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PERSPECTIVE ON ISSUES AND CHALLENGES IN IMPLEMENTATION OF CADWM

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OUTLINE

- Key Issues in the sector
- Challenges in implementation of CADWM
- Suggestions
- Role of CWC in implementation of CADWM

CADWM PROGRAMME

- CAD Programme was launched in 1974 to improve irrigation potential utilisation and increase productivity.
- Programme has definitely made some positive impact on various important indicators like increase in the irrigated area, productivity and production, irrigation efficiency, etc.
- However, the programme has not achieved desired success on various counts and needs to be implemented on mission mode duly addressing the deficiencies in the programme

KEY ISSUES

- Very slow pace of implementation of irrigation projects particularly their CADWM component. Focus is given on implementation of main project and the distribution system. CADWM is given least priority. Even cost of CADWM is not included in the cost estimation of project
- Department/Authority implementing CADWM works is normally weak and is not geared up in adopting modern technologies and management system in CADWM
- Inadequate budget provisions for execution of CADWM works
- Lack of interest of quality contractors
- Poor upkeep O&M of irrigation projects particularly the CAD works- poor recovery and little support from state govt.

Cont.

KEY ISSUES

- Loss of irrigation water in the conveyance system due to the leakages, seepages and even diversion and pilferages –Reduced water availability particularly in tail reaches - farmers are not sure of water supply from the system

- Lack of information and data

- Low Water use efficiency

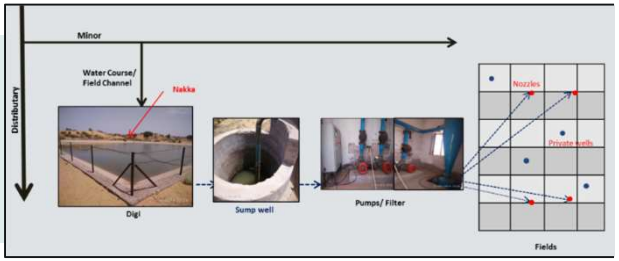
- Lack of formation and functioning of WUAs. Vast majority of WUAs are 'paper WUAs'; and PIM in a true sense operates only in few projects

All these factors naturally lead to widening gap between irrigation potential created (IPC) and irrigation potential utilized (IPU)

CHALLENGES LIE IN

- How to expedite the implementation of CADWM
- How to make functioning of WUAs and PIM effective
- Ensuring proper O&M of project including CAD works and physical and financial sustainability of projects
- How to ensure the water availability reliably not only in desired quantum (volume) but also at the stipulated time
- Implement the desired reforms in the sector

SUGGESTIONS



- CADA needs to be strengthened and restructured.
- CADA should be primarily be responsible for policy framework, planning and designing of CADWM system, supervision, compilation of data etc. The implementation part may be handled by the Irrigation(WRD) department- **Single Agency** implementing whole project and also taking care of O&M
- CADWM should be integral part of planning and designing any irrigation project and its cost should be reflected in the DPR or cost estimate
- Providing adequate budget for the implementation of CAD works in the project
- The CAD system can be planned, designed and implemented by Govt. Departments but its running and maintenance has to be carried out by beneficiaries.
- Complete clarity on O&M responsibilities including cost (50 % recovery + 50 percent grant by state for well maintained system---- performers should be rewarded rather than assisting non performer).

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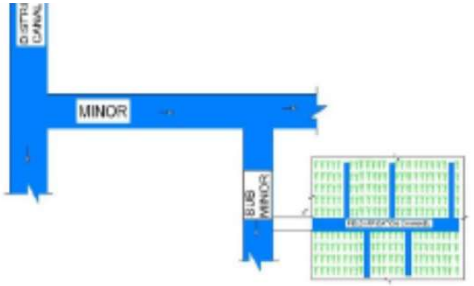
SUGGESTIONS



- Focus also needs to be given on the efficient functioning of conveyance system which is most crucial part of any irrigation project.. Like in other sectors, distribution system may be privatised by placing volumetric measuring system. Centre may support in O&M of distribution (50 % state contribution + 50 percent grant by centre for well maintained system---- performers should be incentivized rather than assisting non performer based on bench marking of the project). One central scheme required for incentivising better O&M of the conveyance system

- Implementation of micro irrigation system or piped irrigation system in clusters should be integral part of project planning and designing and should be implemented by irrigation department itself rather than CADA.

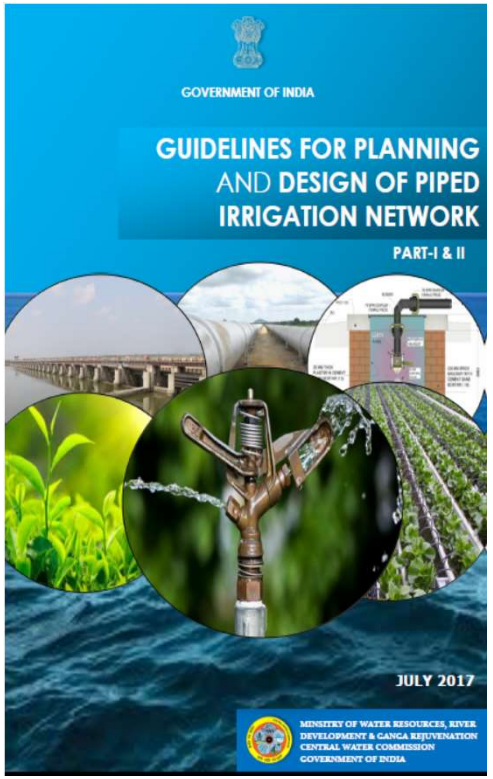
- CADWM System should be planned incorporating all sources of water including GW

- Unless we have accurate and reliable data and real-time information on the functioning of the projects, it is impossible to even begin thinking about improving their management. Collection and compilation of data systematically (GIS based) should be given top priority

- Engage NGOs in making the WUAs function effectively and sustainably

CWC SHOULD ASSUME BIGGER ROLE

- Appraisal and monitoring of CADWM projects
- Planning and Designing of typical CADWM systems including use of micro irrigation system and their cost estimates
- Compiling the project wise/state wise data on CADWM (coverage, IPC, IPU, WUAs etc)
- Implementing water budgeting and accounting system in few projects on pilot basis and training state engineers
- Evaluation of performance of irrigation projects/Taking up Bench Marking of the projects and evolve a web based platform for the same
- Preparing guidelines/manuals on CADWM



THANKS