

Command Area Development and Water Utilization Department

Introduction:-

The Command Area Development Programme was conceived of as an integrated programme, which would orchestrate all the activities crucial for increasing agricultural production in the command and lead to better utilization of the created Irrigation potential. The concept involved an innovation by way of bringing together various activities hitherto looked after by a number of different departments in the States. The Command Area Development Programme was conceived of as a dynamic process of harmonizing land, water and crop to be managed by a multi-disciplinary team under the overall control of the Command Area Development Authority.

The Command Area Development (CAD) Programme is executed with the objective to bridge the gap between Irrigation potential created and that utilized through micro level infrastructure development and efficient farm water management; to enhance agricultural production and productivity' and to improve socio-economic conditions of the farmers.

Activities of CAD

1. Irrigation Works:

- (i) Canal lining, canal capacity improvement
- (ii) Control structures, outlets
- (iii) Miscellaneous works(silt removal, reshaping of Canal banks, canal roads)

2. Drainage works :

- (i) Construction of main, sub-main, carrier, seepage drains
- (ii) VRBs, Roads

3. OFD works :

- (i) Field channel lining, Land leveling
- (ii) Realignment of field boundaries

4. Agriculture Improvement :

- (i) Research, demonstration, training.

Under Command Area Development and Water Management (CADWM) programme of Ministry of Water Resources, Government of India, works of construction of pucca water courses for land development works have been taken up in Sidhmukh Nohar Irrigation Project, Amar Singh Sub Branch, Gang Canal Phase I, Gang Canal Phase II, Bhakra Canal Project, Bisalpur Project and Chambal Project respectively for which expenditure shall be borne by Government of India (GoI) and Government of Rajasthan (GoR). OFD works and lining of field channels are being executed to enhance the irrigation potential under Centrally sponsored Scheme of CADWM, MoWR, GoI.

The details of various ongoing Projects under CADWM are:-

1. **Sidhmukh Nohar Irrigation Project** :

- Sidhmukh Nohar Irrigation Project was included by the MoWR, GoI, under CADWM Programme on 17.09.2003 and the project was to be completed in six years i.e. by March 2009 in CCA of 1,11,458 hectare at an estimated cost of Rs. 181.17 crores.
- The construction of pucca water courses was in progress since the year 2004-05 and by March 2014 in 101042 hectare completed.
- However, in March 2014 the CCA was re-evaluated as 1,24,864 hectare. So, for the completion of balance CCA in 23822 hectare, the revised MoU for extension of project upto 2017-18 was prepared.
- The work of construction of pucca water courses has been completed with the expenditure of Rs 146.38 crores in 102562 Ha of command area up to March 2016.
- Target for the financial year 2016-17 is 3500 ha with the Budget Outlay of Rs 240.00 lacs. The OFD works has been completed during FY 2016-17 upto March 2017 is 1203 ha area with the expenditure of Rs 207.99 lacs.
- The total work since beginning completed in 103765 hectare up to March 2017 with an expenditure of Rs. 148.46 crores.

2. **Amar Singh Sub Branch** :

- Amar Singh Sub Branch Project was included by the MoWR, GoI, under CADWM Programme on 31.08.1998 and the project was to be completed in ten years i.e. by March 2008 in CCA of 67,211 hectare at an estimated cost of Rs. 67.74 crores.
- The construction of pucca water courses was in progress since the year 2005-06. In 2007-08, the Jassana canal system was shifted to SNIP

and therefore the net CCA for remaining portion was calculated as 50702 hectare.

- However, in March 2014 the CCA was re-evaluated as 44,425 hectare. So, for the completion of balance CCA in 11720 hectare, the revised MoU for extension of project upto 2017-18 was prepared.
- The work of construction of pucca water courses has been completed with the expenditure of Rs 75.20 crores in 34731 Ha of command area up to March 2016.
- Target for the financial year 2016-17 is 3500 ha. with the Budget Outlay of Rs 240.00 lacs. The OFD works has been completed during FY 2016-17 upto March 2017 in 545 ha area with the expenditure of Rs 58.46 lacs.
- The total work since beginning completed in 35276 hectare up to March 2017 with an expenditure of Rs. 75.78 Crores.

3. **Bisalpur Project** :

- Bisalpur Project was sanctioned by Government of India on 31.08.2006 for Rs. 129.34 crores. It was proposed to construct pucca water courses in its total command of 81621 Ha.
- The work of construction of pucca water courses has been completed with the expenditure of Rs 119.81 crores in 57775 Ha of command area up to March 2016.
- Target for the financial year 2016-17 is 10000 ha. with the Budget Outlay of Rs 2243.76 lacs. The OFD works has been completed during FY 2016-17 upto March 2017 in 1473 ha. with the expenditure of Rs 583.957 lacs.
- The total work since beginning completed in 59248 hectare up to March 2017 with an expenditure of Rs. 125.65 Crores.

4. **Chambal Project** :

- Chambal Project was started in the year 1974 for a total Command Area of 2,29,000 Ha. in Rajasthan.
- The work of construction of pucca water courses has been completed in 146554 Ha. of command area up to March 2016.
- Target for the financial year 2016-17 is 9000 ha with the Budget Outlay of Rs 1793.42 lacs The OFD works has been completed

during FY 2016-17 upto March 2017 in 4688 ha with the expenditure of Rs 1033.20 lacs.

- The total work since beginning completed in 151242 hectare up to March 2017 with an expenditure of Rs. 358.87 Crores

5. Bhakra Canal Project

- The Bhakra Canal Irrigation Project is a New Project which envisages construction of OFD Works in 1, 13,420 ha CCA with an estimated cost of Rs.451.00 Crores based on 12th Plan Guidelines issued by CADWM, MoWR, Government of India. Total area also includes 10% Command area to be treated by micro irrigation.
- The project has been sanctioned for inclusion in CADWM programme of MoWR, GoI vide letter No. N - 19011 /3/2015/CADWM on dated 28.09.2015 for Rs. 37087.7 lacs. The project is to be completed in two years i.e. by March 2017.
- The work of construction of pucca water courses is ongoing and with the expenditure of Rs 991.45 lacs in 6013 hectare completed upto March 2016.
- Target for the financial year 2016-17 is 24500 ha with the Budget Outlay of Rs 2180.00 lacs The OFD works has been completed during FY 2016-17 upto March 2017 in 19718 ha with the expenditure of Rs 3708.54 lacs.
- The total work since beginning completed in 25731 hectare up to March 2017 with an expenditure of Rs. 47.00 crores.

6. Gang Canal Project Phase-II

- The Gang Nahar Irrigation Project Phase-II is a New Project which envisages construction of OFD Works in 44875 ha CCA with an estimated cost of Rs.185.00 Crores based on 12th Plan Guidelines issued by CADWM, MoWR, Government Of India.
- The project has been sanctioned for inclusion in CADWM programme of MoWR, GoI vide letter No. N - 19011/4/2015/CADWM on dated 28.09.2015 for Rs. 14673.9 lacs. The project is to be completed in two years i.e. by March 2017.
- The work of construction of pucca water courses is ongoing and with an expenditure of Rs. 132.73 lacs in 1389 hectare completed upto March 2016,

- Target for the financial year 2016-17 is 7000 ha with the Budget Outlay of Rs 260.00 lacs The OFD works has been completed during FY 2016-17 upto March 2017 in 6863 ha with the expenditure of Rs 1043.64 lacs.
- The total work since beginning completed in 8252 hectare up to March 2017 with an expenditure of Rs 11.77 crores.

7. Gang Canal Phase I (NEW)

- Gang Canal Project was sanctioned by Government of India in January, 2011 for Rs.538 crores. It was proposed to construct pucca water courses in CCA of 1,83,216 Ha.
- The work of construction of pucca water courses has been completed with the expenditure of Rs. 217.54 crores in 68739 Ha of Command area up to March 2015. The Gang Canal project was closed at this point by GoI which later on sanctioned as Gang Canal Project Phase I.
- The Gang Canal Project Phase I (New) as per the XII Plan Guidelines was included by the MoWR, RD & GR, GoI under CADWM Programme on 14.03.2016 in CCA of 1,18,252 hectare at an estimated cost of Rs.386.68 crores. The project is to be completed in two years i.e. by March 2017.
- Target for the financial year 2015-16 is 31000 ha with the Budget Outlay of Rs. 7746.73 lacs. The OFD works has been completed during FY 2015-16 up to March 2016 is 32609 ha with the expenditure of Rs 7850.35 lacs.
- The total work completed during FY 2015-16 up to March 2016 is 32609 ha with the expenditure of Rs 78.51 crores.
- Target for the financial year 2016-17 is 17500 ha with the Budget Outlay of Rs 6478.02 lacs The OFD works has been completed during FY 2016-17 upto March 2017 in 21401 ha with the expenditure of Rs 6384.48 lacs.
- The total work since beginning completed in 54010 hectare up to March 2017 with an expenditure of Rs. 142.35 crores.

Physical Target and Achievement for year 2016-17

(Construction of Pucca Water course)

SN	Name of Project	Unit	Target	Achievement (Upto March 2017)
1.	Sidhmukh Nohar Irrigation Project	Ha	3500	1203
2.	Amar Singh Sub Branch Project	Ha	3500	545
3.	Gang Canal Project Phase-I	Ha	17500	21401
4.	Gang Canal Project Phase-II	Ha	7000	6863
5.	Bhakra Canal Project	Ha	24500	19718
6.	Bisalpur Project	Ha	10000	1473
7.	Chambal Project	Ha	9000	4688
	TOTAL	Ha	75000	55891

Financial Target and Achievement for year 2016-17

(Rs. in Lac)

SN	Name of Project	Budget Outlay	Expenditure (Upto March 2017)
1.	Sidhmukh Nohar Irrigation Project	240.00	207.99
2.	Amar Singh Sub Branch Project	240.00	58.46
3.	Gang Canal Project Phase-I	6478.00	6384.48
4.	Gang Canal Project Phase-II	1060.00	1043.64
5.	Bhakra Canal Project	2180.00	3708.54
6.	Bisalpur Project	2243.76	583.96
7.	Chambal Project	1793.42	1033.20
	TOTAL	14235.18	13020.27