

Justification for locating the project in forest land and detailed alternate examined

Water is a prime requirement for drinking water and irrigation purpose. As Barbil, Champua, Jhumpura, Keonjhar Sadar and Patna Tahasil of Keonjhar District are drought prone area, the local people are depending only on the natural rain fall for their agricultural yield and drinking water purposes. As the rain fall is inadequate and unevenly distributed the agriculture yield is very low, which is only source of their income. So an Irrigation Project is absolutely necessary of the region to mitigate the misery of a sizeable population, mostly belonging to Schedule Tribes Schedule casts and other backward classes. So it is necessary to construct one Dam and Canal System at Basudevpur in Keonjhar District for Irrigation to agriculture land as well as drinking water purposes of the local people.

The natural features of the area for creation of Reservoir at Basudevpur with one Right Main Canal of Irrigation project with best economy has justified the reason of locating the project in the above area.

There was an earlier proposal during 1979 selected the dam site near village Kanupur 4.5 Km downstream of the present proposal for construction of a masonry Dam.

While the project report was being examined by different directorates of Central Water Commission it is observed that the reservoir submerged valuable natural properties such as 15 Km of NH 520 (the then SH-10B), 3 extra full villages, 24 Kms of 132/220 KV transmission line, 30 Km of 33 KV Transmission line, 30 Km of 11 KV transmission line, telephone lines and some mines area.

Hence an alternate site at village Basudevpur was selected for the Reservoir purpose and the diversion proposal filed and got Stage-II clearance from MoEF & CC, GOI. Now for proposal is required for the Canal system comprising of 244Nos villages and 9 Nos of partly affected Reserve Forest in Keonjhar Forest Division involving 310.110 Ha of forest land out of total 1669.986 Ha of land required for this canal system.

Now, the proposal for diversion of forest land for the Right Main Canal System of Kanupur Irrigation Project is required diversion of 310.110 Ha of forest land for irrigation purposes for the benefit of 1, 44, 888 Nos of people of the nearby villages.

Not only the suitable location was considered and identified for construction of Kanupur Canal System Project but also it was emphasized to reduce destroying the cultivated land as well as virgin forest land. So in this case best site is selected for Kanupur Canal System in technical point of view as well as barest minimum use of Forest land.



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Detailed Alternate Alignment Route Survey is given below: -

During walk over survey of the routes all possible alternatives has been explored to reduce the area of Forest land, avoiding thick populated villages, Dense vegetation, and Transmission lines and route no. 3 is suitable for this project.

Right Main Canal: -


Route No. 1: -Total length of route is 66.20 Kms. Total forest land is involved 334.780 Ha. The Full Supply Level (FSL) is not acceptable as it is not economical as per the design parameter of the Reservoir and this route is providing less command area, this route also passes through some populated villages.

Route No. 2: - The length of the route is 73.90 Kms. Total forest land is involved 311.411 Ha. The Full Supply Level (FSL) is not accepting table, as it is not economical as per design parameter of the Reservoir and the route is providing less command area.

Route No. 3:- The length of route is 78.21 Kms. Total forest land is involved 310.110 Ha. The Full Supply Level (FSL) is justified to have a maximum command area. From Geological Investigation, fresh out crop rock is available at the present site (axis) and this route considered feasible and appropriate.

After extensive exercise the above 3 routes (Route-1, Route-2, and Route-3) are analyzed for Construction of Canal System of Kanupur Canal System Project. Out of the above 3 routes, Route No. 3 has been finalized for the following reasons

1. The canal FSL (Full Supply level) is justified to have a maximum command area.
2. If the axis is shifted to U/S side, then some habitants will be displaced.
3. If the axis is shifted to D/S, then the FSL of canal will be decreased and hence a less in command area.
4. From geological Investigation, fresh out crop of rock is available at present site (Axis) and hence this route is considered feasible and appropriate.



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