

### Justification for locating the project in forest area.

The 25 MW Shaheed Lakhan Nayak Small Hydroelectric Project is planned to tap the renewable energy available on Kolab River without involving any land submergence. It is proposed not to create any pondage or reservoir and only utilize the flowing water in the most economical way and hence a Run-off-the river scheme has been designed.

The layout had been finalized after extensive studies by our consultants, M/s. Ellen and Lite Consultants and M/s. Gods Consultants as every Hydro Electric Project site is unique and site specific due to the constraints posed by hydrology, topography and geology. Three alternative layouts have been studied for the purpose. Since the other two alternative sites studied i.e. Alternative site 2 and Alternative site 3 would acquire much more area of 7.370 Hectares and 11.684 Hectares and that too from the Tulsi Reserve Forest and Dandrakhol Reserve Forest respectively this Alternative 1 site has been selected. A Toposheet showing all the three Alternatives examined is enclosed herewith for your reference.

Alternate site 1 of the Shaheed Lakhan Nayak Scheme has been selected for the following reasons :

1. The Odisha Government vide Notification No.PPD-II-9/03 4970 Dated 21/05/2004 has directed to carry out survey and investigations at alternative site 1 located in Tentuligumma Village
2. There is a 23 m natural fall available on the river bed, within 300m stretch of the Kolab River, which makes it an ideal site for this hydropower generation scheme.
3. Kolab River in this reach flows in between two hill ranges on either side. The site would thus prevent any land submergence due to afflux (likely due to construction of a Barrage Structure across the river.
4. Due to existence of hillocks on the river banks, the water conductor system will be designed as one 6.0 m dia. tunnel structure. Such construction would ensure the top forest cover to remain intact with least disturbance to the existing eco-system.
7. The Alternative 1 layout is planned with most economic usage of forestland and hence forth only 4.902 Hectares of forest is required.
8. The proposed layout of Alternative 1 is passing through Plot Nos.21, 23,24, 25, 26, 422, 783 and 784 with Jangal Kisam of village Tentuligumma .

  
Divisional Forest Officer  
Malkangiri Forest Division  
Malkangiri

For Meenakshi Odisha Power Pvt. Ltd.



Director

9. The road layout in Alternative 1 is planned in such a way that it does not go into the deep forest and passes through the area with very less vegetation.

10. After completion of construction and commencement of generation of power, there will not be many disturbances in the forest area as Hydel plants require very little manpower for operation and are free from any type of pollution.

11. This project is supposed to generate 90 million units of energy at 90% dependability and maximum of 120 million units of energy per annum.

  
Divisional Forest Officer  
Malkangiri Forest Division  
Malkangiri

For Meenakshi Odisha Power Pvt. Ltd.



Director