

Pradhan Mantri Krishi Sinchayee Yojana (PMKSY)

Har Khet Ko Paani



Land & Water Resource (2012)

- Total Precipitation 4000 BCM
- Utilizable 1123 BCM(SW 690, GW 433)
- Utilized 634 BCM(SW 403,GW 231)
- Net Sown Area 141 Million ha
- Gross Cropped Area 195 Million ha
- Net Irrigated Area 65 Mha (SW 25, GW 40)
- Irrig. Potential Created 112 Million ha
- Potential utilized 91 Mha (Gross irrigated)
- Precision Irrigation 7.7 Million ha



Increase in Irrigation Coverage

Year	Net Irrig Area (Mha)	Gross Irrig Area (Mha)
1982	40	51
1992	50	66
2002	57	78
2012	65	91

Source of Irrigation

➤ Canals	26%
➤ Tube wells	45%
➤ Dug Wells	18%
➤ Tanks	3.5%
➤ Others	7.5%

Background

- Budget 2014-15 (July,14) - Rs.1000 crore (in MoWR Budget)
- DAC was assigned as Nodal Dept on 14th November,2014
- Conceptualised as a single scheme for gap filling on area saturation approach
- EFC Note and Guidelines were circulated (December, 2015)
- Presentation was made before Hon'ble PM on 30.12.2014

Major Decisions taken in 30th Dec Meeting

Sl	Decisions	Provisions in the Proposal
1	<u>Matrix</u> showing State-wise rainfall and irrigated area data - Basis for irrigation coverage	Rainfed area has been made as one major criteria for allocation of fund
2	Exploring maximum benefit out of MGNREGA	Saturation of selected 1023 blocks using MGNREGA and Watershed projects in Ist phase
3	PMKSY funds for use to top up material component of MGNREGA	Proposed in the Guidelines

Sl	Decisions	Provisions in the Proposal
4	Use of satellite imagery to identify water storage structure & distribution system	Proposed in the Guideline
5	Developing holistic plan at village, block and district level	Comprehensive Irrigation Dist/Sub Dist level
6	Chart out low hanging fruits so as to show quick results	Gap between Irrigation Potential Created (112 Mha) & used (91 Mha)
7	Micro irrigation to be promoted for efficient use of water	PMKSY(Per Drop More Crop) Component will address

Sl	Decisions	Provisions in the Proposal
8	Big projects of MoWR to focus on supplementing PMKSY	AIBP being part of PMKSY will be used for projects nearing completion
9	Cluster of 8 to 10 villages in each district for showcasing	Proposed in the Guidelines
10	Extension services to focus on influencing suitable cropping pattern	ATMA will be associated with Dist level Irrigation Committee

Sl	Decisions	Provisions in the Proposal
11	Catalogue of each irrigation source and distribution channel	Assets of PMKSY to have unique ID No & geo-tagged
12	Promoting IEC activities regarding efficient use of water	Provision made in Guidelines (DAC)
13	Mapping of State specific success stories and learning points	Documentation on success stories and indigenous irrigation practices would be taken up (DAC)
14	Dovetailing of “Neeranchal” project with PMKSY for technical assistance, capacity building, trg. etc.	Cabinet Note is being prepared

Vision

Strategy

Outcome

*Access to
Irrigation to
every farm
(Har Khet
ko Pani)*

Increase gross
irrigated area

Bridging the gap
between irrigation
potential &
utilisation

Creating/Strengt
hening water
distribution
network

Enhance water
use efficiency &
management

**More crop
per drop**

**Enhanced
farm
productivity**

**Rural
prosperity**

Objectives of Proposed PMKSY

- Convergence of investments in irrigation
- Expand cultivable area under irrigation (Har Khet ko pani)
- Improve on-farm water use efficiency (Jal Sinchan),
- Sustainable water conservation practices (Jal Sanchay)
- Source augmentation, arresting runoff, soil & moisture conservation
- Precision-irrigation and water saving technologies (More crop per drop)
- Extension activities on water harvesting/management , crop alignment etc.
- Greater private investments in irrigation

Approach & Planning

- Area-based and projectised mode of implementation
- Demand & supply assessment of water based on agro ecology
- Priority to irrigation and watershed projects nearing completion
- Use of satellite imagery, topo sheets and available database for planning
- NRAA to play important role in preparation of DIP/SIP, monitoring & evaluation
- Cluster of 8 to 10 villages to be developed in each district

District Irrigation Plan

- DIPs will present holistic irrigation plan
- The DIPs to be prepared by Dist level Irrigation Committee
- The plan will have information on all sources of available water, new potential and cropping system
- State Irrigation Plan to be harmonized with State Agriculture Plan and prioritize resources and finalize annual action plan

Components

- AIBP - MoWR
- PMKSY(Har Khet Ko Pani) - MoWR
- PMKSY(Per Drop More Crop) - DAC
- PMKSY (Watershed Development) -
DoLR

Convergence

- Operate as a convergence platform for schemes like MGNREGA, RKVY, Jawaharlal Nehru National Solar Mission, RIDF & WDF of NABARD, MPLAD Scheme, MLALAD Scheme, Local body funds, Working Plan of State Forest Department etc.
- Intensive Participatory Planning Exercise (IPPE) of MGNREGA in 1023 backward blocks to be used
- De-silting of ponds, canals, defunct water bodies etc. through MGNREGA
- PMKSY fund may be used for topping up of material cost

Institutional Mechanism

- National Steering Committee : *Policy, strategic direction, interstate issues, national priorities*
- National Executive Committee : *Inter ministerial coordination, allocation of resources, monitoring & supervision, administrative issues*
- State Level Sanctioning Committee: *Approval of projects and overall coordination & supervision*
- District Level Irrigation Committee (DLIC): *Preparation of DIP, DPRs, Coordination and monitoring*

Expected Out come (2015-16)

- Finalization of District Irrigation Plan of 100 districts by March, 2016
- Bringing additional 2 lakh ha area under irrigation in 2015-16 (MoWR)
- Coverage of about 5 lakh ha under precision irrigation in the year 2015-16 (DAC)
- Completion of about 1324 watershed projects (about 4.4 lakh ha area to be brought under protective irrigation by DoLR)

Issues & Constraints

➤ Large Liabilities under AIBP and IWMP will affect prioritization:

Liabilities	Potential to be created/ utilized (Million Ha.)	Amount of central share (Rs. 000' Cr)
Major Medium Irrigation (on-going)	6.5	28
Command Area Dev & water management	20	40
National Projects		190
Watershed Development	3	38
Total	29.5	296

➤ Free water and power, is a serious disincentive for adaptation of precision irrigation



THANK YOU

Rainfed Area/Irrigated Area (Thousand Ha)

State	Net Sown Area	Net Irrig Area	Rainfed
Andhra Pradesh	11161	5090	6071
Bihar	5396	3052	2344
Chattisgarh	4677	1415	3262
Goa	132	41	91
Gujarat	10302	4233	6069
Haryana	3513	3073	440
Himachal Pradesh	538	106	432
Jammu & Kashmir	746	319	427
Jharkhand	1085	125	960
Karnataka	9941	3440	6501
Kerala	2040	409	1631
Madhya Pradesh	15237	7887	7350
Maharashtra	17386	3252	14134
Orissa	4394	1259	3135
Punjab	4134	4086	48
Rajasthan	18034	7122	10912
Tamil Nadu	4986	2964	2022
Tripura	256	60	196
Uttarakhand	714	339	375
Uttar Pradesh	16623	13411	3212
West Bengal	5198	3078	2120
NE States	4229	463	3766
Others	78	42	36
Total	140800	65266	75534

