



GOVERNMENT OF INDIA

MONITORING REPORT

ON

KANDULA OBULA REDDY GUNDLAKAMMA

RESERVOIR PROJECT

ANDHRA PRADESH

A. I. B. P. MONITORING REPORT No. 24

MONITORING & APPRAISAL (A.P) DIRECTORATE

KRISHNA AND GODAVARI BASIN ORGANISATION

CENTRAL WATER COMMISSION

HYDERABAD

June- 2023

KANDULA OBULA REDDY GUNDLAKAMMA RESERVOIR PROJECT
ANDHRA PRADESH
REFERENCE SHEET

- I. A chronicle indicating the dates of **past monitoring visits** made and status report issued since inclusion of the project under AIBP is as under:

| S NO | Date of visit | Report number | Date of issue of Report |
|------|--------------------------|---------------|-------------------------|
| 1 | 30.08.2006 | 1 | 25.09.2006 |
| 2 | 05.02.2007 to 06.02.2007 | 2 | 01.03.2007 |
| 3 | 02.04.2008 | 3 | 29.08.2008 |
| 4 | 16.01.2010 to 17.01.2010 | 4 | 19.03.2010 |
| 5 | 12.08.2010 to 13.08.2010 | 5 | 31.08.2010 |
| 6 | 18.02.2011 to 19.02.2011 | 6 | 30.03.2011 |
| 7 | 20.12.2011/19.01.2012 | 7 | 19.03.2012 |
| 8 | 18.07.2012 | 8 | 09.08.2012 |
| 9 | 21.02.2013 | 9 | 19.04.2013 |
| 10 | 26.12.2013 | 10 | 24.01.2014 |
| 11 | 04.03.2015 | 11 | 30.06.2015 |
| 12 | 13.07.2016 | 12 | 24.10.2016 |
| 13 | 15.03.2017 | 13 | 30.03.2017 |
| 14 | 06.05.2017 | 14 | 29.06.2017 |
| 15 | 20.03.2018 | 15 | 27.04.2018 |
| 16 | 09.07.2018 | 16 | 24.07.2018 |
| 17 | 22.11.2018 | 17 | 07.01.2019 |
| 18 | 06 & 07.09.2019 | 18 | 22.10.2019 |
| 19 | 19 & 20.03.2021 | 19 | 15.04.2021 |
| 20 | 05.07.2021 | 20 | 21.09.2021 |
| 21 | 23.03.2022 to 24.03.2022 | 21 | 11.04.2022 |
| 22 | 19.01.2023 | 22 | 23.02.2023 |
| 23 | 29.03.2023 to 30.03.2023 | 23 | 21.04.2023 |

- II. Details of **present visit** including dates of visits, Central & State Govt. Officers participating in the visit, and their designation and mobile numbers are as under:

| Sl No. | Date of visit | Name of officers Participated Shri/Mrs | Designation | Mobile No. |
|----------------------|----------------------------|---|-----------------|------------|
| CWC Officials | | | | |
| 1 | 20.06.2023 & 23.06.2023 | Annepu Praveen | Dy Director | 8587078277 |
| 2 | | S.Gnaneswara Rao | Junior Engineer | 9603930490 |

| State Govt. Officials | | | | |
|-----------------------|----------------------------|---------------|--------------------------|------------|
| 1 | 20.06.2023 & 23.06.2023 | Chinna babu | Executive Engineer | 9542329069 |
| 2 | | Y.Kamalakaram | Dy Executive Engineer | 9490165314 |
| 3 | | Nagaraju | Dy Executive Engineer | 9440322776 |
| 4 | | Narasimha Rao | Asst. Executive Engineer | 7989497524 |
| 5 | | Shivaji | Asst. Executive Engineer | 9652554625 |

III. Details of places, project component, irrigation structures visited are as under:

| Sl no | Date of visit | Location | | Component (AIBP & CADWM) | Structure/Activity Covered |
|-------|---------------|--------------|--------------|--------------------------|--|
| | | Longitude | Latitude | | |
| 1 | 20.06.23 | 80°01'20.00" | 15°39'51.00" | AIBP | Gundlakamma Left Main Canal |
| 2 | 20.06.23 | 80°01'20.00" | 15°39'51.00" | CADWM | Gundlakamma Left Main Canal 3R Major |
| 3 | 20.06.23 | 80°05'25.00" | 15°38'17.00" | CADWM | Gundlakamma LMC 12R Branch Canal 1R Major 1R Minor |
| 4 | 20.06.23 | 80°08'26.00" | 15°38'04.00" | CADWM | Gundlakamma LMC 12R Branch Canal 1L Major 8R Sub-Minor |
| 5 | 20.06.23 | 80°10'32.00" | 15°34'35.00" | CADWM | Gundlakamma LMC 12R Branch Canal 1L Major 11R Minor |
| 6 | 20.06.23 | 80°08'34.00" | 15°34'34.00" | CADWM | Gundlakamma LMC 12R Branch Canal 3R Major 1R Sub-Minor |
| 7 | 20.06.23 | 80°08'32.00" | 15°34'35.00" | CADWM | Gundlakamma LMC 12R Branch Canal 6R Major 2R Minor |
| 8 | 20.06.23 | 80°05'26.00" | 15°38'17.00" | CADWM | Gundlakamma LMC 12R Branch Canal 1R Major 1R Minor |
| 9 | 23.06.23 | 80°10'11.00" | 15°32'32.00" | CADWM | Gundlakamma RMC 22TE Branch Canal 15R Minor @1.205 KM |
| 10 | 23.06.23 | 80°09'04.00" | 15°32'52.00" | CADWM | Gundlakamma RMC 22TE Branch Canal Major @3.190 KM |
| 11 | 23.06.23 | 80°09'00.00" | 15°32'51.00" | CADWM | Gundlakamma RMC 22TE Branch Canal 10R Minor @2.960 KM |
| 12 | 23.06.23 | 80°07'38.00" | 15°32'13.00" | CADWM | Gundlakamma RMC 22TE Branch Canal 1R Minor |
| 13 | 23.06.23 | 80°07'01.00" | 15°32'26.00" | AIBP | Gundlakamma Right Main Canal @ 26.4 KM |

| | | | | | |
|----|----------|--------------|--------------|-------|---|
| 14 | 23.06.23 | 80°06'08.00" | 15°32'45.00" | AIBP | Gundlakamma Right Main Canal @ 24.3 KM |
| 15 | 23.06.23 | 80°04'06.00" | 15°33'04.00" | CADWM | Gundlakamma RMC 17R Major |
| 16 | 23.06.23 | 80°04'09.00" | 15°33'01.00" | CADWM | Gundlakamma RMC 17R Major 4R Minor @ 1.84 KM OT |
| 17 | 23.06.23 | 80°01'27.00" | 15°36'53.00" | AIBP | Gundlakamma Right Main Canal @ DLRB 11 KM |

IV. Checklist for status of outlets:

| Item No. | Description of component of distribution system | Total No. of Outlets | No. of outlets visited | Description of Outlet | Location | Status of outlet |
|----------|---|----------------------|------------------------|-----------------------|----------|------------------|
| | | | | | | |

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KANDULA OBULA REDDY GUNDLAKAMMA RESERVOIR PROJECT

ANDHRA PRADESH

SECTION-I

EXECUTIVE SUMMARY

1. PROJECT FEATURES:

1.1 PROJECT IN BRIEF

The Kandula Obula Reddy Gundlakamma Reservoir Project is being constructed across the River Gundlakamma, an independent east flowing river near China Mallavaram village in Maddipadu Mandal in Prakasam District of Andhra Pradesh. It envisages utilization of 12.845TMC of water to provide irrigation facilities to 25,250 hectare (62,394 Acres) in kharif and 32,400 Ha (80,060 Ac) in rabi seasons in 5 Mandals of Prakasam District & 4 Mandals in Bapatla District besides augmenting drinking water supplies to 2.5 lakh population in 43 villages en-route and Ongole town. The project consists of an earthen dam of length 5.630 km, and 227 m long spillway with 15 Nos. vertical gates to store 3.859 TMC of water. Two irrigation canals viz., Right Canal of length 27.262 km and Left Canal of length 21.975 km are proposed to serve an ayacut of 32,400 ha (80,060 acre).

The present cost of the project is 753.83 Cr has been accorded by the Government of Andhra Pradesh vide G.O.Ms.No.105, Dt.03.11.2016 and also approved by CWC under FTPC vide letter no. 3/13/2017/FTP-AP/Mon(S)/417-27, dated 12.12.2017.

1.2 COMPONENTS OF THE WHOLE PROJECT

The major components of Gundlakamma reservoir project are given below.

| | | | |
|--------|--|---|-----------|
| (i) | Construction of left earthen bund | : | 1.340 Km |
| (ii) | Construction of left head sluice | : | 1 No. |
| (iii) | Construction of spillway | : | 227 m |
| (iv) | Fabrication & erection of vertical gates | : | 15 Nos. |
| (v) | Closing gorge portion with earthen bund | : | 275 m |
| (vi) | Construction of right earthen bund | : | 4.015 Km |
| (vii) | Construction of right head sluice | : | 1 No. |
| (viii) | Right Main Canal and Distributary System | : | 27.262 Km |
| (ix) | Left Main Canal & Distributary System | : | 21.975 Km |

Components under AIBP:

The following components are included under AIBP under this project.

- (i) Balance works of Spillway including 15 Nos. vertical gates.
- (ii) Earthen bund across the gorge portion.
- (iii) Right Earthen Bund and Right Head Sluice.
- (iv) Right Main Canal and Distributary system
- (v) Left Main Canal and Distributary system
- (vi) Improvement on high level canal.

2. ORGANISATIONAL & MANAGEMENT ASPECTS

The Gundlakamma Reservoir Project is administered by the Chief Engineer (Projects), Ongole with the assistance of Superintending Engineer, Construction Circle, Ongole, Executive Engineer, G.P.R Division No.I & II, Ongole with four Sub-divisions in each Division established at Ongole, Maddipadu, (2 – Sub Divisions), Gundla Padu under Division No.I and Edugundlapadu, Medarametla (each 2 Sub Divisions) under Division No.II.

The organization chart of the project is given below

Organization set up of Kandula Obula Reddy Gundlakamma reservoir project

3. PROGRESS OF AIBP COMPONENT

3.1. PHYSICAL:

The physical progress as reported by project authority as on 31.05.2023 is given in below.

| Sl. No. | Component | Unit | PHYSICAL | | | |
|----------|--|--------|---------------------|--|------------------------------------|---|
| | | | Total Estimated Qty | Qty. executed under AIBP upto 31.05.2023 | Progress under AIBP during 2023-24 | Balance Qty |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| A | Dam & Head Works | | | | | |
| 1 | Earthwork | Km | 5.857 | 5.857 | 0 | 0 |
| 2 | Concrete Work | Th.Cum | 165.46 | 165.46 | 0 | Completed |
| 3 | Structures (Gates) | Nos. | 15 | 15 | 0 | Completed but under restoration of washed out gates |
| B | Main Canal & Branch Canal | | | | | |
| 1 | Earthwork | Km | 75.847 | 69.537 | 0 | 6.31 |
| 2 | Structures | Nos. | 208 | 166 | 0 | 42 |
| C | Distributaries, Minors & Sub-minors | | | | | |
| 1 | Earthwork | Km | 357.88 | 348.992 | 0 | 8.888 |
| 2 | Structures | Nos. | 1616 | 1550 | 0 | 66 |
| D | Land Acquisition | Ha. | 3805.65 | 3791.54 | 0 | 14.11 |
| F | IPC | Ha. | 32400 | 26770 | 0 | 5630 |
| G | IPU | Ha. | 32400 | 26710 | 0 | 5690 |

3.2 FINANCIAL:

The item wise expenditure as reported by project authority as on 31.05.2023 is given in the below.

Amount in Cr

| Sl no | Component | Total estimated Cost | Exp prior to AIBP | Balance cost under AIBP | Exp. Incurred upto 31.05.2023 under AIBP | Balance |
|-------|---------------------------------|----------------------|-------------------|-------------------------|--|---------|
| A | Dam & HW | | | | | |
| 1 | Earthwork | 120.74 | 31.38 | 89.36 | 89.36 | 0.00 |
| 2 | Concrete Work | 34.58 | 18.20 | 16.38 | 16.38 | 0.00 |
| 3 | Structures (Gates) | 8.00 | 0.00 | 8.00 | 8.00 | 0.00 |
| B | Main & Branch Canal | | | | | |
| 1 | Earthwork | 40.44 | 0.00 | 40.44 | 31.44 | 9.00 |
| 2 | Structures | | | | | |
| C | Distributary, Minor & Sub Minor | | | | | |
| 1 | Earthwork | 72.05 | 0.00 | 72.05 | 67.48 | 4.57 |
| 2 | Structures | | | | | |

| | | | | | | |
|----------|-------------------------|---------------|--------------|---------------|----------------|----------------|
| D | Land Acquisition | 230.45 | 6.86 | 223.59 | 219.80 | 3.79 |
| E | R&R | 206.89 | 0 | 206.89 | 135.65 | 71.24 |
| F | Others | 40.68 | 0 | 40.68 | 25.40 | 15.28 |
| | Grand Total | 753.83 | 56.44 | 697.39 | 593.512 | 103.881 |

4. PROGRESS OF CADWM COMPONENT

4.1 PHYSICAL:

An ayacut of 32,400 Ha is proposed under CADWM programme. Out of 32,400 Ha, an extent of 25,920 Ha is proposed under Field Channels, 3,240 Ha is proposed for underground pipelines and an extent of 3,240 ha is under Micro Irrigation. IP created up to May-2023 is 26770 ha and IP utilized is 26,710 ha without CADWM works.

Survey, Planning & Design works in the command area for CAD Works are completed. Tenders for 47 packages for execution of structural component for an amount of Rs. 68.672 Cr are floated and agreements are concluded for 38 packages of CADWM works. Earth work, OFD works & some of the System Deficiency works are executed. The structural interventions approved under CADWM are given below:

Quantity in Ha

| S No | Activity | Estimated Area/Qty | Completed Up to 05/2023 | Balance |
|------|---|--------------------|-------------------------|-----------|
| | Structural Interventions | | | |
| 1 | Surveying, Planning and Design of OFD | 32400 | 32400 | 0.00 |
| 2 | Construction of lined FC | 25920 | 0 | 25920 |
| 3 | Micro irrigation. | 3240 | 0 | 3240 |
| 4 | Land Levelling | 0 | 0 | 0 |
| 5 | Construction of field, intermediate and link drains | 3000 | 0 | 3000 |
| 6 | Correction of system Deficiencies | 4000 | 0 | 4000 |
| 7 | Reclamation of water logged area | 3240 | 0 | 3240 |
| | Non-Structural Interventions | | | |
| 1 | Onetime Grant (WUA) | | | |
| a | Functional grant (ha) | 32400 | 0 | 32400 |
| b | Infrastructure grant (proposed) | 1 | 0 | 1 |
| 2 | Trainings, demonstration, and adaptive Trials | On actual | 0 | On actual |
| 3 | Establishment | On actual | 0 | On actual |

4.2 FINANCIAL:

The Project has been included in CADWM scheme with an estimated cost of Rs. 102.798 Cr vide letter no. 19011/20/2017-CADWM, dated 31.03.2017. Central Assistance of

Rs. 3.645 Cr was released for CADWM works of the project for 2017-18. *It is to mention that, the Govt. of Andhra Pradesh has restricted the cost of project to Rs.93.90 Cr with 50:50 Central-State ratio from initially proposed cost of Rs.102.798 Cr accordingly, permission was accorded by the State Government in G.O.Ms.No.38 Dt: 24.08.2020.* An amount of Rs. 1.8411 Cr has been incurred on CAD works till date.

Amount in Lakhs

| S No | Activity | Estimated amount | Expenditure up to 31.05.2023 | Balance |
|------|---|------------------|------------------------------|-----------------|
| | Structural Interventions | | | |
| 1 | Surveying, Planning and Design of OFD | 194.40 | 124.35 | 70.050 |
| 2 | Construction of lined FC | 5103.00 | 59.76 | 5043.24 |
| 3 | Micro irrigation. | 2430.00 | 0 | 2349.00 |
| 4 | Land Leveling | 0.00 | 0 | 0.00 |
| 5 | Construction of field, intermediate and link drains | 97.20 | 0 | 97.20 |
| 6 | Correction of system Deficiencies | 129.60 | 0 | 129.60 |
| 7 | Reclamation of water logged area | 324.00 | 0 | 324.00 |
| | Sub-Total | 9007.20 | 184.11 | 8823.09 |
| | Non-Structural Interventions | | | |
| 1 | Onetime Grant (WUA) | | | |
| a | Functional grant (ha) | 388.80 | 0 | 388.80 |
| b | Infrastructure grant (proposed) | 2.50 | 0 | 2.50 |
| 2 | Trainings, demonstration, and adaptive Trials | 0.0 | 0 | 0.0 |
| 3 | Establishment | 881.30 | 0 | 881.30 |
| | Sub-Total | 1272.6 | 0.00 | 1272.6 |
| | Grand Total | 10279.80 | 184.11 | 10095.69 |

5. ISSUES IN FOCUS

Based on the field visit of the project site, discussions held with the project authorities and examinations of various documents submitted by the Andhra Pradesh Water Resources Department following observations are made:

I. Floods during 2022 and Status of Spillway gates:

Floods occurred in August 2022 - Sept 2022, about 85 percent of the water stored in the Gundlakamma reservoir was let out because one of the gates out of 15 gates got damaged and washed off. The experts concluded that the installation of new gate would not be possible unless the water level of the reservoir is brought down to dead storage level. The project authorities have informed that stop log gates were installed and the repair of partly damaged gates are being carried out. However, it was brought out that till date no agency has agreed to take up the work of installation of new gate

at bay no.3. The projects authorities shall be directed to take immediate action on installation of new gates before the onset of monsoon without which it would not be possible to store any water in the reservoir.

II. Land Acquisition:

Land acquisition between 5.925 km to 10.400 km of 18 Tail End (TE) Branch Canal of LMC is only the main bottleneck in the project due to pending court cases. This issue is persisting since last 10 years as result of which IP Creation of about 3,405 Ha out of 5630 ha is still pending. The court cases W.P No. 5228/2018 and 10986/2018 and 4279/2021 are pending at the Hon'ble High court of Andhra Pradesh. The projects authorities are continuously pursuing this matter with Special Collector, Ongole & revenue authorities to solve the issue at the earliest.

III. R&R:

Out of 12 villages, 7 villages are shifted completely and 5 villages are shifted partly. However, Pending R&R issues are not affecting the storage of water in reservoir up to FRL as these villages are above the FRL and within the zone of 100 m above FRL.

IV. Court cases

| SL no | Case Number | Reason | Present Status |
|-------|---------------------------|--|--|
| 1&2 | WP 5228/2018 & 10986/2018 | Against land acquisition process (18 TE branch canal between Km.6.260 and Km. 9.670) and implementation new LA Act-2013 | Stay obtained from Hon'ble High court by petitioner. However stay vacation petition filed by land acquisition Authorities. |
| 3 | WP No. 4279/2018 | Against land acquisition process (18 TE branch canal between Km.9.670 and Km. 10.400) and violation of article 300A of the constitution of India | Counter affidavit filed by the Spl. Dy. Collector (L.A), R&R Unit Ongole. Hearing is pending. |
| 4 | WP 41342/2016 | Against land acquisition for want of Higher compensation as per new LA Act-2013 (18 TE branch canal between Km.10.400 and Km. 12.835) | No stay order issued by Hon'ble High court. Excavation of canal was objected by Farmers since 2016. |

V. CADWM works:

Tenders for 47 packages for execution of structural component for an amount of Rs. 68.672 Cr are floated and agreements are concluded during 2021-22 for 38 packages of CADWM works. Earth work, OFD works & some of the System Deficiency works are executed.

VI. Budget:

An amount of Rs. 30.00 Cr is only provided as budget for FY 2023-24 against an amount of Rs. 103.881 Cr required for completion of balance AIBP component. However, the expenditure on AIBP component during 2022-23 is reported to Rs.2.95 Cr. There is no separate budget for CADWM component.

VII. Contractual agreements:

At present there is no active agency to execute the balance works under AIBP works. Due to lack of periodic maintenance lot of vegetation/weeds has grown in Main canals & Distribution system which is affecting the efficiency of Distribution network.

VIII. Irrigation Potential

a. Non availability of Ayacut/Command

As reported by project authority, Ayacut of 2450 Ac. (992 Ha) to be created by 11L major under 12-R Branch canal is not available under scope of project. Now, this ayacut is already covered by Kommamuru canal under Krishna western Delta system.

b. It is seen that Tail end distributary of LMC is also proposed to supplement to Ayacut Kommamuru canal (Krishna Western delta under Prakasham Barrage) which was affected by court cases on LA since 10 years. Also, it is learnt that Ayacut of Kommamuru canal (Krishna Western delta) is getting sufficient water from Prakasam Barrage after supply of water through Polavaram Right Main Canal. Hence, it is suggested to review the need for supplementation by Krishna Western Delta command and revision of Irrigation Command of LMC under Gundlakamma Project.

c. It is advised that the irrigated areas in the project may be notified in consultation with revenue authorities. The DPR prepared for CADWM works may be taken as reference document. A copy of DPR prepared for CADWM works may be sent to CWC immediately for further observations /suggestions.

6. OVERALL ASSESSMENT REGARDING PROJECT COMPLETION

AIBP:

The overall weighted physical progress of the project as on 31.05.2023 is 98.30%. Due to pending land acquisition; targeted Irrigation Potential Creation (IPC) is delayed and is only of 81.60%. As per project authorities project is targeted to be completed by **July-2024**, which prima facie appears to be non-achievable. Further, the completion of project mainly depends on clearance of court cases, balance land acquisition and award of balance works to new agency as there is no active agency for execution of balance AIBP component.

CADWM:

Project authorities informed that CAD works of project are to be completed by **March-2025**. Targeted completion date is achievable only when project authorities put full efforts to complete the CAD works because CAD works scattered throughout command area. Also, the irrigation potential of the project needs to be reviewed.

STATUS OF AIBP COMPONENT**1. PROJECT COMPONENTS AS BEING EXECUTED**

The project comprises the following components:

| | | | |
|--------|--|---|-----------|
| (i) | Construction of left earthen bund | : | 1.340 Km |
| (ii) | Construction of left head sluice | : | 1 No. |
| (iii) | Construction of spillway | : | 227 m |
| (iv) | Fabrication & erection of vertical gates | : | 15 Nos. |
| (v) | Closing gorge portion with earthen bund | : | 275 m |
| (vi) | Construction of right earthen bund | : | 4.015 Km |
| (vii) | Construction of right head sluice | : | 1 No. |
| (viii) | Right Main Canal and Distributary System | : | 27.262 Km |
| (ix) | Left Main Canal & Distributary System | : | 21.975 Km |

Components under AIBP:

The following components are included under AIBP under this project.

- (i) Balance works of Spillway including 15 Nos. vertical gates.
- (ii) Earthen bund across the gorge portion.
- (iii) Right Earthen Bund and Right Head Sluice.
- (iv) Right Main Canal and distributary system
- (v) Left Main Canal and distributary system

2. CHANGES IN SCOPE, IF ANY

There is no change of scope of the project. However, there is Deletion of 280 acres of ayacut under 20 R Major & addition of the same in HLC and non-availability of ayacut of 2450 acres under 12-R/11-L.

3. ORGANISATIONAL SETUP FOR THE PROJECT**3.1 ORGANISATIONAL SETUP**

The organization setup is as given at paragraph 2 of Section-I.

3.3. DESIGNS SETUP

All designs and drawings of the Gundlakamma project are being approved by the Chief Engineer, Central Designs Organization, Vijayawada.

4. CONTRACTUAL ARRANGEMENTS:

The Gundlakamma Reservoir Project works started during the year 2005 and contracting agencies were assigned on EPC turn-key system prior to the inclusion of project under AIBP. As on date there is no active agency to execute the balance AIBP components.

Package-I (Left Earthen Bund, Spillway civil works and Left Head Regulator): The package works are awarded to M/s NCC Ltd, Hyderabad vide Agreement No. 1VGP/2004-05, Dt.15.07.2004 and works are completed.

Package-II (Right Earthen Bund, Distributary network and Right Head Regulator): The package works are awarded to M/s Maytas-NCC (JV), Hyderabad vide Agreement No. 4VGP/2004-05 Dt.10.11.2004 and its pre closure done.

Package-III (Gates): The package works are awarded to M/s Aarti Engineering Company, Nagpur vide Agreement No.5VGP/2005-06, Dt.17.01.2006 and the works are completed.

a) As per the Govt of Andhra Pradesh G.O MS No.41 dated 24.05.2018, the delegation of powers for civil contracts through competitive bidding as follows.

| | |
|----------------------------|---------------------|
| Executive Engineer | --- upto 40.00lakhs |
| Superintending Engineer | --- upto 2.00 Cr |
| Chief Engineer | --- upto 10.00 Cr |
| Commissionerate of Tenders | --- above 10.00 Cr |

The above delegation of powers adequate and no changes have been suggested.

b) Claims of contractor for extra items will be scrutinized from Executive Engineer level to Chief Engineer level and after satisfaction of claims, same will be placed before State Level Standing Committee constituted by the Government. Committee will discuss the matter in detail and if they satisfied with claim it will recommend to Government. Otherwise, committee will reject the claims.

c) At present Arbitration procedure is not in practice in the state Government. Contractor can go to court of required competency, in case of disputes.

5. CONSTRUCTION PLANNING & SCHEDULING:

Details of programme and achievement are given in the below.

| Sl. No. | Component | Unit | PHYSICAL | | | | |
|----------|--|---------|---------------------|--|------------------------------------|-------------|-----------------------------|
| | | | Total Estimated Qty | Qty. executed under AIBP upto 31.05.2023 | Progress under AIBP during 2022-23 | Balance Qty | Programme for year 2023-24* |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| A | Dam & Head Works | | | | | | |
| 1 | Earthwork | km | 5.857 | 5.857 | 0 | 0 | 0 |
| 2 | Concrete Work | Th. cum | 165.46 | 165.46 | 0 | 0 | 0 |
| 3 | Structures (Gates) | Nos. | 15 | 15 | 0 | 0 | 0 |
| B | Main Canal & Branch Canal | | | | | | |
| 1 | Earthwork (LMC) | KM | 75.847 | 69.537 | 0 | 6.31 | 6.31 |
| 2 | Structures | Nos. | 208 | 166 | 0 | 42 | 42 |
| C | Distributaries, Minors & Sub-minors | | | | | | |
| 1 | Earthwork | KM | 357.88 | 348.992 | 0 | 8.888 | 8.888 |
| 2 | Structures | Nos. | 1616 | 1550 | 0 | 66 | 66 |
| D | Land Acquisition | Ha. | 3805.65 | 3791.54 | 0 | 14.11 | 14.11 |
| F | IPC | Ha. | 32400 | 26770 | 0 | 5630 | 5630 |
| G | IPU | Ha. | 32400 | 26710 | 0 | 5690 | 5690 |

**As reported by project authority, the balance quantity in the project is expected to be completed by July-2024*

6. QUALITY ASSESSMENT

A separate quality control unit is working under the supervision of a Chief Engineer Level officer and a well-equipped field laboratory was established at work site for conducting required field tests on materials like Cement, Fine Aggregate, Coarse Aggregate, Concrete and Soil including in-situ tests and laboratory tests.

7. LAND ACQUISITION, REHABILITATION & RESETTLEMENT

Land Acquisition:

Out of total 3805.5 ha of land acquisition, 14.11 ha of land acquisition is under process and remaining land acquisition is completed. 14.11 Ha LA is held up due to the pending court case. The details on the dispute of 18 TE Branch canal is attached as **Annexure-II**.

Rehabilitation & Resettlement

- No.of villages submerged: 12 Nos (5 fully+ 7 partially)
- Total Number of PDFs to be shifted: 6462 Nos
- Number of R&R centers: 24 Nos
- Number PDFs shifted: 2928 Nos
- Balance PDFs to be shifted: 3534 Nos

8. ENVIRONMENTAL AND FOREST CLEARANCE

Environmental Clearance is obtained vide Lr.No.J-1-2011/57/2011-1A-1, Dt.04.12.2001.No forest land is involved under this project.

9. TECHNO – ECONOMIC APPRAISAL

| | |
|----------------|--|
| Estimated cost | : 453.85 Cr. (Original) |
| | : 592.18 Cr (Revised) (1 st) |
| | : 753.83Cr (Latest) (2 nd) |
| CCA | : 32,400 ha |
| B.C. ratio | : 3.5:1 |

Administrative approval was accorded by Government of Andhra Pradesh for Rs.453.85 Cr vide G.O.Ms.No.243, I&CAD (PW&Maj.Irr-II) Department dt.28.12.2005.

The revised estimate cost of the project i.e. Rs.592.18 Cr is approved vide G.O.Ms.No.72 Dt. 22.6.2009 of GoAP. The Administrative approval for the latest revised cost of the project Rs.753.8333 Cr was accorded by the Government of Andhra Pradesh vide G.O.Ms.No.105, Dt.03.11.2016.

FTPC for the revised cost estimate of the project for Rs. 753.8333 Cr was approved by the CWC, New Delhi vide letter no. 3/13/2017/FTP-AP/Mon(S)/417-27 dated 12.12.2017.

10. EXTERNAL ASSISTANCE

No external assistance (Foreign funding) is received for this project.

11. ESTIMATED COST

- (a) Administrative approval for this project has been accorded by Government of Andhra Pradesh for Rs.453.85 Cr. vide G.O.Ms.No.243, I&CAD (PW&Maj.Irr-II) Department dt.28.12.2005.
- (b) Approved cost of AIBP components at 2004-05 price level isRs. 397.41 Cr.

- (c) The Administrative approval for the latest revised cost of the project Rs.753.8333 Cr was accorded by the Government of Andhra Pradesh vide G.O.Ms.No.105, Dt.03.11.2016.
- (d) FTPC for the revised cost estimate of the project for Rs. 753.8333 Cr was approved by the CWC, New Delhi vide letter no. 3/13/2017/FTP-AP/Mon(S)/417-27 dated 12.12.2017.
- (e) Latest estimated cost of AIBP components is Rs. 697.393 Cr.
- (f) Reasons for increase in the cost: Due to price escalation, provisions and additional requirements.
- (g) Cost of balance works (AIBP Component) as on 31.03.2023 is Rs. 103.881 Cr.

12. PHYSICAL PROGRAMME & PROGRESS OF THE WHOLE PROJECT

The physical programme and progress of the project is given at point-5 of this section.

- a) Expected Deviation of completion schedule of any major component of the project or project as a whole:

Project authority informed that the project is scheduled to be completed by July-2024. This completion schedule mainly depends upon land acquisition, which is persisting since last 10 years. And budget provision is NOT sufficient to meet balance cost of project.

- b) Measures taken to check the delay and their probable effect on construction schedule
Land acquisition and inadequate budget seems to be the bottleneck and has to be expedited.

13. PROJECT COMPONENTS AS BEING EXECUTED UNDER AIBP:

Projects components as being executed under AIBP are given at item-1 of this section-

II. A brief account of project inclusion under AIBP is given below:

| Sl. No. | Items | Details |
|---------|--|--|
| 1 | Approved estimated cost of AIBP Components | Rs.697.393 Cr |
| 2 | Present Latest Cost of AIBP : | Rs.697.393Cr |
| 3 | CA Released (Year-wise break up) : | 2005-06 Rs.59.61 Cr 2006-07 Rs.39.7425 Cr 2016-17 Rs.11.79 Cr Total: Rs. 111.1425 Cr |
| 4 | Total expenditure incurred as on Date/ under AIBP component (Rs in Cr) | Rs.593.512 Cr. |
| 5 | Balance cost (in Rs Cr): | Rs.103.881 Cr. |

| | | |
|---|----------------------------|--|
| | a. Central Share (%): | As on date, as per Cabinet note eligible balance CA is only Rs. 8.08 Cr. |
| | b. State Share (%): | |
| 6 | CCA (under AIBP) in Th.Ha. | 32.40 |
| 7 | UIP (under AIBP) in Th.Ha. | 32.40 |
| | Rabi (%): | - |
| | Kharif (%): | 100 % |
| | Hot Weather (%) | - |
| | Perennial (%) | - |
| 8 | IP Created (AIBP)(Ha): | 26770Ha. |
| 9 | IP Utilized (AIBP)Th.Ha): | 26710 Ha |

14. PROJECT POTENTIAL

The total irrigation potential of the project is 32,400 Ha. No potential was created prior to AIBP and IP contemplated under AIBP is 32,400 Ha. As reported by project authority, IP created upto May-2023 is 26770 ha and IP utilized is 26710 ha without CADWM works. Year-wise irrigation potential created under AIBP is given below:

| Sl. No. | Irrigation Potential Year | IP Creation (Th.Ha.) |
|---------|----------------------------------|----------------------|
| 1 | Potential created during 2006-07 | 20.797 |
| 2 | Potential created during 2007-08 | |
| 3 | Potential created during 2008-09 | |
| 4 | Potential created during 2009-10 | |
| 5 | Potential created during 2010-11 | |
| 6 | Potential created during 2011-12 | |
| 7 | Potential created during 2012-13 | |
| 8 | Potential created during 2013-14 | |
| 9 | Potential created during 2014-15 | |
| 10 | Potential created during 2015-16 | |
| 11 | Potential created during 2016-17 | 5.792 |
| 12 | Potential created during 2017-18 | 0.178 |
| 13 | Potential created during 2018-19 | 0 |
| 14 | Potential created during 2019-20 | 0 |
| 15 | Potential created during 2020-21 | 0 |
| 16 | Potential created during 2021-22 | 0 |
| 17 | Potential created during 2022-23 | 0 |
| | Total | 26770 |

As informed by project authority, details of Balance IP to be created are given below:

Ayacut/IP in Acres

| Sl no | Name of canal | Target Ayacut/ IP | Ayacut/ IP Created | Ayacut/ IP to be created | Reason |
|-------|--------------------|-------------------|--------------------|--------------------------|--|
| 1 | 3R major/ 4R Minor | 2128.33 | 1924.84 | 108.82 | WP 10319/2007 filed by landlord. However case was disposed-off in 2020. Land yet to be handed over |

| | | | | | |
|---|---|----------|----------|---------|---|
| | | | | | to WRD by revenue authorities. |
| 2 | 10R Major | 1554.62 | 953.99 | 600.63 | Embankment portion from Km 4.225 to Km 5.500 not completed by the agency. |
| 3 | 12R Branch canal | 21034.87 | 18313.66 | 2721.21 | 12R/6R Major: 96.37 Ac Excavation work from Km 4.225 to Km 5.500 not completed by agency. 12R/11L: 2549.10 Ac Proposed Ayacut is under Kommamuru canal (Krishna Western Delta), which is not in command of Gundlakamma 12R/7R: 75.74 Ac Wrong Payment made towards compensation. |
| 4 | 15R Major/23R | 2559.83 | 2441.66 | 542.24 | Land not yet handed over to WRD. |
| 5 | 18TE Branch Canal | 7120.73 | 3752.57 | 3363.50 | Pending due to court cases on Land acquisition (WP No. 5528/2018, WP No. 10986/2018 and WP No. 4279/2021) |
| 6 | Supplementation to Ayacut Kommamuru canal (Krishna Western delta) | 8905.00 | 3854.70 | 5050.30 | |
| 7 | High level canal | 750.00 | 500.00 | 268.45 | Pending due to court case |
| 8 | Shortfall | | | 1256.85 | |
| | | | | 13912 | (5630.00 Ha) |

It is seen that Tail end distributary of LMC is also proposed to supplement to Ayacut Kommamuru canal (Krishna Western delta under Prakasham Barrage) which was affected by court cases on LA since 10 years. Also it is learnt that Ayacut of Kommamuru canal (Krishna Western delta) is getting sufficient water from Prakasam Barrage after commissioning of Pattiseema Lift Scheme .Hence it is suggested to project authorities for a thorough review the need for supplementation to Krishna West Delta commands and finalize the Irrigation Command of LMC and project.

Main Canal, Distributary and Minor wise I.P. Details are given in **Annexure – V**.

15. FINANCIAL PROGRAMME AND PROGRESS

- a) Year of start 2005
- b) Original target date of completion March-2007
- c) Latest/Revised target date of completion July-2024
- d) Cumulative expenditure up to March 2023 (Under AIBP) Rs. 593.512 Cr
- e) Cost of balance works as on 01.04.2023 (Under AIBP) Rs. 103.881 Cr
- f) Approved outlay for current Year i.e. 2023-24 Rs. 30.00 Cr.
- g) Year – wise expenditure: Expenditure of Rs.56.44 Cr was incurred on this project before its inclusion into AIBP i.e. upto March 2006. The year wise CA releases and expenditure are given below:

| Year | Expenditure incurred (Rs. Crores) | |
|--------------|------------------------------------|---|
| | CA received under AIBP | Actual expenditure incurred on works under AIBP |
| 2005-06 | 59.6100 | 47.2600 |
| 2006-07 | 39.7425 | 137.0640 |
| 2007-08 | | 53.2300 |
| 2008-09 | | 33.960 |
| 2009-10 | | 35.1600 |
| 2010-11 | | 10.800 |
| 2011-12 | | 51.6700 |
| 2012-13 | | 50.50 |
| 2013-14 | | 25.46 |
| 2014-15 | | 36.789 |
| 2015-16 | | 39.921 |
| 2016-17 | | 12.93 |
| 2017-18 | 11.7900 | 23.46 |
| 2018-19 | -- | 15.03 |
| 2019-20 | -- | 5.25 |
| 2020-21 | -- | 4.56 |
| 2021-22 | | 7.360 |
| 2022-23 | -- | 2.95 |
| 2023-24 | -- | 0.00 |
| Total | 111.1425 | 593.512 |

Note: Project is further eligible for CA of Rs. 8.0805 Cr but there is a shortfall in expenditure of Rs. 47.87 Crore as on 31.03.2023).

FINANCIAL MANAGEMENT

- (a) Are the plan funds as provided in the annual plans being matched by budget grants?
- No-

- (b) Are budget grants as approved being received in the project well in time?
Yes- delays in releasing of budget are reported by the project authorities.
- (c) Does a system of issuing letters of credit exist? If so at what periodicity? Is the distribution of annual budget within the year adjusted to the work plan?
No.
- (d) Are LOCs being received timely?
Yes- delays in releasing of LOC are reported by the project authorities. But work bills are paid by Ministry of Finance as per priority through CFMS portal.
- (e) After considering the level of financing, the balance cost and the likely escalation of cost, what approximate period in your opinion will be required to complete the project?

An amount of Rs. 30.00 Cr is only provided as budget for FY 2023-24 against an amount of Rs. 103.881 Cr required for completion of balance AIBP component. However the expenditure during 2022-23 is reported to Rs. 2095 Cr. As reported by project authority, the balance AIBP project works are proposed to be completed by July-2024 subject to LA and required flow of funds by State Govt. Project may take one to two years to complete.
- (f) Specify if there is any delay in release of CA to the project authorities from State Government.
No delay in release of CA to the project authorities from GoI.

16. MONITORING OF PROJECT AT STATE / PROJECT LEVEL

- (a) Whether there is any Monitoring Organization at State / Project level to monitor the progress. If so, the details of the organizational set up.
No
- (b) List of all major structures and Railway /Road/Utility crossing identified for the target proposed during the year and monitored for their achievement.
All the major structures and Railway/Road crossings were completed.
- (c) Submission of QPR for physical and financial progress, activation of project level and state level monitoring committee for environment safe guard implementation& quality assurance report issued by State Government to CWC.
The quarterly Physical and Financial progress reports are not being submitted to CWC regional office after creation of MIS Portal. However project authorities are not updating the MIS Portal regularly. Details of SLEMC/PLEMC are not reported by project authority.

- (d) Incorporation of Paper print of satellite imagery of the project area with the monitoring report and completion report.
Advised to project authority to get the same at the earliest.
- (e) Details of concurrent evaluation carried out till the date of visit along with the details of report issued and the agency for concurrent evaluation.
Monitoring visit of the project was done by WAPCOS on 15th February-2021
- (f) Reform measures undertaken in the State, if any, along with the status of WUA may be given with its present status of implementation.
Nil, only CADWM works has been grounded.

17. POINTS NEEDING ATTENTION

Based on the field visit, discussions held with the project authorities and information submitted by the project authorities from time to time the following observations are made:

- (a) (i) Technical inputs

In the recent floods during August 2022 - Sept 2022, about 85 percentage of the water stored in the Gundlakamma reservoir was emptied because bottom two segments of the spillway gate (bay no.3) got broke and washed off on 31st of August 2022. It is observed the spillway gate of bay no.3 is still not repaired and water is impounded in the reservoir with the help of stoplog gate placed at bay no.3. This needs to be repaired immediately as the stoplog gates are temporary gates which are meant for repair and maintenance purpose only.

- (ii) Land Acquisition

Out of total 3805.5 ha of land acquisition, 14.11 ha of land acquisition is under progress. Land acquisition needs to be expedited and LA issue has to be cleared/settled at the earliest to complete the project within stipulated target. Otherwise project completion date may slip to further.

- (iii) Finance

Funds are not provided to project though there is budget provision during 2023-24. As informed project authorities, bills are being cleared by MoF as per priority.

- (b) Comment as to whether proposed financial & physical programme can be achieved.
Achievable only when LA issue will be resolved and adequate fund flow by State Govt.
- (c) Anticipated slippages in financial and physical targets.
As per project authority, Scheduled target date of completion of project is July-2023, which appears not possible. But it is depends on LA of 18 TE branch canal.
- (d) Suggestions for achieving the set targets.
Out of total 3805.5 ha of land acquisition, 14.11 ha of land acquisition is under

progress. Land acquisition needs to be expedited and LA issue has to be cleared/settled at the earliest to complete the project within stipulated target. It is recommended to State Govt/ project authorities delete this Irrigation Potential about 3405 Ha (1361 Ha in 18TE of LMC beyond 5.925 km& 2044 Ha to supplementation to Kommamuru canal Ayacut under Krishna Western Delta from the scope of AIBP as supplementation is not required due to sufficient water is available. Also works are pending from a long time as farmers are not willing/allowing even Piped Distribution

Network (PDN) through their lands and due to court cases on LA. With the deletion of this IP, the project can be treated as completed under AIBP. Since four years, funds released are meager though budget is shown which affected the progress and completion of project.

- (e) Development of tourism potential in the project and efforts made in this regard. *Andhra Pradesh Tourism Development Corporation has already initiated developing tourism at this reservoir head works.*

18. BOTTLENECKS IN IMPLEMENTATION OF PROJECT COMPONENT UNDER AIBP.

Based on the field visit of the project site, discussions held with the concerned project authorities and the various documents/information submitted by the Andhra Pradesh Water Resources Department the following observations are made:

i) Land Acquisition:

Land acquisition between 5.925 km to 10.400 km of 18 Tail End (TE) Branch Canal of LMC is the main bottleneck in the project. This LA issue is persisting since last 10 years as result of which IP Creation about 3,405 Ha out of balance IP of 5630 ha is still pending. The court cases W.P No. 5228/2018 and 10986/2018 and 4279/2021 are pending at the Hon'ble High court of Andhra Pradesh. The projects authorities are continuously pursuing this matter with Special Collector, Ongole & revenue authorities to solve the issue at the earliest.

ii) R&R:

Out of 12 villages, 7 villages are shifted completely and 5 villages are shifted partly. However, Pending R&R issues are not affecting the storage of water in reservoir upto FRL.

iii) Court cases

| SL no | Case Number | Reason | Status of case |
|-------|---------------------------|--|--|
| 1 &2 | WP 5228/2018 & 10986/2018 | Against land acquisition process (18 TE branch canal between Km.6.260 and Km. 9.670) and implementation new LA Act-2013 | Stay obtained from Hon'ble High court by petitioner. However stay vacation petition filed by land acquisition authorities. |
| 3 | WP No. 4279/2018 | Against land acquisition process (18 TE branch canal between Km.9.670 and Km. 10.400) and violation of article 300A of the constitution of India | Counter affidavit filed by the Spl. Dy. Collector (L.A), R&R Unit Ongole. Hearing is pending. |

| | | | |
|---|---------------|---|--|
| 4 | WP 41342/2016 | Against land acquisition for want of Higher compensation as per new LA Act-2013 (18 TE branch canal between Km.10.400 and Km. 12.835) | No stay order issued by Hon'ble High court Excavation of canal was objected by Farmers since 2016 |
|---|---------------|---|--|

iv) CADWM works:

Though there was no progress in CAD works since release of CA during 2017-18, tenders for 47 packages for execution of structural component for an amount of Rs. 68.672 Cr are floated and agreements are concluded recently for 38 packages of CADWM works. Earth work, OFD works & some of the System Deficiency works are executed.

v) Budget:

An amount of Rs. 30.00 Cr is only provided as budget for FY 2023-24 against balance cost of Rs. 103.881 Cr required for completion of balance AIBP component. However, the expenditure during 2022-23 is reported to Rs. 2.95 Cr.

Contractual agreements:

At present there is no active agency to execute the balance AIBP works.

Lot of vegetation has grown up in Main canals & Distribution system which is affecting the efficiency of Distribution network.

vi) Non availability of Ayacut:

As reported by project authority, Ayacut of 2450 Ac. (992 Ha) to be created by 11L major under 12-R Branch canal is not available under scope of project. Now, this ayacut is covered by Kommamuru canal under Krishna western Delta system.

It is recommended to State Govt/ project authorities to review and delete Irrigation Potential about 3405 Ha (1361 Ha in 18TE of LMC beyond 5.925 km & 2044 Ha aimed to supplementation to Kommamuru canal Ayacut under Krishna Western Delta) from the scope of AIBP as supplementation is not required due to availability of sufficient water from Prakasham Barrage. Also, works were pending for more than 10 years as farmers are not willing/allowing works through their lands and due to court cases on LA. With the deletion of this IP, the project can be declared as completed under AIBP. Hence it is suggested that a thorough review may be conducted on balance potential to be created in the project.

19. COMPLIANCE REPORT TO CWC OBSERVATIONS CONTAINED IN EARLIER STATUS REPORT.

There is no progress in the project since last Monitoring visit.

20. COMPLIANCE REPORT ON THE SPECIAL CONDITIONS LAID DOWN DURING TAC CLEARANCE AND OTHERS E.G. ENVIRONMENT AND FOREST CLEARANCE ETC.

Not applicable.

21. GENERAL COMMENTS/OBSERVATIONS.

AIBP:

The overall weighted physical progress of the project as on 31.05.2023 is 98.30%. Out of 3805.5 Ha, 14.11 Ha of land is to be acquired which is held up due to court cases. Due to pending of land acquisition, targeted Irrigation Potential Creation (IPC) is delayed. As per project authority, project is to be completed by July-2024, which appears not possible. But, the completion of project is mainly depends on clearance of court cases & further land acquisition and award of balance works to new agency. And also provisions for budget required for balance cost of project. Hence it is suggested that a thorough review may be conducted on balance potential to be created in the project and accordingly balance works of the project.

CADWM:

Project authorities informed that CAD works of project are to be completed by March-2025. Earth work, OFD works & some of the System Deficiency works are executed. Targeted completion date is achievable only when project authorities put full efforts to complete the CAD works because these CAD works scattered throughout command area. Total 7.85 crore of work have done by State Govt. under CADWM and 2.6 crore of an amount of bills are sent to finance department of GoAP for releasing of funds, which is yet to be released.

PROJECT DETAILS

1. SALIENT FEATURES OF THE PROJECT

Location:

- | | | |
|------------------------|---|--|
| 1. Name of the project | : | Kandula Obula Reddy Gundlakamma Reservoir Project |
| 2. Location | : | Chinnamallavaram (Village), Maddipadu (Mandal), Prakasam (District), Andhra Pradesh. |
| 3. Longitude | : | 79° 59' 15" E |
| 4. Latitude | : | 14° 39' 30" N |

The proposed site is located about 25 km from Ongole, Prakasam District. The project is aimed to irrigate 32,400 Ha.

Project Components

- | | | |
|-----------------------------|---|--|
| 1. Total Length of the Bund | : | 5.857 km |
| 2. Left Earth Bund | : | 1.340 km (0.0 km to 1.340 km) |
| 3. Spillway | : | 227 m (1.340 km to 1.567 km) |
| 4. Gorge Portion | : | 275 m (1.567 km to 1.842 km) |
| 5. Right Earth Bund | : | 4.015 km (1.842 km to 5.857 km) |
| 6. Spillway Gates | : | 15 Nos of size 12.00 m X 8.30 m (Vertical) |
| 7. Right Main Canal | : | 27.262 km. Ayacut :28,000 Ac |
| 8. Left Main Canal | : | 21.975 km. Ayacut: 52,060 Ac |

Salient Features:

- | | | |
|---------------------------|---|--|
| Source of Irrigation | : | Gundlakamma River |
| Located in | : | Sub Basin Nos 83&84 |
| Longitude | : | 79° 59' 15" E |
| Latitude | : | 14° 39' 30" N |
| Ayacut Proposed | | |
| ❖ Kharif | : | 62,368 Ac (25,240 Ha) |
| ❖ Rabi | : | 80,060 Ac (32,400 Ha) |
| ❖ Cropping pattern | : | Paddy, Groundnut, Chillies, Maize, Pulses |
| B.C. Ratio | : | 3.50:1 |
| Drinking Water facilities | : | 2.56 Lakh population (13.082 M Cum) 462 Mcft |
| Catchment Area | : | 7910 km ² |

| | |
|---|--------------------------------|
| Water Availability (75% dependable yield) | : 29.29TMC |
| Total Utilization of water | : 363.7444 M Cum (12.845 TMC) |
| Proposed | (6 fillings) August to March |
| Reservoir Capacity | : 3.859 TMC @ FRL+24.380 M |
| Crest Level of Spillway | : +16.380 m |
| FRL | : +24.380 m (92.29 M cum) |
| Peripheral length | : 94.00 km |
| Water Spread area | : 25.70 km ² |
| TBL | : +28.380 m |
| Live storage | : 2.493 TMC |
| Utilization Kharif | : 122.548 M cum (4.327 TMC) |
| Utilization Rabi | : 181.386 M cum (6.406 TMC) |
| At MDDL capacity+ 21.34M | : 1.366 TMC |
| Dead storage (Below MDDL) | : 1.366 TMC |
| MFD | : 2,72,000 Cusecs (7704 Cumec) |

Right Main Canal at Head:

| | |
|-------------------|-----------------|
| Total Length | : 27.262 km |
| Ayacut | : 28000 Ac. |
| Section | : 9.0 x 1.65 m |
| Discharge (Req) | : 430.00 Cusecs |
| Discharge (Des) | : 433.00 Cusecs |
| Bed Level | : +19.340 m |
| F.S.L | : +20.990 m |
| Mandals benefited | : 5 Nos |

Left Main Canal at Head

| | |
|-------------------|-----------------|
| Total Length | : 21.975 km |
| Ayacut | : 52060 Ac. |
| Section | : 13.50x1.85 m |
| Discharge (Req) | : 616.40 Cusecs |
| Discharge (Des) | : 616.70 Cusecs |
| Bed Level | : +19.340 m |
| F.S.L | : +21.190 m |
| Mandals benefited | : 7 Nos |

PROJECT PROPOSAL.

It envisages utilization of 12.845 TMC of water to provide irrigation facilities to 25,240 Ha (62,368 Acres) in kharif and 32,400 Ha (80,060 Ac) in rabi seasons in 5 Mandals of Prakasam District and 4 Mandals in Bapatla District, besides augmenting drinking water supplies to 2.5 lakh population in 43 villages en-route and Ongole town. The project consists of an earthen dam of length 5.630 km, and 227 m long spillway with 15 Nos. vertical gates to store 3.859 TMC of water. Two irrigation canals viz., Right Canal of length 27.262 km and Left Canal of length 21.975 km are proposed to serve an ayacut of 32,400 Ha (80,060 acre).

GROSS BENEFITS (INDICATING GCA, CCA, AREA IRRIGATED AND CROPPED AREA CANAL-WISE)

CCA : 32,400 ha

B.C. ratio : 3.5:1

INTER – STATE ASPECTS, IF ANY.

NIL

ANNEXURE-III

LATEST PHYSICAL & FINANCIAL PROGRESS

Latest Physical and Financial programme are given at para-3 & 4 of section-I of this report.

ANNEXURE-IV (A)

ANNEXURE-IV (B)

| | | |
|--|--|-----------------------------------|
| LATEST OBSERVATION OF LENDING AGENCY ON PROJECT STATUS | | COMPLIANCE BY PROJECT AUTHORITIES |
| Not Applicable | | |

ANNEXURE-V

STATEMENT OF DISTRIBUTARY/MINOR-WISE ULTIMATE POTENTIAL

| Sl.No. | Distributary and Minor Wise | Name of canal | Contemplated IP In Acres | IP created In Acres | Ayacut Utilized during 2022-23 in Acres |
|----------|-----------------------------|---------------------------|--------------------------|---------------------|---|
| I | Right Main Canal | | | | |
| 1 | Distributary and Minor wise | 1L Major | 368.50 | 368.5 | 184 |
| 2 | | 2L Major | 405.14 | 405.14 | 202 |
| 3 | | 4R Major and its minors | 2867.96 | 2867.9 | 718.00 |
| 4 | | 5L Major | 152.72 | 152.72 | 71.00 |
| 5 | | 6R Major | 941.52 | 941.52 | 406.00 |
| 6 | | 7L Major | 520.18 | 520.18 | 136.00 |
| 7 | | 8R Major | 779.93 | 779.93 | 555.00 |
| 8 | | 9L Major | 572.24 | 572.24 | 109.00 |
| 9 | | 10R Major | 2377.94 | 2377.9 | 1296.00 |
| 10 | | 11R Major | 129.99 | 129.99 | 61.00 |
| 11 | | 12L Major | 687.28 | 687.28 | 518.00 |
| 12 | | 13R Major | 1779.07 | 1779.0 | 1256.00 |
| 13 | | 14L Major and its Minors | 2625.67 | 2625.6 | 1415.00 |
| 14 | | 15L Major and its Minors | 2236.54 | 2236.5 | 1356.00 |
| 15 | | 16R Major | 714.36 | 714.36 | 195.00 |
| 16 | | 17L Major and its Minor | 1443.51 | 1443.5 | 512.00 |
| 17 | | 17AR Major and its Minors | 1626.08 | 1626.0 | 457.00 |
| 18 | | 18L Major | 580.88 | 580.88 | Water is not suffice |
| 19 | | 19R Major and its Minor | 799.52 | 799.52 | |
| 20 | | 20R Major | 268.70 | 0.00 | |

| | | | | | |
|----|-----------------------------|-------------------------------|---------|--------|-------------------------|
| 21 | | 21L Major | 194.39 | 194.39 | nt, 20R deleted . |
| 22 | | 22 TE Major | 1859.57 | 1859.5 | |
| 23 | | 22 TE / 1R Minor | 520.34 | 520.34 | |
| 24 | | 22 TE / 4L Minor | 114.89 | 114.89 | |
| 25 | | 22 TE / 8R Minor | 416.05 | 416.05 | |
| 26 | | 22 TE / 10R Minor | 875.12 | 875.12 | |
| 27 | | 22 TE / 13R Minor | 1204.84 | 1204.8 | |
| 28 | | 22 TE / 15R Minor | 1041.91 | 1041.9 | |
| 29 | | 22 TE / 27 TE Minor | 493.85 | 493.85 | |
| II | Left Main Canal | | | | |
| 1 | Distributary and Minor wise | 1R Major | 325.64 | 325.64 | 232.00 |
| 2 | | 2R-DP | 83.00 | 83.00 | 42.00 |
| 3 | | 3R Major | 644.27 | 644.27 | 510.00 |
| 4 | | 3R/2L Minor | 424.89 | 424.89 | 400.00 |
| 5 | | 3R/3L Minor | 299.03 | 299.03 | 235.00 |
| 6 | | 3R/3L/1R | 150.80 | 150.80 | 132.00 |
| 7 | | 3R/4R | 119.69 | 0.00 | 0.00 |
| 8 | | 3R/5L | 365.33 | 365.33 | 330.00 |
| 9 | | 3R/5L/2R | 124.32 | 124.32 | 115.00 |
| 10 | | 4R Major | 286.18 | 286.18 | 180.00 |
| 11 | | 4R/2R Minor | 197.27 | 197.27 | 80.00 |
| 12 | | 5R Major | 135.37 | 135.37 | 110.00 |
| 13 | | 6R Major | 145.19 | 145.19 | 100.00 |
| 14 | | 7R Major | 85.29 | 85.29 | 79.00 |
| 15 | | 8R Major | 580.79 | 580.79 | 476.00 |
| 16 | | 9R Major | 400.53 | 400.53 | 340.00 |
| 17 | | 9R/1R Minor | 285.87 | 285.87 | 260.00 |
| 18 | | 9R/5L Minor | 207.69 | 207.69 | 205.00 |
| 19 | | 10R Major | 1068.64 | 1068.6 | 382.00 |
| 20 | | 10R/3R Minor | 274.37 | 274.37 | 220.00 |
| 21 | | 10R/6L Minor | 211.61 | 211.61 | 180.00 |
| 22 | | 11R Major | 545.43 | 545.43 | 380.00 |
| 23 | | 11R/4L Minor | 189.78 | 189.78 | 145.00 |
| | | <u>12R (1st Phase)</u> | | | |
| 24 | 12 R Branch Canal | 12R/1R Major | 624.39 | 624.39 | 1210.00 |
| 25 | | 12R/1R/1R Minor | 563.81 | 563.81 | |
| 26 | | 12R/1R/5R Minor | 155.73 | 155.73 | |
| 27 | | 12R/2L Major | 442.08 | 442.08 | 710.00 |
| 28 | | 12R/2L/1R Minor | 165.80 | 165.80 | |
| 29 | | 12R/2L/6R Minor | 177.10 | 177.10 | |
| 30 | | 12R/3L Major | 211.12 | 211.12 | 360.00 |
| 31 | | 12R/3L/1R Minor | 152.91 | 152.91 | |
| 32 | | 12R/4R Major | 978.98 | 978.98 | 1210.00 |
| 33 | | 12R/4R/3R Minor | 197.38 | 197.38 | |
| 34 | | 12R/4R/10R Minor | 167.72 | 167.72 | |
| 35 | | 12R/5L Major | 211.36 | 211.36 | 210.00 |
| 36 | | 12R/6R Major | 651.29 | 651.29 | 2780.00 |
| 37 | | 12R/6R/1L Minor | 453.23 | 453.23 | |
| 38 | | 12R/6R/2R Minor | 761.86 | 761.86 | |
| 39 | | 12R/6R/2R/9L Sub Minor | 306.21 | 306.21 | |
| 40 | | 12R/6R/3L Minor | 303.23 | 303.23 | |
| 41 | | 12R/6R/6R Minor | 160.61 | 160.61 | |

| | | | | | |
|---|-----------------------------|------------------------|--------------|--------------|--------------|
| 42 | | 12R/6R/7L Minor | 202.93 | 202.93 | 550.00 |
| 43 | | 12R/6R/7L/1R Minor | 249.42 | 249.42 | |
| 44 | | 12R/7R Major | 421.94 | 421.94 | |
| 45 | | 12R/7R/1R Minor | 190.27 | 190.27 | |
| 46 | | 12R/8L Major | 777.93 | 777.93 | 1970.00 |
| 47 | | 12R/8L/1L Minor | 1122.58 | 1122.5 | |
| 48 | | 12R/8L/1L/8R Sub Minor | 289.59 | 289.59 | |
| 49 | | 12R/9L Major | 297.98 | 297.98 | |
| 50 | | 12R/9L/1R Minor | 62.82 | 62.82 | 450.00 |
| 51 | | 12R/9L/2R Minor | 140.19 | 140.19 | |
| 52 | | 12R/10L Major | 204.27 | 204.27 | |
| 53 | | 12R/11L major | 2450.00 | 0 | 50.00 |
| 54 | | 12R/DP-12L | 97.57 | 97.57 | 90.00 |
| 55 | | 12R/13L Major | 463.78 | 463.78 | 415.00 |
| 56 | | 12R/14L Major | 341.63 | 341.63 | 300.00 |
| 57 | | 12R/DP-15L | 99.35 | 99.35 | 90.00 |
| 58 | | 12R/DP - 16L | 49.50 | 49.50 | 45.00 |
| 59 | | 12R/DP-17L | 91.15 | 91.15 | 80.00 |
| 60 | | 12R/DP-18L | 49.36 | 49.36 | 45.00 |
| 61 | | 12R/19R Major | 742.87 | 742.87 | 670.00 |
| 62 | | 12R/20TE major | 6182.50 | 6182.50 | |
| 63 | Distributary and Minor wise | 13R Major | 209.74 | 209.74 | 200.00 |
| 64 | | 14R Major | 451.43 | 451.43 | 350.00 |
| 65 | | 15R Major | 1555.33 | 1555.33 | 2500.00 |
| 66 | | 15R/8R Minor | 234.52 | 234.52 | |
| 67 | | 15R/15R Minor | 434.01 | 434.01 | |
| 68 | | 15R/22L Minor | 192.55 | 192.55 | |
| 69 | | 15R/23R Minor | 543.42 | 0.00 | |
| 70 | | 16R Major | 377.79 | 377.79 | 300.00 |
| 71 | | 17R Major | 523.38 | 523.38 | 1575.00 |
| 72 | | 17R/2R Minor | 1189.68 | 1189.68 | |
| 73 | | 17R/6L Minor | 378.31 | 378.31 | |
| 74 | | 17R/7R Minor | 352.03 | 352.03 | |
| 75 | | 17R/8L Minor | 434.96 | 434.96 | |
| 76 | 18 R Branch Canal | 18TE Branch canal | 1800.64 | 1555.0 | |
| 77 | | 18TE/1R DP | | | 99.00 |
| 78 | | 18TE/2R DP | | | 77.00 |
| 79 | | 18TE/3R DP | | | 69.00 |
| 80 | | 18TE/4R Major | 705.59 | 705.59 | 700.00 |
| 81 | | 18TE/5L Major | 365.58 | 365.58 | 980.00 |
| 82 | | 18TE/5L/4R Minor | 897.98 | 897.98 | |
| 83 | | 18TE/6L DP | | | 100.00 |
| 84 | | 18TE/7R Major | 1466.32 | 1466.3 | 1450.00 |
| 85 | | 18TE/10R Major | 560.16 | 310.16 | |
| 86 | | 18TE/10R/6R Minor | 245.62 | 245.62 | |
| 87 | | 18TE/10R/7R Minor | 455.94 | 0 | |
| 88 | | 18TE/20R Major | 450.87 | 0 | |
| 89 | | 18TE/21L Major | 197.28 | 197.28 | |
| 90 | | Supplementation | 8905.00 | 3854 | |
| 91 | | Highlevel Canal | 768.45 | 500 | |
| Grand Total for LMC & RMC in Acres | | | 80060 | 66990 | 34395 |
| Grand Total in Ha | | | 32400 | 27110 | 13920 |

ANNEXURE-V (A)

**STATEMENT OF IRRIGATION POTENTIAL PROPOSED CREATION AND
UTILIZATION
DISTRICT-WISE AND CROP-WISE**

| Sl. No. | District Benefitted | Name of Canal/ Branch/ Dy. Minor/ sub-minor | Parent Canal | UIP (ha) | | | IPC (ha) | | | IPU (ha) | | |
|---------|---------------------|---|---|----------|------|-------|----------|------|-------|----------|------|-------|
| | | | | Kharif | Rabi | Total | Kharif | Rabi | Total | kharif | Rabi | Total |
| 1 | Prakasam | Left Main Canal | The entire IP contemplated comes under Prakasam District of Andhra Pradesh. The distributary/minor wise Ultimate Irrigation Potential (UIP), Irrigation Potential Created (IPC) and Irrigation Potential Utilized (IPU) details were provided in Annexure – V. Crop wise details were also not provided by the project authorities, but major crops are Tobacco & chilli. Project authorities were requested to provide complete cropwise details for better assessment of water requirement. | | | | | | | | | |
| 2 | Prakasam | Right Main Canal | | | | | | | | | | |

ANNEXURE-V (B)

STATEMENT OF LAND USE, LAND COVER DISTRICT-WISE AND CROP-WISE

| Sl. No. | District Benefitted | Geographical Area (Lakh ha) | Area Shown (ha) | Net Irrigated Area (ha) | | Gross Area Irrigated (ha) | | Net Area Irrigated under this Project (ha) | |
|---------|---------------------|-----------------------------|-----------------|-------------------------|------|---------------------------|------|--|------|
| | | | | Kharif | Rabi | Kharif | Rabi | Kharif | Rabi |
| 1 | Prakasam | 17.63 | 584808 | 605169 | | 906035 | | 13920 | |

ANNEXURE-VI

**ACTION TAKEN ON OBSERVATIONS OF PREVIOUS STATUS REPORT OF
CWC**

No progress in project since last monitoring visit.

ANNEXURE VII

**ACTION TAKEN ON SPECIAL CONDITIONS LAID DOWN BY THE ADVISORY
COMMITTEE AT THE TIME OF APPRAISAL**

| Special conditions laid down by the Advisory Committee | Action taken by Project Authorities |
|--|-------------------------------------|
| Nil | Nil |

ANNEXURE VIII

QUALITY CONTROL TEST RESULTS/CERTIFICATES

Note: No construction works are going on as on date.

SCHEMATIC LAYOUT DIAGRAM OF KOR GUNDLAKAMMA RESERVOIR PROJECT

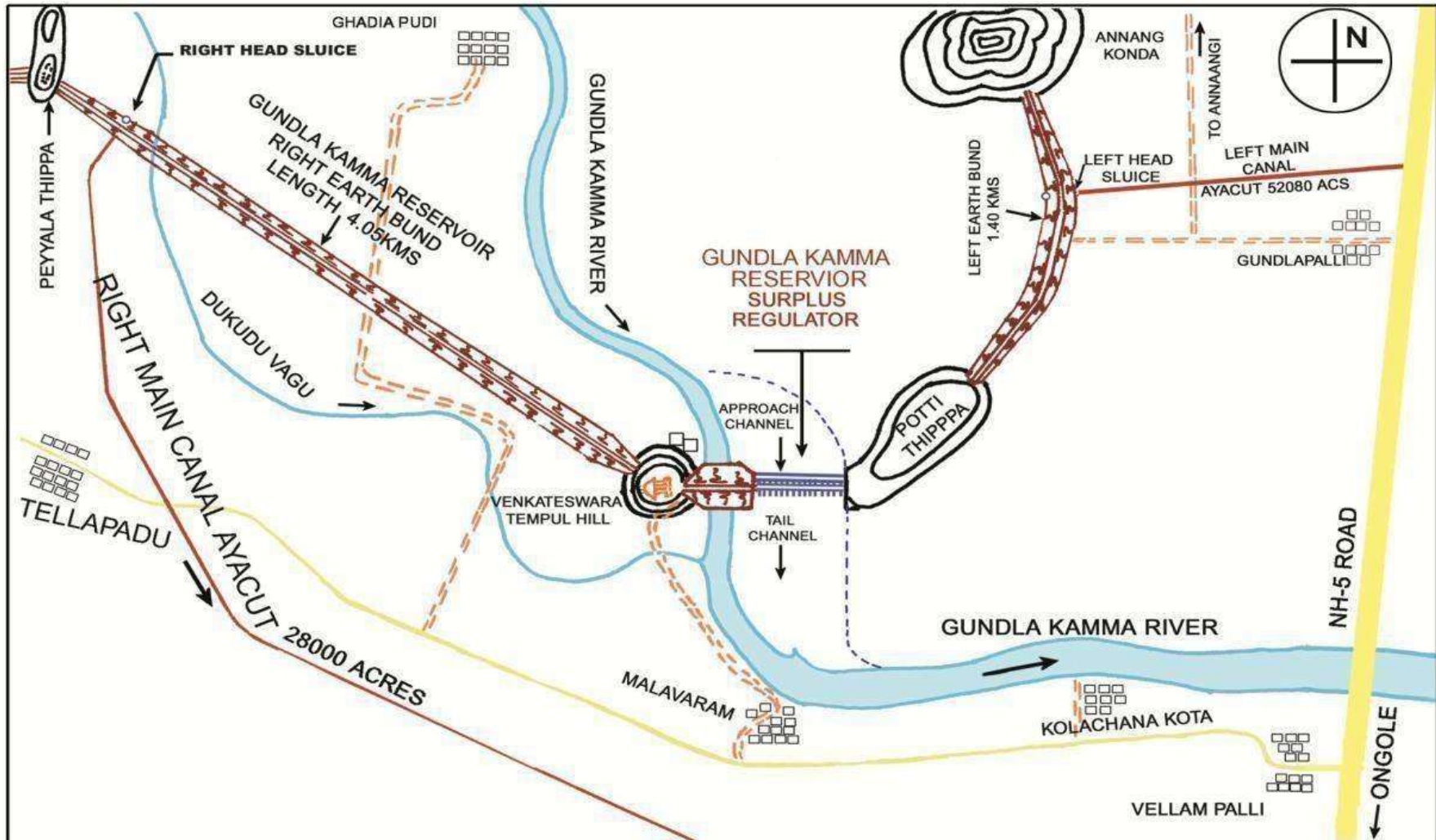


PLATE – 2

PLATE – 3

PLATE – 4

R&R CENTRES OF GUNDLAKAMMA RESERVOIR PROJECT

PLATE- 5

Due to the farmer objection,
the distributary is deleted
from the scope

STATUS OF CADWM COMPONENT**1. PROJECT SUMMARY:**

An ayacut of 32,400 Ha is proposed under CADWM programme. Out of 32400 Ha, an extent of 25,920 Ha is proposed under Field Channels, 3,240 Ha is proposed for underground pipelines and an extent of 3240 ha is under Micro Irrigation. The Project has been included in CADWM scheme with an estimated cost of Rs. 102.798Cr vide letter no. 19011/20/2017-CADWM, dated 31.03.2017. *It is to inform that, the Govt. of Andhra Pradesh mentioned that, as per the guidelines prescribed by MoWR, the project cost is limited to Rs.93.90 Cr with 50:50 Central-State ratio from initially proposed cost of Rs.102.798 Cr and accorded permission by the State Government in G.O.Ms.No.38 Dt: 24.08.2020.*

2. STRUCTURAL & NON STRUCTURAL INTERVENTIONS AS BEING EXECUTED:

The structural & non-structural interventions approved under CADWM are given below:

PHYSICAL**Quantity in Ha**

| S No | Activity | Estimated Area/Qty | Completed upto 05/2023 | Balance |
|-------------|--|---------------------------|-------------------------------|----------------|
| | Structural Interventions | | | |
| 1 | Surveying, Planning and Design of OFD | 32400 | 32400 | 0.00 |
| 2 | Construction of lined FC | 25920 | 0 | 25920 |
| 3 | Micro irrigation. | 3240 | 0 | 3240 |
| 4 | Land Levelling | 0 | 0 | 0 |
| 5 | Construction of field, intermediate and link drains. | 3000 | 0 | 3000 |
| 6 | Correction of system Deficiencies | 4000 | 0 | 4000 |
| 7 | Reclamation of water logged area | 3240 | 0 | 3240 |
| | Non-Structural Interventions | | | |
| 1 | Onetime Grant (WUA) | | | |
| a | Functional grant (ha) | 32400 | 0 | 32400 |
| b | Infrastructure grant (proposed) | 1 | 0 | 1 |
| 4 | Trainings, demonstration, and adaptive Trials | On actual | 0 | On actual |
| 5 | Establishment | On actual | 0 | On actual |

FINANCIAL

Amount in Lakhs

| S No | Activity | Estimated amount | Expenditure Upto 31.05.2023 | Balance |
|------|--|------------------|-----------------------------|-----------------|
| | Structural Interventions | | | |
| 1 | Surveying, Planning and Design of OFD | 194.40 | 124.35 | 70.050 |
| 2 | Construction of lined FC | 5103.00 | 59.76 | 5043.24 |
| 3 | Micro irrigation. | 2430.00 | 0 | 2349.00 |
| 4 | Land Levelling | 0.00 | 0 | 0.00 |
| 5 | Construction of field, intermediate and link drains. | 97.20 | 0 | 97.20 |
| 6 | Correction of system Deficiencies | 129.60 | 0 | 129.60 |
| 7 | Reclamation of water logged area | 324.00 | 0 | 324.00 |
| | Sub-Total | 9007.20 | 184.11 | 8823.09 |
| | Non-Structural Interventions | | | |
| 1 | Onetime Grant (WUA) | | | |
| a | Functional grant (ha) | 388.80 | 0 | 388.80 |
| b | Infrastructure grant (proposed) | 2.50 | 0 | 2.50 |
| 2 | Trainings, demonstration, and adaptive trials | 0.0 | 0 | 0.0 |
| 3 | Establishment | 881.30 | 0 | 881.30 |
| | Sub-Total | 1272.6 | 0.00 | 1272.6 |
| | Grand Total | 10279.80 | 184.11 | 10095.69 |

4. CHANGES IN SCOPE, IF ANY:

There is no change in scope as regard to CADWM works.

5. ORGANISATIONAL SET UP FOR THE PROJECT:

Organizational setup is same as available setup for AIBP works

6. OVERALLASSESSMENT REGARDING PROJECT COMPLETION:

Project authorities informed that CAD works of project are to be completed by **March-2025**. Earth work, OFD works & some of the System Deficiency works are executed; same has been witnessed during visit. Targeted completion date is achievable only when project authorities put full efforts to complete the CAD works because these CAD works spread throughout command area.

7. CONTRACTUAL ARRANGEMENTS:

Tenders for 47 packages for execution of structural component for an amount of Rs. 68.672 Cr are floated and agreements are concluded for 38 packages of CADWM works.

8. CONSTRUCTION PLANNING & SCHEDULE:

Project authority scheduled to complete the CAD works by March-2025.

9. PROGRESS OF STRUCTURAL INTERVENTIONS:

No progress as on date, however Tenders for 47 packages for execution of structural component for an amount of Rs. 68.672 Cr are floated and agreements are concluded for 38 packages of CADWM works.

10. QUALITY ASSESSMENT:

As no works were taken up, quality assessment does not arise.

11. PROGRESS OF NON-STRUCTURAL INTERVENTIONS:

As the project is on-going and structural interventions of CADWM works yet to be taken up, no progress is seen in CADWM non-structural interventions.

12. FINANCIAL PROGRAMME AND PROGRESS:

The Project has been included in CADWM scheme with an estimated cost of Rs. 102.798 Cr vide letter no. 19011/20/2017-CADWM, dated 31.03.2017. Central Assistance of Rs. 3.645 Cr was released for CADWM works of the project for 2017-18. . *The Govt. of Andhra Pradesh informed that, as per the guidelines prescribed by MoWR, the project cost is limited to Rs.93.90 Cr with 50:50 Central-State ratio from initially proposed cost of Rs.102.798 Cr and accorded permission by the State Government in G.O.Ms.No.38 Dt: 24.08.2020.* An amount of Rs. 1.8411 Cr has been incurred on CAD works till date. As informed by Project authorities, budget provision made for FY 2023-24 is Rs. 30.00 Cr respectively for both AIBP & CADWM.

13. POINTS NEEDING ATTENTION:

CADWM works should be completed at the earliest for early benefits of the project to the farmers. Once the Central Assistance (CA) of Rs. 3.645 Cr released is utilized, the project authorities should send proposal for further eligible CA.

14. BOTTLENECKS:

At present no bottlenecks & some were mentioned at Sl. No 19 & page no 20 in this report.

15. COMPLIANCE OF OBSERVATIONS OF EARLIER STATUS REPORT:

Not applicable at this juncture.

16. OTHER COMMENTS/OBSERVATIONS:

Project authorities informed that CAD works of project are to be completed by **March-2025**. Earth work, OFD works & some of the System Deficiency works are executed; same has been witnessed during visit. Targeted completion date is achievable only when project authorities put full efforts to complete the CAD works because these CAD works spread throughout command area. Total 7.85 crore of work have done by State Govt. under CADWM and 2.6 crore of an amount of bills are sent to finance department of GoAP for releasing of funds, which is yet to be released.



Gundlakamma LMC 12R Branch Canal 1L Major 8R Sub-Minor

Gundlakamma LMC 12R Branch Canal 1R Major 1R Minor



Gundlakamma LMC 12R Branch Canal 1L Major 8R Sub-Minor

Gundlakamma LMC 12R Branch Canal 1L Major 11R Minor



Latitude: 15°34'35"N
Longitude: 80°8'32"E
Elevation: 15.12±3.43 m
Accuracy: 4.70 m
Time: 20-06-2023 16:17:14
Note: Gundlakamma-CADWM LMC 11R Sub Minor

NoteCam @ iOS

Gundlakamma LMC 12R Branch Canal 1L Major 11R Minor
Gundlakamma LMC 12R Branch Canal 3R Major 1R Sub-Minor



Gundlakamma LMC 12R Branch Canal 3R Major 1R Sub-Minor

Gundlakamma Left Main Canal 3R Major



Gundlakamma Left Main Canal 3R Major



Gundlakamma LMC 12R Branch Canal 1R Major 1R Minor



Gundlakamma LMC 12R Branch Canal 1R Major 1R Minor

Gundlakamma RMC 22TE Branch Canal 15R Minor @1.205 KM



Gundlakamma RMC 22TE Branch Canal 15R Minor @1.205 KM

Gundlakamma RMC 22TE Branch Canal Major @3.190 KM



Gundlakamma RMC 22TE Branch Canal 10R Minor @2.960 KM

Gundlakamma RMC 22TE Branch Canal 10R Minor @2.960 KM



Gundlakamma RMC 22TE Branch Canal 1R Minor

Gundlakamma RMC 22TE Branch Canal 1R Minor



Gundlakamma RMC 22TE Branch Canal 1R Minor



Gundlakamma Right Main Canal @ 26.4 KM



Gundlakamma Right Main Canal @ 24.3 KM

Gundlakamma RMC 17R Major



Gundlakamma RMC 17R Major 4R Minor @ 1.84 KM OT

Gundlakamma RMC 17R Major 4R Minor @ 1.84 KM OT



Gundlakamma Right Main Canal @ DLRB 11 KM

Gundlakamma Right Main Canal @ DLRB 11 KM

SUMMARY OF ACTIONABLE POINTS

The actionable points are summarized below.

Floods occurred in August 2022 - Sept 2022, about 85 percent of the water stored in the Gundlakamma reservoir was let out because one of the gates out of 15 gates got damaged and washed off. The experts concluded that the installation of new gate would not be possible unless the water level of the reservoir is brought down to dead storage level. The project authorities have informed that stop log gates were installed and the repair of partly damaged gates are being carried out. However, it was brought out that till date no agency has agreed to take up the work of installation of new gate at bay no.3. The projects authorities shall be directed to take immediate action on installation of new gates before the onset of monsoon without which it would not be possible to store any water in the reservoir.

AIBP:**i) Maintenance:**

The assets created under AIBP needs to be maintained as failure of gates happened during 2022 floods indicates.

ii) Land Acquisition:

Land acquisition between 5.925 km to 10.400 km of 18 Tail End (TE) Branch Canal of LMC is only the main bottleneck in the project due to court cases. This LA issue is persisting since last 10 years. IP Creation about 3,405 Ha out of balance IP of 5630 ha to be created is pending due to this issue. The court cases W.P No. 5228/2018 and 10986/2018 and 4279/2021 are pending at the Hon'ble High court of Andhra Pradesh. The projects authorities are continuously pursuing this matter with Special Collector, Ongole & revenue authorities to solve the issue at the earliest.

iii) R&R:

Out of 12 villages, 7 villages are shifted completely and 5 villages are shifted partly. However, Pending R&R issues are not affecting the storage of water in reservoir upto FRL. It is advised to re-examine the need for R&R of partially affected villages as it is not affecting storage. It is requested to furnish the water inflow, utilization and outflow of the project since it is commissioned.

iv) Court cases

| SL no | Case Number | Reason | Status of case |
|-------|---------------------------|--|--|
| 1 &2 | WP 5228/2018 & 10986/2018 | Against land acquisition process (18 TE branch canal between Km.6.260 and Km. 9.670) and implementation new LA Act-2013 | Stay obtained from Hon'ble High court by petitioner. However stay vacation petition filed by land acquisition Authorities. |
| 3 | WP No. 4279/2018 | Against land acquisition process (18 TE branch canal between Km.9.670 and Km. 10.400) and violation of article 300A of the constitution of India | Counter affidavit filed by the Spl. Dy. Collector (L.A), R&R Unit Ongole. Hearing is pending. |
| 4 | WP 41342/2016 | Against land acquisition for want of Higher compensation as per new LA Act-2013 (18 TE branch canal between Km.10.400 and Km. 12.835) | No stay order issued by Hon'ble High court Excavation of canal was objected by Farmers since 2016 |

Project authorities have to take necessary action along with revenue authorities to vacate court cases.

Budget:

An amount of Rs. 30.00 cr is provided as budget for FY 2023-24 against an amount of Rs. 103.881 Cr required for completion of balance AIBP component. However the expenditure is just Rs. 2.95 Cr during 2022-23. State Govt has to make sufficient budget provision to complete the project in targeted time.

v) Contractual agreements:

At present there is no active agency to executive the balance AIBP works.

Lot of vegetation/weeds is grown up in Main canals & Distribution system which is affecting the efficiency of Distribution network.

vi) Irrigation Potential and duplication of command:

- The Project Authority reported that an Ayacut of 2450 Ac. (992 Ha) proposed under 11L major under 12-R Branch canal is came to be know that this Ayacut was already covered under the existing Kommamuru canal of Krishna western Delta system.
- Similarly, it is also understood that the Tail end distributary of LMC for supplementing to Ayacut of Kommamuru canal (Krishna Western delta under Prakasham Barrage) command(3603 ha) is being stabilized by from Prakasham Barrage with the Godavari water from Polavaram RMC. Hence it is suggested to review the supplementation by Krishna West Delta command and accordingly revise the Irrigation Command under LMC of Project. This total area of Duplication of command becomes 4595ha. If this duplication is deducted from the command area of 32,400ha, the revised UIP becomes 27805ha. The IPC is 26.446 ha which is 95.11% of the revised UIP. As 95.11% of the project is completed as per the revised UIP, the

project may be declared completed with reconciliation of the ayacut area and clearance of possible court cases for the remaining 5% command.

- c. It is advised that the irrigated areas in the project may be notified in consultation with revenue authorities. The DPR prepared for CADWM works may be taken as reference document. A copy of DPR prepared for CADWM works may be sent to CWC immediately for further observations / suggestions.

The overall weighted physical progress of the project as on 31.05.2023 is 98.30%. Out of 3805.5 Ha, 14.11 Ha of land is to be acquired which is held up due to court cases. Due to pending of land acquisition, targeted Irrigation Potential Creation (IPC) is delayed. As per project authority, project is to be completed by **July-2024**, which appears not possible. But, the completion of project is mainly depends on clearance of court cases & further land acquisition and award of balance works to new agency as there is no active agency for execution of balance AIBP component. Hence it is suggested that a thorough review may be conducted on balance potential to be created in the project and accordingly balance works of the project.

CADWM:

Though there is no progress in CAD works since release of CA during 2017-18, tenders for 47 packages for execution of structural component for an amount of Rs. 68.672 Cr are floated and agreements are concluded recently for 38 packages of CADWM works. Earth work, OFD works & some of the System Deficiency works are executed.

Project authorities informed that CAD works of project are to be completed by **March-2025**. Targeted completion date is achievable only when project authorities put full efforts to complete the CAD works because these CAD works scattered throughout command area. Central Assistance of Rs. 3.645 Cr released for CADWM works of the project for 2017-18 needs to be utilized and balance Central Assistance should be utilized to create envisaged IP. Once the Central Assistance (CA) of Rs 3.645 Cr released is utilized, the project authorities should send proposal for further eligible CA. Total 7.85 crore of work have done by State Govt. under CADWM and 2.6 crore of an amount of bills are sent to finance department of GoAP for releasing of funds, which is yet to be released.