

RANJORE IRRIGATION PROJECT

The Ranjore Irrigation Project is a dam project proposed in Mahanadi basin across Ranjore river a tributary to river Jeera, which in turn is a tributary of the river Mahanadi at village Sarandapali of Barpali Block at Latitude $21^{\circ}-14'-29''$ N. Longitude $83^{\circ}-29'-07''$ E. in Bargarh District of Odisha. The project envisages construction of a 1920 m. long homogenous Rolled Earth fill dam, besides a spillway of length 72 m. proposed at the central portion of dam axis.

The Project area is to benefit Bijepur and Barpali blocks of Bargarh district, which are chronically drought prone area, inhabited mostly by poor people belonging primarily scheduled caste and scheduled tribe and other backward classes. The only source of income for the inhabitants of this area is agriculture. Therefore, the project is absolutely necessary to improve the agriculture output and economy of the region to mitigate the misery of a sizeable population, mostly belonging to SC, ST and other backward classes.

The site is about 15 km. away from Bargarh towards Bijepur. about 25 km from the nearest Railway station of East Coast Railways, Bargarh and about 350 km. from the State Capital and nearest Airport, Bhubaneswar.

The total Catchment area of the proposed project at dam site is 123 sq. km. Catchment lies entirely within the district Bargarh of Odisha and as such there are no Inter-State issues. It is fan shaped and is surrounded by steep hills and covered with degraded forest growth.

This medium irrigation project will provide Irrigation facility to 5500 ha. of GCA and 4125 ha. of CCA. in the drought prone area of Western Odisha.

The catchment as well as command area is moderately populated. On Completion, the inhabitants of 16 villages of Barpali and Bijepur blocks of Bargarh district will be benefited by the assured irrigation facilities and will be able to generate resources for development in the area.

The two main canals are proposed to originate from the head regulator located on either side of the dam. The length of left main canal is 7.50 km. and the design discharge of 3.01 cumecs. The length of right main canal is 10 km.