

## **KALA BARRAGE PROJECT**

Originally it was contemplated to construct a reservoir project across Kala nallah at Lat. 21<sup>0</sup>-34'-48" & Long. 85<sup>0</sup>-04'-00" E near village Kaliapal in Deogarh District. The original proposed project envisages construction of an earth dam of length 400m with spillway of designed discharged capacity of 1588.24 Cumecs. The water-spread area of the project was 582 Ha. at FRL 170.00 m. The project involves submergence of 5 nos. of villages.

During survey and investigation work it was seen that the habitants of the villages to be submerged were mostly re-habilitated from Rengali Project for which there was stiff resistance from these villagers for the proposed project. During the study it was seen that the ayacut lies mostly below RL 150.00m & on the left side of the nallah. The Geological report of the drill holes made at the barrage site also indicates that the rock strata is not suitable for construction of a massive hydraulic structure. Taking into consideration these views it was finally decided to study feasibility of a barrage at the original proposed dam axis. On completion of the barrage project approximately 4050 Ha. of land will be irrigated in the district of Deogarh which is mostly rain fed & drought prone. The reference topo-sheets are 73 G/1, G/2, G/3, C/13, C/14 & C/15. The nearest Railway Station is Bimlagarh. "Kala" nallah originates from Deogarh pahar in Deogarh District and merges with the Rengali reservoir i.e. River Brahmani. The Kala Nallah is a left tributary of river Brahmani in Brahmani basin. The catchment area at the Barrage site is 185 Sq. km. It is surrounded by steep hills and covered with forest growth. The command area is moderately populated covering 22 Nos. of villages. The population mainly consists of S.T, S.C and other Backward Classes and above all are the displaced persons of the Rengali Major Irrigation Project.

The G.C.A. of the project is 4500 Ha. It is proposed to provide irrigation to an C.C.A. of 4050 Ha. It is proposed to provide irrigation to an area of 3600 Ha in Khariff. On completion of the project the local people will immediately enjoy the facilities of assured irrigation and will be able to generate resources for development of the area. The pond level of the barrage is kept 150.00m. The barrage is designed for a maximum flood discharge of 1194 Cumecs.