

## **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 148.46 crores in 103765 Ha of command area up to March 2017 .
- Target for the financial year 2017-18 is 7500 ha with the Budget Outlay of Rs 180.00 lacs. During FY 2017-18 the OFD works has been completed in 434 Ha. area with the expenditure of Rs 45.06 lacs. upto August 2017.
- The total work since beginning completed in 104199 hectare with an expenditure of Rs. 148.91 crores. up to August 2017 .

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 75.78 crores in 35276 Ha of command area up to March 2017 .
- Target for the financial year 2017-18 is 2500 ha. with the Budget Outlay of Rs 180.00 lacs. During FY 2017-18 the OFD works has been completed in 742 Ha. area with the expenditure of Rs 45.11 lacs. upto August 2017
- The total work since beginning completed in 36018 hectare with an expenditure of Rs. 76.23 Crores. up to August 2017 .

### 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 125.65 crores in 59248 Ha of command area up to March 2017.
- Target for the financial year 2017-18 is 3000 Ha. with the Budget Outlay of Rs 1500.00 lacs. During FY 2017-18 the OFD works has been completed in 1436 Ha. area with the expenditure of Rs 87.82 lacs upto August 2017
- The total work since beginning completed in 60683 hectare with an expenditure of Rs. 126.53 Crores. up to August 2017 .

### 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 151242 Ha. area with an expenditure of Rs. 358.87 Crores up to March 2017 .
- Target for the financial year 2017-18 is 16000 ha with the Budget Outlay of Rs 4320.47 lacs During FY 2017-18 the OFD works has

been completed in 4589 Ha. with the expenditure of Rs 1109.58 lacs. upto August 2017 .

- The total work since beginning completed in 155831 hectare up to August 2017 .

#### 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 has been completed in 25731 Ha. area with an expenditure of Rs. 47.00 Crores up to March 2017 .
- Target for the financial year 2017-18 is 44000 Ha. with the Budget Outlay of Rs 5578.91 lacs During FY 2017-18 the OFD works has been completed in 8892 Ha. with the expenditure of Rs 1226.69 lacs upto August 2017 .
- The total work since beginning completed in 34623hectare with an expenditure of Rs. 59.40 crores up to August 2017.

#### 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 has been completed in 8252 Ha. area with an expenditure of Rs. 11.77 crores up to March 2017 .

- Target for the financial year 2017-18 is 15000 ha with the Budget Outlay of Rs 1650.00 lacs During FY 2017-18 the OFD works has been completed in 856 Ha. area with the expenditure of Rs 173.74 lacs upto August 2017 .
- The total work since beginning completed in 9108 hectare with an expenditure of Rs 13.50 crores. up to August 2017 .

#### 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.
- The work of construction of pucca water courses has been completed in 54010 Ha. area with an expenditure of Rs. 142.35 crores up to March 2017 .
- Target for the financial year 2017-18 is 21000 ha with the Budget Outlay of Rs 5126.20 lacs During FY 2017-18 the OFD works has been completed in 4107 Ha. with the expenditure of Rs 1556.79 lacs upto August 2017
- The total work since beginning completed in 58117 hectare with an expenditure of Rs. 157.92 crores up to August 2017 .

**Physical Target and Achievement for year 2017-18**

(Construction of Pucca Water course )

SN	Name of Project	Unit	Target	Achievement ((Upto August 2017 )
1.	Sidhmukh Nohar Irrigation Project	Ha	7500	434
2.	Amar Singh Sub Branch Project	Ha	2500	742
3.	Gang Canal Project Phase-I	Ha	21000	4107
4.	Gang Canal Project Phase-II	Ha	15000	856
5.	Bhakra Canal Project	Ha	44000	8892
6.	Bisalpur Project	Ha	3000	1436
7.	Chambal Project	Ha	16000	4589
	<b>TOTAL</b>	<b>Ha</b>	<b>109000</b>	<b>21056</b>

**Financial Target and Achievement for year 2017-18**

(Rs. in Lac)

SN	Name of Project	Budget Outlay	Expenditure (Upto August 2017 )
1.	Sidhmukh Nohar Irrigation Project	180.00	45.06
2.	Amar Singh Sub Branch Project	180.00	45.11
3.	Gang Canal Project Phase-I	5126.20	1556.79
4.	Gang Canal Project Phase-II	1650.00	173.74
5.	Bhakra Canal Project	5578.91	1226.69
6.	Bisalpur Project	1500.00	87.82
7.	Chambal Project	4320.47	1109.58
	<b>TOTAL</b>	<b>18535.58</b>	<b>4244.79</b>