

**GOVERNMENT OF INDIA  
MINISTRY OF WATER RESOURCES**

**GUIDELINES**

**ON**

**COMMAND AREA DEVELOPMENT &  
WATER MANAGEMENT  
PROGRAMME**

**NEW DELHI**

**DECEMBER, 2013**

## GUIDELINES OF CAD&WM PROGRAMME DURING XII PLAN

### 1.0 Introduction

**1.1** The Command Area Development and Water Management (CAD&WM) Programme has to be implemented in a holistic manner *pari-passu* with irrigation project under Accelerated Irrigation Benefits Programme (AIBP) so that irrigation potential created (IPC) with hydraulic connectivity gets utilized soon after its creation, improves water use efficiency, increases agricultural productivity and production and brings sustainability in the irrigated agriculture in a participatory environment. All aspects of the CAD&WM Programme need be taken up in an integrated and coordinated manner so as to achieve the envisaged objectives of raising food grains production to meet the increasing need for growing population.

**1.2** During XII Five Year Plan, following broad activities are to be covered under the scheme:

- Coverage of ongoing CAD&WM projects, completed/ on-going and new projects and for Extension, Renovation & Modernization (ERM) of old CAD&WM projects;
- At least 10% of the CCA of each project under Micro-irrigation in lieu of OFD;
- Survey, planning, design and execution of On-Farm Development (OFD) works, construction of field, intermediate & link drains, correction of system deficiencies and reclamation of waterlogged areas;
- Software activities like trainings, monitoring, evaluation, demonstration w.r.t. water use efficiency and adaptive trials;
- To provide one time functional grant & infrastructure grant to registered Water Users' Associations (WUAs) in project areas to be covered,
- New components to be taken up for mechanised land leveling in hilly areas & special category States and laser leveling in selected areas; and
- To provide one time central assistance to WALMIs/IMTIs for strengthening of infrastructure.

## 2.0. Inclusion of Projects under approved CAD&WM Programme

The inclusion criteria will be as under:

- a) New Project proposals received in the Ministry of Water Resources after technical examination by the Regional offices of CWC are to be considered in the Ministry and will be included with approval of the Secretary (WR).
- b) Any new project having investment clearance by the Planning Commission on CAD&WM component of the project and having provision in the State Budget will be eligible for inclusion under the Programme. However, selection of projects from the bunch of projects received from the States will be carried out subject to availability of funds under the scheme. However, projects receiving central assistance under CAD&WM programme will not be allowed to be discontinued abruptly without its completion / proper justification.
- c) The projects with micro-irrigation, water audit, volumetric water distribution would get preference amongst the eligible projects while consideration of inclusion.
- d) A Memorandum of Understanding (MoU) has to be signed by the States to receive the central assistance as per the XII Five Year Plan.

## 3. Funding Pattern

3.1 The following components under CAD&WM Programme may be undertaken by the States:

Sl. No.	Components	Cost sharing <sup>1</sup> between Centre and States
a.	Survey Planning and Design	50 : 50
b.	On-Farm-Development (OFD) works	50 : 50
c.	Construction of Field, Intermediate and Link Drains	50 : 50
d.	Correction of system deficiencies	50 : 50
e.	Reclamation of Waterlogged Areas	50 : 50
f.	(i) Functional grant to registered WUAs (ii) Infrastructure grant to registered WUAs	45 : 45 75 : 25
g.	Software components such as demonstrations including on micro-irrigation, training, monitoring & evaluation, adaptive trials	75 : 25
h.	One time Grant to WALMIs/ IMTIs for strengthening of infrastructure (13 Nos.)	75 : 25
i.	CAD&WM Establishment (limited to 10% of b,c,d & e)	50 : 50

<sup>1</sup> Central assistance will be limited to ceiling of cost norms. Excess expenditure, if any, will be borne by the States.

**3.2** The financing pattern and cost norms for various components are given in **Annex-I**.

### **3.3 Procedure for Release of Central Assistance**

The central assistance for various components under CAD&WM Programme will be according to the pattern prescribed in **Para 3.1** of these Guidelines. The procedure for release of central assistance:

- i. The State Governments will be required to do phasing of expenditure and physical work year wise till completion along with AIBP Project, and as projected in the Memorandum of Understanding (MoU).
- ii. Based on this phasing during a financial year and budget provision covering both the Central and States shares, the admissible grant will be released in two instalments.
- iii. Release of funds will be considered with respect to physical and financial achievements. The major consideration will be release of State share to project.
- iv. Release procedures will be as under:
  - a. 90% of the total central assistance (CA) admissible will be released as 1<sup>st</sup> instalment after release of at least 50% of State share;
  - b. Balance/Second instalment of 10% of CA is to be released after obtaining utilisation certificate (UC) of minimum of 50% of total CA released earlier and corresponding State share;
  - c. Next year's instalment is to be released after obtaining 100% utilization of CA released including corresponding State share in the previous year(s) indicated as per utilisation certificate as given in **Annex-II, Proforma -4**.
- v. The CA along with the corresponding balance State share must be released to the project authorities by the state governments within 15 days of its release by the Government of India.
- vi. The States would be required to submit audited statements of expenditure incurred on the components of the project within 18 months of the completion of the financial year in which the Central assistance is released.

- vii. In case of shortfall in targets is more than 10% and delay(s) in completion of various activities against annual targets, a revised MoU is to be entered with updated targets for rest of the years.
- viii. In case of completion of all the works followed by submission of utilization and audit certificate, central share due to the States may be considered for reimbursement as per MoU.

**3.4** The following information in the prescribed Proforma as given in **Annex-II** should be enclosed with the release proposal for the first installment of every financial year for every project:

(i)	Check List for Holistic Implementation of CAD&WM Programme matching with AIBP programme ( <b>Annex-II, Proforma-1</b> )
(ii)	Financial progress report for the last financial year (LFY) and current financial year (CFY) ( <b>Annex-II, Proforma-2</b> ).
(iii)	Physical progress ( <b>Annex-II, Proforma-3</b> ).
(iv)	Utilization Certificate in respect of the Central assistance released in a project in the last financial year(s) ( <b>Annex-II, Proforma-4</b> ).
(v)	Audited Statement of Accounts for a Project ( <b>Annex-II, Proforma-5</b> )
(vi)	Annual Review of status of progress of each project and list of agency identified for concurrent evaluation. ( <b>Annex-II, Proforma-6</b> )

**4.** State Governments will be required to enter into a Memorandum of Understanding (MoU) with the MoWR for each project in the prescribed format as shown in the **Annex-IV** with following conditions:

- i. Cost of works and establishment is to be given separately. Program Schedule in MoU is to be strictly followed. Figures in MoU must match with that in approval letter and given in inclusion order. Facts mentioned in MoU are to be strictly followed.
- ii. No cost overrun will be allowed without the appraisal and approval of competent authority.

**5.** Inclusion of Panchayat Representative in WUAs/District Level Implementation Monitoring Committee/State Level Monitoring Committee shall be considered by the State Government for prioritizing the CAD works,

management, operation and maintenance of the projects after handing over. Each CAD Authority is to ensure that in each project, 3 WUAs in head, middle and tail reach are formed and developed like a model to be replicated by others. [Annex-V(I) &II]

6. The guidelines for preparation of Detailed Project Report (DPR) on the components of reclamation of waterlogged areas, correction of system deficiencies, adaptive trial for inclusion will remain unchanged as already circulated. Technical details on various activities to be undertaken under CAD&WM Programme, including guidelines on development of micro-irrigation, land leveling, one time infrastructure grant to WUAs and one time financial assistance to WALMIs/IMTIs are given in **Annex-III**.

6.1 A quarterly progress report (QPR) of each project will be submitted both in hard copy and through internet as per online web based monitoring system of CAD&WM Programme. QPRs are to be submitted in the Month of April, July, October and January. The target and achievement shown in QPR's should match with the target and achievement in the proposals submitted for central assistance.

## 7. Monitoring and Evaluation

- i. Monitoring of the projects under CAD&WM Programme is primarily the responsibility of the State Governments. However, MoWR and CWC will also monitor through quarterly progress reports, field visits, meetings etc. Remote sensing and GIS techniques can also be employed to monitor the progress on coverage of outlets having Unique Identification Number (UIN) and assess impact of the programme. State Governments are to use online web-based monitoring of CAD&WM Project for sending status of progress.
- ii. Concurrent evaluation including quality control aspects by an independent agency must be done by the States.
- iii. States to constitute a multidisciplinary Committee including representative of Panchayati Raj Institutions at State level (Wherever CADA Boards exist, the same can discharge the functions of State Level Monitoring Committee) with following indicative Terms of Reference:
  - a) To decide the annual work programme in such a way that pari-passu implementation takes place in the implementation in an integrated and holistic manner and to advise suitably.

- b) To review the progress of programme and make suggestions for improving its performance at all levels to achieve the target.
- c) To decide upon the evaluation studies to be taken up at the State level.
- d) To review and recommend project proposals to be sent to the Ministry of Water Resources for inclusion of project under the scheme.
- e) The committee shall include representatives from MoWR, Central Water Commission (CWC), Central Ground Water Board (CGWB), Panchayati Raj Institutions (PRIs) and other members as per composition already circulated.
- f) State Level Monitoring Committee (SLMC)/ State Government is to ensure quality control in the execution of the works and a report on the progress of works during preceding financial year to be submitted to MoWR in the Month of July-August of every financial year.
- g) The procedure for quality control mechanism should be in place with responsibility on correctness of data & quality of works fixed for the officers at the level of JE/AE/EE/SE/CE. Details of quality control mechanism, frequency of such reports to be submitted to SLMC/State Govt., quality assessment parameters etc. are to be formulated.

**FINANCIAL PATTERN AND COST NORMS FOR CADWM PROGRAMME  
FOR ALL STATES DURING XII PLAN**

Sl. No.	Component	Cost Norm (central share) for XII Plan
1	2	4
a).	Survey, Planning and designing of OFD Works	50% of actual expenditure or Rs.600/ha whichever is less. (Assumed cost norm of Rs.1200/ha)
b).	On-Farm Development (OFD) Works [comprising of construction of field channels and also land leveling/shaping & realignment of field boundaries, where necessary; extension, renovation & modernization and micro-irrigation]	
	(i) Construction of lined filed channels	50% of actual expenditure or 50% of Rs.835 per metre (m) for constructions of 30 m/ha lined channel whichever is less.
	ii) Mechanised land leveling in the hilly/difficult areas, laser land leveling in the selected areas	50% of actual expenditure or Rs.25,000/- per ha whichever is less. (Assumed cost is Rs.50,000/- per ha).
	iii) Micro-irrigation in at least 10% area of CCA of each project or 40 hectares, whichever is maximum. Cost of Infrastructure (grid power/solar power & pump, HDPE pipelines, sump etc) :	Rs.25000/ha or 50% of actual expenditure whichever is less. (Estimated cost of infrastructure is Rs.50,000/- per ha) <sup>1</sup> . Construction of infrastructure for micro-irrigation (MI) is covered as a replacement of OFD works.
c).	Construction of Field, intermediate and link drains.	50% of actual expenditure or Rs.3000/ha whichever is less. (cost norm Rs.6000/ha).
d).	Correction of system deficiencies in systems of capacity up to 4.25 cumec (150 cusec)	50% of actual expenditure or Rs.4000/ha whichever is less as central assistance (Cost norm is Rs.8000/- per ha). DPRs to be submitted to MoWR for approval of Core Group.

<sup>1</sup>Cost may vary according to site & soil conditions, type of crops and design based on requirement. Formation of WUAs would be mandatory before implementation of MI. A price control mechanism would be decided by WUAs, Central & State Governments. Use of ground water would also be applicable in implementation of MI/minor irrigation projects. Farmers would bear the cost of sprinkler/drip sets/ laterals or avail the subsidies available in extant scheme under Ministry of Agriculture.



1	2	3
e).	<p>Reclamation of water logged areas - (i) Surface drainage<sup>2</sup></p> <p>(ii) Sub-surface drainage</p>	<p>50% of actual expenditure or Rs.10000/ha whichever is less (assumed cost is Rs.20000/- per ha)</p> <p>50% of actual expenditure or Rs.25000/-ha. whichever is less (assumed cost is Rs.50000/- per ha.) DPR to be prepared as per existing guidelines &amp; submitted to MoWR for approval of Core Group.</p>
f).	<p>Onetime grant to registered/elected WUAs</p> <p>(i) Functional grant (Rs. per ha.)</p> <p>(ii) Infrastructure grant (Rs. per WUA)</p>	<p>Rs.1200/- per ha (Rs.540:540:120<sup>3</sup> among Centre: State: farmers).</p> <p>Rs.2.25 lakh or 75% of actual expenditure, whichever is less. (Assumed total cost is Rs.3 lakh)</p>
g).	<p>Software activities namely training, monitoring, evaluation, demonstration (including on micro-irrigation, mechanized/laser land leveling, water use efficiency) and adaptive trials<sup>4</sup>.</p>	<p>75% central funding, 25% has to be borne by States.</p> <p>DPR to be prepared as per existing guidelines &amp; submitted to MoWR for approval of Core Group.</p>
h).	<p>One time financial assistance to 13 WALMIs/IMTIs for strengthening of infrastructure</p>	<p>75% central funding and 25% to be borne by States. Limited financial assistance to each institute will be provided subject implementation of water sector reforms by the respective States, against the proposal given by the WALMIs/ IMTIs for implementation of prescribed components of the CAD&amp;WM programme.</p>
i).	<p>Establishment Cost [limited to 10% of the total central assistance for the items at Sl. No. (b), (c), (d) and (e)]</p>	<p>Limited to 50% of the actual establishment expenditure.</p>

<sup>2</sup> Surface drainage includes reclamation through Bio-drainage as well.

<sup>3</sup> A minimum of Rs. 120/- per ha is to be realized from the beneficiary farmers, in case of one time functional grant to registered WUAs.

<sup>4</sup> In each State, one or two WUAs to take up the use of smart card in distribution of water ensuring pre-payment of water charge and guarantee of adequate water entitlement in their operational area on pilot basis under adaptive trial.

**Annex-II (Proforma-1)**CHECK LIST FOR HOLISTIC IMPLEMENTATION OF CAD&WM PROGRAMME DURING  
2013-14 (CFY)<sup>1</sup>

Name of CAD&amp;WM Project -----.

Sl. No.	Subject	AMOUNT / REMARKS
1.	Annual Plan outlay approved by Planning Commission for CAD&WM Programme for the State for 2013-14 (CFY) (Rs. in Lakh).	
2.	Provision made for the specific CADWM PROJECT in State Budget for 2013-14 (CFY) in Rs. lakh.	
3.	Whether soil survey, topographical survey, planning and design of OFD works have been completed for the area where actual execution of OFD works are proposed to be carried out during the current year? If not, the reasons thereof.	
4.	Whether an Act for implementation of Participatory Irrigation Management (PIM) has been enacted by the State?	
5.	Whether latest Quarterly Progress Report till the end of the last quarter is enclosed?	
6.	Whether latest Quarterly Progress Report till the end of the last quarter entered in the web-based monitoring system?	
7.	Whether targets are as per MoU? In case of shortfall, whether justifications are indicated?	
8.	Whether State share and Central share indicated clearly in the Utilization certificate (UC)?	
9.	Whether UC has been signed by CADA administrator and Principal Secretary/ Secretary-in-charge?	
10.	Whether GoI sanction letter and amount sanctioned have been indicated in the UC?	
11.	Whether the figures given in the UC tallying with that of financial progress sheet?	
12.	Whether audited Statement as prescribed is attached?	
13.	Whether copy of release order of State share (project wise) for CFY has been attached?	
14.	Detailed notes including financial details on trainings organized by the State Government / in coordination with WALMI/IMTI, if any, for functionaries and farmers, the demonstrations conducted and evaluation studies made have been attached.	
15.	Whether State Level Monitoring Committee under the Chairmanship of Principal Secretary/ Secretary (I/C) CAD&WM Programme has been constituted. Number of meetings held in the year.	

Signature of In-charge/Administrator, CADA  
Name:  
Designation:  
Seal:

---

<sup>1</sup> CFY - Current Financial Year i.e. year of proposal for release of Central Assistance.

## PROJECTWISE FINANCIAL PROGRESS FOR LFY and Budget Provision for 2013-14 (CFY)

Name of the Project: \_\_\_\_\_

units: Rs Lakh

**Financial Data**

1 Original estimated cost at the time of Inclusion under CADP:

2 Present estimated cost:

3 Expenditure incurred so far:

Central share:

State share:

Total:

4 Balance Expenditure to be incurred:

5 Budget Provision For 2013-14\* (CFY):

Sl. No.	Item	Central Assistance Released during 2012-13 (LFY)	Actual expenditure during 2012-13 (LFY)			Actual Expenditure during 2013-14 (CFY) till...		
			State share	Central share	Total	State share	Central share	Total
1	2	3	4	5	6	7	8	9
a)	Survey, Planning and Designing of OFD works							
b)	OFD Works (comprising of construction of field channels, micro-irrigation, land leveling/shaping wherever necessary)							
	i) Construction of field channel							
	ii) Mechanised land leveling in the hilly/difficult areas; laser levelling in selected areas, wherever applicable							
	iii) Micro-irrigation (infrastructure with grid power/solar panel and pump, wherever possible).							
	iii) (a) Grid power							
	iii) (b) Solar power/equipment							
	Total							
c)	Field, Intermediate and link drains							
d)	Correction of conveyance system deficiencies above outlet up to distributaries of 4.25 cumec (150 cusec) capacity							
e)	Reclamation of waterlogged areas							
f)	One time functional grant for WUAs. Total amount deposited as Fixed deposit in the bank (provide details) along with copies of fixed deposit receipt of the same for proof of all amount collected from centre, state and Water User's Association during LFY							
	(i) Functional Grant							
	(ii) Infrastructural Grant							
g)	(A) Adaptive trials							
	(B) Demonstrations (including on Micro-irrigation, mechanised/laser levelling, water use efficiency)							
	(C) Training courses organised by the State							
	(D) Monitoring and Evaluation studies							
	(E) Action Research							
h)	One time financial assistance for strengthening of WALMIs/IMTIs							
	TOTAL							
	Allocation / Expenditure on SC and ST farmers out of total grant.							
i)	Establishment cost							
	(i) Estt. cost of State headquarters							
	(ii) Estt. cost of CADAs/projects							

\*Copy of release order to the project for 2013-14 (CFY) by State Finance Department is attached.

Signature of Incharge/Administrator, CADA

Name:

Designation:

Seal:

Proforma for On-going CAD&WM projects and for projects On-going under AIBP programme

**Annex-II (Proforma-3)**

**PHYSICAL PROGRESS OF THE PROJECT** \_\_\_\_\_

Area in Th. Ha.

<b>State:</b> _____		<b>CADA:</b> _____		<b>Project:</b> _____						
1. CCA: _____				4. Category of the project: General/Special						
2. UIP: _____				5. Year of inclusion under CADP: _____						
3. Irrigation potential : _____										
a. Created during 2012-13 (LFY): _____										
b. Utilised during 2012-13 (LFY): _____										
c. Created up to the 2012-13 (LFY) under CADP: _____										
d. Utilised up to 2012-13 (LFY) under CADP: _____										
Sl. No.	Activity	Total quantum of work involved	Cumulative achievement up to the beginning of 2012-13 (LFY)	Targets and Achievements for 2012-13 (LFY)		Cumulative achievement up to end of 2012-13 (LFY)	Targets and Achievements for 2013-14 (CFY)			Reasons/ Justifications for shortfall
				Targets	Achievements		Targets for the year	Achievements till....	Targets for the remaining periods	
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>
a)	Survey, Planning and Design									
b)	OFD Works (comprising of construction of field channels, micro-irrigation, land leveling/shaping wherever necessary)									
	i). Total Length of Lined channels* (in kilometre)									
	ii) Area under mechanised leveling/ laser levelling									
	iii) Area under Micro-irrigation (with grid power/solar panel and pump), wherever possible.									
	iii) (a) Infrastructure (Grid power)									
	iii) (b) Infrastructure (Solar equipments)									
	Total									
c)	Construction of field, intermediate and link drains (area covered)									
d)	Correction of System Deficiencies in systems of capacity up to 4.25 cumec (150 cusec) (area)									

1	2	3	4	5	6	7	8	9	10	11
e)	Reclamation of waterlogged areas									
	(i) No. of schemes approved by GoI									
	(ii). Area reclaimed									
	- Surface drainage/bio drainage									
	- Sub-surface drainage									
f)	One time functional/ infrastructure grant to registered WUAs									
	(I) Functional Grant									
	(i) No. of WUAs registered									
	(ii) Area covered under the WUAs									
	(iii) No of WUAs which have been handed over the system									
	(iv) Area Covered									
	(II) Infrastructural Grant									
	(i) No. of WUAs									
	(ii) Area covered under the WUAs									
g)	(A) Adaptive Trials									
	(i). No. of Trials									
	(ii) Area covered									
	(B) Demonstration programmes									
	(i) No. of plots									
	(ii) Area covered									
	(iii) Mechanised/laser land levelling (nos)									
	(iv) Micro-irrigation (Nos)									
	v) Water use efficiency (Nos.)									
	(C) State level trainings									
	(i) No. of officials trained									
	(ii) No. of farmers trained									
	(D) Monitoring and Evaluation studies conducted by the State (No.)									
h)	One time financial assistance for strengthening of WALMIs/IMTIs**. (name )									
i)	Warabandi									

\* Minor wise and outlet wise (lengths with unique code numbers) progress is to be attached as Annexure.

\*\* Certificate indicating reforms for strengthening WALMI/IMTI taken up as per MoU is to be attached

**Signature of Incharge/Administrator, CADA**

**Name:**

**Designation:**

**Seal:**

**UTILISATION CERTIFICATE FOR THE YEAR 2012-13 (LFY)**

NAME OF PROJECT \_\_\_\_\_

GoI Sanction Letter No. with Date	Amount (Rs. In lakh)

1. Certified that out of the total amount of Rs. \_\_\_\_\_ lakh [total of unspent balance of central assistance of previous year(s) (Rs..... ) & sanctioned amount vide GoI's letter as cited above during the 2012-13 (LFY)] for implementation of Command Area Development & Water Management (CAD&WM) Programme in ----- CAD&WM Project, an amount of Rs..... (corresponding State share expenditure being Rs.....) has been utilised for the purpose of implementation of the CAD&WM Programme for which it was sanctioned leaving a balance of Rs. .... with the State at the end of the year 2012-13 (LFY).

2. It is also certified that the expenditure indicated above does not include advances lying unutilized/treated as final expenditure and P.L. Account, Civil Deposit etc. treated as final expenditure.

3. Certified that I have satisfied myself that the conditions on which the grant was sanctioned have been duly fulfilled including quality control and that I have exercised the following checks to see that the money was actually utilised for the purpose of which it was sanctioned.

Kinds of checks exercised:

- a) Grants checked from the register maintained; and
- b) Expenditure checked from the register maintained.
- c) Quality checked from quality control registers being maintained in the quality control cell.
  
- d) No payment has been released in case of poor quality of work.
- e) Reform measures in respect of WALMI/IMTI have been taken up
- f) WUAs are functioning as per Participatory Irrigation Management Act./existing other legal framework
- g) Software components are being implemented and .....No. of training programme has been organised where ..... farmers have participated. .... No. of adaptive trials have been organised.
- h) Concurrent evaluation report is enclosed

**Signature of Finance & Accounts Officer  
with Seal**

**Counter Signature of Principal  
Secretary/Secretary in-Charge  
CAD with Seal**

Date:

**Certificate in respect of Audited statement of accounts for \_\_\_\_\_ CADWM Project for  
the year before LFY (2011-12) for Grant**

*Certified that the audit of the accounts of the State Government/CAD pertaining to the State Sector Command Area Development and Water Management Programme for the year before LFY (2011-12) has been conducted and audited statement of Accounts for the said year are as under:*

*Certificate to be submitted Project-wise & State-wise:*

SL. No.	Item of work	Expenditure incurred during Year before LFY (2011-12)			Remarks
		( Centre + State Share)			
		Grant		Total (State & Central )	
		State Share	Central Share		
a)	Survey, Planning and Designing of OFD works				
b)	OFD Works (comprising of construction of field channels, micro-irrigation, land leveling/shaping wherever necessary)				
	i) Construction of field channels				
	ii) Mechanised land leveling in the hilly/difficult areas; laser levelling in selected areas				
	(iii) Micro-irrigation (with grid power/solar panel and pump), wherever possible.				
	iii) (a) Infrastructure (grid power)				
	iii) (b) Infrastructure (solar equipments)				
	Total=				
c)	Field, Intermediate and link drains				
d)	Correction of conveyance system deficiencies above outlet up to distributaries of 4.25 cumec (150 cusec) capacity				
e)	Reclamation of waterlogged areas				
f)	One time functional grant for WUAs. Total amount deposited as Fixed deposit in the bank (provide details) along with copies of fixed deposit receipt of the same for proof of all amount collected from centre, state and Water User's Association during LFY				
	(I) Functional Grant				
	(II) Infrastructural Grant				
g)	(A) Adaptive trials				
	(B) Demonstrations (including on micro-irrigation, land levelling, water use efficiency)				
	(C) Training courses organised by the State				
	(D) Monitoring and Evaluation studies				
	(E) Action Research				
	TOTAL				
h)	One time financial assistance for strengthening of WALMIs/IMTIs				
	(i) Name of WALMI/IMTI				
	(ii) Financial assistance				
i)	Establishment cost				
	(i) Estt. cost of State headquarters				
	(ii) Estt. cost of CADAs/projects				
	Allocation / Expenditure on SC and ST farmers out of total grant.				
	Crop Compensation				
	Subsidy to marginal and small farmers.				
	<b>Total Expenditure</b>				

*(Counter Signature)*

Signature : Signature :  
Name : Name :  
Designation : Designation :

Seal Seal  
(Fin. Adv./Sr. Acct. Off.) (Secretary Incharge)

Note : To be signed jointly by the Financial Adviser / Sr. Accounts Officers(s) of Finance & Accounts Office and counter signed by Secretary-in-charge of CAD.

## ANNUAL REVIEW OF STATUS OF EACH PROJECT

Name of the Project: \_\_\_\_\_

CCA (th.ha) \_\_\_\_\_

UIP (th.ha) \_\_\_\_\_

The following items reflecting status of progress in each project till 2012-13 (LFY) and target / achievement in 2013-14 (CFY) will need be submitted .

- > OFD Works (target and achievement upto 2012-13):
- > PIM (target and achievement upto 2012-13):
- > Reclamation of Water Logged Areas ( target and achievement):.
- > Correction of system deficiencies. (target and achievement):
- > Soft components, like Training, Evaluation, Demonstration and Adaptive trial( Nos) implemented.
- > Irrigation and Agriculture Development in the Project - The table given below may be filled up -

Sl. No.	Season & Name of the major crop	Area irrigated (Th. Ha.)	Productivity in tonnes/ha	Production in tonnes
1	2	3	4	5
	<b><u>Kharif</u></b>			
1	(i)			
2	(ii)			
3	(iii)			
4	(iv)			
	<b><u>Rabi</u></b>			
5	(i)			
6	(ii)			
7	(iii)			
8	(iv)			
	<b><u>Hot weather</u></b>			
9	(i)			
10	(ii)			
11	(iii)			
12	(iv)			

- > List of agency identified for concurrent evaluation of project:

Signature of Incharge/ Administrator, CADA

**Name:**  
**Designation:**  
**Seal:**



**Technical details about various components of CAD&WM Programme**

**1. Hardware Components**

**1.1 Survey Planning and Design**

Topographic survey is meant for proper planning and designing of OFD works so as to ensure their quality. Soil survey is meant for land capability classification so as to understand their capability for crop planning and undertake proper treatment measures to realize their full potential. Proper topographic and soil survey maps of the project should be maintained in CADA records.

**1.2 On-Farm-Development (OFD) works (comprising construction of field channels, micro-irrigation land leveling/shaping where necessary)**

(i) **Field Channels:** This is an important activity under the Programme for efficient utilization of irrigation water. Properly planned, aligned and designed field channels should be constructed from the Government outlet in a manner that each and every field of the outlet command is connected by field channel. The central assistance would be available for construction of lined field channels of 30 meter per hectare @ Rs.835/- per metre of lined channel. It is based on the average estimated cost for 1 cusec capacity lined channel of cement concrete/ stone masonry/ brick masonry. However, the length of lined channels may be less or more than 30 metre according to the actual site conditions. The Central assistance will be limited only to the prescribed cost norms of lined field channels and any additional cost involved related to structures like cistern, measuring devices, drop structures, division boxes, turnouts, flumes, culverts, inverted siphons, unlined field channels etc.will have to be borne by the State Governments.

(ii) **Land levelling:** Levelling, smoothing and shaping the field are important to irrigation system. Land levelling improves the efficiency of water, labour and energy resources utilisation. Levelling is to be done (i) to provide a slope which fits a water supply and (ii) to level the field to its best condition with minimal earth movement. Prior approval of the Government of India will be necessary before undertaking the land leveling work. The proposal for land leveling may be discussed in the State level committee and then sent to the regional office of CWC and to the Ministry. Upon recommendations of the CWC, the multi-disciplinary Core Group of the Ministry will consider the proposal for approval.

(a) **Laser land levelling:** Laser levelling technique is well known for achieving higher levels of accuracy in land leveling and offers great potential for water savings, reducing irrigation time and higher grain yields. Laser leveling is a process of smoothing the land surface from its average elevation using laser-equipped drag buckets. This practice uses large horsepower tractors and soil movers that are equipped with global positioning systems (GPS) and/or laser-guided instrumentation so that the soil can be moved either by cutting or filling to create the desired slope. It has four essential elements: (1) the laser emitter; (2) the laser sensor; (3) the electronic and hydraulic control system; and (4) the tractor and grading implement.

**(b) Mechanised land levelling:** For the hilly areas/States where deployment of laser controlled equipment may not be feasible, mechanised land levelling would be allowed. The mechanized leveler consists of frame, 3-point linkage, cutting or scraping blade, and thick curved sheet closed from sides to form a bucket. The scraping blade is made from medium carbon steel or low alloy steel, hardened and tempered. The blade is joined to the curved sheet with fasteners. The working depth of the implement is controlled by hydraulic system of the tractor.

**(iii) Micro-irrigation:** To promote water use efficiency in irrigation, micro irrigation (MI) is included as a new component. Financial assistance is proposed to be provided to the States for development of infrastructure to facilitate use of sprinkler/ drip irrigation systems as an alternative to On-Farm Development works i.e. for construction of stilling tank, pump house with power supply through grid /solar power system and feeder & conveyance pipelines based on topography, soil type and climate. The cost of common infrastructure for micro-irrigation will be provided under this scheme and farmers will avail themselves of the assistance available under the extant scheme under Ministry of Agriculture for installation of on-farm distribution systems. Formation of WUAs would be mandatory before implementation of MI. Use of ground water would also be applicable in implementation of MI/minor irrigation projects. Proposal for micro-irrigation recommended by CWC regional office will also be considered by the Core group of the Ministry for approval like proposal for land leveling.

Public Private Partnership (PPP), either as “Service Provider” or for both “installation and operation & maintenance of infrastructure” may also be adopted on pilot basis under adaptive trial, where pre-conditions for micro-irrigation are easily met. Such commands will be developed fully high-tech, using micro-irrigation, tensio-meter for automatic sensing soil moisture stress for irrigation scheduling and smart card for water distribution.

### **1.3 Field, Intermediate and Link Drains**

The expenditure under this component would be admissible on field drains from individual fields and other intermediate/link drains to provide connectivity to the drainage system.

### **1.4 Reclamation of Waterlogged Areas**

a) The problem of water logging in the Commands of irrigation projects has affected the health of the soil and reduced the agricultural productivity considerably. Central assistance to States is therefore being provided for reclamation of waterlogged areas in the irrigated command of the projects covered under CAD&WM Programme. The items of work under this scheme are:-

- Assessment of problem areas in the commands of irrigation projects.
- Planning and designing for preventive and reclamation measures.
- Taking up the preventive and remedial activities like land management, drainage (surface, sub-surface, vertical etc.).
- Monitoring and evaluation.

b) Wherever feasible, bio-drainage techniques alone or in conjunction with conventional techniques may be used for reclamation of waterlogged areas. Proper guidance on implementing this component from Central/ State Forest Departments, Agricultural Universities, ICAR/ WTC Centres etc. may be availed of.

c) Prior approval of the Government of India will be necessary before undertaking the reclamation work. A consolidated proposal for all the pockets of a project where reclamation work

has to be taken up may be prepared. The proposal so prepared may be discussed in the State level committee and then sent to the regional office of CWC and to the Ministry. Upon recommendations of the CWC, the multi-disciplinary Core Group of the Ministry will consider the proposal for approval.

### **1.5 Correction of system deficiencies**

a) A number of irrigation projects in the country have been operating much below their potential due to shortage of funds for O&M related activities such as cleaning of the channels by de-silting and weeding, raising earthwork in embankments or dressing the bed and side-slopes to the design standard and removing undercuts in hard strata, strengthening of banks in filling sections, restoring bed gradients, replacing and painting metal parts in gates and hoists, making control and measuring devices fully functional etc. This has been by and large responsible for unreliability in availability of irrigation water at farm level and consequently the reduced irrigation efficiency. The scope of the CAD&WM Programme has, therefore, been expanded to take care of system deficiencies occurring above the outlet up to distributaries of 4.25 cumec (150 cusec) capacity. This would eventually improve the output of the activities below the outlet as well.

b) The State Governments will be required to ensure that distributory Committees are formed, who can take over these distributaries for operation and maintenance, after these have been rehabilitated. Work on this item is to be executed with Minor/distributory as a unit and preferably on those distributaries where all outlets have been saturated and the OFD works have been handed over to the WUAs. Prior approval of the Government of India will be necessary before undertaking the rehabilitation work and the process of approval shall be the same as described under the item 'reclamation of waterlogged areas'.

### **1.6 One-time grants to Water Users' Associations (WUAs)**

a) Farmers themselves need to maintain Field Channels and Field Drains constructed under the programme in the subsequent years. It is, therefore, essential to involve WUAs in the planning and execution of OFD works, equitable distribution of irrigation water among all the land holders of an outlet command and repair/ maintenance of the distribution network after the same is handed over to them for management. Formation of WUAs at minor or in specified area of a canal is mandatory for implementing the CAD&WM Programme. In formation of WUAs, Panchayat representative should also be included as member. In case WUAs are not formed, elected panchayat bodies may perform the functions of WUAs for management, operation and maintenance of the projects after handing over.

b) To facilitate the working of these Water Users' Associations a provision has been made for One-time Functional Grant at the rate of Rs.1200 per ha. (Rs.540 per ha by Centre, Rs.540/- per ha by the State and Rs.120/- per ha by the farmers). The Functional Grant will be given where Water Users' Associations are formed, registered/elected and actually engaged in distribution of water. The amount would be deposited in the fixed deposit account of Water Users' Associations in the bank and interest accrued thereon would be used for the activities of the Associations.

(c) One time infrastructure grant is to be provided to the Water Users' Associations (WUAs) for minimum infrastructure support to enable to undertake smooth day-to-day functions.

## **1.7 CAD Establishment**

The total cost on establishment of Command Area Development Authorities at project level and the Command Area Development and Water Utilization Departments and monitoring cell for monitoring of Command Area Development and Water Management Programme at State level should be kept to the minimum. The cost of establishment should not exceed 10% of the expenditure on works items namely, (i) OFD works, (ii) field, intermediate and link drains, (iii) reclamation of waterlogged areas and (iv) correction of system deficiencies. The expenditure on establishment, if any, over and above the 10% of the expenditure on works as stated above has to be met by the State Governments from their budget.

## **1.8 Enforcement of Warabandi**

a) The Command Area Development Authority should enforce the Warabandi below the outlets. Integrated water management including supply from the head regulator of main canal up to the farm gates should be considered as a single unit. Effective coordination with the irrigation staff is necessary in working out operation plan for the main system, which would be in conformity with the warabandi schedules prepared below the outlets. Preparation of operation plan for the main canal systems should be attempted in advance, considering the recommended sowing time of various crops for Kharif and Rabi seasons. Coordination with the Agriculture Department (extension wing of Agriculture Department as well as zonal research centers of State Agricultural Universities and ICAR or any other reputed Institute) who would advise about the most suitable dates of sowing of crops as well as crop sequences is also necessary for effective implementation of warabandi. Working out scheduled water distribution for opening of the canal, roastering of the branches or distributaries for providing equitable water supply in various sub-commands and informing the farmers in advance, need be done.

b) Central assistance for enforcement of warabandi is not available with effect from 1.4.2004. The expenditure on regulatory/control structures to be installed for enforcement of warabandi can however be met from the component relating to correction of system deficiencies above the outlet upto distributaries of 150 cusec capacity. The regulatory structures could be:

- Construction of Adjustable Proportionate Modules (APMs) at outlet head and measuring devices in field channel like parshall flumes, notches (rectangular or trapezoidal) or weirs depending upon situation.
- Providing gates for the outlets in case of ungated or pipe outlets so as to control deliveries in the field channels.
- Display boards at outlet head showing the name of outlet, discharge, CCA, name of farmers, area of these fields, their turn indicating day and time for taking water, duration of time etc. The name of farmers' Association, if any, functions, responsibilities and duties of the farmers should also appear on the board.
- Auto-transmitters coupled with gauge recorders for speedy and reliable transmission of gauges to the control stations. Training of farmers on Warabandi can be carried out by WALMIs and other State/Central agencies/Institutes and the cost met from software items. It is essential to maintain records of Warabandi system and progress of the same shall be monitored by the State level Monitoring Committee as well as this Ministry.

## **2. Software Components**

### **2.1 Adaptive Trials and Demonstrations**

a) Appropriate water management practices at the field level, usually called on-farm water management, which include preparation of fields to receive irrigation water, improved methods of irrigation such as, border strips, check basins, furrows, determining the optimal length of fields, suitable stream size etc. are required to be experimented in different locations and demonstrations thereof arranged for the benefit of the farmers. Working out appropriate frequencies and water dosages for different crops, evolving water allowances in the command after considering the total water available, field application losses as well as the conveyance losses so as to ensure equity in distribution of water in various subcommands as well as among the farmers can also be experimented under these trials. Training farmers in respect of irrigated agriculture, switching over from rain fed crops with low risk-low inputs to high inputs high risk irrigated crops so as to increase yields as well as profits is required to be included in these trials. This change over has to be gradual after considering the financial capability of the farmers which can be done by adjusting the most suitable combination of fertilizer ingredients (NPK) after testing the soils. For this purpose comprehensive adaptive trials should be taken up in the respective command areas according to the guidelines already issued. Prior approval from the Ministry may be taken by the State Governments in respect of Adaptive Trials before their execution and incurring of expenditure and the mode of approval shall be as defined under the item 'reclamation of waterlogged areas". The job can also be entrusted to WALMIs/ other appropriate central and State organizations. The demonstration on development of micro-irrigation systems, mechanized /laser land leveling are also to be taken up. Technology demonstrations systems/schemes would be implemented in respect of efficient water use etc. WALMIs/IMTIs are to undertake these technology demonstrations.

b) It has been observed that not much activity under action research on PIM has been undertaken either by the CADAs or the WALMIs. Efforts under CAD&WM therefore need to be intensified to initiate action research on various aspects of PIM such as creating awareness on PIM, stress on equity, rights and duties of farmers, enforcement of Warabandi, collection of water charges, O&M of the system, running of Water Users' Associations etc.

(c) Use of smart card is also proposed in distribution of water to ensure prepayment of water charges, to guarantee adequate water entitlement to the farmers and to stimulate local investment in irrigation sector. This may be considered on pilot basis under adaptive trial.

### **2.2 Training**

a) The Staff of irrigation department at management level, field staff and functionaries of the Command Area Development Authorities would need training in improving the deliveries from the main system, on-farm water management, enforcement of Warabandi, planning & designing of OFD works, Participatory Irrigation Management etc. The farmers would also need training in distribution of water below the outlet or minor and maintenance of field channels/field drains, use of improved water management and agricultural practices.

b) The superintending engineers, executive engineers and deputy engineers can be trained at the respective WALMIs in the states but the field level staff and farmers need to be trained at the project level. Project level training centers may therefore be set up for imparting training in respect of the activities or works entrusted to the various categories of staff so as to improve their capabilities and also to ensure effective quality control. The job can also be entrusted to WALMIs/

other central and State Agencies wherever feasible. The farmers particularly the members of the executive body of WUAs and members of the minor/ distributory committees may be trained in irrigated crops, crop rotations, proper sowing times, crop water-soil relationship, warabandi, Participatory Irrigation Management and maintenance of field channels/drains. This can be done by organizing 3-5 days workshops, training programme, etc.

#### **2.4 Monitoring/Evaluation**

Monitoring of progress of projects will be strengthened. In addition to quarterly progress reports (QPRs), web-based monitoring is proposed to be further strengthened by dovetailing with mobile technology and GIS. WALMI/IMTI will also be involved.

### **3. One time financial assistance to WALMIs/IMTIs:**

During eighties it was realised to have the multi-disciplinary training organisations for in-service officials related with irrigated agriculture with focus on efficient and sustainable management of Water & Land Resources. Accordingly, 14 Water & Land Management Institutes (WALMIs) / Irrigation Management Training Institutes (IMTIs) were set up under USAID assisted Water Resources Management and Training (WRM&T) Project to provide need based trainings in water and land management. However, WALMIs have not been able to function as per assigned objectives due to some constraints: such as lack of experienced manpower and adequate financial support being among others.

In order to facilitate functions of WALMIs / IMTIs and to suggest appropriate reforms / measures, a Task Group under the Chairmanship of Additional Secretary (Water Resources) recommended providing need based one time financial assistance to those Institutes through concerned State who carry reform measures. One time financial assistance to WALMIs/IMTIs is to be given in the ratio of 75:25 between the centre and states for strengthening of infrastructure. Training and demonstration programmes under CAD&WM programme will be organized by the 13 WALMIs/IMTIs in coordination of the State(s). Water sector reforms are to be undertaken by the respective States/WALMIs/IMTIs as under:

- Capacity building in improved water management at micro-level.
- Facilitating institutional strengthening of Water Users' Associations in each State.
- Nodal Institute for information, education and communication (IEC) and demonstrations on optimal use of Land and Water.
- Promotion of Mass Awareness on water related issues.
- Performance Evaluation and Benchmarking of completed irrigation projects.
- Studies on water use efficiencies and suggestions for their improvement.
- Filling gap in the area of Research in Water Sector.

**4. ERM of old CAD&WM Projects:**

To hand over the CAD&WM projects to Water users associations (WUA)s that were executed initially before the introduction of participatory irrigation management (PIM), Extension, Renovation and Modernisation (ERM) of completed old projects, would be considered for inclusion in the XII Plan. Limited area is to be covered on the merit of the proposal. The project components completed before the year 2000, may also be considered subject to availability of funds. DPR for ERM of CAD&WM projects would be prepared as per existing CAD&WM guidelines by States and submitted to MoWR for approval of the Secretary (WR).

**5. IMPLEMENTATION OF THE PROGRAMME IN A HOLISTIC MANNER :**

- Water Users' Associations are to be formed before taking up on farm development activities
- On Farm Development Works must be implemented with active involvement of Water Users' Associations and handed over to them after completion.
- Field link & intermediate drains are also to be simultaneously constructed along with OFD works wherever required
- WALMIs are to be intimately involved in training and other related activities.
- After the On-farm development works have been completed and all outlets are saturated, an MOU must be signed between Minor/distributory committees and Irrigation departments for future maintenance.

**Memorandum of Understanding (MoU) between the Ministry of Water Resources, Government of India and Government of..... for completion of .....CAD&WM Project**

- 1 This MoU is made between the Ministry of Water Resources, Government of India and the Government of .....for the completion of .....CAD&WM Project from 2013-14 to ..... which was included under CAD&WM Programme for central assistance.
2. According to the State Government, the expenditure up to 3/2013 is Rs..... crore and .....ha of CCA has already been covered. The balance cost for completion of the project is thus Rs.....crore with a balance CCA of .....ha. Out of balance CCA of .....ha, full CCA of .....ha is to be completed with an estimated cost of Rs.....crore and annual physical and financial targets under different activities of the project from the year 2013-14 to ..... are as shown at **Annex-IV(I)**.
3. State Government agrees to undertake reform measures for strengthening of WALMI/IMTI, wherever applicable, as per guidelines. These institutes will be involved in organization of technology demonstrations, adaptive trials and trainings etc.
4. The Ministry of Water Resources, Government of India agrees to extend central assistance under different activities for the completion of project/target during the period of MoU subject to the following conditions:
  - i) The Project will be completed by the Government of ..... as per the annual physical and financial target shown in **Annex-IV (I)**. Its completion will be informed immediately to the Ministry of Water Resources, Government of India.
  - ii) The Central assistance will be given in two installments as per the condition prescribed in the scheme guidelines.
  - iii) In case of shortfall in targets is more than 10% and delay(s) in completion of various activities against annual targets, a revised MoU is to be entered with updated targets for rest of the years.
  - iv) The project will also be closely monitored by the Ministry of Water Resources (MoWR)/ Central Water Commission (CWC) in addition to the monitoring by State Government as prescribed in the scheme guidelines and the release of the central assistance will be based on the recommendations of State Projects (SP) Wing of Ministry of Water Resources.
  - v) Quarterly Progress Report (QPR) indicating quarterly physical and financial targets / achievement, matching with annual target certified by officers of CADA/State Govt. shall be submitted to the Ministry of Water Resources by the end of Month of April, July, October and January positively. QPRs shall also be entered in the web-based monitoring system of MoWR positively.
  - vi) The State Government shall ensure quality control in the execution of the works and a report on the works executed during the immediate preceding financial year will be submitted to the Ministry of Water Resources in the Month of July-August of every financial year.
  - vii) States to constitute a multi-disciplinary Committee at State level (Wherever CADA Boards exist, the same can discharge the functions of State Level Monitoring



Committee) as prescribed in the scheme guidelines and activity mapping [Annex-V(I) & (II)].

- viii) Brief description of project alongwith its salient features and maps as per **Annex-IV (II)** may also be furnished.
- 5. In case of persistent shortfalls in achievements and delay in completion of various activities against annual targets, States to submit release proposal for consideration by MoWR with full justification.
- 6. While closing the final account of a project on completion of all the works followed by submission of utilization & audit certificate and independent evaluation certificate, balance central share, if any, as per terms and conditions in existing MoU should be honoured.
- 7. State Government will undertake the prescribed water sector reforms including those with respect to WALMI/IMTI, for which one time financial assistance is proposed.

Signed on the day ..... 20..... at New Delhi.

**For and on behalf of the State Govt.**

.....  
**Principal Secretary/Secretary  
in-Charge of CAD,  
Government of .....**

**For and on behalf of Govt. of India**

**Commissioner (SP), Ministry of Water  
Resources**

**Physical and Financial Targets for completion of the CAD&WM Project**

1. Existing Status of the project:
2. Plan for completion of the project during XII Plan:

S. No.	Activities	Total		2013-14		2014-15		2015-16		2016-17	
		Physical	Financial	Physical	Financial	Physical	Financial	Physical	Financial	Physical	Financial
a.	Survey, Planning, Design										
b.	OFD works :										
	Field Channel										
	Land leveling (mechanized/ laser)										
	Micro-irrigation										
c.	Field, Intermediate and link Drains										
d.	Correction of System Deficiency										
e.	Reclamation of WL areas										
f.	Farmers Participation:										
	Functional grant										
	Infrastructure Grant										
g.	Adaptive Trials										
	Training										
	Demonstration										
	Evaluation Study										
h.	Assistance to WALMIs										
i.	Establishment										
j.	Warabandi										
Total											

- Note: (1) Units physical targets are: field channels in kilometer and areas in thousand hectares; Unit of financial target is in Rs. Lakh.  
 (2) DPRs of schemes on correction of system deficiency, reclamation of water logged areas, adaptive trials, demonstrations are to be submitted to MoWR for approval of the Core Group.

**Signature of In charge/ Administrator, CADA**  
**Name:**  
**Designation:**  
**Seal:**

**Brief Details of CAD Project**

i) Project in Brief:-

ii) Salient features:-

iii) Index map:- All projects of a State may be shown in one index map

iv) Project map showing project components and command area.

v) Number of minors / sub-minor & its respective CCA and minor/ sub-minor wise number of lined outlets with capacity of 1 cusec & its length proposed to be covered limited to 30 metre per hectare.

**Signature of In charge/ Administrator, CADA**  
**Name:**  
**Designation:**  
**Seal:**

## Activity mapping under the scheme of Command Area Development and Water Management (CAD&amp;WM) in respect of Cluster of Minor Irrigation Schemes

Name of Scheme	Central Level	State Level	Arrangements at District Level	WUA Federation at the Block Level*	Cascade Association (CA)*	Water Users' Association (WUA) at the Gram Panchayat
Command Area Development and Water Management	The MoWR will coordinate the programme at the central level through Central Water Commission. The inclusion of the CADWM projects for assistance under the Scheme would be approved by the Secretary, MoWR after recommendation of CWC. The CWC will monitor the progress under the scheme through periodic reports from the States and field visits.	A multi-disciplinary Committee at State Level called State Level Monitoring Committee (SLMC) will be constituted by the State Government including a representative from Panchayati Raj Institutions (PRIs) which will be responsible to plan various activities envisaged under the scheme, fixing priority of works, monitor their implementation, provide guidance to District Level Implementation Monitoring Committee (DLIMC) & Block Level Implementation Monitoring Committee (BLIMC)*/ Cascade Association (CA)*, and ensure coordination amongst all concerned departments /agencies at the state level. The State Government may engage the services of competent agencies to support activities for identification/ formulation of CAD components, preparation of DPRs, monitoring of the scheme awareness creation and capacity building.	There will be a District Level Implementation Monitoring Committee (DLIMC), including a representative from Panchayati Raj Institutions (PRIs) under the chairmanship of District Collector to decide issues relating to fixing of priorities, monitoring and utilisation aspects of created irrigation potential of the project. The Committee shall include members of WUAs, district level nodal officer from CWC. District Magistrates/ Collectors will constitute DLIMC and get the strategy / perspective plans for monitoring and utilisation aspects of created irrigation potential.	*A Block Level Implementation Monitoring Committee (BLIMC) under the chairmanship of Block Development Officer (BDO) may be constituted to decide issues relating to monitoring and utilisation aspects of created irrigation potential of the project. The Committee shall include members of WUAs/ Panchayat to identify the problem areas, fixing priority of works, organizing training programmes for WUAs, monitoring O&M of project and performance of Water User Associations and Cascade Association (CA).	*Command Area Development Authority (CADA) are already exercising the activities in the way Cascade Associations are proposed to function for whole command areas of the project which are interlinked in a cascade through a network of channels for fixing priority of works for O&M of channels. They will also help resolve conflicts across WUAs within the cascade on water sharing and maintenance responsibilities for entire project command. However a representative from PRIs may also be included in the committee.	At the level of village command of the project, the scheme is to be implemented by the government agency involving the WUAs consisting members of elected local Panchayat. The concerned WUAs would plan and participate in the implementation of command area development works, as fixing of priorities, maintenance and management including water distribution and conflict-resolution across uses and users. The WUA should be empowered to facilitate to collect irrigation charges from the beneficiaries and also earn revenues by charging for its services and build up a corpus for maintaining and managing the developed command.

\*Cascade Association (CA) and Block Level Implementation Monitoring Committee (BLIMC) may be formed if felt necessary at District Level and/or State level for better coordination.

**Activity mapping under the scheme of Command Area Development and Water Management (CAD&WM) in respect of Major and Medium Irrigation Projects**

Name of Scheme	Central Level	State Level	Water Users' Association (WUA) at the Gram Panchayat Level
Command Area Development and Water Management	The MoWR will coordinate the programme at the central level through Central Water Commission. The inclusion of the CADWM projects for assistance under the Scheme would be approved by the Secretary, MoWR after recommendation of CWC. The CWC will monitor the progress under the scheme through periodic reports from the States and field visits.	A multi-disciplinary Committee at State Level called State Level Monitoring Committee (SLMC) will be constituted by the State Government including a representative from Panchayati Raj Institutions (PRIs) which will be responsible to plan various activities envisaged under the scheme, monitor their implementation and ensure coordination amongst all concerned departments /agencies at the state level. The State Government may engage the services of competent agencies to support activities for identification/ formulation of CAD components, preparation of DPRs, monitoring of the scheme awareness creation and capacity building.	At the level of village command of the project, the scheme is to be implemented by the government agency involving the WUAs consisting members of elected local Panchayat. The concerned WUA would plan and participate in the implementation of command area development works, as also maintenance and management including water distribution and conflict-resolution across uses and users. The WUA would also earn revenues by charging for its services from its members and build up a corpus for maintaining and managing the irrigation water over time.