

## DETAIL NOTE ON PROJECTS

Govt of India, Ministry of Railway approved construction of Talcher-Bimlagarh Railway line by East Coast Railway, Bhubaneswar. Based on approval, East Coast Railway has proposed for diversion of existing 400 KV Double Circuit Talcher - Meramundali transmission line for proper crossing of newly constructed Railway line. Based on the above existing 400KV D/C Talcher -Meramundali transmission line is proposed to be diverted from 29 (N 21° 05'34.800", E85° 07'38.064") to Loc No 32 (N21° 05'20.040", E85° 08'14.964). The route map of diversion portion has been drawn on Toposheet of Survey of India in 1:50000 scale (Toposheet No.F45N4).

400KV D/C Talcher -Meramundali transmission line shall carry about 2000 MW. Approx 0.301 km of the total line length falls in the forest area of Angul Forest Division. Total project cost is Rs. 8.897 crores.

Out of the three alternative routes shown in the route map enclosed, the alternative-I is the best suitable route because of environmental and techno-economic considerations. Alternative-I covers minimum forest area and minimum line length and least disturbance to flora and fauna. It also has the less forest density. Alternative-II shall involve a forest area of about 7.5 ha. whereas alternative-III shall involve an area of about 8.3 hectares. This route (Alt.-I) does not cross any environmental sensitive area, wild life area or any endangered species.

The villages of Angul district through which the proposed diversion portion of Transmission line passes are as follows: Bethiabhuin, Ratanpur & Kulei

About 60 local persons shall be engaged during construction period of the transmission line in Angul district and after commissioning of the project employment opportunity generated in agriculture and industrial sectors shall remain unchanged.

The cost - benefit analysis is enclosed at Annex. - IV. The summary of the cost benefit Analysis is mentioned as follows:

- a) Total loss per annum due to the loss of timber, firewood, MFP, manpower, fodder and environmental loss due to the loss of forest

Rs. (in Crores)= 0.2172

- b) Total benefit to economy due to transmission of electrical power of 2562300000 units per annum by the proposed line @ Rs. 6.0 per unit

Rs. (in Crores)= 3074.76

- c) Hence, the cost benefit ratio of the transmission line project involving diversion of 1.384 Ha. of forest land is  $0.2172:3074.76 = 1 : 14154$

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NDA

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