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

GUIDELINES FOR CENTRAL ASSISTANCE for COMMAND AREA DEVELOPMENT WORKS in PRIORITIZED AIBP FUNDED IRRIGATION PROJECTS



C O N T E N T S

Guidelines for Central Assistance of CAD works in prioritized AIBP funded irrigation Project

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Gist of Key Decisions of Project Implementation Review Committee (PIRC)
Meetings and Other Important Meetings For Corrections and Improvements in
CADWM Implementation (39 - 47)

1.0 Introduction

1.1 A large number of irrigation projects taken up under the *Accelerated Irrigation Benefit Program (AIBP)* after its launch in 1996-97 were languishing due to inadequate provision of funds. During 2015-16, *Pradhan Mantri Krishi Sinchayee Yojana (PMKSY)* was launched with aims of enhancing physical access of water on farm and expanding cultivable area under assured irrigation, improving on-farm water use efficiency, introducing sustainable water conservation practices etc. Under this scheme, 99 ongoing AIBP funded irrigation projects – with total irrigation potential of 76 lakh hectare – have now been identified for prioritized implementation in a mission



mode along with their *Command Area Development (CAD)* works. The list of 99 prioritized projects is given as **Annexure-I**. The *Central Assistance (CA)* for CAD works of these 99 projects will be funded through the ongoing *Command Area Development & Water Management (CADWM)* Program covered under the PMKSY *Har Khet Ko Pani (HKKP)* component.

1.2 All aspects of the CAD works need be taken up in an integrated, convergent, and coordinated manner so as to achieve the envisaged objectives of raising food grains production to meet increasing needs of growing population. The CAD works of 99 prioritized AIBP funded projects are to be implemented in a holistic manner for fulfillment of following key intents:

- *Utilize Irrigation potential created (IPC)* under the Project soon after its creation;
- Improve water use efficiency;
- Increase agricultural productivity and production;
- Bring sustainability in the irrigated agriculture in a participatory environment.

1.3 Institutional arrangement will be as under:

- All CAD works will be planned, designed, tendered and executed by the State Governments through its pertinent Departments¹.

¹For the prioritized projects covered by these guidelines, the CAD works are required to be taken up *pari-passu* with the AIBP works; hence it is desirable that the same Department executes both the works.

- *Central Water Commission (CWC)* through its CAD Cells in the Regional Offices of CWC and the *Project Monitoring Organization (PMO)* at its headquarter will provide the overall monitoring and coordination support.
- Handholding support for strengthening of *Participatory Irrigation Management (PIM)* will be provided by select Social Facilitator² (one entity of Social Facilitator per Project to be engaged through the process of empanelment).
- Activities of the select Social Facilitators will be monitored and coordinated by an agency/institute/consultant specialized in the field of social sciences to be engaged by the *Ministry of Water Resources, RD & GR (Ministry)*.



2.0 Activities Covered Under CAD Component

2.1 The activities covered under CAD component of a Project are broadly categorized as 'Structural' and 'Non-Structural' interventions as detailed below:

- (a) **Structural Intervention:** includes survey, planning, design and execution of:
- (i) On-Farm Development (OFD) works;
 - (ii) Construction of field, intermediate & link drains;
 - (iii) Correction of system deficiencies; and
 - (iv) Reclamation of waterlogged areas.
- (b) **Non-Structural Intervention:** activities directed at strengthening of *Participatory Irrigation Management (PIM)* including:
- (i) One time Functional Grant to the registered Water Users' Associations (WUAs);
 - (ii) One time Infrastructure Grant to the registered WUAs;
 - (iii) Trainings, demonstration, and adaptive trials with respect to water use efficiency, increased productivity, and sustainable irrigation in participatory environment³.

²A Social Facilitator may be an NGO, or similar entity, having substantial experience in influencing village level social activities and reforms; they will render service as per TOR and payment made to them will be linked to the specified deliverables

³Trainings/demonstration/adaptive trials shall be organized through WALMs/IMTIs.

- 2.2 OFD works typically comprise of construction of field channels, land leveling⁴, and realignment of field boundaries. Construction of a requisite infrastructure for Micro-irrigation, in lieu of above typical works, is also part of the OFD works.
- 2.3 Infrastructure for micro-irrigation as a replacement of conventional OFD works is included with the intent of improving water use efficiency. Planning of micro-irrigation should ensure maximization of the *Culturable Command Area (CCA)* beyond the areas under gravity flow, assured irrigation to tail ends, and supply of water in volumetric basis.
- 2.4 Micro-irrigation infrastructure includes components of sump, pump, HDPE pipelines, and pertinent devices⁵ needed for bringing efficiency in water conveyance and field applications (through sprinklers, rain guns, pivots etc). In case of micro-irrigation, other components such as land leveling, drainage works etc would be reduced, or entirely discarded; enabling certain cost savings which is expected to offset the higher cost of Micro-irrigation infrastructure.



⁴Component of land leveling shall be generally discouraged through adoption of micro-irrigation.

⁵The devices – such as sprinkler/ rain gun/ Drip sets etc. – needed to be installed by individual farmers below farm outlets are not part of the micro-irrigation infrastructure. Farmers are expected to bear the cost of such devices or avail subsidies available in extant scheme of the Ministry of Agriculture.

- 2.5 Micro-irrigation shall cover at least 10% of the CCA of the Project; and in case such computed micro irrigation extent falls below 40 ha, micro irrigation shall be done for 40 ha.
- 2.6 All activities of the CAD Component of Project shall be part of the *District Irrigation Plan (DIP)* and the State Irrigation Plan (SIP). To the extent feasible, convergence⁶ with other schemes of Central Government shall also be attempted for the closure of funding for CAD component.

3.0 Inclusion of Projects for CAD Works

- 3.1 Only a few of the 99 prioritized projects covered under the scope of these guidelines are currently included in the CADWM Program for central assistance, though all of them are already included in the AIBP program of the Central Government. The details of 37 such prioritized AIBP projects already included in the CADWM Program (as on 31st August, 2016) is given as **Annexure-II**; and the remaining Projects will be considered as new prioritized Projects for inclusion under CADWM Program.
- 3.2 The CAD proposals for new prioritized Projects will be considered for inclusion in the CADWM Program in below listed manner:
 - (a) *The Detailed Project Report (DPR)* of the CAD component of prioritized Project shall be prepared by the concerned State Government (as per instructions at **Annexure-III**) and two copies of the same shall be submitted to CAD Cell of the pertinent Regional Office of CWC.
 - (b) CWC through its CAD Cell and the PMO shall appraise the DPR (as per procedure at **Annexure-IV**) and forward its recommendations to the CADWM Wing of the Ministry.
 - (c) CADWM Wing of Ministry shall process the case for approval of competent level for inclusion of Project under CADWM Program within 15 days (typical timeline) of the receipt of recommended proposal from CWC.
- 3.3 *A Memorandum of Understanding (MoU)* (as per format at **Annexure-V**) shall be signed by the CADWM Wing and the concerned State Government after the competent-level approval and before the release of funds.
- 3.4 The DPRs of prioritized AIBP projects that are already included in the CADWM Program will be once again reviewed by concerned CAD Cells for compliance as per CAD guidelines/ checklists. All cases of insufficiency-of-information or inadequacy-of-presentation in the DPR will be brought to the notice of State Government for furnishing of additional information

⁶Activities essentially involving earth works – such as construction of unlined field channels, intermediate & link drains, land leveling works, correction of system deficiencies, reclamation of waterlogged areas (particularly surface drainage) - may also be executed through PMKSY (Water shed) and MGNREGA, wherever feasible. However, funding of activities involving pucca works – such as construction of lined channels – may be covered under CAD component.

or for the modification of DPR (as indicated by CAD Cell). Undue delay in compliance by the State Governments will be reflected in the Project Monitoring Report of CAD Cell and also in its recommendations for release of funds for the concerned Projects.

4.0 Funding Pattern

- 4.1 Funds under PMKSY (HKKP) for the CAD component will be provided to the State Governments as per Cost Sharing Ratios (which will be applied on the Ceiling Costs) as below:

S.No.	Activities Eligible for Funding	Cost Sharing Ratio
(a)	All activities of Structural interventions	50:50 (Centre : State)
(b)	All activities of Non-Structural interventions excluding Functional Grant to WUAs	60:40 (Centre : State)
(c)	Functional Grant to registered WUAs	45:45:10 (Centre: State: farmer)
(d)	Incremental Establishment Cost	50:50 (Centre : State)

- 4.2 For the eight North Eastern States and the three Himalayan States of Himachal Pradesh, Jammu & Kashmir, and Uttarakhand, the cost sharing norms for '*All activities of Non-Structural interventions except Functional Grant to WUAs*' will be 75:25 (Centre : State) in lieu of 60:40 norm applicable for other States.
- 4.3 The cost sharing formula for computation of Central Assistance will be applied on the Ceiling Cost arrived as per Cost Norms detailed at **Annexure-VI**. The eligible CA will be computed by the CAD Cell, and recommended for the release of central assistance by the Ministry.
- 4.4 Excess expenditure over and above the Ceiling Cost, if any, will be borne by the States.

5.0 Procedure for Release of Central Assistance

- 5.1 The yearly Central Assistance arrived on the basis of annual targets will be spread over two installments – *First installment comprising of 60% of the CA, and the Second installment of balance 40% CA*.
- 5.2 Proposal of the State Governments for release of First installment of every financial year shall be submitted to the CAD Cell along with following information (in prescribed *Proforma* as given in **Annexure-VII**):

S.No.	Information	Proforma No. (In Annexure-VI)
(a)	Checklist for holistic implementation of CAD works during Current Financial Year (CFY)	Proforma-1
(b)	Financial progress report for the Last Financial Year (LFY) and Budget provision of CFY	Proforma-2
(c)	District-wise Physical progress	Proforma-3
(d)	Utilization Certificate ⁷ in respect of CA released in the LFY	Proforma-4
(e)	Audited Statement of Accounts for the year before LFY	Proforma-5
(f)	Annual Review of status of progress of each project, and list of agency identified for concurrent evaluation	Proforma-6

5.3 Proposal of the State Governments for release of Second installment of every financial year shall be submitted to the CAD Cell along with following information:

(a) Utilization Certificate of funds released from first instalment during CFY.

Even if no releases have been requested, a Utilization Certificate for Central Assistance as also the matching share released for the project will be submitted by the State in prescribed format in GFR 19-A for the preceding FY within one month from the expiry of the respective financial year i.e. by 30th April, of the following FY.

5.4 Proposal of the State Governments for release of CA instalments shall be examined by CWC through its CAD Cell (as per procedure at **Annexure-VIII**) before its recommendations to the CADWM Wing of Ministry for release of funds.

5.5 CADWM Wing of Ministry shall process the case for approval of competent level for release of CA instalments within 15 days (typical timeline) of the receipt of recommendations from CWC.

⁷A utilisation certificate duly countersigned by the Principal Secretary/Secretary of the concerned Department in ink and stamped will be submitted by the State for the central assistance as also the matching state share in the prescribed format in Form GFR 19-A [Annex-II (Proforma-4)] at the time of making proposal for the first instalment/subsequent release for the project. The Utilization Certificate must contain physical achievement of CADWM components as agreed to in the MoU on year to year basis, and date of release of Central share/ State share to the implementing agency along with respective order number and date.

6.0 Monitoring and Continual Improvement

- 6.1 Monitoring of CAD implementation will be carried out with the intent of continual improvement. The *Three-tier Monitoring System* (as per schematic presentation given at **Annexure-IX**) will entail the following:
- (a) Field level monitoring of Structural intervention by the CAD Cell and that of Non-structural intervention by the select Social Facilitator.
 - (b) Assimilation of cross learning, troubleshooting (wherever required), and coordination, in case of Structural intervention by the PMO (CWC), and in case of Non-structural intervention by the agency/institute/consultant specialized in the field of social sciences engaged by the Ministry.
 - (c) Overall Project implementation review, dissemination of cross learning, and directions for continual improvement, by the Project Implementation Review Committee (PIRC) – Zone level⁸ PIRCs with representations from Project Authorities, CAD Cells, PMO (CWC), Social Facilitators, and social sciences agency/institute/consultant engaged by the Ministry
- 6.2 Progress of CAD implementation shall be provided and updated (Monthly basis) on the centralized web based MIS by the State Government. A Quarterly Progress Report (QPR) of each project (for period ending March, June, September and December) shall also be submitted by the State Government to the CAD Cell and the associated Social Facilitator within a month of the reporting period. The QPRs shall explicitly bring out the quarterly and cumulative progress and reasons for shortfall, if any, for each activity of the Structural and Non-structural interventions.



⁸PIRCs will be constituted for 4 zones of N&NE, West, Central and South.

- 6.3 The CAD Cell shall continuously and closely monitor the Structural interventions of the project through review of QPRs, field visits, and meetings with the project officials. A minimum two field visits per project per year shall be carried out by the CAD Cell, and the field-visit report along with key observations/ recommendations on the progress as well as quality of works shall be submitted to the State Government, PMO and CADWM Wing.
- 6.4 The Social Facilitator shall work at the grass-roots level and provide continuous handholding support to the WUAs and farmers for implementation of Non-structural interventions towards sustainable PIM. Social Facilitator shall also assist the WUAs in providing and updating its performance on the CADWM Project Monitoring website and related MIS portals for facilitating bench-marking, cross-learning and performance awards. Wherever possible, the identified Social Facilitator shall work towards use of smart card in distribution of water (aiming at guaranteed adequate water entitlement, and pre-payment of water charges) on pilot basis under adaptive trial. Half-yearly reports of Social Facilitator's activities along with its key observations/ recommendations on the progress of Non-structural interventions and reasons for shortfall, if any, shall be submitted to the State Government, Social Sciences agency/institute/consultant and CADWM Wing.
- 6.5 PIRC (of each Zone) shall conduct minimum two meetings in year. Decisions on all aspects of project implementation for continual improvement in the pace and quality of both Structural and Non-structural interventions shall be taken by the PIRC, and it shall be binding on all the parties concerned.

Annexure-I

**LIST OF 99 PRIORITIZED ONGOING AIBP FUNDED IRRIGATION
PROJECTS**

Sl. No.	Project Name	Targeted Irrigation Potential (Th. ha.) under AIBP	Balance CCA for CAD works
1	2	4	5
	Andhra Pradesh		
	Priority-II		
1	Gundlakamma	32.4	32.4
2	Tadipudi LIS	83.61	83.61
3	Thotapally	48.56	48.56
4	Tarakaram Teerta sagaram	10	10
5	Musurumilli	9.16	9.16
6	Pushkara LIS	71.18	71.18
7	Yerracalva	6.96	6.96
8	Maddigedda	1.42	1.42
	Total	263.29	263.29
	Assam		
	Priority-I Projects		
1	Dhansiri	86.37	83.57
2	Champamati	25	24.1
	Total	111.37	107.67
	Priority-III Projects		
1	Borolia	13.562	13.562
	Total Priority-I and III	124.93	121.232
	Bihar		
	Priority-III Projects		
2	Durgawati	23.59	21.99
3	Punpun	13.68	13.68
	Total	37.27	35.67

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in prioritized AIBP funded Irrigation Projects

	Chhattisgarh		
	Priority-III Projects		
4	Maniyari Tank	14.52	14.52
5	Kelo	22.81	22.81
6	Kharung	10.3	10.3
	Total	47.63	47.63
	Goa		
	Priority-III Projects		
7	Tillari	14.521	8.791
	Gujarat		
	Priority-III Projects		
8	Sardar Sarovar	1792	1680.5
	Jammu & Kashmir		0
	Priority-I Projects		
3	Tral Lift	6	6
4	Prakachik Khows Canal	2.262	0.462
5	Restoration & Mod. of Main Ravi Canal	50.749	50.749
	Total	59.01	57.211
	Priority-III Projects		
9	Rajpora Lift	2.429	2.429
	Total Priority-I and III	61.44	59.64
	Jharkhand		
	Priority-III Projects		
10	Subernarekha Multipurpose	236.848	236.848
	Karnataka		
	Priority-I Projects		
6	Upper Tunga Irrigation Project	80.489	78.489
7	Sri Rameswar Irrigation	13.8	13.2
	Total	94.289	91.689
	Priority-III Projects		
11	Karanja	29.234	21.554
12	Bhima LIS	24.29	24.29

13	NLBC System Project (New)	105	105
	Total	158.5	150.844
	Total Priority-I + Priority-III	252.8	242.533
	Kerala		
	Priority-III Projects		
14	Karapuzha	7.36	7.36
15	Muvattupuzha	30.72	30.39
	Total	38.08	37.75
	Madhya Pradesh		
	Priority-I Projects		
8	Sindh Project Phase II	162.1	154.11
9	Indira Sagar Project Canal Phase - I & II (km. 0 to km. 142)	62.2	59.7
	Indira Sagar Project Canal Phase - III (km. 143 to km. 206)	20.7	20.7
	Omkareshwar Project Canal Phase-IV (OSP lift)	54.63	54.63
	Bargi Diversion Project Phase – I (km. 16 to km 63)	21.194	21.194
	Total	320.824	310.334
	Priority-II Projects		
9	Mahi Project	33.752	33.752
10	Barriyarpur LBC	43.85	23.86
11	Bansagar Unit 2	154.543	127.25
12	Mahan Project	19.74	17.903
13	Pench Project	28.268	28.068
14	Sagad Project	17.061	17.061
15	Singhpur Project	10.2	10.2
16	Sanjay sagar (Bah) Project	17.807	17.207
17	Mahuar Project	13.775	13.745
18	Indira Sagar Project Canal Phase – IV (km. 206 to km. 243)	19.6	19.6
	Indira Sagar Project Canal Phase – V (Khargone Lift)	33.14	33.14

12	Omkareshwar Project Canal Phase-II (RBC km. 9.70 to km 65.50)	19.578	14.238
19	Omkareshwar Project Canal Phase-III (RBC km. 65.50 to km 142)	48.592	48.592
	Bargi Diversion Project Phase – II (km. 63 to km 104)	31.899	31.899
	Total	491.805	436.515
	Priority-III Projects		
	Bargi Diversion Project Phase – III (km. 104 to km 154)	26	26
	Bargi Diversion Project Phase - IV(km. 154 to km 197)	34	34
	Total	60.0	60
	Total Priority-I + Priority-II+ Priority-III	872.6	806.849
	Maharashtra		
	Priority-I Projects		
10	Waghur	38.57	38.57
11	Bawanthadi (IS)	27.708	27.708
12	Lower Dudhna	44.482	44.482
13	Tillari	6.57	6.57
14	Lower Wardha	63.333	63.333
15	Lower Panzara	6.785	6.785
16	Nandur Madhmeshwar Ph-II	20.5	20.5
	Total	207.95	207.948
	Priority-III Projects		
16	Gosikhurd (NP)	250.8	250.8
17	Upper Pen Ganga	44.472	40.252
18	Bembla	52.543	52.543
19	Tarali	14.276	14.276
20	Dhom Balaakwadi	18.1	8.13
21	Arjuna	5.704	5.704
22	Upper Kundalika	2.8	2.8

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in prioritized AIBP funded Irrigation Projects

23	Aruna	9.027	9.027
24	Krishna Koyana Lift	104.167	104.167
25	Gadnadi	3.473	3.473
26	Dongargaon	2.766	2.766
27	Sangola Branch Canal	11.288	11.288
28	Khadakpurna	23.864	23.864
29	Warna	54.749	54.749
30	Morna (Gureghar)	3.075	3.075
31	Lower Pedhi	17.023	17.023
32	Wang project	7.068	7.068
33	Naradave (Mahammadwadi)	12.282	12.282
34	Kudali	5.327	5.327
	Total	642.804	628.614
	Total Priority-I + Priority-III	850.75	836.562
	Manipur		
	Priority-I Projects		
17	Thoubal	29.45	22.75
18	Dolaiithabi Barrage	7.54	6.24
	Total	36.99	28.99
	Odisha		
	Priority-I Projects		
19	Lower Indra(KBK)	35.87	35.47
	Priority-II Projects		
20	Upper Indravati(KBK)	85.952	52.448
21	Rukura-Tribal	7.648	7.648
	Total	94	60.096
	Priority-III Projects		
35	Subernarekha	119.258	119.258
36	Anandpur Barr. Ph.-I / Integrated Anandpur Barr.	8.88	8.88
37	RET irrigation	8.5	8.5
38	Kanupur	47.74	47.74

39	Telengiri	13.829	13.829
	Total	198	198.207
	Total Priority-I + Priority-II+ Priority-III	328	293.773
	Punjab		
	Priority-I Projects		
20	Kandi Canal Extension (Ph.II)	23.33	23.33
21	Rehabilitation of Ist Patiala Feeder and Kotla Branch Project	68.62	9.1
	Total	91.95	32.43
	Rajasthan		
	Priority-I Projects		
22	Narmada Canal	245.88	245.88
	Priority-III Projects		0
40	Mod. of Gang Canal	69.694	45.694
	Total priority I and III	315.57	291.574
	Telangana		
	Priority-I Projects		
23	J. Chokha Rao LIS	249	249
	Priority-II Projects		
22	SriKomaram Bheem project	9.92	9.92
23	Gollavagu Project	3.85	3.85
24	Rallivagu project	2.43	2.43
25	Mathadivagu Project	3.44	3.44
26	Peddavagu @ Neelwai project	6.07	6.07
27	Palemvagu project	4.1	4.1
28	Peddavagu @ Jagannathpur	6.07	6.07
29	SRSP St.II	178.07	178.07
30	Rajiv Bheema L.I. Scheme	82.153	82.153
	Total	296.103	296.103
	Priority-III Projects		
41	Indiramma Flood Flow Canal	40	40
	Total Priority-I + Priority-II+ Priority-III	585.103	585.103

	Uttar Pradesh		
	Priority-II Projects		
31	Bansagar Canal	150.132	150.132
	Priority-III Projects		
42	Arjun sahayak	44.381	44.381
43	Madhya Ganga canal PH-II	146.532	146.532
44	Saryu Nahar(NP)	1312	1312
	Total	1503	1502.913
	Priority-II+Priority-III	1653	1653.045
	Total (Priority-I)	1453	1367
	Total (Priority-II)	1295	1206
	Total (Priority-III)	4854	4689
99	TOTAL (Priority I + II + III)	7603	7262

**LIST OF 37 PRIORITIZED AIBP PROJECTS
ALREADY INCLUDED IN CADWM PROGRAM**

Sl. No.	Name of Project	Name of State	Districts Benefitted	Year of Inclusion under CAD	Total CCA (th.ha)	CCA Covered (th.ha)	Balance CCA to be covered (th.ha)
1	2	3	4	5	6	7	
1	Dhansiri	ASSAM	Udalguri	2014-15	41.683	2.8	38.883
2	Champamati	ASSAM	Kokrajhar, Chirang (BTC), Bongaigaon	2015-16	6.587	0.9	5.687
1	Durgawati	BIHAR	Kuaimue, Rohtas	2015-16	32.467	1.6	30.867
1	Sardar Sarovar Phase-I	GUJARAT	Vadodara, Bharuch, Narmada, Panchmahal	2015-16	124.624	12.5	112.124
	Sardar Sarovar Phase-II	GUJARAT	Vadodara, Bharuch, Narmada, Panchmahal, Chotaudaypur	2015-16	1239.235	99.0	1140.235
1	Tillari	Goa	Talukas, Bicholim, Bardez	2007-08	11.777	5.73	6.047
1	Kargil Project (Prakachik Khows Cenal)	JAMMU & KASHMIR	Kargil	2011-12	12.000	1.8	10.2
1	Upper Tunga	KARNATAKA	Shivamogga, Davanagere, Haveri	2015-16	80.494	2.0	78.494
2	Sri Rameshwarm	KARNATAKA	Belgaum	2015-16	13.800	0.6	13.2
3	Karanja Irrigation Project	KARNATAKA	Bidar	2015-16	14.692	7.68	7.012
1	Muvattupuzha Valley Irrigation Project	KERALA	Idukki, Ernakulam, Kottayam	2009-10	19.237	0.33	18.907
1	Sindh Phase-II	MADHYA PRADESH	Shivpuri, Gwalior, Datia & Bhind	2014-15	97.084	7.99	89.094
2	Indira Sagar	MADHYA PRADESH	Khandwa, Khargaon, Barwani	2015-16	88.000	2.5	85.5

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in prioritized AIBP funded Irrigation Projects

3	Mahuar	MADHYA PRADESH	Shivpuri	2014-15	9.500	0.03	9.47
4	Mahi	MADHYA PRADESH	Dhar	2015-16	28.127	0.0	28.127
5	Bariyarpur Left Bank Canal	MADHYA PRADESH	Chhatarpur	2011-12	38.990	19.99	19
6	Bansagar Project	MADHYA PRADESH	Rewa, Satna, Sidhi and Shahdol	2014-15	124.329	27.29	97.039
7	Mahan	MADHYA PRADESH	Sidhi	2014-15	14.908	1.84	13.068
8	Pench	MADHYA PRADESH	Chindwara, Seoni	2014-15	70.918	0.2	70.718
9	Sagad Medium Irrigation	MADHYA PRADESH	Vidisha	2014-15	9.478	0.0	9.478
10	Singhpur Barrage	MADHYA PRADESH	Chhatarpur	2014-15	5.052	0.0	5.052
11	Omkareshwar	MADHYA PRADESH	Khandwa, Khargaon,Dhar	2015-16	143.350	5.34	138.01
12	Sanjay sagar	MADHYA PRADESH	Vidisha	2014-15	9.101	0.6	8.501
1	Nandur Madhumeshwar Canal Proj	MAHARASHTRA	Ahmednagar, Aurangabad	2009-10	49.864	26.34	23.524
2	Dhombalkawadi Irrigation Project	MAHARASHTRA	Pune and Satara	2010-11	28.100	9.97	18.13
3	Upper Penganga	MAHARASHTRA	Nanded, Hingoli, Yeotmal	2010-11	23.142	4.22	18.922
4	Bawanthadi	MAHARASHTRA	Bhandara	2016-17	2.500	0.0	2.5
5	Lower Panzara	MAHARASHTRA	Dhule	2016-17	9.980	0.0	9.98
6	Waghur	MAHARASHTRA	Jalgaon	2016-17	24.640	0.0	24.64
7	Lower Wardha	MAHARASHTRA	Wardha	2016-17	62.450	0.0	62.45
8	Tillari	MAHARASHTRA	Sinsdhudurg	2016-17	6.680	0.0	6.68
9	Lower Dudhna	MAHARASHTRA	Bhandara	2016-17	30.040	0.0	30.04
1	Dolaithabi Barrage Project	MANIPUR	Imphal East and Senapati	2015-16	5.500	1.3	4.2
2	Thoubal Multi-purpose Project, Ph-III	MANIPUR	Thoubal, Imphal East and Senapati	2015-16	16.536	6.7	9.836
1	Lower Indra	ODISHA	Nuapada	2015-16	29.900	0.4	29.5
2	Upper Indrawati Major Irrigation Project	ODISHA	Kalahandi	2009-10	84.984	33.5	51.484

Guidelines for Central Assistance for CAD works
in prioritized AIBP funded Irrigation Projects

1	Kotla Branch, part- II (Patiala Feeder)	PUNJAB	Bhathinda, Mansa,Sangrur & Barnala	2014-15	266.339	59.52	206.819
1	Gang Canal, Phase-I	RAJASTHAN	Sriganganagar	2015-16	118.250	19.0	99.25
	Gang Canal, Phase-II	RAJASTHAN	Sriganganagar	2015-16	44.875	5.0	39.875
37	Grand total				3039.213	373.67	2672.543

Annexure-III

**INSTRUCTIONS FOR PREPARATION OF DETAILED PROJECT REPORT
(DPR)**

The DPR shall be prepared as per the Part-IV of Ministry of Water Resources' Guidelines for Preparation of Detailed Project Report of Irrigation and Multipurpose Projects (2010), and the following shall also be ensured:

- (i) DPR shall be as per the District Irrigation Plan /State Irrigation Plan approved⁹ by competent authorities.
- (ii) DPR shall be based on feasibility studies, competencies of implementing agencies, anticipated benefits (outputs/ outcomes) that will flow to the farmers/ State, and definite timelines¹⁰ for implementation of prioritized projects.
- (iii) DPR shall include detailed cost estimate as well as (contract) package-wise¹¹ break-up of the cost estimate.
- (iv) DPR shall include layouts and drawings detailing the proposed CAD works below each outlet of the minors/ distributaries, and site-boundaries of each envisaged contract package shall also be presented on the suitable digital Map, for facilitation of project monitoring. To the extent possible, DPR shall also present the geo-tagging of field-channel outlets proposed to be created under CAD works.
- (v) DPR shall chart out a viable road map for PIM in the targeted command. DPR shall list out the WUAs already created along with details of their CCA coverage, and it shall also identify the balance WUAs to be created along with targeted CCA under them.

⁹In case the approved DIP/SIP are not in place, the CAD component proposals shall have the approval of the State Level Sanctioning Committee (SLSC)/ State TAC on recommendation of Inter Departmental Working Group (IDWG), as indicated under Section 11.0 of the operational guidelines of PMKSY.

¹⁰Out of the 99 prioritized projects, 23 projects (Priority-I) are targeted for completion during 2016-17, another 31 projects (Priority-II) by 2017-18, and balance 45 projects (Priority-III) by December 2019. See Annexure-I for priority-wise list of identified Projects.

¹¹Large size of contract packages shall be encouraged so as to achieve maximum coverage of structural intervention per package. In certain cases where actual cost-rate of an activity is justifiably higher than the indicated cost norm, the enhanced 'per hectare' rate may be allowed provided the total cost of applicable activities is aggregated at the level of work package for the computation of ceiling cost. In all such cases, the larger size of package will enable greater flexibility in absorbing variations in cost components of different activities.

- (vi) Timelines of Non-Structural interventions (e.g. registration¹² of WUAs, release of functional grants/ infrastructure grants to WUAs, trainings to WUAs/ farmers etc.) shall be presented in the DPR along with completion schedules of Structural interventions in respective WUA jurisdictions.
- (vii) DPR shall include quarterly phasing of the physical and financial targets.
- (viii) DPR shall include provision for monitoring and evaluation.

¹²Every registered WUA will also be required to create a login account on the CADWM Project Monitoring website and related MIS portals and furnish details of its functioning. The portal, besides facilitating the WUAs with relevant information, will also enable performance monitoring, bench marking, and ranking of WUAs for performance awards.

Annexure-IV

PROCEDURE FOR APPRAISAL OF DETAILED PROJECT REPORT (DPR)

Sl. No.	Activity	Typical Timelines
1	State Government will submit two copies of DPR to the CAD Cell of CWC.	-
2	CAD Cell will examine the DPR from technical and financial aspects, and for its compliance of the CAD guidelines.	10 days
3	CAD Cell will inform the State Government of any insufficiency-of-information or inadequacy-of-presentation in the DPR.	Within 10 days of receipt of DPR
4	State Government will submit compliance, by way of furnishing of additional information or by modification of DPR (as indicated by CAD Cell).	Within 10 days of receipt of CAD Cell's observations
5	CAD Cell will furnish its recommendations/ comments along with one copy of the duly examined DPR to the Project Monitoring Organization (PMO) at CWC Headquarter.	Within 15 days of receipt of original DPR, or within 10 days of receipt of additional info/ modified DPR
6	PMO (CWC headquarter) will either inform the State Government about non-acceptance ¹³ of CAD funding proposal duly citing reasons of refusal, or forward its recommendations on eligible Central Assistance to the CADWM Wing of the Ministry.	within 15 days of receipt of proposal from CAD Cell

¹³The non-accepted CAD funding proposals will have to be resubmitted by the State Governments to the CAD Cells after incorporation of necessary corrections in DPRs. Thus received DPRs will be processed by CWC under fresh timelines.

Annexure-V

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

(This supersedes the earlier MOU dated.....for mentioned project)
(Delete if not applicable)

1. This MoU is made between the Ministry of Water Resources, RD & GR, Government of India and the Government offor the completion ofCAD&WM Project (henceforth referred as 'Project') from 2016-17 to which was included under CAD&WM Programme of PMKSY for central assistance.
2. According to the State Government, the expenditure up to 3/2016 is Rs..... crore andha of CCA has already been covered. The balance cost for completion of the project is thus Rs.....crore with a balance CCA ofha. Thus full CCA ofha will be completed with an estimated cost of Rs.....crore. Annual physical and financial targets for balance CCA under different activities of the project from the year 2016-17 to are as shown at **Annexure -VA**. Year-wise Central and State share are at **Annexure –VB**.
3. Ministry of Water Resources RD&GR, Government of India agrees to extend total Central Assistance of Rs.-----Crore staggered over the period starting from 2016-17 and till target completion year ending March----- . The State Government shall keep budgetary allocation for the project in State budget accordingly so that the project is completed by its targeted date.
4. Information on year-wise targeted Irrigation Potential Created and Irrigation Potential Utilized of the Irrigation Project are as under:-

S. No	Year	Irrigation Potential Created/ Proposed to be created. (hect.)	Irrigation Potential Utilized/ Proposed to be Utilized. (hect.)	
			In CCA (ha.)	In IPU(ha.)
1.	Till 2015-16			
	2016-17			
	2017-18			
	2018-19			
	2019-20			
	Total			

5. Brief description of project along with its salient features and maps as per **Annexure-VC**.
6. The Project will be treated as complete on completion of CAD works and on handing over the control and management of irrigation system to the Water Users' Association. The State Government shall inform completion of project to CWC and Ministry of WR,RD&GR, for deleting the project from the list of ongoing Project.
7. Funding of the Project has been arranged by borrowing from NABARD. If the State Government fails to complete the project as per time line mentioned in above Paras, or as per the revised time line approved by the Competent Level, the Central Assistance released for the project along with the cost incurred in borrowing the CA amount from NABARD shall be converted to loan to the State Government and shall be recovered as per usual terms of recovery of the Central loan.
8. The project will be closely monitored by State Government and Central Water Commission, Ministry of Water Resources, RD&GR and NITI Aayog. Third party monitoring of the project will also be got carried out by Central Government/ State Government for ensuring timely completion of project. The State Government shall provide all the assistance required to the monitoring team in this regard.
9. The concerned State Government officers shall update the progress of project components on the MIS system (developed by this Ministry) in 1st week of each month.
10. The State Government shall ensure strengthening of existing quality control mechanism and maintain required quality control in the execution of the works. The State Government shall also ensure that all mandatory quality control checks and mandatory inspection by supervisory officers and quality control tests by field laboratories has been carried out. Periodical report of quality control will also be submitted to CWC.
11. State shall give the project accounts audited by State AG regularly and submit the compliance. Copies of such audit report and compliance should be submitted to the CWC and Ministry.
12. State Government shall hand over the project area to WUAs after completion of CAD works including correction of system deficiencies.
13. The State Government shall deposit one time functional grant and one time infrastructural grant in the accounts of WUAs and ensure commencement of their effective functioning.
14. Independent evaluation of project is mandatory and shall be carried out by State Governments through an independent agency and the report shall be submitted to CWC/ Ministry.
15. The State Government shall provide all the support to the Ministry in respect of any information required on progress of project, expenditure

- incurred, Utilization Certificate in prescribed format, or any other details requested by this Ministry.
16. State Government agrees to undertake reform measures for strengthening of WALMI/IMTI, wherever applicable, as per guidelines. These institutes shall be involved in organization of demonstrations, adaptive trials and trainings to the Water Users' Associations of the project.
 17. The Central assistance will be given in two installments as per the condition prescribed in the scheme guidelines.

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

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

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

**Commissioner (CAD), Ministry of
Water Resources, RD&GR**

Annexure-VA

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

1. Plan for completion of the project

**Physical in-th. Hectare
Amount-Rs. in Lakh**

S No	Activities	Total		2016-17		2017-18		2018-19		2019-20	
		Phy-sical	Finan-cial	Phy-sical	Finan-cial	Phy-sical	Finan-cial	Phy-sical	Finan-cial	Phy-sical	Finan-cial
I	Structural Interventions										
a	Survey, Planning, Design										
b	OFD works										
	i) Construction of unlined field channels										
	ii) Construction of lined field channels, laying of underground pipelines etc for gravity flow.										
	iii) Mechanized land levelling in the hilly/ difficult areas, laser land levelling in selected areas										
	iv) Micro-irrigation infrastructure including components of sump, pump, HDPE pipelines and pertinent devices.										
c	Construction of Field, intermediate and link drains										
d	Correction of System Deficiency										
e	Reclamation of water logged areas										
	i) Surface drainage, including reclamation through Bio-drainage										
	ii) Sub-surface drainage										
	Total Structural Interventions										

Guidelines for Central Assistance for CAD works
in prioritized AIBP funded Irrigation Projects

II	Non-structural Interventions										
a	Onetime grant to registered/elected Water Users' Association (WUA)										
	i) Functional grant										
	ii) Infrastructure grant										
b	Trainings, demonstration and adaptive trials (including on micro-irrigation, water use efficiency, increased productivity and sustainable irrigation.										
	Establishment										
	Total Non Structural Interventions										

Signature of in charge/Administrator, CADA

Name:

Designation:

Seal:

Annexure-VB

Cost sharing of the Project

Rs. in lakh

S.No.	Year	Total estimated cost	State Share	Central Share

Signature of in charge/Administrator, CADA

Name:

Designation:

Seal:

Annexure-VC

Brief Details of CAD Project

- i) Project in Brief:-
- ii) Salient features:-
- iii) Other attachments
 - a. Pertinent information of the Project should be furnished in the MIS of PMKSY- CADWM.
 - b. Layout and drawing details of the proposed CAD works below each Culava/outlet along with Geo-tagging (longitude and latitude) of outlet to facilitate monitoring on Google map.
 - c. Viable road map for PIM in the targeted command along with list of Water Users Associations(WUAs) formed with details of CCA coverage, and list of remaining WUAs with targeted CCA.
 - d. Time-line of non structural interventions (i.e registration of WUAs, the release of functional grant/ infrastructural grants to WUAs, training/ demonstration to WUAs/Farmers.)
 - e. Quarterly phasing of physical and financial targets.

Signature of In-charge/Administrator, CADA

Name:

Designation:

Seal:

Annexure-VI

COST NORMS & PROCEDURE FOR COMPUTATION OF CEILING COST

Sl. No.	Activity	Cost Norms	Procedure for computation of Ceiling Cost
(I) Structural Interventions (Total Cost: Rs. 35,000 per hectare)			<ol style="list-style-type: none"> Activity-wise cost of the applicable structural interventions for a Project shall be calculated by multiplying respective cost norm with the <i>Culturable Command Area (CCA)</i> (in hectare) covered by the Project. The overall cost of Structural intervention shall be computed by totaling the cost of each applicable activity, and thus arrived total cost shall be restricted to an amount arrived by multiplication of Rs.35,000 with the CCA (in hectare) of Project. A reasonable increase (over and above the indicated cost norm) in rate of any particular activity shall be permitted if due justifications are furnished. However, in all such cases, the procedure listed at Para 1 & 2 above shall be applicable on the aggregated area of each (proposed) work package instead of gross CCA of the Project.
a)	Survey, Planning and designing of OFD Works	Rs.1,200 per hectare	
b)	On-Farm Development (OFD):		
i)	Construction of lined field channels, laying of underground pipelines etc for gravity flow.	Rs.25,050 per hectare	
ii)	Mechanized land leveling in the hilly/difficult areas, laser land leveling in select areas.	Rs.50,000 per hectare	
iii)	Micro-irrigation infrastructure including components of sump, pump, HDPE pipelines, and pertinent devices.	Rs.50,000 per hectare	
c)	Construction of Field, intermediate and link drains.	Rs.6,000 per hectare	
d)	Correction of system deficiencies in systems of capacity up to 4.25 Cumec (150 cusec)	Rs.8,000 per hectare	
e)	Reclamation of water logged areas:		
i)	Surface drainage, including reclamation through Bio-drainage	Rs.20,000 per hectare	
ii)	Sub-surface drainage	Rs.50,000 per hectare	
(II) Non-structural Interventions (Total Cost: Rs. 5,000 per hectare)			<ol style="list-style-type: none"> Activity-wise cost of the applicable non-structural interventions shall be calculated for each Project as per indicated cost norm. Total cost of all activities of non-structural interventions shall be restricted to an amount arrived by multiplication of Rs.5,000 with the CCA (in hectare) of Project.
a)	Onetime grant to registered/ elected Water Users' Association (WUA):		
i)	Functional grant	Rs.1,200 per hectare	
ii)	Infrastructure grant	Rs.3 lakh per WUA	
b)	Trainings, demonstration, and adaptive trials (including on micro-irrigation, water use efficiency, increased productivity and sustainable irrigation).	Actual cost	
c)	Incremental establishment including the cost payable to Social Facilitator (engaged and paid by Union Ministry) through social sciences agency/ institute/ consultant.	Actual cost ¹⁴	

¹⁴Limited to 10% of cost items (b) to (e) of structural intervention

**Annexure-VII
(Proforma-1)**

**CHECK LIST FOR HOLISTIC IMPLEMENTATION OF CAD WORKS DURING
2016-17 (CFY)¹⁵**

Name of District _____ Code No. of District _____

Name(s) of CAD Project (s) -----.

Sl. No.	Subject	Amount / Remarks
1.	Annual State Plan outlay under CAD Works for 2016-17 (CFY) for all the Districts (Rs. in Lakh).	
2.	Provision made for the specific district for CADWM Projects in State Budget for 2016-17 (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 State share and Central share indicated clearly in the Utilization certificate (UC) in GFR 19A?	
8.	Whether UC has been signed by CADA administrator and Principal Secretary/ Secretary-in-charge?	
9.	Whether Gol sanction letter and amount sanctioned have been indicated in the UC?	
10.	Whether the figures given in the UC tallying with that of financial progress sheet?	
11.	Whether Audited Statement as prescribed is attached?	
12.	Whether details of WUAs formed, registered and for which irrigation system handed over, are attached.	
13.	Whether copy of release order of State share (project-wise) for CFY has been attached?	

Signature of In-charge/Administrator, CADA

Name:

Designation:

Seal:

¹⁵CFY - Current Financial Year i.e. year of proposal for release of Central Assistance.

Guidelines for Central Assistance for CAD works in prioritized AIBP funded Irrigation Projects

Name(s) of the CAD Project(s): _____

Financial Data

ANNEXURE-VII

(Proforma-2)

1 Estimated cost as per District Irrigation Plan (DIP) under CADWM programme:

Central share:

2 Expenditure incurred so far:

State share:

3 Balance Expenditure to be incurred:

Total:

4 Budget Provision For 2016-17 (CFY):

Sl. No.	Item	Central Assistance Released during 2015-16 (LFY)	Actual expenditure during 2015-16 (LFY)			Actual Expenditure during 2016-17 (CFY) till...		
			State share	Central share	Total	State share	Central share	Total
1	2	3	4	5	6	7	8	9
A)	Structural Interventions:							
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/Underground pipelines							
	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							
B)	Non-structural Interventions:							
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)	(i) Adaptive trials							
	(ii) Demonstrations (including on Micro-irrigation, mechanised/laser levelling, water use efficiency)							
	(iii) Training courses organised by the State							
	(iv) Monitoring and Evaluation studies							
	(v) Action Research							
	TOTAL							
	Allocation / Expenditure on SC and ST farmers out of total grant.							
h)	Establishment cost							
	(i) Estt. cost of State headquarters							
	(ii) Estt. cost of CADAs/projects							

Note: Abstract of progress in one Pro-forma and separate Proformae for each CAD projects may be submitted.

Signature of Incharge/Administrator, CADA

Name:

Designation:

Seal:

Proforma for District wise Physical Progress

Annex-VII (Proforma-3)

Area in Th. Ha.

State: _____ District with code: _____ CADA: _____ Project(s): _____

1. CCA: _____

2. UIP: _____

3. Irrigation potential : _____

a. Created during 2015-16 (LFY): _____

b. Utilised during 2015-16 (LFY): _____

c. Created up to the 2015-16 (LFY) under District/CADP: _____

d. Utilised up to 2015-16 (LFY) under District/CADP: _____

4. Category of the project: General/Special

5. Year of inclusion under CADD: _____

Sl. No.	Activity	Total quantum of work involved	Cumulative achievement up to the beginning of 2015-16 (LFY)	Targets and Achievements for 2015-16 (LFY)		Cumulative achievement up to end of 2015-16 (LFY)	Targets and Achievements for 2016-17 (CFY)			Reasons/Justifications for shortfall
				Targets	Achievements		Targets for the year	Achievements till....	Targets for the remaining periods	
1	2	3	4	5	6	7	8	9	10	11
A	Structural Interventions:									
a)	Survey, Planning and Design									
b)	OFD Works (comprising of construction of field channels, micro-irrigation, land leveling/shaping wherever necessary)									
	i). Total area of Lined channels /underground pipelines (in th.ha)									
	ii) Area under mechanised leveling/ laser levelling									
	iii) Area under Micro-irrigation (with grid power/solar panel and pump), wherever									
	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)									

Guidelines for Central Assistance for CAD works in prioritized AIBP funded Irrigation Projects

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									
B	Non-structural Interventions:									
f)	One time functional/ infrastructure grant to registered WUAs (i) Functional Grant (ii) No. of WUAs registered (iii) Area covered under the WUAs									
	(iii) No of WUAs which have been handed over the system (iv) Area Covered (ii) Infrastructural Grant (ii) No. of WUAs (iii) 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.)									

Note: Abstract of progress in one Pro-forma and separate Proforma for each CAD projects may be submitted.

Signature of Incharge/Administrator, CADA
Name:
Designation:

Annexure-VII (Proforma-4)

UTILISATION CERTIFICATE FOR THE YEAR (LFY)

NAME OF DISTRICT WITH CODE _____
Name of CAD project(s) _____

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 LFY for implementation of Command Area Development & Water Management (CAD&WM) Programme in -----District for ----- CAD&WM Project(s), 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 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) WUAs are functioning as per Participatory Irrigation Management Act./existing other legal framework and details of WUAs are attached
- g) Non-structural interventions are being implemented andNo. of training programme has been organised where farmers have participated. No. of adaptive trials have been organised.
- h) Concurrent evaluation report is enclosed

(Note: State wise abstract along with districtwise UCs with names of CAD project(s) may be submitted)

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

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

Date:

ANNUAL REVIEW OF STATUS OF EACH PROJECT

Name of District _____ District Code: _____

Name of the Project(s): _____

CCA _____ **UIP (th.ha)** _____
(th.ha) _____

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

Structural Interventions

- > OFD Works (target and achievement upto CFY):
- > Reclamation of Water Logged Areas (target and achievement):.
- > Correction of system deficiencies. (target and achievement):
- > Non-structural Interventions, like Training, Evaluation, Demonstration and Adaptive trial(Nos) implemented.
- > PIM (target and achievement upto CFY) and detilas of WUAs:
- > 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
	<u>Kharif</u>			
1	(i)			
2	(ii)			
3	(iii)			
4	(iv)			
	<u>Rabi</u>			
5	(i)			
6	(ii)			
7	(iii)			
8	(iv)			
	<u>Hot weather</u>			
9	(i)			
10	(ii)			
11	(iii)			
12	(iv)			

> List of agency identified for concurrent evaluation of project:

Signature of In-charge/ Administrator, CADA

Name:

Designation:

Seal:

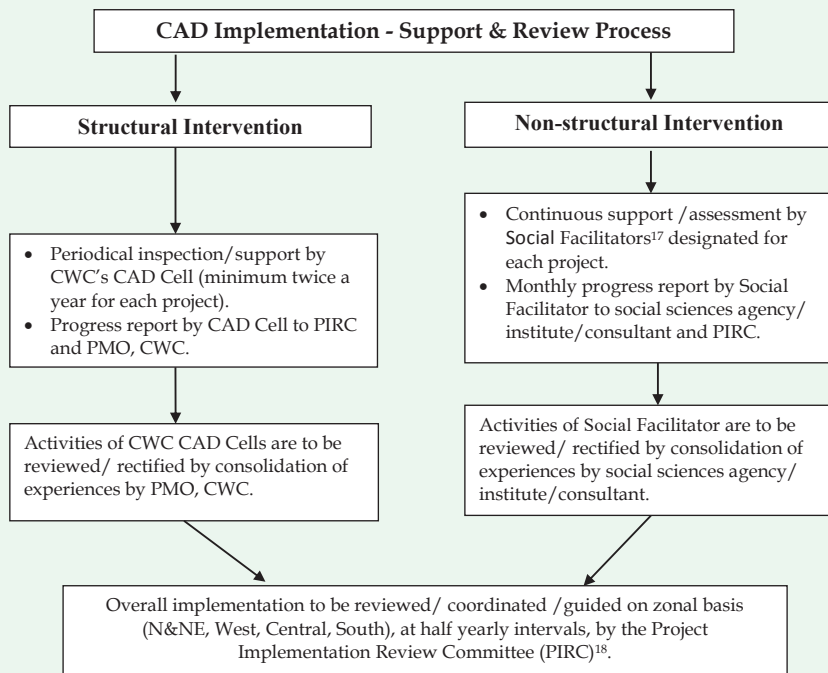
Annexure-VIII

**PROCEDURE FOR EXAMINATION OF PROPOSALS FOR RELEASE OF
CA INSTALMENTS**

Sl. No.	Activity	Typical Timelines
1	State Government will submit proposal for release of CA installment to the CAD Cell of CWC.	-
2	CAD Cell will examine each release proposal in following manner:	15 days
(i)	Conformity of proposal with respect to the corresponding annual target.	
(ii)	Validation of the amount of CA on the basis of actual costs of work packages awarded, for downward revisions of CA, wherever applicable.	
(iii)	Ensure receipt of the following in case of second instalment of the annual release:	
a.	Utilization Certificates ¹⁶ of at least 50% of funds released in first instalment during CFY.	
3	CAD Cell will forward the case to CADWM Wing with recommended amount of instalment along with its observations on the performance of project in terms of physical and financial progress as well as quality of works executed.	Within 15 days of receipt of release proposal

¹⁶ A utilisation certificate duly countersigned by the Principal Secretary/Secretary of the concerned Department in ink and stamped will be submitted by the State for the central assistance as also the matching state share in the prescribed format in Form GFR 19-A (Annex-II (Proforma-4)) at the time of making proposal for the first instalment/subsequent release for the project. The Utilization Certificate must contain physical achievement of CADWM components as agreed to in the MoU on year to year basis, and date of release of Central share/ State share to the implementing agency along with respective order number and date.

FRAMEWORK FOR MONITORING AND CONTINUAL IMPROVEMENT



¹⁷For each of the 99 priority projects under AIBP, a separate Social Facilitator will be selected from an empanelment of suitable entities by an agency/institute/consultant specialized in the field of social sciences; and such Social Facilitator will function and will be paid service charges as per TOR to be evolved by social sciences agency/ institute/consultant, and their scope of assignment shall be suitably enhanced to cover the intended role.

¹⁸PIRC will consist of representatives from the State government, Central Government, CWC, Social Sciences agency/ institute/consultant, Social Facilitator, and WALMIs/IMTIs. The Committee will give direction with regard to changes in implementation, priority area, coordination, quality control or any other matter related to meaningful implementation of the project.

**Gist of Key Decisions of Project
Implementation Review Committee (PIRC)
Meetings and Other Important Meetings For
Corrections and Improvements in CADWM
Implementation**

Gist of Key Decisions of Project Implementation Review Committee (PIRC) Meetings and Other Important Meetings For Corrections and Improvements in CADWM Implementation

A. Structural Intervention (On Farm Development)

- 1) The CAD works should ensure flow of channelized irrigation water to every individual farm under the targeted *Culawa (Chak)* outlet command through the combination of lined and unlined channels. {1st PIRC Meeting, 29th April, 2017}
- 2) The layout of field channel should be designed to feed farms on both sides of the channel, and an optimal length of the channel network (including both lined and unlined portions) should be arrived in a manner acceptable to the farmers of the targeted *Culawa* outlet command.
{1st PIRC Meeting, 29th April, 2017}
- 3) The lined portion of channel should be constructed ensuring: (a) its starting from the *Chak* outlet, (b) its continuity without breaks, and (c) maximum coverage along the main limb. The guidelines has set ceiling costs for lined channel solely for the purpose of computation of Central Assistance; States may decide the lining proportion as per actual requirement.
{1st PIRC Meeting, 29th April, 2017}
- 4) Sufficient funds should be made available by State Governments over and above the Central Assistance for ensuring hydraulic connectivity to each farm field through the combination of lined and unlined channels.
{2nd PIRC Meeting, 26th November, 2017}
- 5) The complete layout of the field channels for providing channelized irrigation water to every individual farm through the combination of lined and unlined channels should be endorsed by respective WUA by recording of signature on layout plans(s).
{1st PIRC Meeting, 29th April, 2017}
- 6) Detailed layout of lined and earthen channel should be displayed for each Outlet Command (*Culawa*) in such a manner that farmers become aware of the field channel network. 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

Gist of Key Decisions

way that each farm field gets water with the minimum length of field channel (both lined and unlined) through openings serving both sides.

{2nd PIRC Meeting, 26th November, 2017}

- 7) Any proposal for reclamation of water-logged area should be tailored keeping in mind the future scenario evolving from higher application efficiency targeted under CADWM. In areas where the water logging is caused by other sources such as canal leakage, the intervention should be directed at the root cause. Only in cases where water logging is attributed for reasons of soil quality, the interventions of surface and sub-surface drainage should be attempted; and even in such cases, the implementation of micro-irrigation will be a more desirable action.

{1st PIRC Meeting, 29th April, 2017}

- 8) Prior lining of feeder canal is not a pre-condition for taking up the lining of field channels in command areas for two reasons: (i) larger water-use efficiency may be achievable from lining of field channel than from lining of feeder canal; and (ii) since the later-day lining of feeder canal can only raise the outlet level, it may not pose any problem in operating an existing lined field channel. However, exceptions can be made in such cases where Department is aiming for increasing the extent of command by lining the canal network, and a later-day change in size of field channels is being anticipated.

{1st PIRC Meeting, 29th April, 2017}

- 9) States should involve WUAs in planning of field channels without making it mandatory that actual work is also to be executed through WUAs. The execution of the works through WUAs' have the limitations of: (i) attracting contractors in WUA's elected body if large packages are given; (ii) work progress becoming very slow if small packages are given; (iii) absence of mechanization and quality of works that can come from established large contractors; (iv) absence of competitive pricing. Hence for taking up CADWM works of 99 projects in a mission mode, it is desirable to go for large contract packages with stipulation for prior consent of farmers/ WUAs in the planning of the field-channel layout.

{1st PIRC Meeting, 29th April, 2017}

- 10) At each *Culawa* 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.

{2nd PIRC Meeting, 26th November, 2017}

- 11) Details of completed outlets are required to be progressively shared with MoA&FW so that action for crop planning by respective Agriculture Universities can be initiated by MoA&FW. State Governments should geo-tag each outlet and mark the completion of respective outlets on the CADWM-IS Portal so that

information can be transparently generated and shared with MoA&FW in the form of MIS Report.

{3rd PIRC Meeting, 11th May, 2018; 4th PIRC Meeting, 5th February, 2019}

B. Structural Intervention (Micro-Irrigation Infrastructure)

- 12) The present guideline mandates micro-irrigation coverage in at least 10% of the CCA of the project. In exceptional cases, the shortfall in micro-irrigation target from one project may be shifted to another (more suitable) project within the 99 list; in this manner, some of the lift irrigation schemes can be targeted for 100% micro-irrigation in a cost effective manner benefitting from economies of scale.

{1st PIRC Meeting, 29th April, 2017; 3rd PIRC Meeting, 11th May, 2018}

- 13) Implementation of minimum targeted command through micro irrigation should be expedited by each State.

{ 2nd PIRC Meeting, 26th November, 2017}

- 14) Activities needed for conjunctive use of groundwater can be included as part of micro-irrigation infrastructure for sustainability of micro-irrigation system.

{4th PIRC Meeting, 5th February, 2019}

- 15) Advancements in agricultural practices have brought a major shift to non-conventional crops; a large number of such crops are suitable for micro-irrigation. Limited availability of irrigation water necessitates switch to micro-irrigation, and governmental regulation regarding use of micro-irrigation needs to be made mandatory for certain types of crops. There is need to improve operation plan of irrigation system in CADWM activity both for conventional field channels as well as micro-irrigation.

{4th PIRC Meeting, 5th February, 2019}

C. Convergence with PDMC Scheme (of MoAFW) for Farm Level Micro Irrigation

- 16) Convergence with the extant 'Per Drop More Crop' Scheme of Ministry of Agriculture & Farmers' Welfare is required to be carried out for farm level development of micro-irrigation wherever micro-irrigation infrastructure is being developed with CADWM funding. State Governments should submit proposals for cluster level subsidy (central) assistance to MoA&FW with due concurrence of the SLSC. Funds can also be availed by State Governments for meeting any top-up subsidy to farmers through 'Micro-Irrigation Fund' operated by NABARD.

{3rd PIRC Meeting, 11th May, 2018; 4th PIRC Meeting, 5th February, 2019}

- 17) In order to promote MI in canal command area which are generally under the control of State Irrigation Departments, proposal for farm land MI (under PMKSY-PDMC) can be forwarded by Irrigation Departments directly to CADWM Wing after obtaining approval of respective SLSC. Such cases with due recommendation will be forwarded by CADWM Wing to DAC&FW for processing the case for release of funds to the concerned Irrigation Department.

{Minutes of Meeting (9th November, 2018) on Coverage of micro Irrigation in Command Area, issued vide DAC&FW's letter no. 17-21/2018-RFS-III dated 7th January 2019}

D. Non-Structural Intervention (Creation and Capacity-building of WUAs)

- 18) Focus of non-structural intervention under CADWM should be on “Taking over of irrigation system by WUAs” as done in case of Odisha.
{1st PIRC Meeting, 29th April, 2017}
- 19) Measures for creation of WUAs (wherever not existing) and WUA’s capacity-building should precede the structural intervention, or at the most taken up simultaneously with the initiation of structural intervention.
{1st PIRC Meeting, 29th April, 2017}
- 20) The State Governments should release the infrastructure and functional grants to registered WUAs wherever the Central Assistance for this component has been released.
{3rd PIRC Meeting, 11th May, 2018; 4th PIRC Meeting, 5th February, 2019}
- 21) Overall improvement in financial strength of WUAs is essential for their long-term sustainability. However, this should not be attempted by consideration of higher grants for WUAs; rather they should be empowered for taking financial decisions on their own in relation to water tariffs, differential pricing of water, fines for deferred payments, share in profit margins for common services, etc.
{1st PIRC Meeting, 29th April, 2017}
- 22) The area under the control of WUA should be kept in the range of 500 hectare so as to encourage greater involvement and sense of ownership amongst members of the WUAs. Activities relating to training and capacity-building of farmers and WUA members should be taken up at early stages of project implementation, and the functional and infrastructure grants should also be released at the earliest.
{2nd PIRC Meeting, 26th November, 2017}
- 23) WUAs should be financially empowered by way of amendments of PIM Acts or related regulations. Enabling provisions should be made empowering WUAs for fixing and collecting appropriate irrigation fees, and for paying bulk irrigation charges to Departments for water drawn at *Culawala* outlets at government fixed rates.
{2nd PIRC Meeting, 26th November, 2017}
- 24) Strengthening of WUAs should be brought about by providing handholding support through social facilitators. The agreement being finalized by Govt. of Gujarat with NGOs should be referred for appropriate actions by respective States. The National Water Mission under Ministry of Water Resources has empanelled a large number of good NGOs to act as social facilitator; States may take advantage of this empanelment.
{3rd PIRC Meeting, 11th May, 2018; 4th PIRC Meeting, 5th February, 2019}

E. Non-Structural Intervention (Functioning of WUAs)

- 25) The presentable copy of the layout(s) drawn to an appropriate scale should be laminated and kept in the office of WUAs as permanent record. The duly authenticated copy of layout map will help the WUAs to resolve conflicts which may arise between farmers.
{1st PIRC Meeting, 29th April, 2017; 2nd PIRC Meeting, 26th November, 2017}
- 26) The concept of warabandi, for equitable distribution of the available water through rotation of supplies, is built-in in the optimal design of irrigation canals; its exercise is not optional, but essential. However, a greater level of coordination and communication needs to be established with WUAs for determination and enforcement of a predetermined schedule specifying date, time, and duration of supply to each Culawa/Chak. A cascading communication and coordination is also required between the WUA and the individual farmer for ensuring timely supply of water in proportion to the size of farmer's landholding in the outlet command and his choice of crop.
{1st PIRC Meeting, 29th April, 2017}
- 27) In principle, the control and management of irrigation network below the government controlled outlets is the responsibility of WUAs. As land is not acquired by the government for CADWM interventions and the assets created under CADWM are not accounted as government assets, the regular maintenance of field channel created under CADWM program should not be construed as the responsibility of the government; and funds should not be released by default for its routine maintenance.
{1st PIRC Meeting, 29th April, 2017}
- 28) Rampant variations in cropping pattern vis-a-vis assumptions made in original estimation of project's irrigation potential is the leading cause for the non-equitable distribution of irrigation water in command. However, enactment of irrigation laws in this regard and their strict regulations may not be very fruitful. Instead, the issue at best can be resolved by market level intervention for farm produce influencing farmer's crop choices; or by demand-side management of irrigation water achieved through: (i) deeper penetration of water education; (ii) empowerment of WUAs for levying differential pricing; and (iii) control on irrigation releases to WUAs at government controlled outlets.
{1st PIRC Meeting, 29th April, 2017}
- 29) A greater level of awareness and vision needs to be built-in through capacity-building programs directed at WUAs for ensuring timely and regular elections. Shortcuts of unified notification (for same day State-level election), though effective for meeting the requirements of holding elections, are fraught with the risks of unwarranted politicization of the process.
{1st PIRC Meeting, 29th April, 2017}

F. CADWM - Information System

- 30) State Governments, with assistance of Project Management Unit (PMU) Consultant, should complete filling-up of MIS data in respect of all ongoing CADWM projects; release of Central Assistance would be linked with the up-to-date filling of MIS data.

{2nd PIRC Meeting, 26th November, 2017}

- 31) NIC should develop the CADWM-IS portal further so as to capture WUA's working, crop production/ productivity, farmer's income etc, and also provide strong analytical tools for their proper assessments.

{2nd PIRC Meeting, 26th November, 2017}

- 32) State Governments should ensure entry of project details and progress data in the CADWM-IS portal developed by NIC. Proposals for release of Central Assistance should also be submitted by the State Government using CADWM-IS portal. In case of requirement of assistance with MIS, the officials of PMU/NIC should be contacted; and if required PMU/NIC officials should conduct trainings at premises of the State Governments. For 2019-20, the CA utilization details will also be picked up from MIS, and CA release proposals of projects having inadequate MIS data will not get processed.

{3rd PIRC Meeting, 11th May, 2018; 4th PIRC Meeting, 5th February, 2019}

- 33) As part of continued project monitoring, several project inspection visits are being undertaken by the officials of CWC regional offices and the PMU. The actionable comments/ observations of such inspection visits should be mapped by the concerned CWC/PMU officials on CADWM-IS portal – for appropriate follow-up action by Project authorities and recording of compliance (on portal) by the State nodal officer. The States need to attend these observations and upload the compliances on the MIS.

{3rd PIRC Meeting, 11th May, 2018; 4th PIRC Meeting, 5th February, 2019}

- 34) State Governments should map the release of grants to WUAs on the CADWM-MIS portal for record and reference of the Direct Benefit Transfer.

{3rd PIRC Meeting, 11th May, 2018; 4th PIRC Meeting, 5th February, 2019}

G. Implementation/ Institutional Arrangements

- 35) Since CADWM works are required to be taken up pari-passu with AIBP works, it was decided that the condition of linkage of CADWM DPR with the DIP/SIP shall be waived off for the 99 prioritized Projects. In order to expedite inclusion of about 58 pending CADWM projects, above waiver may be implemented with immediate effect.

{Minutes of Review meeting (of 99 prioritized projects) under chairmanship of Secretary, MoWR, RD &GR, held on 27th February, 2017}

- 36) Since overall CAD works target for scheme of 99 projects extends to about 72 lakh hectares and substantial saving is expected in the overall target of 99 projects, it was decided that the enhancement of project target over and above the targets figure indicated in Cabinet Note is accepted.
{Minutes of Review meeting (of 99 prioritized projects) under chairmanship of Secretary, MoWR, RD &GR, held on 31st January, 2018}
- 37) CWC Headquarter, in consultation with CWC CAD Cells, should take up the task of standardization of field channels incorporating multiple options for local adaptation. CWC should also explore the measures available for installation of control and measurement devices in the field channels. The outcome of the exercise should be made available in the form of a 'Manual for Construction of Field Channels'.
{1st PIRC Meeting, 29th April, 2017; 2nd PIRC Meeting, 26th November, 2017}
- 38) The part DPRs of micro irrigation component will be approved at the level of Chief Engineer of CWC Regional Offices. { 2nd PIRC Meeting, 26th November, 2017}
- 39) States should set physical annual targets (and provide adequate budget) in such a way so as to maximize the work completion by December, 2019.
{3rd PIRC Meeting, 11th May, 2018; 4th PIRC Meeting, 5th February, 2019}
- 40) The India NPIM was created by MOWR, RD & GR as part of CADWM vision for promoting PIM activities across the country. All officials associated with CADWM activities at Central/State and project levels should come forward to avail the presently opened life membership window with one-time fee of Rs 2000. The increased membership should suitably be followed up with creation of state specific chapters of India NPIM.
{3rd PIRC Meeting, 11th May, 2018}
- 41) There is a need to bring the concept of equity in irrigation water both through surface and ground water combined. The concept of equity needs to be evolved both with availability of surface water and ground water combined (Micro-zonal mapping of ground water in the command). A strong institutional mechanism is required to be in place to implement this with enhanced co-ordination.
- 42) PMU should take up the activity of compiling and publishing success stories of PMKSY projects in various forms. {4th PIRC Meeting, 5th February, 2019}
- 43) State CAD Authorities may explore and identify CAD works in completed CAD projects where unlined water courses may be lined with MGNREGA funds for achieving convergence.
{4th PIRC Meeting, 5th February, 2019}

