



GOVERNMENT OF INDIA
MINISTRY OF JAL SHAKTI
DEPARTMENT OF WATER RESOURCES, RD & GR
CENTRAL WATER COMMISSION



National Certificate Course on
Participatory Irrigation Management (CCPIM)

Organised by

National Water Academy, Pune

in association with

Indian Network on Participatory Irrigation Management
(IndiaNPIM)



Background

Water management and agriculture knowledge has a historical footprint, in south Asia, extending over several millenniums through the Harappan civilization (~3000–1500 BCE) and the Vedic Period (~1500–500 BCE). The Mauryan Empire (~ 322–185 BCE) is credited as the first “hydraulic civilization” and is characterized by the construction of dams with spillways, reservoirs, and channels equipped with spillways (Pynes and Ahars); they also had an understanding of water balance, development of water pricing systems, measurement of rainfall, and knowledge of the various water management techniques. India is inherited with the water wisdom abundant with emphasis on community partnership and responsibility. Traditionally, water management was communities’ responsibility. Thus, Participatory Irrigation Management (PIM) is a concept that is not new to India. Due to the deteriorating conditions of irrigation infrastructure, one of the major reforms introduced in early 80s was the concept of “Participatory Irrigation Management (PIM)”. The concept of PIM received importance after the Water Resources Management and Training (WRM&T) Project of Government of India (GoI) supported by USAID. Water User Associations (WUA’s) were essential feature of action research taken by WALMI’s/IMTI’s. The National Water Policy of 1987, 2002 and 2012 stressed this concept by stating that effort should be made to involve farmers progressively in various aspects of irrigation management particularly in water distribution and water rates.



What is PIM?

PIM is involvement of irrigation water users in ‘All Aspects’ and ‘All Levels’ of irrigation management.

All Aspects:

- Initial planning of new irrigation projects;
- Improvement in existing ones;
- Design;
- Construction;
- Operation & Maintenance.
- Financing;
- Monitoring & Evaluation;
- Policy matters.

All Levels:

Quaternary, Tertiary, Secondary, Main, Project and Sector

Government’s Initiative for Strengthening PIM in India

India is today the number one country in the World as far as the creation of irrigation potential is concerned. However, in respect of the equitable, judicious and economical utilization of created irrigation potential, there is tremendous scope for improvement because the difference between created potential and its actual utilization is day-by-day increasing. It has been widely recognized that participation of beneficiaries will help greatly in the optimal upkeep of irrigation system and efficient utilization of irrigation water thus minimizing the gap between IPC & IPU. WUAs have been formed, to function as institutional arrangement for PIM, in substantial numbers,

with the objective of handing over to/sharing with them the responsibilities of operation and management of irrigation systems.

GoI and States have been taking up several initiatives for capacity building of the farmers. Conferences/ seminars are being regularly organized by the Ministry, resulting in increased awareness about the need for active involvement of farmers in management of irrigation systems. Most States have adopted the PIM approach partly or fully by forming WUAs. Strengthening of PIM is also embedded in the objectives of the Command Area Development & Water Management (CAD&WM) program of DoWR, RD & GR, Ministry of Jal Shakti under the umbrella scheme of Pradhan Mantri Krishi Sinchayee Yojana (PMKSY).

There is urgent need for effective implementation of PIM across the country, which calls for extensive training and capacity building of various stakeholders including department officials, WUA members, farmers at large and other stakeholders. Large number of training program are needed to cover the technical, managerial and social aspects for ensuring sustainability of PIM related interventions.

Need for National Certificate Course on PIM (NCCPIM)

PIM is relatively a new approach which encourages involvement of the farmers’ organizations/WUAs in all activities of irrigation water management in the canal command area in collaboration with the Water Resources Department (WRD) and other line agencies. This kind of integrated interaction and joint management is new for both the players, that is, the farmers and the WRD officials. It is essential that all officials and farmers engaged in constitution of WUAs and supporting WUAs’ management should have basic training in PIM implementation. Currently more than 93,000 WUAs have been constituted in India and around 8,00,000 office bearers of WUAs and sizeable number of field officials are engaged in the formation and day-to-day management of WUAs needing formal training in all aspects of PIM. It is also to be noted that such massive training requirement cannot be catered by the existing Training Institutions namely NWA/ WALMI / IMTI/ CWRDM/ IndiaNPIM etc. through traditional training methods.

Therefore, the Ministry of Jal Shakti has initiated an online certificate course on PIM which will be conducted by NWA, Pune in association with IndiaNPIM.

Syllabus of the CCPIM

The course consists of 15 training modules covering social, organisational, technical, and financial aspects of WUAs as listed below:

- The concept, need and rationale of PIM
- Status of WUAs in the Country
- The steps in formation of a WUA
- Day to day operations of WUA
- Introduction to Canal System, Definitions and Units.
- Crop water requirement and better irrigation methods
- Water measurement and water scheduling by WUAs
- Preparation of water budget by WUAs
- Irrigation recording, billing, and revenue collection by WUAs
- Dealing with water wastage, unauthorized withdrawal, water thefts and related issues
- Water audit and methods to save on water losses
- Financial management of WUAs
- Irrigation system maintenance and quality control by WUAs
- Use of IEC, technology, and social media in water management
- Strengthening WUAs through interdepartmental coordination, leadership, community mobilization and women participation

Faculty

The distinguished faculty for the course include:

- Shri Phanish Sinha, President, IndiaNPIM
- Shri Amitabh Mishra, Former Superintending Engineer, WRD, Government of MP
- Shri Chand Mal Tejawat, Former Additional Director (Eng.), IMTI, WRD, Government of Rajasthan
- Shri Rama Kant Arya, PIM & Water Management Expert, Member of Governing Body IndiaNPIM
- Dr. Rajesh Puranik, Professor and Head, Social Science Faculty, WALMI, Aurangabad
- Shri Keshari Nandan Tripathi, Associate Professor, WALMI, Lucknow
- Shri Mohan Sharma, Executive Director, Development Support Centre, Ahmedabad, Gujarat
- Shri Nitin Kaushal, IndiaNPIM, Governing Board Member (honorary position) and Associate Director, River Basin Management, WWF-India
- Shri B M Sharma, Chairman, AMETHA Distributory Level, WUA

Format of Course

- Each of the 15 modules has been divided in to four topics and each topic consists of a lecture note (narrative) and a video-recorded PowerPoint presentation (RPPT).

- Each module is followed by a quiz which the participant must attempt after studying all four topics and watching respective RPPTs. Each quiz contains 10 questions with multiple choice answers. A participant must answer 8 questions correctly to pass the quiz test.
- The participant can study any module and appear for the quiz/test in any order and with any number of attempts. But it is recommended that the modules are studied in the sequence according to their serial number for systematic learning.
- After a candidate passes all quiz tests successfully, a Certificate will be delivered to his/her email address, or the same can download from the website.

Target Group/Who can Register

Any person interested in formation and strengthening the WUA including the WUA office bearers from any State/UT in India, field functionaries of line agencies/ WALMI / NGO staff engaged in PIM implementation can join the CCPIM Course or other interested citizen of India.

Participation Fee

There is no participation fee.

Mode of delivery & timeline of the Course

- The course will be conducted in Online Mode.
- Interested participant may access the website <https://nwapune.gov.in> through their laptop/ desktop /mobile phone having internet connection. Participants will be assigned user ID and password which will enable them to access the training materials provided in the form of lecture notes (narratives) , video recorded PPTs, and quiz etc.
- NWA e-Learning platform marks attendance of the participants and allows them to interact with the faculty and also among themselves.
- It is expected that a serious candidate will be able to complete the certification course within 3 months. The login ID will continue to remain active for a period of 3 months.

Pre-registration

Interested candidates can pre-register for the program through Google Form link or scan QR Code.



<https://forms.gle/LT51proRQG6j5q1a9>

Registration & enrolment in the course

Based upon the information provided in the pre-registration, the participants will be registered in the e-Learning portal by NWA and also will be enrolled in the course. Participants will be provided with login details through their registered email. Participants are advised to change their password after first login on the e-Learning portal. A WhatsApp group will be created to resolve all the technical issues.

Patrons

- Shri. A K Kharya, Chief Engineer, National Water Academy, Pune.
- Dr. B R K Pillai, Commissioner (CADWM), DoWR, RD & GR, Ministry of Jal Shakti, New Delhi.

Contact

For sending nominations or for any clarification, please contact:

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