



GOVERNMENT OF ODISHA
DEPARTMENT OF WATER RESOURCES

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**MAHANADI CHITROTPALA ISLAND IRRIGATION DIVISION,
MANIJANGA**

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NOTES ON
MAHANADI CHITROTPALA ISLAND IRRIGATION PROJECT (MCIIIP)

Govt. of Odisha proposed to execute Odisha Integrated Irrigated, Agriculture and Water-Management Investment Programme (OIIAWMIP) with the assistance of Asian Development Bank. The objective of the project is to enhance the productivity and sustainability and for improvement / extension of Major, Medium & Minor Irrigation Project. Mahanadi Chitrotpala Island Irrigation Project is one of the component proposed under Tranch –II of the Project.

River Mahanadi provides irrigation facility to about 3.03lakh/ha. under Mahanadi delta. The Mahanadi first bifurcates into two channels viz., Kathjori river and Mahanadi. An anicut was constructed across Mahanadi river during 1864. Kendrapara canal off-takes from left side of the Mahandi anicut. At 11.495m of Kendrapara Canal a link canal was constructed to cater the need of Mahanadi and Chitrapala Island Irrigation Project. The project originally estimated to cost Rs. 3993.7Lakhs to irrigate a CCA of 19542 ha was accepted by Planning Commission vide Lr. No. 2(294) 89-I & CAD dated 24.05.1989. Subsequently an area of 4200ha laying at the tail end of canal system was deferred due to water logging problems and the CCA has been restricted to 15342ha. Due to paucity of funds, the project was not constructed. However during 1995 Mahanadi Chitrapala project estimated to cost Rs. 124.72 Cr. To irrigate a CCA of 15342ha has been included as a component of World Bank aided Odisha Water Resources Consolidation Project (OWRCP). The Odisha Water Resources Consolidation Project was approved by Planning Commission on 27.09.1995.

The present proposal is to complete left over work of Mahanadi Chitrapala Project proposed under OWRCP through ADB Assistance. The Mahanadi Chitrotpala Island Irrigation Project (M.C.I.I. Project) is located in Salipar, Kishannagar and Nischintakoili blocks of Cuttack district, Tirtol and Raghunathpur blocks of Jagatsinghpur district and Marshaghai and Garadpur blocks of Kendrapara district. Due to closure of funding of OWRCP, the project could not be completed for delay, associated with land acquisition programmes. The present scope of work under Asian Development Bank (ADB) project proposes to focus on

left over stretches and attempt to complete the balance works, providing additional irrigation potential to a tune of 6366.24 Ha.

Project Proposal :

The Mahanadi Chitrotpala project component envisaged under World Bank aided OWRCP closed in 2004 are given below;

- i. Remodeling of existing Kendrapara Canal for a length of 11.890Km to carry an additional discharge of 27 cumecs.
- ii. Construction of Link canal of 8.68Km long.
- iii. Construction of 833m long syphon cum bridge across river Chitrotpala at Harichandanpur.
- iv. Construction of 497.6m long syphon cum bridge across river Paika at Krishanandapur.
- v. Construction of Mahanadi Left Canal of 28.03km² long and Chitrotpala Right Canal of 15.20Km length.
- vi. Construction of three branch canals namely a) Mahanadi Left Branch Canal of 11.495Km. b) Paika Left Branch Canal of 25.18Km c) Chitrotpala Right Branch Canal of 32.240Km d) Chitrotpala Right Canal of 15.20Km.
- vii. Construction of two distributary systems such as a) Mahanadi Left Distributary of 11.70Km length b) Paika Right Distributary of 20.22Km.
- viii. Construction of Minors and Sub-Minors.

Govt. of Odisha completed most of the above works except the following which are now proposed to be executed with assistance of Asian Development Bank covering an ayacut area of 6366.24Ha.

- i) Construction of Chitrotpala Right Branch Canal (CRBC) including construction of structures from RD 15.20Km to 27.14Km for a length of 11.94Km.
- ii) Re-sectioning of Paik Left Branch Canal (PLBC) including construction of structures from RD 15.00Km to 25.18Km. to a length of 10.18Km.
- iii) Construction of new canal including construction of structures of 25 nos. of minors & sub-minors of CRBC and 20 new minors and sub-minors canals in PLBC to a total no. of 45 Nos. is proposed under ADB Assistance.

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SALIENT FEATURES

1. Name of the Project : Mahanadi Chitrotpala Island Irrigation Project
State : Orissa
District : Cuttack, Kendrapara & Jagatsinghpur

- LOCATION** :
- A. Head works : Mahanadi Barrage (Existing at Cuttack)
Latitude : $20^{\circ} - 24' - 0''$ N
Longitude : $86^{\circ} - 57' - 30''$ E
- B. Ayacut
- a. Ayacut Boundary : Between River Mahanadi – Chitrotpala and River Mahanadi - Paika
- b. District : Cuttack, Jagatsinghpur & Kendrapara
Latitude : $20^{\circ} - 19' - 30''$ to $20^{\circ} - 28' - 30''$ N
Longitude : $86^{\circ} - 03' - 30''$ to $86^{\circ} - 35' - 30''$ E

2. **LOCAL FEATURES**
- a. No. of Villages benefited : 299
- b. Population : 2,56,700
- c. Rainfall
Mean annual rainfall : 119.80 MM.
Maximum annual rainfall : 2447.50 MM.
Minimum annual rainfall : 950.70 MM.

3. **COMMAND AREA**
- a. Gross Command Area : 27,920 Ha. / 19,542 Ha.
- b. Cultivable command area : 19,542 Ha. / 15,342 Ha.
- (i) Mahanadi Chitrotpala Doab : 11,193 Ha.
- (ii) Mahanadi Paika Doab : 4,149 Ha.

4. **CANAL SYSTEM**
- a) Canal syphon across river Chitrotpala
- b) Canal syphon across river Paika
- c) Head discharge capacity of main canal : 26.9 cumecs
- d) Remodelling length of existing Kendrapara Main Canal : 10.435 Km.
- e) Length of Link Canal from Barbodia to Harichandanpur : 8.679 Km.
- f) Length of Chitrotpala Right Canal : 15.200 Km.
- g) Length of CRBC : 32.24 Km.

