

## Justification for locating Kala Barrage Project

Following alternatives were examined during the project formulation stage of the proposal for placing a barrage project across Kala nallah keeping view of all accept to get protium benefits. The site evaluated were....

### 1-1<sup>st</sup> Alternative:

Originally it was contemplated to construct a reservoir project across Kala Nallah at Latitude 21° 34 '48" (N) and Longitude 85° 04' 00" (E) near village Kaliapal in Deogarh District during survey work it was found that ousters of the Rengali Irrigation Project have been rehabilitated in the reservoir of the proposed project. As such the villagers of the proposed reservoir area objected to the project and it was instructed by Chief Engineer, Project Planning and Formulation on date 01/06/2004 to take up 5/l work at alternate site.

### 2-2nd Alternative:

The proposed barrage was located near village Bankihaving Latitude 21° 36'35" (N) and Longitude 85°04'01" (E). The pond level of the barrage was 171.50m with pond area 170 Ha. The Geological report of the drill holes made at the Barrage site also indicates that the rock strata are not suitable for the construction of massive hydraulic structure.

### 3-3rd Alternative:

Kala Barrage project across kala nallah was envisaged near Kaliapal Village having Latitude 21°34'48" (N) and Longitude 85°04'00" (E). There is exposed rock avail age in barrage base and it has less submergence as it is a barrage project.

The 3<sup>rd</sup> alternative has been selected for construction of a barrage due to low submergence area and less impact on forest land compare to other two alternatives. Moreover, no habitation will be displaced due to the scheme.

To irrigate the command area to contour canals are planned. These canals follow contour which is directed by topography. It balances the depth of canals.

  
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