

KUTULISINGHA IRRIGATION PROJECT

The Kutulisingha Irrigation Project is a Reservoir Project proposed in Mahanadi Basin. The proposed project envisages construction of a dam across the tributary of Sindoljhore near village Kutulisingha. The nallah originates from the hill ranges of Tabada and traverses in East-West direction and joins Sindoljhore near village Thakurgarh. The Sindoljhore out falls to river Mahanadi near Koandipaleswar.

The catchment area at the proposed dam site is 83.30Sq.km. The project is located near the village Kutulisingha in Athamallik Sub-division of Dhenkanal district. The project site is located at a latitude $20^{\circ}-48'-20''$ N. and longitude $84^{\circ}-41'-30''$ E vide Topo sheet no-73 D/9 & 73 D/13.

The proposed project site is 31km from Athamallik block. The nearest railway station is Boinda, which is 21km. There is only one rain gauge station i.e. Kundajhari located inside the catchment area of the project.

The G.C.A. of the project is 3790 Ha. It is proposed to provide irrigation to an C.C.A. of 2540 Ha. It is proposed to provide irrigation to an area of 2286 Ha in Khariff and to an area of 1016 Ha in Rabi. The command level of the ayacut is 182.00 m. The F.R.L. fixed at 201.00 m found to be adequate to meet the irrigation requirement and domestic requirement from the proposed reservoir.

The design Flood is found to be $979 \text{ m}^3/\text{sec}$. It is proposed to construct an earth dam of 300 m length with ogee crested central spillway of length 48 m. 4 Nos. of crest gates of size 12 m x 6 m are proposed to be provided. The crest level of spillway may be kept as 195.00 M. The total area coming under reservoir submergence is 144 Ha. No villages will be affected due to reservoir submergence.