



**Government of India**  
**Ministry of Jal Shakti**  
**Department of Water Resources**  
**River Development & Ganga Rejuvenation**



## POLAVARAM PROJECT AUTHORITY



**ANNUAL REPORT  
2023-24**



**View of Downstream Cofferdam**



**Government of India  
Ministry of Jal Shakti  
Department of Water Resources,  
River Development & Ganga Rejuvenation**



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**ANNUAL REPORT  
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**Krishna Godavari Bhawan, A. C. Guards,  
Hyderabad – 500004**





## From Chief Executive Officer's Desk

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It gives me great pleasure in presenting the Annual Report for the year 2023-24 of Polavaram Project Authority, which provides an overview of the activities undertaken and performance of the Authority during the year. The Polavaram Project has been planned to utilise a part of the unused water of Godavari which is draining into the sea by constructing a dam at Polavaram. This multi-purpose major irrigation project is intended for development of a gross irrigation potential of 4,36,825 ha and stabilization under Godavari delta. The project also envisages generation of 960 MW of hydro power, drinking water supply to a population of 28.50 lakh in enroute villages and diversion of 80 TMC of water to Krishna river basin. In a way, the project heralds a wide range of developmental activities across the region.

The construction of project began in 2004-05. The project was brought under the centrally sponsored Scheme, AIBP during the year 2008-09. Later in 2014, Polavaram Irrigation Project (PIP) was declared as a National Project as per the section 90 part IX of the A. P. Reorganization Act, 2014. In pursuance of the Act, the Union Government constituted Polavaram Project Authority (PPA) vide erstwhile Ministry of Water Resources notification dated 28<sup>th</sup> May, 2014. On the request of the State government, the project is being executed by Water Resources Department, Government of Andhra Pradesh on behalf of Govt. of India.

With active initiation and involvement by PPA, four review meetings and one Dam Design Review Panel meeting were convened during 2023-24, wherein comprehensive discussions on administrative, financial, and technical matters took place to gear up the construction activities of the Project. Amidst these achievements, the Government of India displayed its commitment to the project by reimbursing an amount of Rs. 727.88 Cr to the State Government of Andhra Pradesh during the year.

The Authority has played a significant role in coordinating and steering all the organizations associated with various aspects of the project viz. WRD, CWC, CSMRS, CWPRS, WAPCOS etc. towards speedy implementation of the project. The performance of the Authority during the year has been quite encouraging. In this regard, the support and cooperation of Ministry of Jal Shakti, Department of Water Resources, RD & GR, Government of India and the State Government of Andhra Pradesh is gratefully acknowledged.

Despite constraints, the members, officers and staff of the Authority have worked diligently during the year in taking forward the activities of the Authority and the Project. The preparation of this Annual Report has been a collaborative effort, involving the dedicated contributions of several individuals within the organization. In the end, I express my deep appreciation to everyone who have contributed to the preparation of this Annual Report and to the success of Polavaram Project Authority playing its role effectively.

(Atul Jain)

**Chief Executive Officer  
Polavaram Project Authority**



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## Abbreviations used in the Report

<b>AIBP</b>	Accelerated Irrigation Benefit Program
<b>APRA, 2014</b>	Andhra Pradesh Reorganization Act, 2014
<b>AP</b>	Andhra Pradesh
<b>CA</b>	Civil Appeal
<b>CEA</b>	Central Electricity Authority
<b>CWC</b>	Central Water Commission
<b>CEO</b>	Chief Executive Officer
<b>CPIO</b>	Central Public Information Officer
<b>CDO</b>	Central Design Organisation
<b>CSMRS</b>	Central Soil and Material Research Station
<b>CCA</b>	Culturable Command Area
<b>Cr</b>	Crore
<b>CE</b>	Chief Engineer
<b>CWES</b>	Central Water Engineering Service
<b>CWPRS</b>	Central Water and Power Research Station
<b>CPES</b>	Central Power Engineering Service
<b>DDRP</b>	Dam Design Review Panel
<b>DLRB</b>	Double Lane Road Bridge
<b>DoWR, RD &amp; GR</b>	Department of Water Resources, River Development and Ganga Rejuvenation
<b>D/s</b>	Down stream
<b>E &amp; M</b>	Electro-Mechanical
<b>ECRF</b>	Earth-Cum Rock Fill Dam
<b>EL</b>	Elevation
<b>FRL</b>	Full Reservoir Level
<b>GWDT</b>	Godavari Water Dispute Tribunal
<b>GoI</b>	Government of India
<b>GRMB</b>	Godavari River Management Board
<b>GoAP</b>	Government of Andhra Pradesh
<b>GCA</b>	Gross Command Area
<b>GIA</b>	Gross Irrigated Area
<b>Ha</b>	Hectare
<b>IA</b>	Interim Affidavit
<b>Kwh</b>	Kilo Watt Hour
<b>KM</b>	Kilo Meter
<b>LMC</b>	Left Main Canal
<b>LA</b>	Land Acquisition
<b>MCM</b>	Million Cubic Meter
<b>MW</b>	Mega Watt
<b>MWL</b>	Maximum Water Level
<b>MoTA</b>	Ministry of Tribal Affairs
<b>MNRE</b>	Ministry of New and Renewable Energy
<b>MoP</b>	Ministry of Power
<b>MoJS</b>	Ministry of Jal Shakti
<b>MoEF &amp; CC</b>	Ministry of Environment, Forest and Climate Change

<b>MoHA</b>	Ministry of Home Affairs
<b>MoF</b>	Ministry of Finance
<b>MoWR</b>	Ministry of Water Resources (erstwhile)
<b>NHRC</b>	National Human Rights Commission
<b>NBWL</b>	National Board for Wild Life
<b>OS</b>	Original Suit
<b>ONGC</b>	Oil & Natural Gas Corporation Limited
<b>PL</b>	Price Level
<b>PHEP</b>	Polavaram Hydro-Electric Project
<b>PPA</b>	Polavaram Project Authority (also referred as Authority)
<b>PDF</b>	Project Displaced Family
<b>PESA</b>	Panchayats Extension to Scheduled Areas Act, 1996
<b>PMF</b>	Probable Maximum Flood
<b>PMCC</b>	Project Monitoring and Coordination Consultant
<b>PIL</b>	Public Interest Litigation
<b>PIP</b>	Polavaram Irrigation Project
<b>PH</b>	Power House
<b>RTI</b>	Right to Information
<b>RFCTLARR</b>	Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement
<b>R &amp; R</b>	Rehabilitation and Resettlement
<b>RMC</b>	Right Main Canal
<b>RL</b>	Reduced Level
<b>RELA</b>	Readiness For Empowerment Through Legitimate Action
<b>SAKTI</b>	Search for Action and Knowledge of Tribal Initiation
<b>SJC</b>	Senior Joint Commissioner
<b>SLRB</b>	Single Lane Road Bridge
<b>SP</b>	State Projects
<b>TMC</b>	Thousand Million Cubic feet
<b>TS</b>	Telangana State
<b>TAC</b>	Technical Advisory Committee
<b>U/s</b>	Upstream
<b>WRD</b>	Water Resources Department
<b>W.P</b>	Writ Petition

\*\*\*All the Districts of Andhra Pradesh referred in this Annual report are earlier districts prior to Restructuring of Districts done vide Gazette notification Dt 03.04.2022.



## CHAPTER-1

### POLAVARAM PROJECT- AN OVERVIEW

#### **1.1 Background**

Polavaram Project is a multi-purpose project which has been accorded National Project status by the Union Government. This under construction project across the Godavari River is located in West Godavari and East Godavari Districts in the State of Andhra Pradesh and its reservoir spreads in parts of Telangana, Chhattisgarh and Odisha States also.

The first conceptual proposal for the Polavaram Project originated from the erstwhile Madras Presidency in July 1941. Later Diwan Bahadur L. Venkata Krishna Iyer, then Chief Engineer in the Presidency's Irrigation Department, conducted first survey of the project site and made a definitive proposal for a reservoir at Polavaram. Shri Venkata Krishna Iyer not only had a vision of cultivation of 3,50,000 acres (1,41,640 ha) over two crop seasons through this project, but also planned for a 40 MW Hydro-Electric plant within the project. The entire project was estimated to cost about Rs. 6.50 Cr.

After re-organization of the States, the Government of India constituted the Godavari Water Disputes Tribunal (GWDT) in 1969 for adjudication of the water disputes regarding interstate river Godavari. The Government of Andhra Pradesh submitted Polavaram Project Report 1978 with live storage of 28.31 TMC at FRL +150 ft. GWDT gave its original report to Government of India in the year 1979.

After a chain of deliberations, the States of Andhra Pradesh, Madhya Pradesh and Odisha entered into an agreement in 1980 resolving the submergence aspects of Polavaram Project. This agreement was filed before the Tribunal and was made part of the final order of the Tribunal in 1980. GWDT passed final orders directing that Polavaram Project shall be cleared by CWC as expeditiously as possible for FRL/MWL +150 ft.

#### **1.2 Location of the Project**

The Polavaram Irrigation Project is on the river Godavari near Ramayyapeta village of Polavaram Mandal, about 34 km upstream of Kovvur-Rajahmundry road-cum-rail bridge and 42 km upstream of Sir Arthur Cotton Barrage, where river emerges out of the last range of the Eastern Ghats and enters the plains in West Godavari District of Andhra Pradesh. This multi-purpose major irrigation project is intended for development of a gross irrigation potential of 4,36,825 ha and stabilization under Godavari delta. The project also envisages generation of 960 MW of hydro power, drinking water supply to a population of 28.50 lakh in enroute villages and diversion of 80 TMC of water to Krishna river basin. A view of ongoing construction of Depletion Channel Regulator at Downstream Cofferdam for depleting the water from the main dam area is shown at Figure- 1.



**Figure- 1: View of Ongoing Construction of Depletion Channel Regulator at Downstream Coffer Dam**

### 1.3 Main Components of the Project

#### Dam

The project comprises an Earth-Cum Rock Fill dam, 25.32 m high and 564 m long in Gap- I on the left bank of the river, 45.00 m high and 1750 m long in Gap - II and a concrete dam of 22.32 m maximum height and 153.5 m long in Gap - III on the right bank, located in the main flow channel of the river Godavari. The ECRF dam is provided with a plastic concrete diaphragm wall below the foundation of dam to prevent seepage. The gross storage of the reservoir is 194.60 TMC at FRL +45.72 m and the live storage of the reservoir is 75.20 TMC with MDDL at +41.15 m. The Main components of the project and envisaged benefits are given in Box No. 1 and 2 respectively.

To construct the main ECRF dam, upstream coffer dam with top at EL +42.50 m and downstream coffer dam with top at EL +30.50 m have been constructed with provision of concrete jet grouting cut-off/diaphragm wall based on foundation strata.

#### Spillway

The spillway part of the project comprises of an Ogee Spillway with crest level at EL 25.72 m located on the right bank along with connecting approach channel of 2,310 m length on the upstream of spillway. Stilling basin is provided downstream of spillway for energy dissipation. The spill channel of 2,764 m length takes off from the stilling basin which joins the river at the downstream.

The total width of spillway at its axis inclusive of left and right abutment piers is 1,121.20 m whereas the clear width of spillway is 768 m. The spillway is provided with 48 numbers of Radial Gates of size 16 m (W) x 20 m (H). The Full Reservoir Level (FRL) is at EL+45.72 m. The probable maximum flood (PMF) is estimated as 1,41,535 m<sup>3</sup>/s (about 50 lakh cusec).

## Stilling Basin

The spillway stilling basin is 110 m long and 1,043.40 m wide. The floor level of stilling basin at EL +7.25 m and end sill at EL+12.0 m are adopted as per the recommendation of CWPRS. There are no chute blocks in the energy dissipation arrangement.

## Spill Channel and Pilot Channel

The stilling basin is followed by a 2,764 m long and 1,000 m wide spill channel and a 650 m long pilot channel. The bed width of the spill channel at its start is 1043.40 m and gradually reduces to 1,000 m over a length of 215.81 m. The invert level of the spill channel at its start is kept at EL 8.80 m. The pilot channel joins with the deep course of the river Godavari. The bed width of the pilot channel at its junction with the spill channel is 1,000 m.

## Canal System

Two main canals offtake on each side of the dam. The main canals are designated as Left Main Canal and Right Main Canal. The canal systems are designed to meet the irrigation, drinking water and industrial water requirements of East Godavari, Visakhapatnam, West Godavari and Krishna districts.

### Left Main Canal (LMC)

Left Main Canal offtakes from Nelakota Ava subsidiary reservoir by means of a head regulator. It is a contour canal. Left main canal is 181.999 km long to cater about 1,61,875 ha (4.0 lakh acres) of irrigation water requirements of East Godavari and Visakhapatnam districts besides diversion of about 664 MCM (23.44 TMC) of water to industries in and around Vishakhapatnam. The canal also provides drinking water supply to the population living in 358 villages en route the canal. There are about 451 Nos. of different types of structures

### Box No. 1: Main Components of the Project- At a glance

- 2,467.50 m of Earth-Cum Rock Fill dam/concrete dam in three gaps.
- 1,121.20 m long spillway for discharging probable maximum flood of 1,41,535 Cumec.
- 181.999 km long Left Main Canal to irrigate 4 lakh acres (1,61,875 ha).
- 178.81 km long Right Main Canal to irrigate 3.2 lakh acres (1,29,259 ha).
- Total Irrigated area is 7.2 Lakh acres (2.91 Lakh Ha)
- A 960 MW (12 x 80 MW) Power House on left flank with 12 tunnels for penstocks and a tail race channel.

### Box No.2: Irrigation Potential & Other Benefits

- 10.77 lakh acres (4.36 lakh ha) Gross Irrigation potential in East Godavari, Visakhapatnam, West Godavari and Krishna districts under LMC and RMC.
- Interlinking of Godavari and Krishna rivers proposing to divert 80 TMC to Krishna basin
- 23.44 TMC of water supply to industries and drinking water to Visakhapatnam.
- Domestic water supply to 28.5 lakh population in 611 villages.
- Generation of 960 MW power.
- Sharing of 5 TMC and 1.5 TMC of water from reservoir rim with Odisha and Chhattisgarh respectively.
- For stabilisation in Godavari & Krishna Deltas.
- 8 TMC for stabilisation of Samarlakota Branch Canal.

being provided along the Left Main Canal. Downstream Service Bridge of NH Crossing at 88.035 km of LMC under Package-4C is shown at Figure- 2.



**Figure- 2: Downstream Service Bridge of NH Crossing at 88.035 km of PIP-LMC**

### **Right Main Canal (RMC)**

The diversion of water on the right flank will be through a P-Regulator located in the upstream of the Saddle Dam-E on the right side of the spillway. From this Regulator, the water will be first let out into two subsidiary reservoirs formed by constructing saddle dams and connecting tunnels. The outfall Head Regulator has been provided at the end of Bund-2. RMC is about 178.81 km long and provided to irrigate an area of about 1,29,259 ha (3.2 lakh acres) in West Godavari and Krishna District besides diversion of 80 TMC of water to Krishna river for replacement of existing water source to Krishna Delta command. The water so saved in Krishna Delta will be used in upper reaches of Krishna above Nagarjuna sagar as per GWDT Award 1980. The canal also provides drinking water to the population living in 196 villages in West Godavari district and 57 villages in Krishna district. There are 255 Nos. of different types of structures being provided along the Right Main Canal. Surplus Escape at 121.800 km under Pkg. 5 of Right Main Canal is shown at Figure- 3.



**Figure- 3: Surplus Escape at 121.800 km under Pkg. 5 of PIP-RMC**

The salient features of both the canals are tabulated in Table 1 & 2.

**Table 1: Left Main Canal**

	Description	By flow (in ha.)	By lift (in ha.)	Total (in ha.)
(1)	(2)	(3)	(4)	(5)
<b>Left Main Canal</b>				
1	Gross Command Area (GCA)	1,92,466	23,731	2,16,197
2	Culturable Command Area (CCA)	1,53,238	21,740	1,74,978
3	Area under Irrigation	1,41,765	20,110	1,61,875
4	Kharif	1,12,064	13,810	1,25,874
5	Rabi	70,940	10,000	80,940
6	Hot weather		-	
7	Two seasonal		-	
8	Perennial	29,701	6,300	36,001
9	Gross Irrigation Area (GIA)		2,42,815	
10	Intensity of Irrigation		150%	

**Table 2: Right Main Canal**

	Description	By flow (in ha.)	By lift (in ha.)	Total (in ha.)
(1)	(2)	(3)	(4)	(5)
<b>Right Main Canal</b>				
1	Gross Command Area (GCA)	1,53,047	9,644	1,62,691
2	Culturable Command Area (CCA)	1,31,062	8,678	1,39,740
3	Area under Irrigation	1,21,232	8,027	1,29,259
4	Kharif	91,265	5,619	96,884
5	Rabi	60,738	4,013	64,751
6	Hot weather		-	
7	Two seasonal		-	
8	Perennial	29,967	2,408	32,375
9	Gross Irrigation Area (GIA)		1,94,010	
10	Intensity of Irrigation		150%	

**Note:** The above values are taken as was there in the original approved Note of Advisory Committee for 95<sup>th</sup> TAC.

### Power House

Polavaram Hydro-Electric Project (PHEP) as a part of Polavaram Multi-Purpose Project is proposed in the Left Bank of ECRF Dam in Gap-I at Anguluru village in Devipatnam Mandal of East Godavari district, to utilize the monsoon flows and releases downstream for hydel power generation. The installed capacity of the power house is 960 MW (12 X 80 MW).

The Central Electricity Authority (CEA), Ministry of Power, Government of India has accorded Techno-Economic Concurrence on 21.02.2012 to the PHEP to be executed at an estimated cost

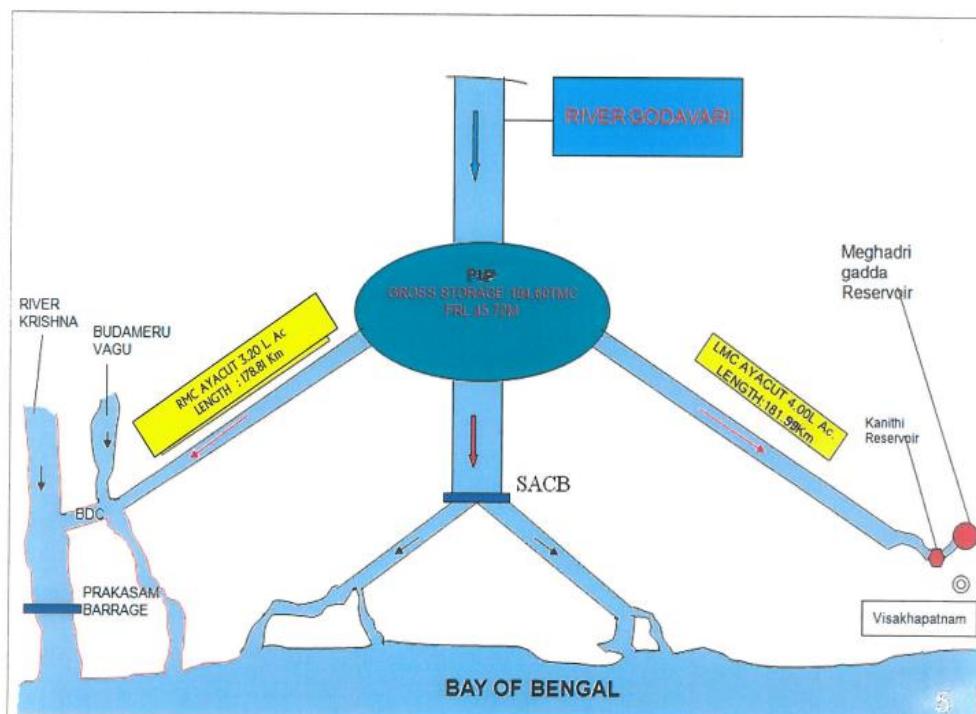
of Rs. 3,013.68 Cr (at 2010-11 price level), and a leveled tariff of Rs. 3.17/Kwh considering mega status to Project. Vide letter No. 30118/2018/HPC/198 to 200 dated 06.02.2019, the revised cost of E&M work has been vetted by CEA for Rs. 2,613.36 Cr at 2017-18 price level with a leveled tariff of Rs. 4.61/Kwh. Salient features of the power house at 2017-18 price level is presented in Table 3.

**Table 3: Salient features of the Power House**

1	Capacity	$12 \times 80 \text{ MW} = 960 \text{ MW}$
2	Type of Turbine	<i>Vertical Kaplan adjustable blade</i>
3	Design head	27 m
4	MDDL	41.15 m
5	Normal TWL (12 units discharge)	18.20 m
6	Discharge per Unit	331 Cumecs
7	Power Project Cost	
	E&M Works	Rs. 2,613.36 Cr
	Civil Works	Rs. 1,511.28 Cr
	Total Project Cost	Rs. 4,124.64 Cr (2017-18 price level)
8	Designed Energy of operation	2,308.41 MU in the First year and 431.27 MU in Final (35 <sup>th</sup> ) year
9	Levelized Tariff	461 Paise/Kwh

The Line diagram, Index map and Command area of RMC & LMC of Polavaram Irrigation Project are shown at Figure- 4, 4 (a) and 4 (b).

**LINE DIAGRAM OF POLAVARAM IRRIGATION PROJECT**



**Figure- 4: Line Diagram of Polavaram Irrigation Project**

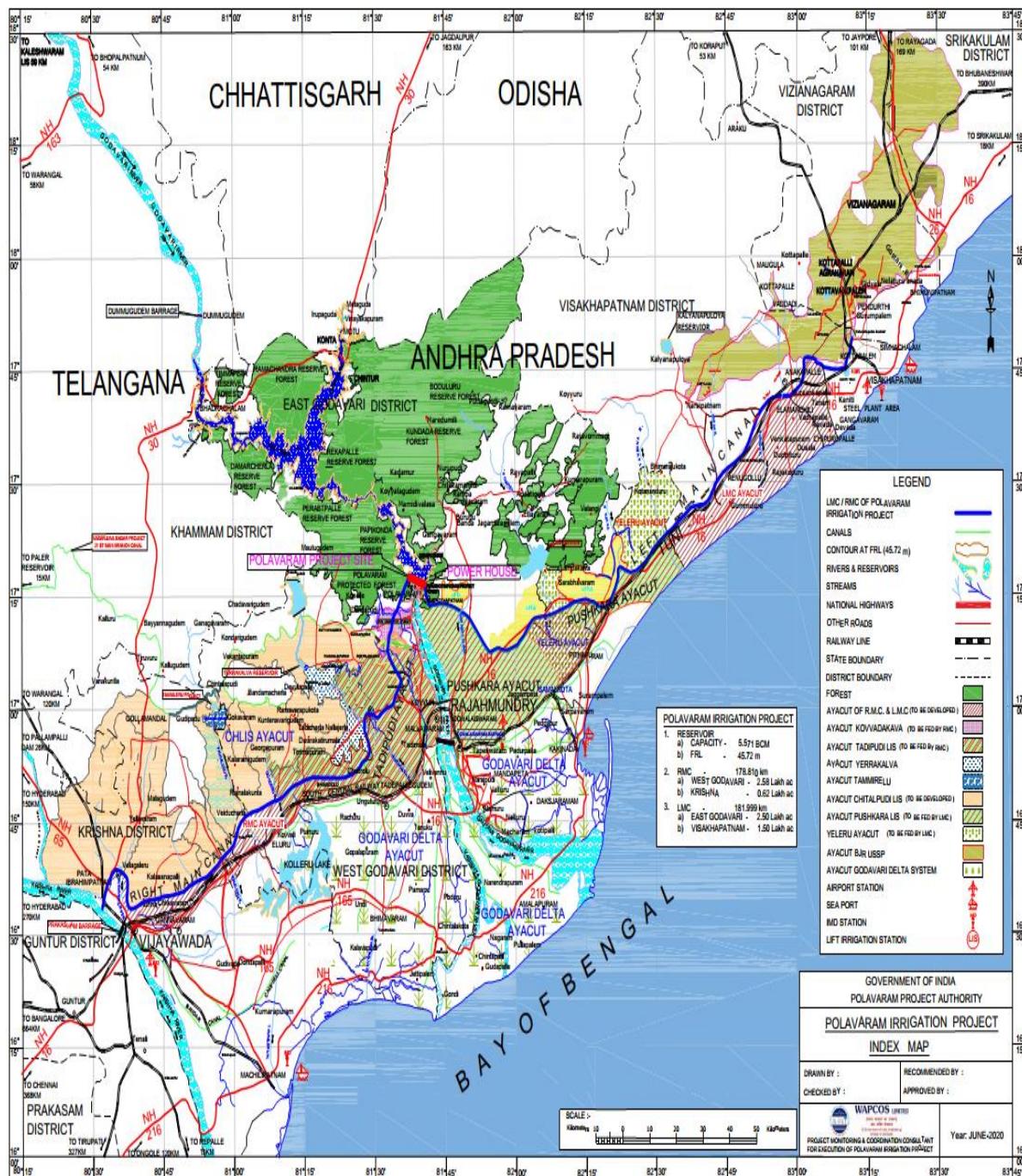


Figure- 4 (a): Index map of Polavaram Irrigation Project

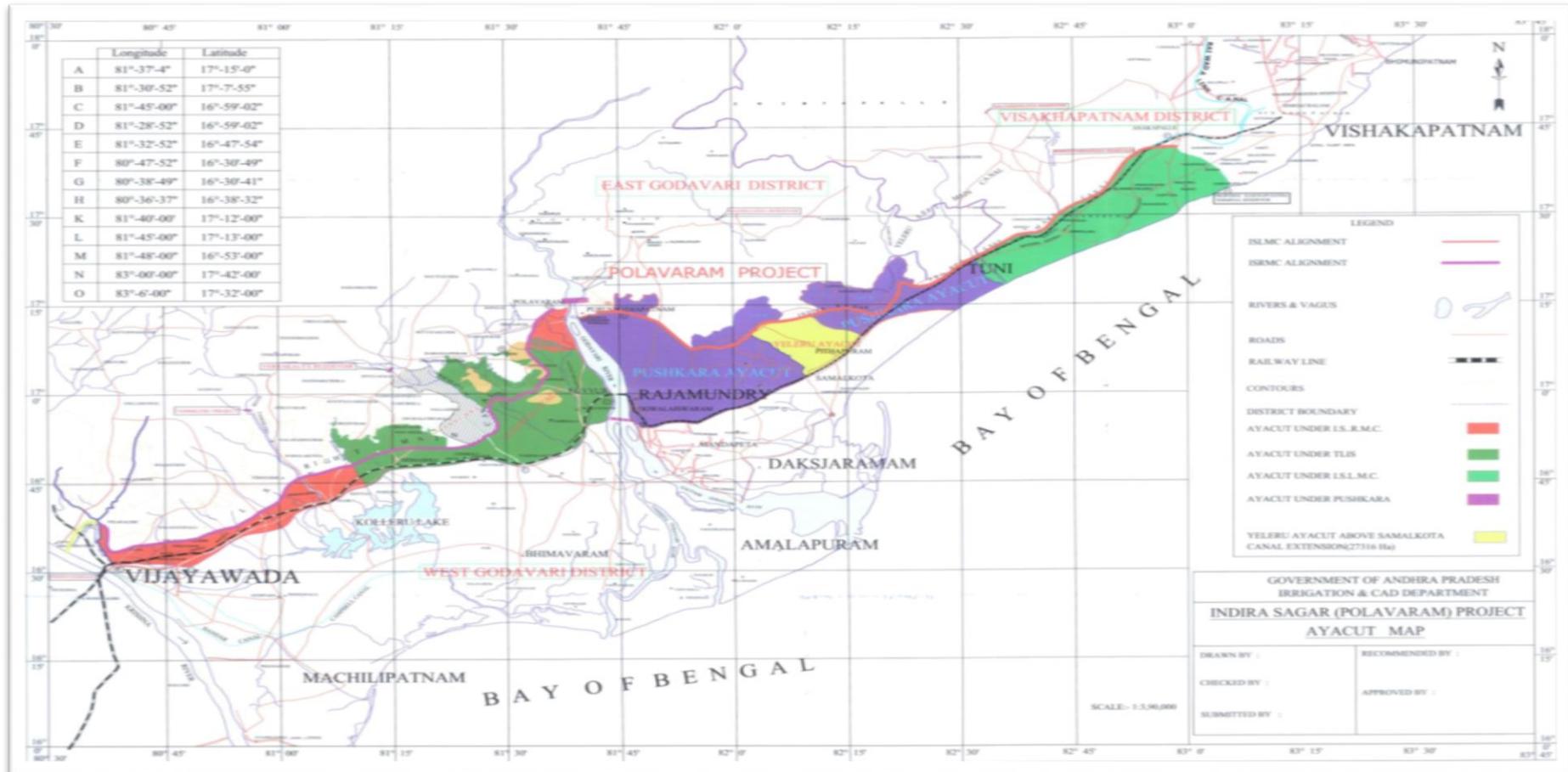


Figure- 4 (b): Command area of RMC & LMC of Polavaram Irrigation Project

## CHAPTER-2

### **POLAVARAM IRRIGATION PROJECT AS A NATIONAL PROJECT**

#### **2.1 Provisions of Andhra Pradesh Reorganisation Act, 2014**

The Andhra Pradesh Reorganisation Act (APRA), 2014 declared the Polavaram Irrigation Project as a National Project under Section 90 and also declared that it is expedient in the public interest that the Union should take under its control the regulation and development of the Polavaram Irrigation Project for the purposes of irrigation.

In pursuance of the AP Reorganisation Act, 2014, the Central Government constituted the Governing Body to Polavaram Project Authority and the Polavaram Project Authority vide Extraordinary Gazette Notification No. 129 dated 28<sup>th</sup> May, 2014. The relevant clause of the Notification states as follows:

*'Whereas the Andhra Pradesh Reorganisation Act, 2014 (6 of 2014- hereinafter referred to as the Act) declares Polavaram Irrigation Project to be a national project [under Sub-section (1) of Section 90] and it is expedient in the public interest that the Union should take under its control the regulation and development of the Polavaram Irrigation Project for the purposes of irrigation [under Sub-section (2) of Section 90];*

*And whereas under Sub-section (4) of Section 90 of the Act mandates that the Central Government shall execute the project and obtain all requisite clearances including environmental, forests, and rehabilitation and resettlement norms';*

#### **2.2 Governing Body to Polavaram Project Authority**

The constitution of the Governing Body to the Polavaram Project Authority is tabulated in Table 4.

**Table 4: Constitution of Governing Body**

1	The Secretary to the Government of India, Ministry of Water Resources	Chairperson
2	The Chief Secretary to the Government of Andhra Pradesh	Member
3	The Chief Secretary to the Government of Telangana	Member
4	The Secretaries to the Government of India, Ministries of Environment and Forest, Finance (Dept. of Expenditure), Power and Tribal Welfare (or their nominee(s) not below the rank of Joint Secretary)	Members
5	The Chief Executive Officer, Polavaram Project Authority	Member
6	A representative of Planning Commission (not below the rank of Joint Secretary)	Member
7	Member Secretary, Polavaram Project Authority	Member Secretary

### **2.2.1 Powers, functions and duties of the Governing Body**

- i) The Governing Body to the Polavaram Project Authority shall be charged with the power and shall be under a duty to do any or all things necessary, sufficient and expedient for obtaining all requisite clearances including environmental, forests, and rehabilitation and resettlement norms and regulation and development of the Polavaram Project.
- ii) The power, functions and duties of the Governing Body may include –
  - a) Supervision of the functioning of the Polavaram Project Authority;
  - b) Expediting the statutory clearances from the Ministry of Environment and Forests and investment clearance from the Planning Commission;
  - c) Finalisation of phasing and construction programmes of the Polavaram Project with view to obtaining expeditiously optimum benefits during and after completion of the construction of the project in accordance with decision of Godavari Water Disputes Tribunal related to Polavaram project and conditionality of statutory clearances;
  - d) Deciding about organizational structure of the Authority and delegation of powers to the Chief Executive Officer and other Members and Officers of the Authority.

### **2.3 Polavaram Project Authority (PPA)**

The Polavaram Project Authority consists of a Chief Executive Officer (CEO) and eleven Members as shown in Table 5.

**Table 5: Structure of PPA**

i.	The Chief Executive Officer	Chairman
ii.	The Principal Secretary or Secretary of Irrigation or Water Resources Department of the successor State of Telangana	Member
iii.	The Principal Secretary or Secretary of Irrigation or Water Resources Department of the successor State of Andhra Pradesh	Member
iv.	Two Chief Engineers (Senior Administrative Grade), one each from Central Water Engineering (Group 'A') Service and Central Power Engineering (Group 'A') Service to be in-charge of Planning and Design and Power Wing respectively.	Members
v.	Three Chief Engineers to be deputed by the State Government to be in- charge of the works for the Dam and appurtenant structures, Power House and associated works and Canal system	Members
vi.	Commissioner in-charge of Land Acquisition and Rehabilitation of States of Andhra Pradesh and Telangana	Members
vii.	Financial Adviser, Ministry of Water Resources	Member
viii.	One Chief Engineer (Senior Administrative Grade) from Central Water Engineering (Group 'A') Service	Member-Secretary

- (i) The Chief Executive Officer and members at serial number (iv), (v) and (viii) shall be posted to the Authority on full time basis by the Central Government or the State Government, as the case may be.
- (ii) The Chief Executive Officer shall be appointed by the Central Government from amongst Officers empanelled for the post of Additional Secretary to the Government of India with a fixed tenure of at least three years and he shall be in-charge of the Authority under the general supervision and control of the Governing Body.
- (iii) The Chief Executive Officer shall have all the administrative, financial and work powers as available to the Head of the Department in the Central Government.

### **2.3.1 Officers and staff of the Authority**

- a) The Authority may from time to time appoint or employ such officers and employees as it thinks fit. All such officers and employees shall be subject to the sole control of the Authority.
- b) The Authority may with the previous approval of the Central Government, make regulations to regulate conditions of service of all such officers and employees in respect of residential accommodation, house rent allowance, travelling allowance, daily allowance, conveyance allowance and medical reimbursement.
- c) The scales of pay, allowances (including project allowance) and other service conditions shall be as applicable to Central Government employees.
- d) The Authority shall arrange with the State Government to spare the services of the persons employed in the State Governments of Andhra Pradesh and Telangana for whole-time employment with the Authority, or for the performance of any work or services for the Authority, and in that case, the scales of pay, allowances (including project allowance) and other service conditions of such employees may be as applicable to concerned State Government employees.
- e) The personnel, which immediately before the notification of the Authority, was working on the Polavaram Project on regular basis, shall continue to work on the project after notification and would be deemed to be on deputation to the Authority till the Authority makes alternate arrangement, if so considered necessary.
- f) All the posts of the Authority shall be exempted from the rule of immediate absorption for appointment in the Authority.

### **2.3.2 Powers, functions and duties of the Authority**

- a) The Authority shall execute the project, preferably through the concerned State Departments and/ or any other expert agency, and obtain all requisite clearances including environmental, forests, and rehabilitation and resettlement norms and shall be charged with the regulation and development of the Polavaram Project.
- b) The Authority shall issue appropriate directions, whenever necessary for timely and full compliance by the concerned States in the matter of acquisition for and making available to Authority lands and properties likely to be submerged under the Polavaram Project and in the matter of compensation and rehabilitation of oustees there under.

- c) The Authority shall cause to be established, maintained and operated by the State Government(s) concerned or Central Water Commission, such stream and other gauging evaporation observation stations and measuring devices as may be necessary from time to time for securing the records required to implement the provisions of the orders of the Godavari Water Disputes Tribunal with regard to Polavaram Project.
- d) The Authority shall frame rules for water accounting to implement and supplement the provisions of the Award of the Godavari Water Disputes Tribunal.
- e) The Authority shall regulate distribution of power generated from the Polavaram project amongst the States, as notified by the Ministry of Power.
- f) The Authority shall determine the volume of water stored, flowing in and out of the Polavaram reservoir, and the volume of water utilized through each Main or Branch head works, evaporation and seepage losses on ten daily basis in a water year (1<sup>st</sup> June of a year to 31<sup>st</sup> May of next).
- g) The Authority or any of its duly authorized representatives shall have power to enter upon any land and property upon which any work of gauging, evaporation or other hydrological station or measuring device has been or is being constructed, operated or maintained by any State for the use of Polavaram water and each State through its appropriate departments shall render all cooperation and assistance to the Authority and its authorized representatives in this behalf.
- h) The Authority shall meet as often as necessary and decide on a proper management of waters including in particular the manner and details of withdrawals of waters from Polavaram reservoir in accordance with the orders of the Godavari Water Disputes Tribunal.
- i) The Authority shall issue appropriate directions for establishment, maintenance and operation of an effective system of flood forecasting and flood control including reporting of heavy precipitation and telecommunication systems and the Authority shall publish annually and make available to party States the data regarding operation of reservoirs during floods.
- j) The Authority shall also perform any other function as directed by the Governing Body and the Central Government from time to time.

### **2.3.3 Present arrangement for execution of PIP**

As per F. No. 1(2)/PF-1/2014(Pt) dated 30.09.2016, Department of Expenditure, Ministry of Finance issued office memorandum that inter alia states as under;

*"In view of the recommendations of the Vice-Chairman NITI Aayog that it will be appropriate for the State of Andhra Pradesh to execute this project (as it is an important project and the State Government is keen to complete it at the earliest), the*

*Government of India has agreed to the State's request for the execution to the project by the State Government on behalf of the Government of India".*

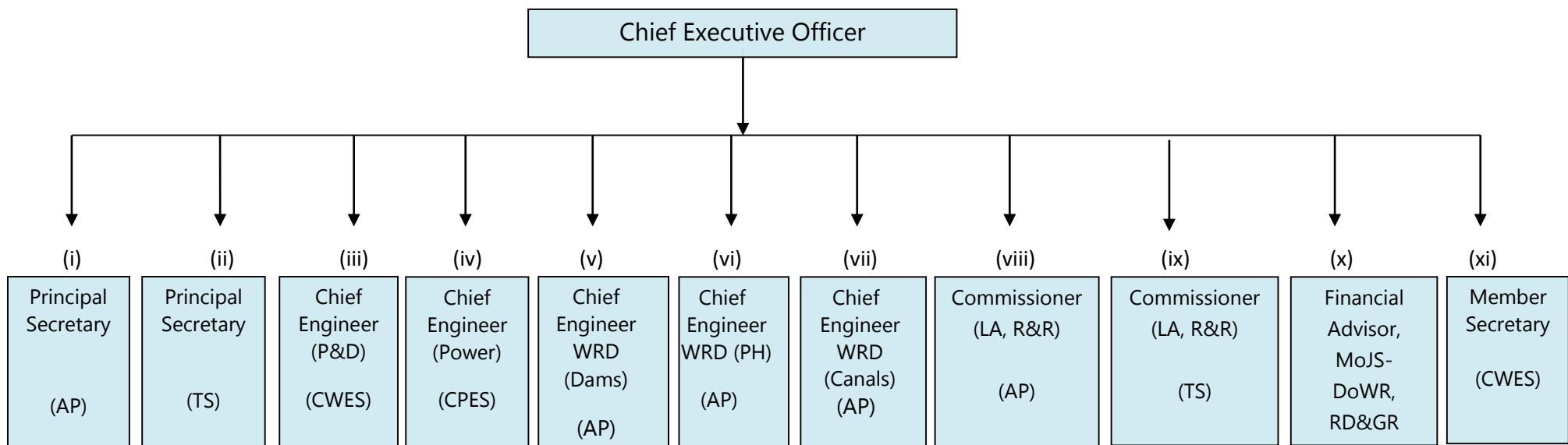
Accordingly, Government of Andhra Pradesh is executing the civil works (Irrigation component only) and LA and R&R works of PIP on behalf of Government of India.

### 2.3.4 Organisational Structure of PPA

The organisational structure of the office of the Chief Executive Officer, Polavaram Project Authority is as follows:

Sl. No.	Designation	Posted from
i	Chief Executive Officer	Central Govt. from amongst officers empanelled for the post of Additional Secretary to Government of India.
ii	Chief Engineer (Planning & Design)	CWES
iii	Chief Engineer (Power)	CPES
iv	Chief Engineer (Dams)	Government of AP
v	Chief Engineer (Canals)	Government of AP
vi	Chief Engineer (Power House)	Government of AP
vii	Member Secretary	CWES

## Structure of Polavaram Project Authority



**Note:** The Chief Executive Officer and Members at column number (iii), (iv), (v), (vi), (vii) and (xi) are posted to the Authority on full time basis from the Central Government or the State Government, as the case may be. However, as the project is being executed through State Government, only officers/members at serial number (iii), (iv) and (xi) are posted to the Authority on full time basis.

### **2.3.5 Incumbency Status during the year 2023-24**

The incumbency status during the year 2023-24 is shown below :

<b>Sl. No.</b>	<b>Name of the Officer (Shri/Smt)</b>	<b>Period</b>	
		<b>From</b>	<b>To</b>
<b>I</b>	<b>Chief Executive Officer</b>		
1	Shiv Nandan Kumar	01.04.2023	31.03.2024
<b>II</b>	<b>Member Secretary</b>		
1	M. Raghu ram	01.04.2023	31.03.2024
<b>III</b>	<b>Chief Engineer (P&amp;D)</b>		
1	Rajesh Kumar	01.04.2023	31.03.2024
<b>IV</b>	<b>Chief Engineer (Power)</b>		
1	C. Venkata Subbaiah	01.04.2023	31.03.2024

Monitoring & Appraisal (Andhra Pradesh) Directorate of Central Water Commission functioning under administrative control of KGBO, Hyderabad is providing assistance to Polavaram Project Authority as per CWC office order dated 25.09.2018.

In addition to the above, two Deputy Executive Engineers and Seven Assistant Executive Engineers (on diversion basis) from the Water Resources Department, GoAP have been diverted to work in PPA, Hyderabad.

### **2.4 Meetings of the Polavaram Project Authority**

The Sixteenth meeting of the Polavaram Project Authority (PPA) was held on 29<sup>th</sup> January, 2024 under the Chairmanship of Shri Shiv Nandan Kumar, CEO, PPA wherein various technical, administration and financial matters were discussed. Important issues discussed are as follows:

- Presentation on Programme & Progress of the project
- Status of deleted and yet to be awarded contracts
- Shifting of Head Quarters of PPA
- MoU between PPA and WRD, GoAP
- Lifting of stop work order by MOEF & CC
- Ratification of expenditure of PPA for FY 2022-2023
- Compliance to PAG audit for FY 2014-15 to 2020-21
- Organizational structure of PPA
- Inter-State Issues with Telangana

## CHAPTER-3

### POLAVARAM IRRIGATION PROJECT- COST, CLEARANCES & OTHER ASPECTS

#### **3.1 Estimated Cost of the Project**

The project proposal of Polavaram Irrigation Project (Indira Sagar Polavaram Project) was considered and accepted by the Advisory Committee of MoWR on Irrigation, Flood Control & Multipurpose Projects in its meeting held on 20.01.2009 for Rs. 10,151.04 Cr at price level 2005-06. The project was accorded investment clearance by the Planning Commission for Rs. 10,151.04 Cr at 2005-06 price level on 25.02.2009.

The estimated cost of the project was revised to Rs. 16,010.45 Cr at 2010-11 price level, and the same was accepted by the Advisory Committee of MoWR in its 108<sup>th</sup> meeting held on 04.01.2011. The investment clearance for the revised cost estimate of Rs. 16,010.45 Cr (2010-11 price level) was accorded by MoWR, RD & GR in the 5<sup>th</sup> meeting of Investment Clearance Committee of MoWR, RD & GR held on 10.02.2017 in New Delhi and communicated in letter No. P.20011/2/2016-SPR/947-58 dated 08.05.2017. The Second Revised Cost Estimate has been examined in CWC and was placed before Advisory Committee of MoWR, RD & GR in its 141<sup>st</sup> meeting held on 11.02.2019. The same was accepted by the Advisory Committee of MoWR, RD & GR for an amount of Rs. 55,548.87 Cr at price level 2017-18. The Advisory Committee also noted that the Revised Cost Estimate of Polavaram Irrigation Project for Unit-I i.e. Head works and Unit-II i.e RMC, LMC & Water Supply Component (WSC) at 2013-14 price level based on the quantities approved in Advisory Committee meeting held on 04.01.2011 is Rs. 27,081.62 Cr.

The Revised Cost Committee (RCC) was constituted under the chairmanship of JS & FA, DoWR, RD & GR on 02.04.2019 to examine the cost escalation of Polavaram Irrigation Project. The Committee has submitted its report to MoJS in March 2020 which was received by PPA subsequently. As per the RCC Report, estimated cost of the project is Rs. 29,027.95 Cr at 2013-14 price level and Rs. 47,725.75 Cr at 2017-18 price level.

The estimated cost by the 141<sup>st</sup> TAC and Revised Cost Committee at 2013-14 price level and at 2017-18 price level is given in Table 6:

**Table 6: Estimated cost at 2013-14 Price Level and 2017-18 Price Level**

Sl. No.	Item	Estimated Cost (Rs. in Cr)			
		2013-14 Price Level		2017-18 Price Level	
		As per 141 <sup>st</sup> TAC	As recommended by the Revised Cost Committee	As per 141 <sup>st</sup> TAC	As recommend ed by the Revised Cost Committee
1	Land	5,937.99	5,035.05	13,077.15	10,199.67
2	R&R	7,915.62	7,278.85	20,091.09	17,972.54

3	Works				
a.	Head works	8,969.46	8,818.21	9,734.34	9,734.34
b.	Left Main Canal	2,373.08	2,373.07	4,202.69	2,720.80
c.	Right Main Canal	1,885.44	1,885.43	4,318.97	2,865.75
4	Power House	3,529.34	3,529.33	4,124.64	4,124.64
<b>Total Estimated Cost</b>		<b>30,610.87</b>	<b>28,919.95</b>	<b>55,548.87</b>	<b>47,617.74</b>
5	Cost towards PPA	108.00	108.00	108.00	108.00
<b>Total Cost</b>		<b>30,718.95</b>	<b>29,027.95</b>	<b>55,656.87</b>	<b>47,725.74</b>

Ministry of Finance vide OM No-10(04) PFC-1/2023 dated 05.06.2023 informed that department has no objection to additional funding for completing the balance work of Polavaram Irrigation Project for filling of water up to +41.15 meters amounting to Rs. 10,911.15 Cr and Rs. 2,000.00 Cr for cost of repairing damages caused to Polavaram Irrigation Project by flood being considered by the Government of India, subject to the approval of the Cabinet, by modifying the earlier Cabinet decision.

Government of Andhra Pradesh furnished Revised Cost Estimate for Phase-I of the project (with water storage up to +41.15 m - MDDL) to CWC for an amount of Rs. 36,449.83 Cr. CWC forwarded the RCE for Phase I of the Project to MoJS for an amount of Rs. 31,625.38 Cr.

The Revised Cost Committee (RCC) was constituted under the Chairmanship of JS & FA, DoWR, RD & GR on 19.10.2023 to examine the cost for Phase I of the Project. The Committee vide its report February 2024 recommended the cost of the Phase I of the Project as Rs. 30,436.95 Cr at March 2023 price level. Public Investment Board (PIB) appraised the cost of the phase-I of the project as Rs. 30,436.95 Cr in its meeting held on 29.02.2024 and recommended the central grant for the project to be Rs. 12,157.53 Cr.

The estimated cost of Phase-I of the project by CWC and Revised Cost Committee at March 2023 price level is given in Table 7:

**Table 7: Estimated cost of Phase-I of the Project at March 2023 Price Level**

Sl. No.	Item	Estimated Cost (Rs. in Cr)	
		Estimates by CWC	As recommended by the Revised Cost Committee
1	Land	5,268.53	4,853.22
2	R&R	7,556.31	7,417.20
3	Works		
a.	Head works	14,245.50	14,023.19
b.	Left Main Canal	2,247.73	1,955.23
c.	Right Main Canal	1,931.65	1,812.45
<b>Total Estimated Cost for Phase I</b>		<b>31,249.72</b>	<b>30,061.29</b>
4	Establishment for PPA	375.66	375.66
<b>Total Cost</b>		<b>31,625.38</b>	<b>30,436.95</b>

### 3.2 Central Assistance released to Polavaram Irrigation Project

- (a) Project under AIBP:** The construction of the project started in the year 2004-05. It was included under AIBP during the year 2008-09. Central Assistance of Rs. 562.47 Cr was provided to the State under AIBP till March 2014.
- (b) National Project:** After declaration of Polavaram project as National Project in the year 2014, total amount released as central assistance for Polavaram Irrigation Project is as under:

#### Funds released by Government of India to Polavaram Project

Financial Year	Release to Polavaram Project Authority (PPA) / Government of Andhra Pradesh (GoAP) (Rs. in Cr)
Before 01.04.2014	562.47
2014-15	250.00
2015-16	600.00
2016-17	2,514.16
2017-18	2,000.00
2018-19	1,400.00
2019-20	1,850.00
2020-21	2,234.20
2021-22	1,898.80
2022-23	1,671.233
2023-24	727.878
<b>Total</b>	<b>15,708.74*</b>

\*Includes Rs. 177.29 Cr towards establishment expenditure of PPA.

### 3.3 Details of Statutory & other Clearances

Table 8 lists the clearances issued by various agencies over the period.

**Table 8: List of Statutory & other Clearances**

Sl. No.	Clearance	Name of Ministry / Orgn.	Letter No.	Stage of clearance
1	Site Clearance	MoEF	No.J/12011/18/2004- IA.1 Dt:19.09.2005	Accorded by MoEF on 19.09.2005
2	Environmental Clearance	MoEF	No.J/12011/74/2005- IA.1 Dt:25.10.2005	Accorded by MoEF on 25.10.2005
3	Wild Life Clearance	NBWL	File No: 6-3/2003 WL-I(pt), Dt: 06.07.2006	Permission granted by NBWL on 06.07.2006

4	R & R Clearance	MoTA	File No: 20011/15/205CP&R(N GO)Dt17.04.2007	Accorded by MoTA on 17.04.2007
5	Permission for diversion of Reserve Forest Land pertaining to Papikonda Wild Life Sanctuary	Hon'ble Supreme Court	Hon'ble Supreme court orders in I.A.No.1572 & 1578/2006 in WP(C) No. 202/1995	Permission accorded by Hon'ble Supreme Court on 19.09.2008
6	Forest Clearance (Stage-1)	MoEF	File No:8-123/2005– F.C Dt:26.12.2008	Accorded by MoEF on 26.12.2008
7	Advisory Committee on Irrigation, Flood Control and Multi-purpose projects	MoWR	Lr.No:16/27/2008PA(N) /275-309Dt: 23.01.2009	Accepted by CWC on 20.01.2009
8	Investment Clearance	Planning Commission	File No:2(168)/2004-WR, Dt: 25.02.2009	Accorded by Planning Commission on 25.02.2009
9	EAC Clearance	MoEF	Lr.No.J-12011/74/2005 -IA.1, Dt: 09.03.2009	Accorded by MoEF on 17.2.2009
10	Forest Clearance (Final)	MoEF	File No:8-123/2005– F.C Dt:28.07.2010	Accorded by MoEF on 28.07.2010
11	1 <sup>st</sup> Revised Cost Estimate	MoWR	Lr.No:16/27/2010PA(N) /95-128 Dt: 21.01.2011	Accepted on 04.01.2011
12	Investment Clearance for the Revised cost of Rs16,010.45 (2010-11 Price Level)	MoWR, RD&GR	No.P20011/2/2016-SPR /947-58, Dt:08.05.2017	Accorded by Investment Clearance Committee of MoWR, RD & GR in its 5 <sup>th</sup> meeting held on 10.02.17 in New Delhi
13	2 <sup>nd</sup> Revised Cost Estimate at 2017-18 Price Level	CWC	Lr.No.16/27/2019PA(N) /583-611Dt: 18.02.2019	Accepted by Advisory Committee of MoWR, RD & GR
14	Revised Cost Committee	DoWR, RD&GR, MoJS	DoWR, RD & GR OM no.P.101/1/1/2016/Polavaram/SPR-1/318-27 dated 02.04.2019	Committee submitted the report in March, 2020
15	Revised Cost Committee for PIP Phase (I)	DoWR, RD&GR, MoJS	DoWR, RD & GR OM no.P.30028/2/2023-O/o SJC(SPR-I)-MoWR dated 19.10.2023	Committee submitted the report in February 2024

### 3.4 Inter-State Agreement

- (a) Agreement with the States of Odisha and Madhya Pradesh was reached by the State of Andhra Pradesh for submergence of areas in those States on 02.04.1980. The clause-3 of the agreement indicate the operation schedules agreed upon by the party

States i.e., the pond levels to be regulated as provided in the agreement corresponding to the inflows into the reservoir.

(b) The excerpt from Clause – 4 of the agreement is presented below:

*"In order to protect the lands and properties above RL+150 ft in the territory of the State of Odisha likely to be affected due to construction of Polavaram Project, protective embankments with adequate drainage sluices, shall be constructed and maintained at the cost of Polavaram Project. However, the State of Odisha may exercise an option at the time of construction of Polavaram Project for the compensation to land and property likely to be affected above RL +150 ft as agreed to in the case of the State of Madhya Pradesh."*

### **3.5 Relevant provisions for design & operation under the GWDT Award, 1980**

The Interstate Agreement dated 2<sup>nd</sup> April, 1980 is made part of the GWDT award. The GWDT directed in Clause – VI of their final orders that:

- The Polavaram Project shall be cleared by the CWC as expeditiously as possible for FRL / MWL of + 150 ft.
- The matter of the design of the dam and its operation schedule is left to the CWC which shall decide keeping in view all the arrangements including the Agreement dated 2<sup>nd</sup> April, 1980 as far as practicable.
- If there is to be any change in the operation schedule as indicated in Agreement date 2<sup>nd</sup> April, 1980 it shall be made only after consultation with the States of Andhra Pradesh, Madhya Pradesh and Odisha. The design aspects shall however be left entirely to CWC.

### **3.6 Status of Court Cases**

The Present status of Court cases relating to the project is given in Table 9.

**Table 9: Status of Court Cases (as on 31.03.2024)**

<b>Sl. No.</b>	<b>Case No</b>	<b>Name of the Petitioner (s)</b>	<b>Name of the Respondent (s)</b>	<b>Name of the Court</b>	<b>Status of the case</b>	<b>Remarks</b>
<b>(i)</b>	<b>(ii)</b>	<b>(iii)</b>	<b>(iv)</b>	<b>(v)</b>	<b>(vi)</b>	<b>(vii)</b>
1	Original Suit 4/ 2007	State of Odisha	1. Govt. of AP 2. MoWR 3. MoEF 4. MoTA	Supreme Court of India	Last listed on 21-02-2023. Further listing is awaited.	Case related to Back water study & Environment clearance given by MoEF.
	I.A. No. 105699/ 2018 in O.S. 4/2007	State of Odisha	Govt. of AP	Supreme Court of India	Last listed on 21.02.2023. Further listing is awaited.	Quashing of office memorandum given by MoEF on 10.07.2018 vide which order of stop work at PIP is kept in abeyance for one more year.
2	Original Suit 3/ 2011	State of Chhattisgarh	1. Govt. of AP 2. MoWR, 3. MoTA 4. CWC	Supreme Court of India	Last listed on 21-02-2023. Further listing is awaited.	Related to clearances given by central agencies. Case is similar/related to OS 4/2007.
3	O.S. No. 1/2019 with interlocutory Application No. 41300& 41306 of 2019	State of Telangana	1. Union of India 2. State of AP 3. State of Odisha 4. State of Chhattisgarh 5. State of Karnataka 6. State of Maharashtra	Supreme Court of India	Last listed on 21-02-2023. Further listing is awaited.	Case related to back water study, submergence in Telangana.

<b>Sl. No.</b>	<b>Case No</b>	<b>Name of the Petitioner (s)</b>	<b>Name of the Respondent (s)</b>	<b>Name of the Court</b>	<b>Status of the case</b>	<b>Remarks</b>
<b>(i)</b>	<b>(ii)</b>	<b>(iii)</b>	<b>(iv)</b>	<b>(v)</b>	<b>(vi)</b>	<b>(vii)</b>
4	W.P(C) No. 459/2011	Smt K. Kavitha, President Telangana Jagruthi, NGO	1. MoEF 2. State of A.P 3. CWC 4. Ministry of Social Justice & Empowerment Tribal Affairs	Supreme Court of India	Disposed 03.10.2023	on Case is similar/related to OS 4/2007.
5	W.P No. 144/2006	Dr. Brahmadev Sarma	1. Union of India 2. MoEF 3. MoTA 4. CWC and others	Supreme Court of India	Last listed 15.02.2018. Further listing is awaited	on Listed along with WP 65/2017. Case is similar/related to OS 4/2007.
6	W.P No. 65/2017	RELA (Readiness for Empowerment through Legitimate Action)	1. MoWR, RD & GR 2. PPA and others	Supreme Court of India	Last listed 15.02.2018. Further listing is awaited.	on Case is related to R & R issues of PDFs, Fundamental laws of Tribals etc.,
7	W.P (C) No. 132/2018	Shri Ponguleti Sudhakar Reddy	MoWR, RD & GR and others	Supreme Court of India	Last Listed on 22.08.2023. Further listing is awaited.	on Case is related to AP Reorganisation Act.
8	Civil Appeal No. 2630/2018	RELA	1. MoEF & CC 2. PPA	Supreme Court of India	Last listed on 21-02-2023. Further listing is awaited.	Case is listed along with OS No: 04/2007.

<b>Sl. No.</b>	<b>Case No</b>	<b>Name of the Petitioner (s)</b>	<b>Name of the Respondent (s)</b>	<b>Name of the Court</b>	<b>Status of the case</b>	<b>Remarks</b>
<b>(i)</b>	<b>(ii)</b>	<b>(iii)</b>	<b>(iv)</b>	<b>(v)</b>	<b>(vi)</b>	<b>(vii)</b>
9	W.P (PIL) No. 299 /2017	Dr. KVP Ram Chandra Rao.	1. MoWR, RD & GR 2. PPA and others	High Court of Andhra Pradesh	Last listed on 31.01.2023. Further listing is awaited.	Case related to cost of project restricted to as on 01.01.2014 and progress of project.
10	W.P (PIL) No. 47/2018	SAKTI (Search for Action Knowledge Tribal Initiative)	1. MoWR, RD & GR, 2. PPA and others	High Court of Andhra Pradesh	Last listed on 17.04.2020. Further listing is awaited	Case related to Land Acquisition, misappropriation of money and violation of the constitutional provisions.
11	W.P No. 17677/ 2015	Shri Angadala Mohan Rao and others	PPA and others	High Court of Andhra Pradesh	Last Listed on 25.11.2022. Further listing is awaited.	Related to land acquisition & Land acquisition notice issued by GoAP for stretch from Km 143.600 to 144.340 of RMC.
12	W.P No. 4886/ 2019	Shri Talluri Rahul Reddy	PPA and others	High Court of Andhra Pradesh	Last listed on 09.04.2019. Further listing is awaited.	Related to land acquisition & R & R packages.
13	W.P No. 3419/ 2021	M/s Transstroy	1. APGENCO 2. PPA & others	High Court of Andhra Pradesh	Last Listed on 24.03.2022. Further listing pending	Case is related to contract issues.

<b>Sl. No.</b>	<b>Case No</b>	<b>Name of the Petitioner (s)</b>	<b>Name of the Respondent (s)</b>	<b>Name of the Court</b>	<b>Status of the case</b>	<b>Remarks</b>
<b>(i)</b>	<b>(ii)</b>	<b>(iii)</b>	<b>(iv)</b>	<b>(v)</b>	<b>(vi)</b>	<b>(vii)</b>
14	W.P(PIL) No. 56/2021	SAKTI, NGO (Search for Action Knowledge Tribal Initiative). Dr P Sivaramakrishna, Hyderabad	1. MoWR, RD &GR 2. MoTA 3. PPA & others	High Court of Andhra Pradesh	Last Listed on 02.02.2022. Further listing is awaited.	Case is related to Displacing the people by force under the Indira Sagar (Polavaram) Project in Andhra Pradesh.
15	W.P. 42200/2022	Shri V. Ramesh Chandra Varma	1. MoH 2. PPA 3. MoJS	High Court of Andhra Pradesh	Last listed on 13.04.2023. Further listing is awaited.	Case is related to Revised Estimate cost of R & R and Land Acquisition of the PIP amounting to Rs. 28,172.21 Cr at 2017-18 price level as approved by the Ministry of finance.
16	Civil Appeal 9015/2022	Dr. PentapatiPulla Rao	1. MoEF &CC 2. MoWR, RD & GR 3. PPA &others	Supreme Court of India	Last listed on 04.03.2024. Further listed on 05.04.2024.	Challenging the final order of the judgement dated 17.10.2022 in Original Application No. 120/2022 passed by the Hon'ble National Green Tribunal, Principal Bench at New Delhi.
17	Dairy.No. 9140/2022	Chief Secretary, WRD, GoAP	1. Dr. PentapatiPulla Rao 2. MOEF&CC 3. MoWR, RD & GR 4. CPCB 5. PPA	Supreme Court of India	Last listed on 04.03.2024 Further listed on 05.04.2024.	Challenging the final order of the judgement dated 02.12.2021 in Original Application No.857/2018 passed by the Hon'ble National Green Tribunal, Principal Bench at New Delhi.

<b>Sl. No.</b>	<b>Case No</b>	<b>Name of the Petitioner (s)</b>	<b>Name of the Respondent (s)</b>	<b>Name of the Court</b>	<b>Status of the case</b>	<b>Remarks</b>
<b>(i)</b>	<b>(ii)</b>	<b>(iii)</b>	<b>(iv)</b>	<b>(v)</b>	<b>(vi)</b>	<b>(vii)</b>
18	Civil Appeal. No. 3792-3793 /2022	Chief Secretary, WRD, GoAP	1 to 2. Private Persons 3. MoEF 4 to 5. Private Persons 6. MoWR, RD & GR 7. PPA 8. Department of Land Resources 9. MoTA	Supreme Court of India	Last listed on 04.03.2024.  Further listed on 05.04.2024.	Case is related to Challenging the final order of the judgement dated 02.12.2021 in Original Application No.175 /2018 & Original Application No.350/ 2018 passed by the Hon'ble National Green Tribunal, Principal Bench at New Delhi.
19	Civil Appeal No. 3863/2022	The State of Andhra Pradesh	1. Private Person 2. Union of India 3. Union of India 4. NWDA 5. KGBO 6. Principal Conservator of Forests. 7. NMC 8. Monitoring Committee, PIP 9. State of Telangana 10. State of Odisha 11. State of Karnataka 12 State of Chhattisgarh	Supreme Court of India	Last listed on 04.03.2024.  Further listed on 05.04.2024.	Challenging the final order of the judgement dated 02.12.2021 in Original Application No.48/2019 passed by the Hon'ble National Green Tribunal, Principal Bench at New Delhi.

<b>Sl. No.</b>	<b>Case No</b>	<b>Name of the Petitioner (s)</b>	<b>Name of the Respondent (s)</b>	<b>Name of the Court</b>	<b>Status of the case</b>	<b>Remarks</b>
<b>(i)</b>	<b>(ii)</b>	<b>(iii)</b>	<b>(iv)</b>	<b>(v)</b>	<b>(vi)</b>	<b>(vii)</b>
20	W.P (PIL) No. 26 / 2024	Shri V. Ramesh Chandra Varma	1. Union of India, Ministry of Home Affairs 2. MoJS 3. PPA 4. NDSA 5. State of Andhra Pradesh by its Chief Secretary	High Court of Andhra Pradesh	Last listed on 20.03.2024. Further listed on 26.06.2024	Case is related to not protecting the D-wall of Polavaram Multi- Purpose Irrigation Project by completion of Upper Stream Dam Coffer Dam and not taking steps for filling of Scours/repair or construction of Diaphragm Wall by proper technical evaluation of experts.
21	Writ Petition No. 6249/2024	Sri Vijetha Engineers and Infrastructure Pvt. Ltd.	1. The State of AP 2. The State of AP Finance Department 3. Union of India, MoJS 4. PPA 5. ENC, PIP 6. SE, PIP 7. EE, PIPRMC, VJA 8. EE, PIPRMC Tadepalligudem	High Court of Andhra Pradesh	Last listed on 26.03.2024. Further listed on 25.04.2024	Case is related to not releasing the balance due amount worth of Rs. 4,62,09,309 (Rupees Four Crore Sixty-Two Lakhs Nine Thousand Three Hundred and Nine only) towards Security Deposit.

<b>Sl. No.</b>	<b>Case No</b>	<b>Name of the Petitioner (s)</b>	<b>Name of the Respondent (s)</b>	<b>Name of the Court</b>	<b>Status of the case</b>	<b>Remarks</b>
<b>(i)</b>	<b>(ii)</b>	<b>(iii)</b>	<b>(iv)</b>	<b>(v)</b>	<b>(vi)</b>	<b>(vii)</b>
22	Writ Petition No. 3464/2024	Shri Talluri Veerbhadrappa Reddy And Others	1. Union of India, by Cabinet Secretary 2. NCST 3. PPA 4. Union of India, MoJS 5. Union of India, MoRD, DoLR 6. Union of India, MoTA 7 to 12. Govt. of AP	High Court of Andhra Pradesh	Last listed on 22.03.2024. Further listing is awaited.	Declaring that the recalcitrant attitude of the respondents towards the Scheduled Tribe Project Affected and Displaced Families of Talluru Village hamlet of Kondamodalu Grama Panchayat of Devipatnam Mandal Alluri Sitarama Raju District of Andhra Pradesh as illegal arbitrary, discriminatory opposed to RFCTLARR Act, 2013.

## **CHAPTER-4**

### **PHYSICAL AND FINANCIAL PROGRESS**

#### **4.1 Brief description about contracts**

In Pursuance of the A.P. Reorganisation Act, 2014 the Central Government constituted the Governing Body to Polavaram Project Authority and the Polavaram Project Authority vide Extraordinary Gazette Notification No. 129 dated 28<sup>th</sup> May, 2014. And whereas Sub-section (4) of Section 90 of the Act mandates that the Central Government shall execute the project and obtain all requisite clearances including environmental, forests, and rehabilitation and resettlement norms.

Ministry of Finance Vide F. No. 1(2)/PF-1/2014(Pt) dated 30.09.2016, issued the O.M which states that:

- i. It will provide 100% of the remaining cost of the irrigation component only of the project for the period starting from 01.04.2014 to the extent of the cost of the irrigation component on that date.
- ii. In view of the recommendations of the Vice-Chairman NITI Aayog that it will be appropriate for the State of Andhra Pradesh to execute this project (as it is an important project and the State Government is keen to complete it at the earliest), the Government of India has agreed to the State's request for the execution to the project by the State Government on behalf of the Government of India.

Accordingly, Government of Andhra Pradesh is executing the civil works (Irrigation component only) and LA and R&R works of PIP on behalf of Government of India. WRD, GoAP issued termination notices to the executing agencies i.e., M/s Navayuga Engineering Company Limited and M/s Bekem Infra Projects Limited on 29.07.2019 in view of the opinion expressed by the Expert Committee constituted by GoAP vide G.O Rt No. 295 dated 14.06.2019. GoAP subsequently issued tender notification No. 01/2019-20 dated 17.08.2019 for awarding the balance works of Head works of PIP with a completion period of 24 months. With reference to tender notification, WRD, GoAP concluded agreement for construction of PIP Head works with M/s Megha Engineering and Infrastructure Limited on 08.11.2019.

Total works of the project is divided into 22 packages for which contracts were awarded by the State Government with different agencies for a value of Rs. 13,379.43 Cr. This comprises of 7 packages under Right Main Canal System, 8 packages under Left Main Canal System and 7 packages under Head works.

#### **4.2 Physical and Financial Progress of the Project**

DDRP in its 21<sup>st</sup> meeting recommended to fill up the scour areas of main dam foundation by sand with dozing method and further recommended to compact such sand by vibro-compaction (VC) to achieve required relative density. Accordingly, the sand filling in main

dam area has been completed and vibro- compaction (VC) of the filled sand in the main dam area is under progress.

During the year, curtain grouting works in Spillway Drainage Gallery, Dry and Wet testing of spillway gates, protection works of cut slopes of Spillway & Spill channel are under progress. Further, to deplete the seepage water in the main dam area through gravity, the executing agency has initiated excavation of depletion channel with regulator at ch 1648 m of downstream cofferdam.

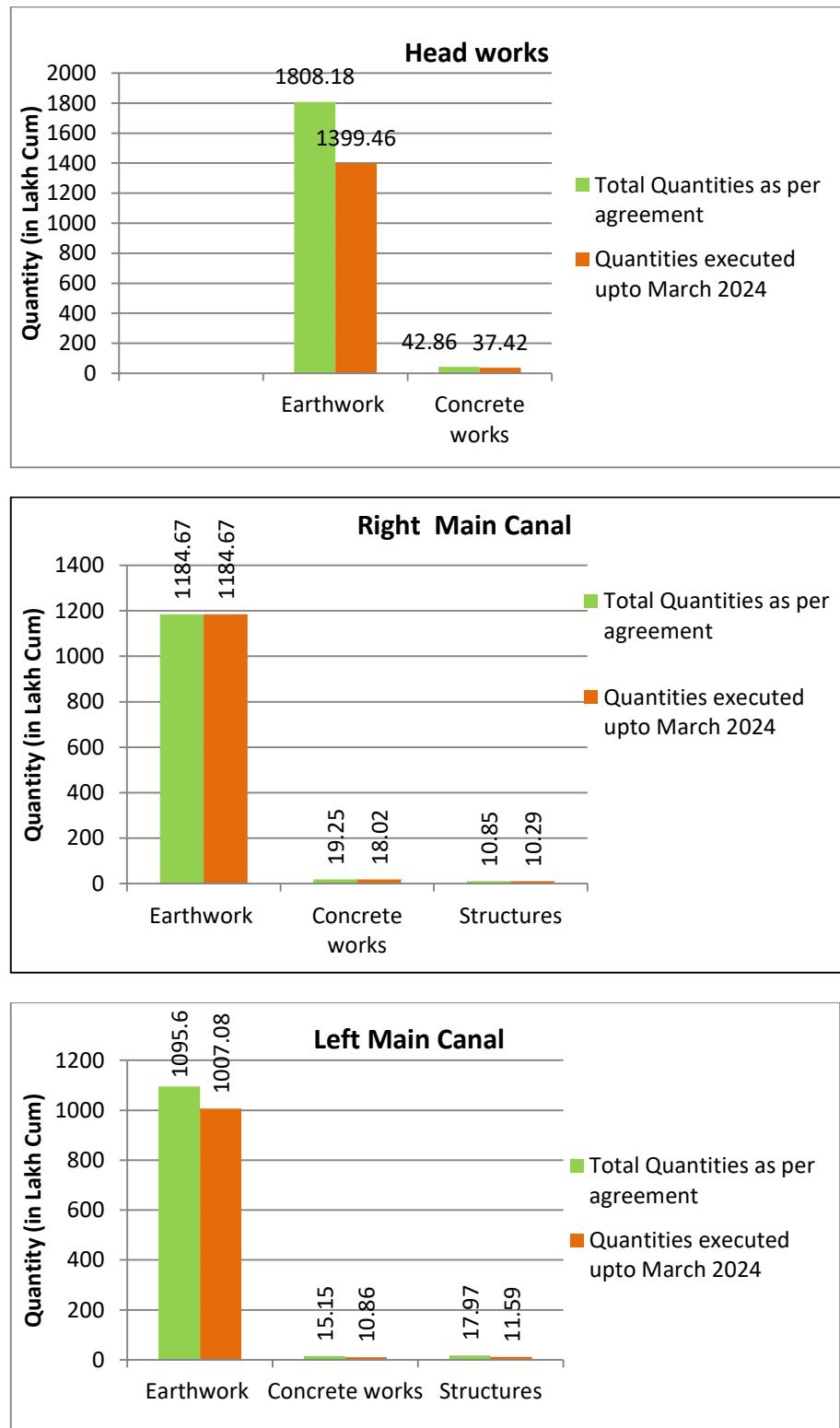
The Diaphragm wall (D-wall) constructed in Gap-II of main dam was affected by the floods of 2019 and 2020. As per the suggestions of DDRP and CWC, NHPC carried out health assessment of the Diaphragm wall in non-scour portion in Gap-II of main dam and furnished its report. The D-wall issue was discussed in 22<sup>nd</sup> DDRP meeting held on 31.07.2023 and in different meetings at MoJS with all the concerned stake holders. As per the detailed discussions and report furnished by PPA, MoJS directed CWC and PPA to focus only on construction of new D-wall in the Gap II of the main dam in view of overall safety of the structure and potential risk to the downstream area including the town of Rajamahendravaram.

Occurrence of boiling in downstream side of upstream coffer dam at Ch 1550 m and turbid seepage on the left side between Ch 0 m to Ch 450 m were observed in July 2023. As a precautionary measure, sand berm of 10 m width up to El +20 m was laid all along the toe of the Cofferdam .The issue of high seepage from cofferdams affected the scheduled timelines of main dam activities and resulted in reduction of working period also.

As per directions of DDRP and MoJS, CSMRS carried out health assessment of the upstream cofferdam by Geophysical Investigations and submitted report on 16.01.2024. The results suggested some anomalies in the clay core above EL. +30 m and recommended to carry out conventional geotechnical investigations for verification of the same. Methodologies to take up the Geotechnical Investigations are under discussion with CWC.

The Construction of Rock-fill Guide Bund on the upstream left side of spillway was completed by April 2023. However, while removing the soil in the approach channel besides the guide bund, partial damages in the cut off wall and sliding of guide bund were observed on 03.06.2023. In this context , a *Fact-Finding Committee* constituted by MoJS under the chairmanship of Shri A B Pandya, Ex-Chairman, CWC visited the project site on 15.06.2023 and furnished its report vide letter dated 21.08.2023. As per the recommendations of the committee, WRD, GoAP carried out immediate remedial measures and the suggested investigations for taking up permanent measures are under progress.

The progress achieved in respect of major components of the project viz., Head works, Right Main Canal and Left Main Canal are depicted in following Figure-5 :



**Figure 5 : Physical Progress achieved**

**Note:** The Total quantities are subjected to revision due to site conditions, floods of 2019 & 2020, change in designs etc.

The details of physical and financial progress of major components of the project viz., Head works, Right Main Canal and Left Main Canal during the year is shown in table 10

**Table 10: Details of physical and financial progress of the project in respect of works component**

Sl. No.	Description	Unit	Quantity executed during 2023 -24
(1)	(2)	(3)	(4)
<b>Head Works</b>			
1	Earthwork & Embankment	Lakh Cum	140.84
	Concrete works	Lakh Cum	0.24
<b>Right Main Canal</b>			
2	Earthwork	Lakh Cum	0
	Lining	Lakh Cum	0
	Structures	Lakh Cum	0
<b>Left Main Canal</b>			
3	Earthwork	Lakh Cum	0.7
	Lining	Lakh Cum	0.009
	Structures	Lakh Cum	0.021

Sl. No.	Description	Value of work done during 2023-24 (Rs. in Cr)
(1)	(2)	(3)
<b>Head Works</b>		
1	Earthwork & Embankment	500.87
	Concrete works	7.44
	Other works (Ground improvements, steel, gates etc)	298.23
	<b>Total</b>	<b>806.54</b>
<b>Right Main Canal</b>		
2	Earthwork	0
	Lining	0
	Structures	0
	<b>Total</b>	<b>0</b>
<b>Left Main Canal</b>		
3	Earthwork	2.60
	Lining	1.31
	Structures	4.20
	<b>Total</b>	<b>8.11</b>
<b>Grand Total</b>		<b>814.65</b>

### 4.3 Expenditure incurred on the Project

Before declaration of National Project, the audited expenditure incurred on Polavaram Irrigation Project as on 31.03.2014 was Rs. 4,730.71 Cr. After declaration of National Project, the total expenditure incurred from 01.04.2014 to 31.03.2024 was Rs. 16,364.89 Cr.

A sum of Rs. 15,146.27 Cr has been reimbursed by the Ministry of Jal Shakti for the eligible expenditure incurred for the period 01.04.2014 to 31.03.2024. Out of Rs. 15,146.27 Cr made available by GoI, a sum of Rs. 14,968.98 Cr has been reimbursed to the State Government GoAP and an amount of Rs. 177.29 Cr has been incurred for meeting the expenditure towards establishment charges of PPA. An Amount of Rs. 727.88 Cr is reimbursed during FY 2023-24. The details of reimbursement made by Government of India is given in table no 11:

**Table 11: Details of reimbursement made by GoI after declaration of National Project**

<b>Reimbursed by GoI (After declaration of National Project) (Rs. in Cr)</b>				
<b>Sl. No</b>	<b>Components</b>	<b>FY's 2014-2023</b>	<b>FY 2023-24</b>	<b>Total Reimbursed</b>
		(1)	(2)	(3 = 1+2)
1	Head Works	5,898.76	20.66	5,919.42
2	Left Main Canal	958.68	20.38	979.06
3	Right Main Canal	1,262.48	0.00	1,262.48
4	Lands	3,438.62	318.84	3,757.46
5	R & R	2,182.73	12.50	2,195.23
6	Estt. of Civil works, LA & RR & Building and Work Charged	548.12	307.20	855.32
7	PPA	129.00	48.29	177.29
<b>Total</b>		<b>14,418.39</b>	<b>727.88</b>	<b>15,146.27</b>

### 4.4 Establishment Expenditure of the PPA

The annual expenditure of the PPA during the financial year 2023-24 is given in Table 12.

### 4.5 Audit of Accounts

The accounts of Polavaram Project Authority for the year 2023-24 were audited by Regional Audit Office, Chennai under CAG during the period 08.10.2024 to 28.10.2024.

**Table 12: Release to the State Government of A.P. and Head/ Item-wise expenditure of the PPA during 2014-15 to 2023-24 (Rs. in Crore)**

Sl. No	Head/Item	Amount received from GoI												Expenditure incurred during												
		2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24					
1	Salaries	-	-	-	-	-	-	-	-	-	-	0.0506	0.5703	0.789	0.7488	0.9582	0.56	0.814	1.1391	1.0851	1.1702					
2	Domestic Travel Expenses	-	-	-	-	-	-	-	-	-	-	0.0002	0.0507	0.208	0.2397	0.3657	0.31	0.0598	0.111	0.4082	0.3788					
3	Office Expenses	-	-	-	-	-	-	-	-	-	-	0.0044	0.0179	0.0357	0.1524	0.15	0.2	0.1981	0.1282	0.1621	0.2548					
4	Machinery & Equipment	-	-	-	-	-	-	-	-	-	-	0.0586	0.0685	0.043	0.0343	0.1149	0.01	0.1015	0.0407	0.0232	0.0907					
5	Minor Works	-	-	-	-	-	-	-	-	-	-	0	0.0113	0.0153	0.0287	0.0175	0.55	0.44	0.3064	0.5046	0.9796					
6	Other Admin Expenses	-	-	-	-	-	-	-	-	-	-	0.0037	0.2378	0.2785	0.3056	0.399	0.01	0.0054	0.0074	0.0283	0.0290					
7	M/s WAPCOS as PMCC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.76	26.05	12.0083	26.9582	22.3108	23.8626					
8	Professional services	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.09	0.0032	0.3886	0.0934	0.1635				
9	Medical Expenses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0004	-	-	0.004	0.0022	0.0035				
10	TDS on interest of MoDS amount	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07	0.2305	0.1013	0.0314	0.0000				
11	Grants -in - aid / Special Assistance capital received from MoWR	250	600	2514.16	2000	1400	1850	2234.2	1898.80	1671.23	727.88	-	-	-	-	-	-	-	-	-	-	-				
a	PPA Establishment	5	10	-0.54	7.44	15	70	0	22.10	0	48.29	-	-	-	-	-	-	-	-	-	-	-				
b	Amount released to GoAP	245	590	2514.70	1992.56	1385	1780	2234.2	1876.70	1671.23	679.59	-	-	-	-	-	-	-	-	-	-	-				
12	Interest on MoDS amount	-	-	-	-	-	0.19	0.71	3.02	0.40	0.16	-	-	-	-	-	-	-	-	-	-	-				
Establishment expenditure of PPA												0.118	0.957	1.370	1.510	22.766	27.850	13.861	29.185	24.649	26.933					
13	Release to the State Government of A.P.	-												245	590	2514.70	1992.56	1385	1780	2234.20	1876.70	1671.23	679.59			
Total amount												Total	245.12	590.96	2516.07	1994.07	1407.77	1807.85	2248.06	1905.88	1695.88	706.52				
Expenditure made during 2023-24																										
Total expenditure made upto 2023-24																										
15118.18																										

## CHAPTER-5

### SUBMERGENCE, LAND ACQUISITION AND REHABILITATION & RESETTLEMENT

#### 5.1 Submergence and Population affected in Andhra Pradesh, Odisha and Chhattisgarh States

Due to construction of the Polavaram Irrigation Project, there will be submergence of 371 habitations in 222 revenue villages in East Godavari and West Godavari districts of Andhra Pradesh (including the villages in 7 Mandals of Khammam District transferred to A.P. State), affecting about 1,88,012 persons in 55,799 households. The total number of Project Displaced Families (PDFs) is about 1,06,006. The total numbers of tribals affected under the project are 56,495 PDFs.

The Polavaram Project involves submergence of 40,137.11 ha in Andhra Pradesh, Odisha and Chhattisgarh States. The extents of submergence in Odisha and Chhattisgarh States as per detailed survey conducted by Andhra Pradesh are 648.05 ha and 795.59 ha respectively which fall within the flood margins of Sabari and Sileru rivers. Out of which, 102.16 ha in Odisha and 0.16 ha in Chhattisgarh lies in the reserve forest. There will be submergence of four villages displacing 11,766 persons in 2,335 Project Affected Families in Chhattisgarh State and eight villages displacing 6,316 persons in 1,002 Project Affected Families in Odisha State, if no mitigative measures are undertaken. In order to completely avoid submergence of lands and properties above RL+150 ft. in the territories of Odisha and Chhattisgarh States, and to protect the interests of tribal people, the Government of Andhra Pradesh proposed to provide protective embankments with adequate drainage sluices for a length of 30 km along Sileru and Sabari rivers in the State of Odisha and for a length of 29.12 km along the Sabari River in Chhattisgarh State as per the directions of Ministry of Environment and Forests, Ministry of Tribal Affairs, Central Water Commission and other statutory bodies as per the provisions of Inter State Agreement dated 02.04.1980 and GWDT Award. By providing the above mentioned remedial measures, the submergence in the territories of Odisha and Chhattisgarh can be avoided completely.

An Expert Appraisal Committee of Ministry of Environment and Forest (MoEF) vide their letter dated 09.03.2009, directed the project proponent to initiate action requesting the appropriate authorities in Odisha and Chhattisgarh States for conducting public hearings in the States of Chhattisgarh and Odisha in respect of embankment proposal and report back to the Committee. The public hearings is pending to be carried out by the State Governments of Chhattisgarh and Odisha.

The details of population affected in Andhra Pradesh (as per the census-2011), in Odisha and Chhattisgarh (as per the socio-economic survey of 2005) due to the Polavaram Irrigation Project, district-wise affected in AP and district-wise population affected on Odisha and Chhattisgarh are given in Tables 13 and 14 respectively.

**Table 13: District-wise Population Affected in Andhra Pradesh (as per census 2011)**

Sl. No	Name of the district	No. of villages	No. of habitats	Total area (in ha)	Total house holds	Total population	Total male population	Total female population	Total Schedule Castes population	Total Schedule Tribes Population	Nature of submergence in Habitations	
											Full	Partial
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1	East Godavari	165	234	51,427	29,303	99,463	47,703	52,051	9,405	58,825	86	148
2	West Godavari	57	137	59,452	26,496	88,549	43,506	45,043	16,845	31,002	69	68
<b>Grand Total</b>		<b>222</b>	<b>*371</b>	<b>1,10,879</b>	<b>55,799</b>	<b>1,88,012</b>	<b>91,209</b>	<b>97,094</b>	<b>26,250</b>	<b>89,827</b>	<b>155</b>	<b>216</b>

Note. \* Besides 371 habitations, one habitation in LMC (East Godavari District) and one in RMC (West Godavari District) also to be displaced due to alignment of canals passing through these habitations.

**Table 14: District-wise Population affected in Odisha and Chhattisgarh (as per the Socio-economic Survey-2005)**

Sl. No.	Name of the district	Name of the Mandal	No. of villages	Total No. of households	Total population	Total male population	Total female population
<b>Odisha State</b>							
1	Malkangiri	Podia	8	1,002	6,316	3,562	2,754
<b>Chhattisgarh State</b>							
1	Sukuma	Konta	4	2,335	11,766	6,923	4,843

Note- There would be no submergence in case states of Odisha and Chhattisgarh opt for embankment along the rivers Sabari and Sileru, which is one of the option available under GWDT award, 1980

The details of number of villages and habitations that would be submerged in Andhra Pradesh due to construction of the Polavaram Irrigation Project are given in Table 15.

**Table 15: Submergence details**

Sl. No.	Name of the District	Names of the Mandals including Mandals / villages transferred from Khammam District	No. of villages	No. of habitations	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
1	East Godavari	1.Project Site	0	8	
		2.Devipatnam	15	36	Originally in A.P.
		3.Kunavaram	49	61	Transferred from Khammam District, T.S.
		4.Chintoor	26	32	
		5. V.R. Puram	42	54	
		6. Yetapaka	33	43	
<b>Sub total</b>		<b>165</b>	<b>234</b>		
2	West Godavari	1.Project site	0	8	
		2.Polavaram	13	22	Originally in A.P.
		3.Velairpadu	16	48	Transferred from Khammam District, T.S.
		4.Kukunoor	28	59	
		<b>Sub total</b>	<b>57</b>	<b>137</b>	
		<b>Grand total</b>	<b>222</b>	<b>371</b>	

*Note- Besides 371 habitations, one habitation in LMC (East Godavari District) and one in RMC (West Godavari District) also to be displaced due to alignment of canals passing through these habitations.*

## 5.2 Land Acquisition and Rehabilitation and Resettlement

As per 141<sup>st</sup> meeting of Advisory Committee (2<sup>nd</sup> RCE), excluding Government and forest land, about 1,55,464.88 acres of land is required for the Polavaram Irrigation Project. The Revised Cost Committee (RCC) in its report of March, 2020 assessed the land as 1,27,262.79 acres out of which 1,13,124.17 acres of land has been acquired as on 31<sup>st</sup> March, 2024.

RCC constituted for Phase-I of the Project vide its report of February, 2024 assessed the land required for Phase-I of the project as 65,205.26 acres excluding Government and forest land out of which 50,108.44 acres of land has been acquired till 31<sup>st</sup> March, 2024.

In-principle approval under section 2 of Forest (Conservation) Act 1980 for diversion of 3,731.07 ha. of forest land for Polavaram Project was accorded by MoEF vide its Letter No. F.NO.8-

123/2005-FC dated 26.12.2008 and Stage-II Forest clearance was accorded by MoEF, New Delhi vide Letter F.No.8-123/2005-FC dated 28.07.2010.

### **5.3 Status of Rehabilitation & Resettlement**

The Central and State Government is committed to rehabilitate the PDF's as per R&R package keeping in view the provisions of constitutional rights under schedule areas and PESA Act, 1996. The R&R is programmed in such a way that the entire R&R activities of the project will be completed well before the actual impoundment of water in the reservoir. Out of 373 habitations, 38 habitations have been rehabilitated so far.

The details of R&R packages being awarded to the Project Displaced Families under Polavaram Irrigation Project as per Second Schedule of RFCTLARR Act, 2013 is given in Table 16:

**Table 16: Details of R & R packages**

<b>Sl. No.</b>	<b>R &amp; R Package benefit details as per LA RR Act, 2013</b>	<b>Cost per Unit (In Rs.)</b>
1.	Choice of annuity per family	5,00,000
2.	a) Subsistence grant for displaced family for a period of 12 months @ Rs. 3,000/- pm	36,000
	b) Additional Subsistence grant for STs & SCs displaced from Scheduled Areas	50,000
3	Transportation Cost	50,000
4.	One-time Resettlement Allowance	50,000
5.	a) One time financial assistance for cattle sheds (or)	25,000
	b) Petty Shop/Kirana/Pan Shop	
6.	One-time grant to artisan small traders and certain others	25,000

As provided for in the Second Schedule of RFCTLARR Act, 2013, an additional Subsistence grant of Rs. 50,000/- is being awarded for Scheduled Castes and Scheduled Tribes displaced families from the Scheduled Areas. Further, as per the Act, the tribal land-losers will be provided land equivalent to land acquired or Ac.2.50 whichever is less.

On behalf of the WRD, GoAP, the following State Government agencies are carrying out the construction of Housing & Infrastructure activities in the R & R Colonies.

- i. AP State Housing Corporation Limited (APSHCL)
- ii. AP Tribal Welfare Department
- iii. AP Panchayat Raj Department
- iv. AP Social Welfare Department
- v. AP Roads and Buildings Department

The R & R works are being carried out in two phases – phase I (water storage up to EL +41.15 m) and phase II (water storage above EL +41.15 m). The status is given in Table-17.

**Table-17: Status of Rehabilitation & Resettlement**

<b>Sl. No.</b>	<b>Item</b>	<b>upto EL+41.15 m (Phase -I)</b>	<b>above EL+41.15 m (Phase -II)</b>	<b>Total</b>
1	Mandal affected	8	7	8
2	Revenue villages affected	90	132	222
3	Habitations affected	172	201	373
4	Habitations shifted	38	0	38
5	Balance Habitations	134	201	335
6	Total R&R colonies	121	92	213
7	R&R colonies completed	26	0	26
8	Balance R&R colonies	95	92	187
9	Total PDFs	38,060	67,946	1,06,006
10	No. of PDFs shifted	12,797	-	12,797
11	Balance PDFs to be shifted	25,263	67,946	93,209

## CHAPTER-6

### **PARLIAMENTARY MATTERS / RTI / VIGILANCE / MEETINGS ETC.**

#### **6.1 Parliament Questions and VIP References**

- (i) 26 Parliament questions were received in PPA during 2023-24. The material for reply to admitted parliament questions were prepared and sent to the Ministry of Jal Shakti, Department of Water Resources, River Development & Ganga Rejuvenation.
- (ii) 9 VIP references on various matters were received by PPA during 2023-24. The material for reply to these references were prepared and sent to the Ministry of Jal Shakti, Department of Water Resources, River Development & Ganga Rejuvenation.

#### **6.2 Implementation of RTI Act, 2005**

The following officers were appointed as Appellate Authority and Central Public Information Officer (CPIO) to provide information to the applicants in compliance of RTI Act, 2005.

##### **Appellate Authority:**

<b>Sl. No.</b>	<b>Name of the officer with Designation (Shri)</b>	<b>Period</b>
1	M. RaghuRam, Member Secretary, PPA	01.04.2023 to 31.03.2024

##### **Central Public Information Officer (CPIO):**

<b>Sl. No.</b>	<b>Name of the officer with Designation (Shri)</b>	<b>Period</b>
1	P. Devender Rao, Director (A&C) & CPIO	01.04.2023 to 29.02.2024
2	M. Ramesh Kumar, Director (A&C) & CPIO	01.03.2024 to 31.03.2024

During the year 2023-24, 121 requests and 16 appeals for furnishing information under RTI Act, 2005 were received in PPA and information as available was provided to applicants in compliance to the Act.

#### **6.3 Vigilance and Disciplinary Cases**

No vigilance or disciplinary case concerning any officer or staff was pending or contemplated in the PPA during the year 2023-24.

#### **6.4 Committee in PPA for Complaints on Sexual Harassment**

A Committee was constituted to look into complaints of women employees working in PPA against sexual harassment at work place. The above committee is deemed to be the inquiring authority appointed by the disciplinary authority for the purpose of Central Civil Services (CCA) Rules, 1965. The committee will examine the complaints made by women employee(s) against sexual harassment and, if necessary, conduct an enquiry and submit the findings of the enquiry report to the Member Secretary, PPA for further necessary action. No case was reported during the period of this report.

## 6.5 Meetings of Governing Body

In pursuance of the AP Reorganisation Act, 2014, the Central Government constituted the Governing Body to Polavaram Project Authority vide Extraordinary Gazette Notification No. 129 dated 28<sup>th</sup> May, 2014. The constitution of the Governing Body to the Polavaram Project Authority is given below:

### Constitution of Governing Body

1	The Secretary to the Government of India, Ministry of Water Resources	Chairperson
2	The Chief Secretary to the Government of Andhra Pradesh	Member
3	The Chief Secretary to the Government of Telangana	Member
4	The Secretaries to the Government of India, Ministries of Environment and Forest, Finance (Dept. of Expenditure), Power and Tribal Welfare (or their nominee(S) not below the rank of Joint Secretary)	Members
5	The Chief Executive Officer, Polavaram Project Authority	Member
6	A representative of Planning Commission (not below the rank of Joint Secretary)	Member
7	Member Secretary, Polavaram Project Authority	Member Secretary

First meeting of the Governing Body of Polavaram Project Authority was held on 12th April, 2022 at New Delhi under the Chairmanship of Secretary, DoWR, RD & GR, Ministry of Jal Shakti on the various issues of administrative and technical issues with officers of PPA, CWC, WRD, GoAP and CSMRS.

## 6.6 Meetings of Dam Design Review Panel (DDRP)

A Dam Design Review Panel (DDRP) was constituted on 13.06.2016 and strengthened on 16.04.2022 for technically sound and timely execution of Polavaram Irrigation Project with the following members:

Sl. No.	Name of the officer (Shri)	Designation
(i)	A B Pandya, Former Chairman, CWC	Chairman
(ii)	Dinesh Bhargava, Former Director, NHPC	Member
(iii)	Y K Handa, Former Chief Engineer, CWC	Member
(iv)	Engineer-in-Chief, Water Resources Department, GoAP	Member
(v)	Chief Engineer, Designs (NW & S), CWC, New Delhi	Member
(vi)	Chief Engineer, HSO, CWC	Member
(vii)	Chief Engineer, CDO, Government of Andhra Pradesh	Member
(viii)	M. Gopalakrishnan, Former Secretary General, ICID & Former Member, CWC	Co-opted Member
(ix)	Devendra Kumar Sharma, Chairman, HPERC and Vice President, ICOLD	Co-opted Member
(x)	Member Secretary, PPA	Member Secretary

During the year 2023-24, one meeting of the Dam Design Review Panel (DDRP) was held on 31<sup>st</sup> July, 2023 at New Delhi and decisions on technical matters were taken to expedite the construction activities of the project.

### **6.7 Meetings by Ministry of Jal Shakti, DoWR, RD & GR**

Shri Gajendra Singh Shekhawat, Hon'ble Minister, Ministry of Jal Shakti has reviewed the implementation of the project on 01.06.2023 and 03.07.2023 at New Delhi with officials of CWC, PPA, WRD & CSMRS.

Eight review meetings were held under the chairmanship of Secretary, DoWR, RD & GR on 10<sup>th</sup> April 2023, 25<sup>th</sup> May 2023, 10<sup>th</sup> July 2023, 29<sup>th</sup> August 2023, 29<sup>th</sup> September 2023, 18<sup>th</sup> October 2023, 5<sup>th</sup> December 2023 & 6<sup>th</sup> February 2024 at New Delhi and the technical issues and progress of the Project were reviewed. Three meetings were convened by the Chairman, CWC on 26<sup>th</sup> April 2023, 5<sup>th</sup> June 2023 & 24<sup>th</sup> July 2023 through video conferencing to discuss design and construction issues of the project, partial damages to guide bund and seepage from cofferdams with all the stakeholders. Three meetings were chaired by the Member (D&R), CWC on 22<sup>nd</sup> December 2023, 15<sup>th</sup> February 2024 & 21<sup>st</sup> March 2024 to discuss on the hiring of experts and technical issues of the Project with relevant organisations.

One Technical review meeting was held under the Chairmanship of Chairman, CWC on 3<sup>rd</sup> April 2023 at New Delhi with the officials of PPA, Government of Andhra Pradesh, Government of Chhattisgarh, Government of Odisha & Government of Telangana in connection with Hon'ble Supreme Court order dated 06.09.2022.

A Joint meeting was held on 12<sup>th</sup> April 2023 with officials of Government of Andhra Pradesh and Government of Telangana to discuss the submergence in the territory of Telangana and other related issues as per the decision taken during the meeting on 03.04.2023.

### **6.8 Meetings by CEO, PPA**

Four review meetings were held by the Chief Executive Officer (CEO), PPA with the officials of WRD, GoAP, CWC, CSMRS and WAPCOS on 6<sup>th</sup> April 2023, 20<sup>th</sup> April 2023, 4<sup>th</sup> May 2023 & 25<sup>th</sup> January 2024 to review the progress of various components of the Project, way forward on development of Navigation system, timelines & pending design issues of the Project.

CEO, PPA visited the project on 20<sup>th</sup> April 2023, 21<sup>st</sup>-22<sup>nd</sup> May 2023, 14<sup>th</sup>-15<sup>th</sup> June 2023 and 17<sup>th</sup> -18<sup>th</sup> July 2023. Various issues concerning the implementation of the Polavaram Irrigation Project such as project planning, designs, land acquisition, rehabilitation & resettlement, etc. were discussed and necessary directions and guidance were given to all the concerned.

### **6.9 Meetings of Expert Committee**

With the approval of Secretary, MoWR, RD & GR vide letter dated 10.04.2017 & 07.06.2017, an Expert Committee was constituted to overview the implementation of Polavaram Project till completion and to critically examine the progress of the project work from all angles i.e., overall planning of the construction, quality, safety, cost aspects etc. with the following members:

<b>Sl. No.</b>	<b>Name of the officer (Shri)</b>	<b>Designation</b>
(i)	Member (WP&P), CWC, New Delhi	Chairman
(ii)	Chief Engineer (PMO), CWC, New Delhi	Member
(iii)	Chief Engineer (KGBO), CWC, Hyderabad	Member
(iv)	Chief Engineer, Designs (NW&S) CWC, New Delhi	Member
(v)	Engineer-in-Chief, PIP, Government of Andhra Pradesh	Member
(vi)	Member Secretary, PPA, Hyderabad	Member
(vii)	Representative of CSMRS, New Delhi	Member
(viii)	Chief Engineer (PPO), CWC, New Delhi	Convener
<b>Special Invitees as experts</b>		
(i)	Shri A B Pandya, Former Chairman, CWC, New Delhi	
(ii)	Dr D V Thareja, Former Member (D & R), CWC, New Delhi	
(iii)	Shri DP Bhargava, Former Director, (Technical), NHPC, Faridabad	

The Expert Committee visited the project site during 17<sup>th</sup> to 20<sup>th</sup> June 2022, under the Chairmanship of Sh. Kushvinder Vohra, Member (WP&P), CWC. The committee inspected various components of the project and submitted specific recommendations in the report.

## **6.10 Meetings of Land Acquisition and R&R Committee**

A Committee has been constituted by the Ministry of Water Resources, River Development and Ganga Rejuvenation vide its order No. P.101/9/2017/Polavaram/R&R/SPR-1/9/22-25 dated 12.09.2017 to strengthen monitoring mechanism for Land Acquisition and Rehabilitation & Resettlement process for Polavaram Irrigation Project under the Chairmanship of Secretary, Ministry of Tribal Affairs, Government of India with the following members:

<b>Sl. No.</b>	<b>Name of the officer (Shri)</b>	<b>Designation</b>
1	Secretary, M/o Tribal Affairs, Govt. of India	Chairperson
2	Secretary, D/o Social Justice & Empowerment	Member
3	Secretary, MoWR, RD & GR	Member
4	Chief Secretary, Govt. of Andhra Pradesh	Member
5	CEO, Polavaram Project Authority	Member
6	Engineer-in-Chief, Polavaram Irrigation Project, Government of Andhra Pradesh	Member
7	Secretary, Water Resources Department, Govt. of Andhra Pradesh	Member
8	Commissioner, (Relief & Rehabilitation), Govt. of Andhra Pradesh	Member
9	Member Secretary, Polavaram Project Authority, Hyderabad	Member Secretary of the Committee

During the year 2023-24, two meetings were held on 31.05.2023 and 30.10.2023 virtually.

## **6.11 Quality Audit and Quality Assurance by CSMRS**

With reference to WRD G.O dated 20.03.2017, MoU has been signed between CSMRS and PPA with effect from 12.02.2018 for Quality Audit and Quality Assurance works of Polavaram Irrigation Project. During the year 2023-24, CSMRS conducted the Geophysical Investigations on upstream cofferdam from 29<sup>th</sup> November 2023 to 16<sup>th</sup> December 2023 and furnished its report.

## **6.12 M/s WAPCOS as Project Monitoring & Coordination Consultant (PMCC)**

M/s WAPCOS Limited has been appointed as Project Monitoring & Coordination Consultant (PMCC) for Polavaram Irrigation Project. A new agreement with M/s WAPCOS was concluded on 14.08.2023 for a period covering up to 31.08.2024.

During 2023-24, 8 Nos. of Monthly Progress Reports, 9 Nos. of Quality Control Reports, 3 Nos. of Bottleneck Reports and 12 LA and R & R Reports were submitted for necessary action by WRD, GoAP.

## **6.13 Swachhata Hi Sewa and Swachhata Pakhwada**

In pursuance of directions of DoWR, RD & GR, MoJS, the Swachhata Hi Sewa and Swachhata Pakhwada was celebrated from 15<sup>th</sup> September, 2023 to 2<sup>nd</sup> October, 2023 and 16<sup>th</sup> March 2024 to 31<sup>st</sup> March 2024 respectively with active participation of officers and staff of PPA at Rajamahendravaram and Hyderabad and the following activities were undertaken as per Swachhata Action Plan during the year 2023-2024.

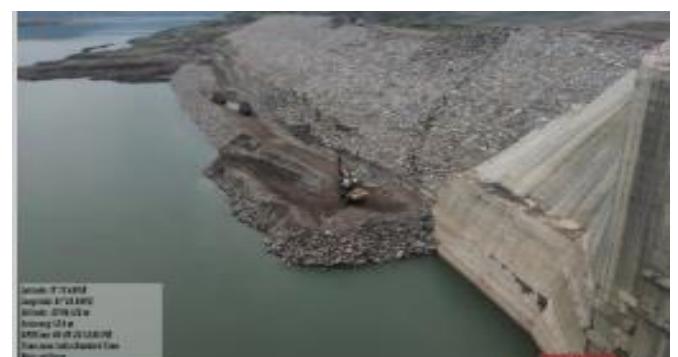
<b>Sl.No</b>	<b>Date</b>	<b>Activity</b>
1	21 <sup>st</sup> September, 2023	Inauguration of Swachhata Hi Sewa with Swachhata Pledge
2	22 <sup>nd</sup> September, 2023	Cleaning of Office Premises and Plantation at Krishna Godavari Bhawan, Hyderabad
3	29 <sup>th</sup> September, 2023	Cleaning of records/weeding of file and waste disposal at PPA Office
4	16 <sup>th</sup> March, 2024	Inauguration of Swachhata Pakhwada with Swachhata pledge, cleaning and sanitization of PPA premises, Hyderabad.
5	24 <sup>th</sup> March, 2024	Curbing Single Use Plastic (SUP) and discourage of plastic Segregation of plastic and non-plastic waste in the office premises of Hyderabad.
6	30 <sup>th</sup> March, 2024	Swachhata Pledge and Plantation of saplings near PPA office building (under construction), Dowlaiswaram and Swachhata awareness campaign in the nearby colonies and parks of SBI Colony, Lalacheruvu, Rajamahendravaram using posters and banners.
7	31 <sup>st</sup> March, 2024	Plantation at KG Bhavan, Hyderabad and closing ceremony
8	31 <sup>st</sup> March, 2024	Cleaning, Shramdaan at Markandeya Ghat, Godavari River Left Bank, Rajamahendravaram and Swachhata awareness campaign in the nearby colonies of Bhaskar Nagar, Lalacheruvu, Rajamahendravaram using posters and banners



**ANNEXURE**  
**(SNAPSHOTS OF THE PROJECT)**



## SPILLWAY

	
<p>Excavation of Earth between Ch. 50 m and Ch.100 m, from EL +23 m to EL +20 m &amp; Offset 0 to 100 m from left bank of Approach Channel to Spillway</p>	<p>Drilling of secondary curtain grout hole-4 at Ch. 508.50 m of Block-25 at Drainage Gallery of Spillway</p>
	
<p>Calibration of limit switch with dial indicator and sensor with digital indicator by raising and lowering of Spillway Radial Gates 47 &amp; 48</p>	<p>Painting for exposed 2<sup>nd</sup> stage embedded parts of stoplog gate groove at Vent-1 of Spillway</p>
	
<p>Removal of rockfill between Ch. 0 m and Ch. 50 m and from EL +23 m to EL +20 m from partially slided guide bund</p>	<p>Laying of rockfill for supporting RCC cut-off wall from tilting between Ch. 61.50 m and Ch. 300 m and from EL +19 m to EL +26 m</p>

## SPILLWAY

	
Fixing and alignment of CR-100 Rail for long travel of gantry crane at Vent-47 of Spillway	Drilling of secondary curtain grout hole-2 at Ch. 644.30 m of Block-31 at Spillway Drainage Gallery
	
Drilling of 45 mm dia & 8 m deep holes for fixing of 32 mm dia fully grouted rock anchors between EL +64 m and EL +54 m , Ch. 580 m at downstream of Hill a' (Right Bank) of Spillway	Laying of riprap between Ch. 140 m and Ch. 235 m from EL +39.80 m to EL +41 m at Guide Bund on upstream of Spillway
	
Second layer dry shotcrete (M25) on slope portion is in progress at Spillway b' hill left bank D/s	Inserting 32 mm dia. 8 m long fully grouted rock anchors at upstream of Hill a' (Right Bank) of Spillway

## COFFERDAM

 <p>Latitude: 17.382598 Longitude: 81.653629 Altitude: 103.31 m Accuracy: 12.0 m Time: 05-04-2023 14:03 Water: upstream polavaram</p>	 <p>Latitude: 17.380934 Longitude: 81.653652 Altitude: 105.5236 m Accuracy: 13.0 m Time: 05-10-2023 09:31</p>
<p>Placement of rockfill between Ch.200 m and Ch.400 m at EL+15 m on River side to achieve width of 75 m from toe of Downstream Cofferdam</p>	<p>Excavation and disposal of Earth from depletion channel area for draining out seepage water by gravity</p>
 <p>Latitude: 17.382598 Longitude: 81.653629 Altitude: 105.5236 m Accuracy: 13.0 m Time: 22-10-2023 09:38</p>	 <p>Latitude: 17.377709 Longitude: 81.653683 Altitude: 104.7500 m Accuracy: 14.4 m Time: 25-10-2023 10:44</p>
<p>Dewatering by pumps from main dam area between Ch. 1250 m and Ch. 1500 m from ECRF side of Downstream Cofferdam</p>	<p>Sand filling by Dozing from Ch.800 m to 900 m of Downstream Cofferdam ECRF side</p>
 <p>Latitude: 17.382597 Longitude: 81.6536187 Altitude: 103.6797 m Accuracy: 13.0 m Time: 24-10-2023 10:07</p>	 <p>Latitude: 17.382597 Longitude: 81.6536187 Altitude: 103.6797 m Accuracy: 13.0 m Time: 27-10-2023 10:30</p>
<p>Downstream Coffer Dam Depletion Channel Distribution reinforcement work of pier and abutments of Head Regulator</p>	<p>Shuttering work of pier and abutments of Head Regulator Ch.-70.685 m to 80.685 m</p>

## MAIN DAM AREA

	
Laying of sand berm of 10 m width upto EL +20 m (from EL +18 m) throughout the toe of Upstream Cofferdam	Ground improvement by vibro sand compaction at EL +15 m between Ch. 450 m and Ch. 500 m of grid C2 at Gap I in presence of DD, PPA
	
Inauguration of ground improvement by vibro stone columns at upstream of Gap I	Vibro Sand compaction work in Grid No.: C'4 ECRF Dam Gap-II Downstream Side
	
Vibro Sand compaction work in Grid No. : C3 ECRF dam Gap-II Upstream Side Chainage-240.745m to 290.745m	Vibro Sand compaction work in Grid No.C4 Ch: 290.745m to 340.745m in ECRF Dam Gap-II Upstream Side

## CONNECTIVITIES



Drilling holes for blasting in benching portion from entry portal in right tube of Twin Tunnel of Package-63 under Right Connectivity

Laying of fine filter & coarse filter on upstream of Bund II of Package 63 under Right Connectivity



Excavation between Ch. 1700 m and Ch. 1750 m from EL +35 m to EL +29 m in Approach Channel-II of Package-65 (B) under Left Connectivity

Laying of Riprap between EL +39 m to EL +43 m at Bund II of Package 63 under Right Connectivity



Preparatory arrangements for concreting (M30A20) in foundation of Pier 6 at Head Regulator of Package 65 (B) under Left Connectivity

Footing Concrete (M30A20) for Pier 6 at Head Regulator of Package 65 (B) under Left Connectivity

## FIELD QUALITY CONTROL TESTS

 <p>Latitude: 17.209114 Longitude: 81.591687 Altitude: 40.9844 m Accuracy: 8.4 m Time: 05-05-2023 17:11 Note: ECPT DAM Gap II</p>	 <p>Latitude: 17.209114 Longitude: 81.591687 Altitude: 40.9844 m Accuracy: 8.4 m Time: 05-05-2023 19:46 Note: ECPT DAM Gap II</p>
<p>Drilling of borehole of dia. 500 mm for Pump well at from D Wall of Gap II to conduct Pump out test at upstream side of Gap II</p>	<p>Post-ECPT at Grid B7 in upstream of D Wall of Gap II in presence of Scientist B, CSMRS</p>
 <p>Latitude: 17.209114 Longitude: 81.591687 Altitude: 40.9844 m Accuracy: 8.4 m Time: 05-05-2023 19:46 Note: ECPT DAM Gap II</p>	 <p>Latitude: 17.209114 Longitude: 81.591687 Altitude: 40.9844 m Accuracy: 8.4 m Time: 05-05-2023 19:46 Note: ECPT DAM Gap II</p>
<p>Drilling of borehole of dia. 250 mm for Observation well from D Wall of Gap II to conduct Pump out test at upstream side of Gap II</p>	<p>Hydraulic Profiling Test from D Wall (Upstream side) of Gap II to estimate the permeability</p>
 <p>Latitude: 17.209114 Longitude: 81.591687 Altitude: 40.9844 m Accuracy: 8.4 m Time: 05-05-2023 19:46 Note: ECPT DAM Gap II</p>	 <p>Latitude: 17.209114 Longitude: 81.591687 Altitude: 40.9844 m Accuracy: 8.4 m Time: 05-05-2023 19:46 Note: ECPT DAM Gap II</p>
<p>Drilling for collection of undisturbed soil sample from Borehole from axis of rockfill guide bund</p>	<p>Conducting Dye tracer test for leakage assessment at upstream side of Upstream Cofferdam</p>

## TESTS IN QUALITY CONTROL LAB

 <p>Latitude: 17.274679 Longitude: 81.666360 Elevation: 10.961616 m Accuracy: 26.7 m Time: 01-04-2023 10:54</p>	 <p>Latitude: 17.27494508° Longitude: 81.66636071° Altitude: 16.0 meter Date: 05/07/23 01:09 pm Accuracy: 8.350764 meter</p>
Sieve Analysis of fine aggregate sample collected from sand quarry in QC Lab near Power House in presence of Scientist B, CSMRS	Sieve Analysis of fine aggregate at QC Lab near Power House for the sample taken from sand quarry in Godavari River in-between Purushothapatnam & Pattiseema Pump Houses
 <p>Latitude: 17.16.486° N Longitude: 81.39.984° E Elevation: 64.79524 m Accuracy: 23.2 m Timestamp: 05-06-23 11:15 AM Time zone: India Standard Time Note: lab</p>	 <p>Latitude: 17.13.665° Longitude: 81.666496° Elevation: 42.54116 m Accuracy: 8.1 m Time: 11-09-2023 10:23 Powered by NoteCam</p>
Standard Proctor Density for Maximum Dry Density/Optimum Moisture Content of soil sample from stack on right bank of Pilot Channel at QC Lab near Power House	Grain size analysis for classification of soil sample from stack on right bank of Pilot Channel at QC Lab near Power House
	
Casting of cubes for determining compressive strength of Footing Concrete (M30A20) of Pier 6 at Head Regulator of Package 65 (B) under Left Connectivity	Tests of Atterberg's limits for soil sample at QC Lab near Power House

## LEFT MAIN CANAL

 <div style="border: 1px solid black; padding: 2px; font-size: small;">           Latitude: 17.297796            Longitude: 82.42055            Altitude: 5.5±8 m            Accuracy: 5.3 m            Time: 12-05-2023 15:51            Note: nh 93.7 km arempudi ds service bridge         </div>	 <div style="border: 1px solid black; padding: 2px; font-size: small;">           Latitude: 17.297806            Longitude: 82.420009            Elevation: 79.6±9 m            Accuracy: 11.9 m            Time: 12-05-2023 15:53            Note: nh 93.7 km arempudi us service bridge         </div>
<p>D/s Service Bridge of NH Crossing @ km 93.700 Arempudi Village, PIP-LMC(Pkg.4D)</p>	<p>U/s Service Bridge of NH Crossing@km93.700 Arempudi Village, PIP-LMC (Pkg.4D)</p>
 <div style="border: 1px solid black; padding: 2px; font-size: small;">           Latitude: 17.333866            Longitude: 82.496393            Altitude: -21.25±18 m            Accuracy: 15.4 m            Time: 12-05-2023 15:20            Note: nh 103.658 km goveryyakoneru ds service bridge         </div>	 <div style="border: 1px solid black; padding: 2px; font-size: small;">           Latitude: 17.333189            Longitude: 82.496565            Elevation: 45.05±8 m            Accuracy: 9.9 m            Time: 12-05-2023 15:29            Note: nh 103.658 km goveryyakoneru us service bridge         </div>
<p>U/s Service Bridge of NH Crossing @km103.658, Goveryyakoneru Village, PIP-LMC (Pkg.5B)</p>	<p>D/s Service Bridge of NH Crossing @km103.658, Goveryyakoneru Village, PIP-LMC(Pkg.5B)</p>
 <div style="border: 1px solid black; padding: 2px; font-size: small;">           Latitude: 17.237528            Longitude: 82.200082            Elevation: 26.05±21 m            Accuracy: 13.2 m            Time: 12-05-2023 13:18            Note: escape 67.1 pkg. 3a         </div>	 <div style="border: 1px solid black; padding: 2px; font-size: small;">           Latitude: 17.237935            Longitude: 82.200301            Elevation: 35.45±8 m            Accuracy: 11.7 m            Time: 12-05-2023 13:20            Note: escape 67.1 pkg. 3a         </div>
<p>Surplus Escape @ km 67.100,Pkg.3A, PIP-LMC</p>	<p>Surplus Escape @km 67.100, Pkg.3A, PIP-LMC</p>

## R&R ACTIVITIES

 <p>Latitude: 17.168724 Longitude: 81.199838 Elevation: 110.4321 m Accuracy: 6.3 m Time: 05-04-2023 09:49 Note: Taduvai R&amp;R colony-BW basement-H-1902</p> <p><i>Powered by NoteCam</i></p>	 <p>Latitude: 17.200069 Longitude: 81.211711 Elevation: 148.7655 m Accuracy: 3.9 m Time: 10-05-2023 12:17 Note: Mulagalampalli plastering H-30 Block No. 30</p> <p><i>Powered by NoteCam</i></p>
<p>Works at Taduvai R&amp;R Colony of Eluru District</p>	<p>House building works at Mulagalampalli R&amp;R Colony of Eluru District</p>
 <p>Latitude: 17.661892 Longitude: 80.959132 Elevation: 56.79±4 m Accuracy: 1.8 m Time: 06-13-2023 10:21 Note: RAYANAPETA R&amp;R COLONY EARTH WORK EXCAVATION FOR ROAD NO. 1 (BETWEEN PLOT NO. 29 AND 41) IS</p> <p><i>Powered by NoteCam</i></p>	 <p>Latitude: 17.607003 Longitude: 81.256539 Elevation: 45.09±100 m Accuracy: 2.8 m Time: 02-07-2023 13:04 Note: kondarajupeta (H) - LT</p> <p><i>Powered by NoteCam</i></p>
<p>Works at Rayanapeta R&amp;R Colony of Alluri seetharama Raju District</p>	<p>Joint Field visit at Kondarajupeta (H/V) of Kunavaram Mandal</p>
	 <p>Latitude: 17.263661 Longitude: 81.770397 Elevation: 79.29±100 m Accuracy: 3.6 m Time: 13-09-2023 11:56 Note: Roof slab reinforcement Id. No: T35 kambalampalem R&amp;R colony</p> <p><i>Powered by NoteCam</i></p>
<p>Ramannagudem R&amp;R colony in Eluru district</p>	<p>Works at Kambalampalem R&amp;R Colony of Alluri Seetharama Raju District</p>

## R&R ACTIVITIES



Joint visit of CE (P&D), PPA and PMCC-WAPCOS at Musallakunta R&R Colony of Alluri Seetharama Raju District



Works at Pedabhimipalli-3 R&R Colony of Alluri Seetharama Raju District

House building works at Rowthugudem R&R Colony of Eluru District



Sh. Shiv Nandan Kumar, CEO, PPA visit to Gokavaram R&R Colony, East Godavari District

## MEETINGS BY MINISTRY OF JAL SHAKTI, DoWR, RD & GR

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<p>Meeting under the chairmanship of Chairman, CWC with officials of PPA, CWC and WRD, GoAP on 24<sup>th</sup> July 2023 to discuss on excess seepage from U/s Cofferdam</p>	<p>Meeting under the chairmanship of Chairman , CWC with officials of PPA, CWC and WRD, GoAP on 5<sup>th</sup> June 2023 to discuss issue of settlement of Guide Bund</p>																																																		
<p>Internal meeting held under the Chairmanship of Member (D&amp;R), CWC on 27<sup>th</sup> March, on hiring of International experts</p>	<p>Meeting under the Chairmanship of Member (D&amp;R), CWC with officials of PPA, CWC and WRD, GoAP, M/s AFRY on 21<sup>st</sup> march, 2024</p>																																																		
<p>Meeting under the Chairmanship of Member (D&amp;R),CWC with officials of PPA,CWC and WRD, GoAP, M/s AFRY on 15<sup>th</sup> Feb 2024</p>	<p>Meeting of DDRP under the chairmanship of Chairman , A B Pandya ,CWC on 31<sup>st</sup> July 2023 .</p>																																																		

## MEETINGS OF PPA

 <p>Latitude: 17°17'46.3" N Longitude: 81°38'22.2" E Altitude: 52.1±1 m Accuracy: 13.4 m GPSTime: 21-11-23 12:53 PM Time zone: India Standard Time</p>	
<p>Meeting under the chairmanship of CEO, PPA at site conference hall with officials of WRD, GoAP, M/s MEIL &amp; PMCC-WAPCOS</p>	<p>Review Meeting by members of Fact Finding Committee at Site Conference Hall</p>
	
<p>Meeting under the chairmanship of CEO, PPA along with officials of CSMRS, WRD, GoAP, PMCC-WAPCOS &amp; M/s MEIL at Dam Conference Hall, Polavaram</p>	<p>Review Meeting of committee constituted by MoJS on Navigation Arrangements of Polavaram Irrigation Project</p>
	
<p>16<sup>th</sup> meeting of Polavaram Project Authority under the chairmanship of Shri Shiv Nandan Kumar, CEO, PPA</p>	<p>16<sup>th</sup> meeting of Polavaram Project Authority under the chairmanship of Shri Shiv Nandan Kumar, CEO, PPA</p>

## VISIT OF PPA OFFICIALS

 <p>Latitude: 17.282334 Longitude: 81.664927 Elevation: 13.16±8 m Accuracy: 11.1 m Time: 22-05-2023 12:00 Note: ECRF DAM Gap-2</p>	
CEO, PPA witnessing the results of ECPT at grid B6 in unscoured area of ECRF Dam Gap II along with officials of CSMRS, WRD, GoAP, PMCC-WAPCOS & M/s MEIL	CEO, PPA inaugurating Vibro Compaction on upstream side of D-wall (Grid A5)of ECRF Dam Gap II
	
CEO, PPA witnessing Piezometer readings at d/s toe of Upstream Cofferdam along with officials of CSMRS, WRD, GoAP, PMCC-WAPCOS & M/s MEIL	Visit of CEO, PPA along with officials of CSMRS, WRD, GoAP, PMCC-WAPCOS & M/s MEIL to Downstream Cofferdam
	
Visit of CEO, PPA along with officials of CSMRS, WRD, GoAP, PMCC-WAPCOS & M/s MEIL to Gap-I	Visit of CEO, PPA along with officials of CSMRS, WRD, GoAP, PMCC-WAPCOS & M/s MEIL to Spillway

## VISIT OF PPA OFFICIALS

	
Visit of CEO, PPA along with officials of WRD, GoAP, M/s MEIL & PMCC-WAPCOS to Gap-II	Visit of CEO, PPA along with officials of WRD, GoAP, M/s MEIL & PMCC-WAPCOS to Downstream Cofferdam
	
Visit of CEO, PPA to Open Channel constructed at downstream Cofferdam for dewatering from main dam	Visit of CEO, PPA to Vibro Compaction area at Gap II (Proposed Dam)
	
Visit of CEO, PPA to NH Crossing at Km 77.300 of RMC under Package-4	Visit of Director (A&C) of PPA to Piezometer installation location at saddle Dam 'F' of Pkg 62 (Right Connectivity)

## WELFARE ACTIVITIES OF PPA

	 <p>Latitude: 16.940952 Longitude: 80.209578 Elevation: 35.54±27 m Accuracy: 6.8 m Time: 30-03-2024 17:17 Note: swachhta pakhwada</p>
Cleaning of premises of PPA Hyderabad	Participation of PPA Officials in Plantation Programme at KG Bhawan, Hyderabad
	 <p>Latitude: 16.940947 Longitude: 80.209587 Elevation: 35.64±20 m Accuracy: 7.6 m Time: 30-03-2024 17:32 Note: swachhta pakhwada</p>
Participation of PPA Officials in Plantation Programme at K.G Bhawan, Hyderabad	Inauguration of Swachhata Pakhwada with Swachhta Pledge at PPA Office, Rajamahendravaram
	
Cleaning and Sanitization of premises of PPA, Hyderabad	World Water Day Pledge by CEO, PPA

## WELFARE ACTIVITIES OF PPA

	
Participation of PPA Officials in rally on Curbing Single Use Plastic event in Swachhta Pakwada 2024	Participation of PPA Officials in rally on Curbing Single Use Plastic event in Swachhta Pakwada 2024
	
Participation of PPA Officials in the event of rally on Curbing Single Use Plastic (SUP) at Swachhta Pakhwada 2024	Participation of PPA Officials at Swachhta Pakhwada event 2024
 <p>Latitude: 17.026256 Longitude: 81.803664 Elevation: 81.32±4 m Accuracy: 631 m Time: 31-03-2024 09:05 Note: swachhta pakhwada</p>	
Cleaning public spaces, spreading awareness campaign in nearby colonies & participation by PPA	Participation of PPA Officials in the event of Hindi Pakhwada 2024

## WELFARE ACTIVITIES OF PPA

 <p>Latitude: 17.003324 Longitude: 81.766988 Elevation: 419±4 m Accuracy: 4.5 m Time: 31-03-2024 07:04 Note: swachhta pakhwada</p> <p><i>Powered by NoteCam</i></p>	 <p>Latitude: 17.003057 Longitude: 81.766941 Elevation: 419±24 m Accuracy: 177.3 m Time: 31-03-2024 07:36 Note: swachhta pakhwada</p> <p><i>Powered By NoteCam</i></p>
Cleaning public spaces, spreading awareness campaign in Parks of SBI Colony, Lalcheruvu, Rajahmundry by PPA officials	Cleaning, Shramdaan at Markandeya Ghat, Godavari River Left Bank, Rajamahendravaram
	
Plantation during Swachhta Campaign by PPA	Cleaning public spaces, spreading awareness about sanitation by PPA officials





**Sand Filling by Dozing in scour areas of Main Dam area**



**Ground Improvement by Vibro-Sand Compaction in Main Dam Area**