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Government of India
Ministry of Water Resources, River Development and Ganga Rejuvenation
CADWM Wing

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New Delhi-110001.

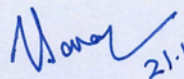
Dated: 21st December, 2017

Sub: Minutes of the 2nd meeting of Project Implementation Review Committee (PIRC) for CADWM implementation under 99 Prioritized Projects - held at Shivpuri (near Gwalior), Madhya Pradesh from 25-26 November, 2017.

The 2nd meeting of Project Implementation Review Committee (PIRC) for CADWM implementation under 99 Prioritized Projects was held at Shivpuri (near Gwalior), Madhya Pradesh from 25-26 November, 2017, under the chairmanship of Secretary, MoWR, RD&GR.

The minutes of the meeting are hereby circulated for information and necessary action on the decisions taken in the meeting. The status of actions taken on the decisions will be deliberated in the next meeting of PIRC.

Encl: As above


(Vijai Saran)

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Distribution:

1. Principal Secretary/Secretary, Government of Andhra Pradesh, Assam, Bihar, Chhattisgarh, Goa, Gujarat, J&K, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Odisha, Rajasthan, Talangana, U.P., and Punjab.
2. All Chief Engineers, CWC of the Region concerned to above States [IBO Chandigarh, B&BB Shillong, LGBO Patna, NTBO Gandhinagar, MCO, Nagpur, CSRO Coimbatore, NBO Bhopal, MERO Bhubaneswar, UGBO Lucknow, YBO, Delhi].
3. Member WP&P, CWC, Sewa Bhawan, New Delhi.
4. Chief Engineer (PMO), CWC, Sewa Bhawan, New Delhi.
5. Secretary, India NPIM, New Delhi.
6. All participants of the meeting (As per list attached at Annexure-I of the Minutes).

Copy forwarded to:

1. PPS to Secretary, MoWR, RD&GR, SSB, New Delhi.
2. PPS to Chairman, CWC, Sewa Bhawan, R.K. Puram, New Delhi.

MINUTES OF THE 2ND PROJECT IMPLEMENTATION REVIEW COMMITTEE (PIRC) MEETING FOR CADWM IMPLEMENTATION OF 99 PRIORITIZED IRRIGATION PROJECTS UNDER PMKSY HELD AT SHIVPURI, MADHYA PRADESH ON 25-26 NOVEMBER, 2017

The 2nd Project Implementation Review Committee (PIRC) meeting for CADWM implementation of 99 prioritized irrigation projects was organized at Shivpuri, Madhya Pradesh on 25-26 November, 2017. The two-day program included field visit on first day (25th November) for the CADWM works executed in Mahuar and Sindh Phase-II projects, followed by a meeting under the Chairmanship of Dr. Amarjit Singh, Secretary, MoWR, RD&GR on 2nd day (26th November) covering review of CADWM progress and discussion on shortcomings/bottlenecks encountered in project implementation.

2. With a view of gaining a better understanding of the key interventions and as per decision taken in the CADWM progress review meeting held on 7th September 2017, participation of the top level officials dealing with the projects was planned for the 2nd PIRC meeting. The officers of Andhra Pradesh, Assam, Bihar, Chhattisgarh, Gujarat, Kerala, Madhya Pradesh, Maharashtra, Odisha, and Telangana participated in the event. All concerned Chief Engineers of CWC Regional Offices and Headquarter attended the meeting. Shri Y.D. Sharma, Secretary India NPIM and Smt. Ranjana Nagpal, DDG, NIC also attended the two-day program. The list of participants is given at **Annexure-I** and summary record of PIRC decisions and recommendations is given at **Annexure-II**.

FIELD VISIT ON 25TH NOVEMBER 2017

3. The field visit was organized in the afternoon of 25th November and the team visited Mahuar project and Sindh Phase-II Project sites. Due to shortfall in the current monsoon rains, the Mahuar dam has been filled upto 45% capacity only; State officers informed that advisory has been issued to the farmers for shifting to the lesser water demanding crops under project's Command. The team also visited the field channels constructed under two distinct outlets (namely, MPMML1M1105 and MPMMLIN3S205) of Mahuar project and also held interactions with the beneficiary farmers. Later, a meeting was held at village Chhitari under Sindh Phase-II project where the members and office bearers of two WUAs, namely Chhitari and Khadicha, were present. Key observations of the team during field visit are summarized below:

- i. The field channel under the outlet MPMML1M 1105 comes under the purview of WUA Sirsod, and Shri Surya Kant Pandey is President of the WUA. Total area covered through this field channel is 40.75 ha with length of lined field channel 1022.5 metre, and about 100 farmers are benefitted by this field channel. One member (Mr. Gauri Shankar Pandey) informed that terminal end of this field channel opens in his field thereby creating flooding; he requested to increase the length of channel up to natural drainage point. Shri Dohare, SDO, informed that line channel could not be constructed due to cost

constraints; he however, ensured to construct earthen channel upto natural drainage point to avoid flooding of terminal fields.

- ii. The field channel under the outlet MPMMLIN3S205 comes under purview of WUA Salaiya, and Mr. Imrat Singh Lodi is President. Total area benefitted by this channel is 22.37 ha with total lined length of 671.10 metre and about 21 farmers are benefitted by this field channel. Although, fields of both side are being irrigated but there are no branched channels for irrigating the fields which are beyond the vicinity of channel.
- iii. Only lined field channels have been constructed as per MPWRD guidelines which provides for 30 m length of field channel per ha of command. In some cases, field channels were found to be a linear structure serving only one side of the chalk in the form of a contour canal. The theme of Har Khet Ko Pani (HKKP) does not get fulfilled by the restrictive manner of construction of lined field channel benefiting a limited number of farmers within the outlet's command.
- iv. It was observed that the field channels start from Kulawa and extended upto drain point. There was no control device to stop the flow of water in field channel from minor so when the water is not being utilized by farmers, the precious water goes to drain as waste. The assumption that farmers plug the outlets using sacks after saturation of their demands is faulty, as factually validated from the grievance of terminal-end farmer of the outlet MPMML1M 1105 (as reported at para 'a' above) wherein his field is getting flooded because the field channel is not extended up to drainage line.
- v. President of WUA Chhitari, Shri Gaurav Pal, informed that about 1800 ha area is covered under his WUA's jurisdiction having about 2200 beneficiaries. One field channel, MPSRBD-3M1103, was on meeting site; total length of this channel is 305 meter and covers 10.87 ha area. Shri Hakeem Singh Rawat, President of Khadicha WUA, informed that about 2400 ha area comes under jurisdiction of his WUA, and about 2800 members are associated with the WUA. On discussion, the Presidents of both the WUAs explained that the entire financial resources are being utilized by WUAs and that they are getting very good cooperation from the Government officials. Highlighting the benefits of CADWM works in their areas, they stated that: (i) more area has been brought under cultivation in Rabi season; (ii) groundwater level has improved to about 400 ft instead of earlier about 500 ft; (iii) crop production has enhanced; (iv) social and financial status of farmers has improved.
- vi. Some members of WUAs informed that in most of the Kulawa command, the tail-enders are not getting irrigation water for their fields and requested that the State authorities should increase the length of irrigation channel to cover the fields of the farmers at tail-end. However, concerned officers of the State inform that the length of the field channel has been kept 30 m per ha length and if further length is increased, additional fund is required.

- vii. The structural CAD works are being implemented by the WUAs; however, barring the WUA President, the active involvement of other office bearers or members of WUA was not evident in the CADWM implementation. The CCA coverage under a WUA is of the order of 1500 to 2000 ha, with membership ranging between 2000 and 3000. With such a large coverage, the proper management of all kulawas by the office bearers of WUA is difficult; moreover the cohesiveness of the group or the unity of purpose amongst its members may not develop adequately.
 - viii. Because of the focused efforts put in by the CADA and project officials in recent time, the members of WUAs have become convinced about their shared responsibilities and have started depositing their share of Rs.120 per ha towards functional grant. On collection of the farmers' share, the balance share of the onetime functional grant (i.e. Rs. 1080 per ha) will be released to the WUAs for their financial empowerment.
4. Some of the implementation gaps observed during field visit are owing to the variance in understanding of the objectives and approach of CADWM implementation as envisaged in the current guidelines. The related clarifications and suggestions, aiming for improvements in future endeavors by each State project authority, are listed below:
- a. Present guidelines do not restrict field channels to 30 m length per hectare, or restrict the scope of works to lined channels alone. The best possible combination of lined and earthen channels shall be developed, and the option of utilizing traditional/ local material for lined channel in place of concrete channel shall also be explored so as to maximize the proportion of lined channel within the budgeted cost.
 - b. The guidelines has set ceiling costs for different construction activities (including activity of lined channel) solely for the purpose of computation of Central Assistance in a uniform manner, and not from the point of view of restricting the CADWM implementation uniformly across all projects/ states.
 - c. The main objective of structural intervention taken under a Kulawa/ outlet is to provide hydraulic connectivity to each farm field within the kulawa command (*i.e. Har Khet ko Pani*) which shall not get diluted. The measures needed for fulfillment of this objective may vary from case to case; project authorities shall take all such measures (including enhancement in scope of current activities or additional activities) for fulfilling this objective, and financial implications over and above the Central Assistance shall be borne by the respective States.

PIRC MEETING ON 26TH NOVEMBER, 2017

5. The meeting, under the Chairmanship of Dr. Amarjit Singh, commenced at 08:00 hrs in the morning. At the outset the Chairman welcomed the participants and drew their attention to the three goals set by the government, namely: (a) Har Khet Ko Pani; (b) More Crop Per Drop; and (c) Doubling the income of Farmers by 2022. He also highlighted the need for taking up

PMKSY scheme in the manner of PMGSY so as to progressively bring the entire agricultural fields under irrigation. He also drew attention to the gap of about 17 m ha in Irrigation Potential Created (IPC) and Irrigation Potential Utilized (IPU). Stating that the IPC-IPU gap is a low hanging fruit which can be bridged through CADWM implementation thereby benefitting millions of poor farmers, he implored project officials to work with zeal for benefitting these farmers. He informed that through piped irrigation technology, Maharashtra has saved about Rs.500 crore which was to be spent on land acquisition, and requested all States to explore possibility of piped conveyance system instead of open canals. He also requested the States to prepare and submit proposals under newly proposed Incentivization Scheme for Bridging Irrigation Gap (ISBIG) which is likely to be approved shortly.

6. The concerned CEs of CWC Regional Offices were requested to make presentation on CADWM activities and the progress achieved under respective states; and representatives of the States were requested to answer the related queries. The State-wise details of deliberations held in the meeting are as under:-

- i. **Assam:** There are 3 prioritized projects namely, Dhansiri, Champamati and Borolia in the State, out of which first 2 projects have been included under CADWM programme. By 2015-16 an amount of Rs.12.945 crore has been released in Dhansiri and Champamati project; the Utilization Certificate (UC) for the Champamati project is still awaited. Pace of implementation of CADWM is reported to be slow because the construction of canal system is held up due to land acquisition problems. Chairman advised that instead of open canal, piped distribution may be adopted by taking lessons from the interventions made by Maharashtra. The DPR of Borolia has been referred back to CWC regional office for attending queries raised by the Ministry; earliest compliance from CWC/ State is desired.
- ii. **Madhya Pradesh:** There are 13 prioritized projects in the State of Madhya Pradesh. Out of which 12 projects have been included under CADWM programme; the DPR of Bargi project is yet to be submitted by State Government. An area of 212.525 th ha has been completed by March, 2017 with an expenditure of Rs.433.019 cr. It is targeted to develop 139.206 th ha with an estimated expenditure of Rs.346.82 crore. State has planned to formulate 335 WUAs, but could not provide the figure of already formulated WUAs. State Officers ensured that project-wise information on WUAs will be sent within 15 days.
- iii. **Maharashtra:** In Maharashtra, there are 26 number of projects included in priority list. State Government has informed that 4 projects do not require any CADWM works, thus, only 22 projects are to be considered for implementation under CADWM programme. Till now 20 projects have been included under CADWM programme; 2 DPRs received by CWC have been earlier forwarded to Ministry; and clarifications raised by Ministry will be furnished shortly. The CA release proposals received from State are under process; The CE,CWC and the State representative ensured that information required by

Ministry with respect to budget provision for the current year and other points will be provided shortly.

- iv. **Andhra Pradesh:** Eight projects have been included in prioritized list out of which one project has been dropped and one project namely Gundlakamma has been included under CADWM programme and first installment of release of Rs.3.64 crore has also been released. DPR of the remaining six projects have been received, and certain observations have been sent by Ministry to CWC for compliance. CE, PMO (HQ) ensured that the compliance will be submitted shortly.
- v. **Bihar:** In Bihar, there are 2 projects, namely, Durgawati and Punpun under 99 prioritized projects. Presently only Durgawati project is included under CADWM programme. The release proposal for Durgawati project during 2017-18 has been received, and it was observed that there is an unutilized balance of about Rs.8 crore with State till date; State officers were informed to submit the Utilization Certificate of the balance amount so as process release of additional funds. State officers also informed that DPR of Punpun project is under preparation, and would be submitted shortly to CWC regional office for approval.
- vi. **Chhattisgarh:** There are 3 projects in Chhattisgarh; and all have been included under CADWM programme. The MoUs in respect of these projects along with release proposals for 2017-18 is awaited. The CE, CWC informed that the release proposals for all the 3 projects received by his office have been returned to the State Government for compliance of various formalities. He further ensured expeditious action for forwarding the proposals to the Ministry shortly.
- vii. **Goa:** In Goa, there is only one project, namely, Tillari, which has been included under CADWM programme. Release proposal for 2017-18 is awaited. The CE, CWC informed that State Government is being pursued for submission of release proposal along with utilization of fund released during 2012-13.
- viii. **Gujarat:** In the State of Gujarat, only one project namely Sardar Sarovar is under priority list. In this project against target of 17.92 lakh ha, 9.88 lakh ha has been developed. In this project, instead of open field channel, UGPL has been adopted. The outlet of underground pipe line system does not extend to each farm field. Chairman instructed concerned State officers and CWC to find out a solution and arrange construction of field channels in such a way that each farmer gets channelized water to his field. State officer informed that 2540 WUAs have been formed against target of 4314 WUAs. State was advised to provide functional grant and infrastructural grant timely for the strengthening of WUAs.
- ix. **J&K:** In the state of J&K, there are 4 projects included under 99 prioritized projects. One project of State has been withdrawn, and 3 projects are yet to be included under

CADWM Programme. Since no representative from J&K State was present in the meeting, the concerned CE of CWC has been requested to look into the matter and pursue the State Government for early submission of DPRs for inclusion under CADWM.

- x. **Jharkhand:** In the State of Jharkhand, there is only one project, namely, Subernrekha under 99 priority list. The project is yet to be included under CADWM Programme. The CE, CWC, Patna informed that due to certain problem of land acquisition, canal system is not completed and State Government is taking time to submit even part-wise DPR of CADWM Programme where irrigation system has been developed. It was informed that State has awarded the work of DPR preparation to WAPCOS, and within two months time the part DPR will be submitted.
- xi. **Karnataka:** In Karnataka, there are 5 projects in the list of 99 priority projects out of which three projects are already included under CADWM programme i.e. Uppertunga, Sri Rameshwara, and Bheema. DPR of two projects, namely, Karanja and NLBC is with CWC, Bangalore and State Government has been requested to complete the observations made by CWC. The CE, CWC, Bangalore also informed that State Government has balance amount of CA with them against release of CA during 2016-17; thus, there is delay in submission of release proposal of 3 projects for current financial year. He was requested to pursue the matter with State, and ensure submission of proposal for CA release of 3 projects and DPRs of remaining 2 projects shortly.
- xii. **Kerala:** In Kerala, there are 2 projects namely Muvattapuzha and Kanhripuzha, out of which Muvattapuzha is already included under CADWM Programme and release proposal for 2017-18 is awaited. Kanhripuzha project is yet to be included under CADWM Programme. State officer informed that release proposal for 2017-18 and DPR will be submitted within a month's time.
- xiii. **Manipur:** In Manipur, there are 2 projects under 99 priority list. Both are included under CADWM programme and an amount of Rs.31.89 crore was released to the State as CA during 2016-17, but State could not spend any amount as the canal system of the project is not completed yet. State officer informed that once the canal system will be completed under AIBP, CAD work will be started. Concerned CWC CE has been requested to look into the matter and inform the factual position to the Ministry.
- xiv. **Odisha:** In odisha, there are 8 prioritized projects and all are included under CADWM. During 2017-18 for seven projects, first installment of CA of Rs.39.73 crore has been released to the State. State has not submitted release proposal for Lower Indira project as there is a balance of Rs.23.5 crore with State against CA release during 2016-17. State officer informed that there was certain issue of land acquisition and crossing etc. which has been sorted out and work has been started during current year. State officer informed that all works in the State are being taken with Pani Panchayat

(WUAs); however, till date functional grant has not been provided to these WUAs. State Officer further informed that during current year functional grant and infrastructure grant will be provided to the WUAs. Chairman requested the State to complete all CAD activities in Upper Indirawati extension and Rukura projects during the current year.

- xv. **Rajasthan:** In Rajasthan, there are two prioritized projects, out of which Narmada Canal project has been withdrawn by the State Government as water distribution is being done by pressurized piped network system. However, State Government officer informed that they will require non-structural interventions for which DPR for the same will be submitted shortly. The CA release proposal for the Gang Canal project will be submitted shortly.
 - xvi. **Telangana:** There are 11 projects in Telangana under prioritized list. All projects have been included under CADWM programme. Release proposal for 2017-18 along with MoU are awaited from the State. Concerned CE, CWC of the State should pursue with the State for submission of release proposal as early as possible.
 - xvii. **Uttar Pradesh:** There are 4 projects in 99 prioritized list. The State has informed that Bansagar Canal project does not require any CAD work; and DPRs of other 3 projects are still awaited. The CE, CWC, YBO and Lucknow informed that the State has submitted DPRs of Arjun Sahayak and Saryu Nehar Pariyojna, which have been examined by CWC and returned to the State for compliance of various observations. Concerned Chief Engineers were requested to pursue with the State and help them in preparation of correct DPR and submit to Ministry for earliest inclusion of these projects under CADWM programme.
7. Following the state specific review, a brief presentation on the features and status of MIS (CADWM) was given by the NIC. Subsequently, various issues related to CADWM implementation were deliberated by the participants and following decisions were taken:
- a. Sufficient funds should be made available by the State governments over and above the Central Assistance for ensuring hydraulic connectivity to each farm field (*i.e. Har Khet ko Pani*) through the combination of lined and unlined channels.
 - b. Detailed layout of lined and earthen channel should be displayed for each Kulawa in such a manner that farmers become aware of the field channel network in their respective Kulawa commands. Special attention needs to be given for the survey and planning of field channels. The planning on cadastral map should be carried out in such way that each farm field gets water with the minimum length of field channel (both lined and unlined) through openings serving both sides. The duly authenticated copy of map should also be provided to each WUA so as to resolve any conflict which may arise between farmers.

- c. At each kulawa head, suitable device for regulating/ controlling flow of water should be provided so as to prevent wastage of water. The field channels should remain above the adjacent farm levels for ensuring gravity flow of water to the fields. The CWC (PMO at headquarter) should expedite the preparation of 'Manual for Construction of Field Channels' as per the decision of the first PIRC meeting.
 - d. The area under the control of WUA should be kept in range of 500 hectare so as encourage greater involvement and sense of ownership amongst the members of the WUAs. Activities relating to training and capacity building of farmers and WUA members shall be taken up at early stages of project implementation, and the functional and infrastructure grants shall also be released at the earliest.
 - e. WUAs shall be financially empowered by way of amendments of PIM Acts or related regulations. Enabling provisions shall be made empowering WUAs for fixing and collecting appropriate irrigation fees, and for paying bulk irrigation charges to the Departments for water drawn at kulawa/outlets at government fixed rates. Preparation of the new model PIM Act shall be expedited by the IndiaNPIM and CADWM Wing of the Ministry, and state level consultations shall also be planned for its wider acceptability.
 - f. Implementation of minimum targeted command through micro irrigation should be expedited by each State. The part DPRs of micro irrigation component will be now approved at the level of Chief Engineer of CWC Regional Offices, and the status of the same would be reviewed in the next meeting of PIRC.
 - g. The States, with assistance of PMU Consultant, should complete filling-up of MIS data in respect of all ongoing CADWM projects; release of 2nd instalment of CA payments should be linked with the up-to-date filling of MIS data.
 - h. NIC should develop the CADWM MIS portal further so as to also capture WUA's working, crop production/ productivity, farmer's income etc, and also provide strong analytic tools for their proper assessments. A suitable team of officials should be constituted by CADWM Wing for guiding this development process.
8. Meeting ended with a vote of thanks to the Chair.

Annexure-I**List of participants in the 2nd Project Implementation Review Committee (PIRC) for CADWM held on 25-26 November, 2017 at Shivpuri, Madhya Pradesh.**

	Ministry of WR, RD & GR	
1.		Dr. Amarjit Singh, Secretary
2.		Dr. B.R.K. Pillai, Commissioner (CAD)
3.		R. K. Tiwari, Consultant (CAD)
4.		Vivek Bhushan Fuley, STA, CADWM
	NIC, MoWR, RD&GR	
5.		Ranjana Nagpal, DDG (NIC)
6.		Chirag Bhatia, SA, NIC
	India NPIM	
7.		Y. D. Sharma, Secretary
	CWC	
8.		S.K. Halder, CE (NBO), Bhopal
9.		A.S. Goel, CE, YBO, New Delhi
10.		A.K. Nayak, CE, LGBO, Patna
11.		N.M. Krishnanunni, CE, CSRO, Coimbatore
12.		Atul Jain, CE, IBO, Chandigarh
13.		Bhopal Singh, CE, UGBO, Lucknow
14.		Shiv Nandan Kumar, CE, MCO, CWC, Nagpur
15.		R.K. Jain, CE, CWC, Bangalore
16.		Sanjiv Aggarwal, CE, PMO, CWC, New Delhi
17.		S.K. Samal, Director, CWC, Bhubaneswar
18.		B.B. Sakia, Director (M&A), CWC, Guwahati
19.		R. Thangamani, Director, CWC, Kochi
20.		Kiran Pramanik, Director (M&A), Bhopal, CWC
	State Governments	
	Madhya Pradesh	
21.		Kamlesh Khare, Commissioner (CAD), Bhopal
22.		A.K. Mishra, CE, Rajghat Datia
23.		Y.R. Patil, SE, CAD Directorate, Bhopal
24.		R.S. Kushwaha, SE, WR Circle, Gwalior
25.		R.K. Srivastava, SE, Sindh Project II, Shivpuri
26.		C.M. Tripathi, Project Admn. Sindh Phase-II
	Assam	
27.		Mahendra Mohan Boro, Chief Engineer, Irrigation-Assam
28.		Rajib Gogoi, EE, Dhansiri Project, Assam
29.		Jatindra Sarma, EE, Champamati Canal Division, Assam
30.		Golam Moidul Islam Choudhry, AEE, Champamati, Assam
	Maharashtra	
31.		M.S. Bendre, CE(Irrigation) & Joint Secretary, Govt of Maharashtra, Mumbai

	Andhra Pradesh	
32.		K. Narasimha Murty, SE, CADA, WRD, Andhara Pradesh
	Bihar	
33.		Ram Pukar Ranjan, Engineer-in-Chief, WRD, Patna
34.		Rakesh Kumar, SE, CADD, WRD, Patna
	Chhattisgarh	
35.		Radhe Shyam Chandra, SDO, Kelo Project, Raigarh, Chhattisgarh
	Gujarat	
36.		S.C. Sagitala, SE (Design), S.S.M.M.L. Gandhi Nagar, Gujarat
	Kerala	
37.		T.J. Sen, CE Project-II, WRD Kerala
	Odisha	
38.		Manoj Kumar Dash, Additional Director (CAD), Bhubaneswar
39.		Biswajeet Ray, Assistant Engineer, CADWM, Bhubaneswar
	Telangana	
40.		M. Vishnu Prasad, SE, Bellampally
	Wapcos	
41.		S.K Patnayak, Team Leader, PMU, PMKSY, Wapcos, Gurgram.

Summary of Decisions of the 2nd PIRC meeting held at Shivpuri, Madhya Pradesh on 25-26 November, 2017.

- a. Sufficient funds should be made available by the State governments over and above the Central Assistance for ensuring hydraulic connectivity to each farm field (*i.e. Har Khet ko Pani*) through the combination of lined and unlined channels.
- b. Detailed layout of lined and earthen channel should be displayed for each Kulawa in such a manner that farmers become aware of the field channel network in their respective Kulawa commands. Special attention needs to be given for the survey and planning of field channels. The planning on cadastral map should be carried out in such way that each farm field gets water with the minimum length of field channel (both lined and unlined) through openings serving both sides. The duly authenticated copy of map should also be provided to each WUA so as to resolve any conflict which may arise between farmers.
- c. At each kulawa head, suitable device for regulating/ controlling flow of water should be provided so as to prevent wastage of water. The field channels should remain above the adjacent farm levels for ensuring gravity flow of water to the fields. The CWC (PMO at headquarter) should expedite the preparation of 'Manual for Construction of Field Channels' as per the decision of the first PIRC meeting.
- d. The area under the control of WUA should be kept in range of 500 hectare so as encourage greater involvement and sense of ownership amongst the members of the WUAs. Activities relating to training and capacity building of farmers and WUA members shall be taken up at early stages of project implementation, and the functional and infrastructure grants shall also be released at the earliest.
- e. WUAs shall be financially empowered by way of amendments of PIM Acts or related regulations. Enabling provisions shall be made empowering WUAs for fixing and collecting appropriate irrigation fees, and for paying bulk irrigation charges to the Departments for water drawn at kulawa/outlets at government fixed rates. Preparation of the new model PIM Act shall be expedited by the IndiaNPIM and CADWM Wing of the Ministry, and state level consultations shall also be planned for its wider acceptability.
- f. Implementation of minimum targeted command through micro irrigation should be expedited by each State. The part DPRs of micro irrigation component will be now approved at the level of Chief Engineer of CWC Regional Offices, and the status of the same would be reviewed in the next meeting of PIRC.
- g. The States, with assistance of PMU Consultant, should complete filling-up of MIS data in respect of all ongoing CADWM projects; release of 2nd instalment of CA payments should be linked with the up-to-date filling of MIS data.
- h. NIC should develop the CADWM MIS portal further so as to also capture WUA's working, crop production/ productivity, farmer's income etc, and also provide strong analytic tools for their proper assessments. A suitable team of officials should be constituted by CADWM Wing for guiding this development process.