions available under PDMC scheme to encourage farmers to install Micro Irrigation systems. [Indian Council of Agricultural Research \(ICAR\)](#) imparts training and organizes field demonstrations through [Krishi Vigyan Kendras \(KVKs\)](#) to educate farmers for promotion of efficient irrigation techniques/ Micro Irrigation for various crops.



The Government provides financial assistance/subsidy @ **55% of the indicative unit cost to Small & Marginal farmers and @45% to other farmers for encouraging them to install Drip and Sprinkler Irrigation systems** under the PDMC scheme to enhance the coverage. In addition, some States provide additional incentives/top up subsidy to reduce farmers' share for adoption of Micro Irrigation.<sup>5</sup>

The Government of India has been implementing Centrally Sponsored Scheme on Micro Irrigation with the objective to enhance water use

efficiency in the agriculture sector by promoting appropriate technological interventions like drip & sprinkler irrigation technologies and encourage the farmers to use water saving and conservation technologies.

### Budget Allocation

The Cabinet Committee on Economic Affairs approved [implementation of Pradhan Mantri Krishi Sinchayee Yojana \(PMKSY\) for 2021-26](#). Extension of PMKSY has been approved with an **overall outlay of Rs. 93,068.56 crore** (central assistance of Rs. 37,454 crore, debt servicing to NABARD for Rs. 20,434.56 crore and State share to be borne by the State Governments being Rs. 35,180 crore).

<sup>5</sup><https://pib.gov.in/PressReleasePage.aspx?PRID=1795499>



Component-wise details for the central assistance part are as given below:<sup>6</sup>

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Component	Total (Rs. in crore)
<b>Accelerated Irrigation Benefit Programme (AIBP) and Command Area Development &amp; Water Management(CAD &amp; WM)</b>	23,918
<b>Har Khet Ko Pani (HKKP)Surface Minor Irrigation (SMI), Repair, Renovation and Restoration (RRR)</b>	4,580
<b>HKKP (Ground Water) (for 2021-22 only)</b>	822
<b>Watershed Development (WD)</b>	8,134
<b>Grand Total</b>	<b>37,454</b>

With the extension of PMKSY, the following targets were set which will be achieved during the year 2021-2026.

Components under PMKSY	Targets (2021-26)
<b>Accelerated Irrigation Benefit Programme (AIBP)</b>	Additional irrigation potential of 13.88 lakh hectare
<b>Har Khet Ko Pani (HKKP)Surface Minor Irrigation (SMI), Repair, Renovation and Restoration (RRR)</b>	Additional irrigation of 4.5 lakh hectare
<b>HKKP (Ground Water) (for 2021-22 only)</b>	Irrigation potential of 1.52 lakh hectare
<b>Watershed Development (WD)</b>	49.5 lakh hectareto bring additional 2.5 lakh hectare under protective irrigation

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<sup>6</sup><https://pib.gov.in/PressReleaseIframePage.aspx?PRID=1814491>

<sup>7</sup><https://pib.gov.in/PressReleaseIframePage.aspx?PRID=1814491>

<sup>8</sup><https://pib.gov.in/PressReleasePage.aspx?PRID=1781719>

## Achievements

- Central funding of 90% of water component for two national projects, namely Renukaji Dam Project (Himachal Pradesh) and Lakhwar Multipurpose Project (Uttarakhand) has been provisioned. The two projects would provide beginning of storage in Yamuna basin benefitting six states of upper Yamuna basin, augmenting water supply to Delhi as well Himachal Pradesh, Uttarakhand, UP, Haryana, and Rajasthan and a major step towards rejuvenation of Yamuna.
- Department of Land Resources has taken up 6,382 projects under PMKSY-WDC. Out of these projects, 5,243 have been reported to be completed. <sup>9</sup>
- Under **PMKSY-Per Drop More Crop**, an area of **32.697 lakh hectare** has been covered under Micro Irrigation in the country through PMKSY-PDMC from 2018-19 to 2020-21.
- Since 2019, 15 projects have been approved under Ground Water (GW) sub-component of PMKSY-HKGP in 12 States namely Assam, Arunachal Pradesh, Gujarat, Nagaland, Manipur, Mizoram, Tripura, Telangana, Tamil Nadu, Uttar Pradesh, Uttarakhand and West Bengal.
- Under Repair, Renovation and Restoration (RRR) sub-component of PMKSY-HKGP, a total of **395 water bodies** have been **taken up since 2018-19** [Andhra Pradesh-100, Bihar-93, Gujarat-61, Tamil Nadu-141]. Out of these water bodies, **RRR of 100 water bodies have been reported to be completed since 2018-19**.
- Under Surface Minor Irrigation (SMI) sub-component of PMKSY-HKGP, a total of **1,321 schemes have been included since 2018-19** [Arunachal Pradesh-604, Himachal Pradesh-4, Manipur-375, Meghalaya-68, Nagaland-270]. Out of these schemes, **77 schemes have been reported to be completed since 2018-19**.

## References:

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<sup>9</sup><https://pib.gov.in/PressReleaseIframePage.aspx?PRID=1796202>

**Tweets:**

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**AG/HP/RC/KG/TT**