

Goa- Tamnar Transmission Project Limited,

Building No 14089/0/3, 1st Floor, Saraswarpur, Kalaghatagi, Dharwad, Karnataka - 580002

COST BENEFIT ANALYSIS

Project: Diversion of 174.652 Ha. of Forest land (142.626 Ha Forest area + 32.026 Ha WL area) for laying of LILO of one ckt. of Narendra (existing) – Narendra (New) 400kV D/c quad line at Xeldem in the State of Karnataka under the scheme of Additional 400 kV feed to Goa State.

Table B- Estimation of cost of forest diversion (as per MoEF&CC Guideline dated 1st Aug 2017) related to cost benefit analysis)

Sl No	Parameters	Remarks (For Transmission Line)
1	Ecosystem Services losses due to proposed forest diversion	NPV of the forest land being diverted i.e Govt. Forest and Wildlife = $(142.626 \times 15.9572 + 32.026 \times \text{Rs. } 15.9572 \times 5) = \text{Rs. } 4831.1380 \text{ lac}$ Total = Rs 4831.1380 lac
2	Loss of animal husbandry productivity including loss of fodder.	Productivity of livestock will not be affected due to construction of transmission line. 10% of NPV Applicable i.e. Rs. 483.1138 lac
3	Cost of human resettlement.	Since there is no displacement of people due to the project hence there would be no cost of human resettlement.
4	Loss of public facilities & administration infra-structure (roads, building, school, dispensary, electric lines, railways etc.) on forest land or which would require forest land if these facilities were diverted due to project.	Not applicable, Since these facilities are not available inside the forest area for proposed diversion. The route/corridor of the Transmission line not affecting any public facilities on diverted forest land.
5	Possession value of forest land diverted.	30% of Environmental Costs (NPV) i.e. Rs. 1449.3414 lac
6	Cost of suffering of oustees	Not applicable since there will be no displacement of peoples.
7	Habitat Fragmentation Cost	50% of NPV Applicable as thumb rule i.e. Rs. 2415.5690 lac
8	Compensatory Afforestation and Soil & Moisture Conservation Cost	Comp. Affn. cost Rs. 6413.2214 lac Soil & Moisture Conservation cost included in Comp. Afforestation cost.
Total Loss (Against the proposed forest land diversion)		Rs. 15592.3837 lacs



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Table C- Estimation of Benefit of Forest Diversion in Cost Benefit Analysis (as per MoEF&CC Guideline dated 1st Aug 2017 related to cost benefit analysis)

SN	Parameters	Remarks (For Transmission Line)
1	Increase in Productively attribute to the specific project.	There are 1200 MW increase in productively attributes to this project for 35 years. Monetary Benefits 2540160 lacs
2	Benefit to economy due to the specific project	NA
3	No of population benefited due to specific project	Evacuation of approx. 1200 MW Power by constructing said transmission line in the State of Goa will illuminate thousands of families along with the generation of huge job opportunities during construction & maintenance activity under Goa, Karnataka & Chhattisgarh states.
4.	Economic benefit due to direct and indirect employment due to the project	7797.5 lacs (in 35 years)
5.	Economic benefits due to Compensatory Afforestation	Rs. 18.36 lac x 349.304 ha (as per Guideline issued by MoEF, vide, letter No.F.No.5-3/2007/FC, Dt.05.02.2009) = Rs. 6413.2214 lac approx.
	T o t a l (monetary Benefits)	Rs. 2554371 lac

C. Cost Benefit Ratio i.e., Project Benefit / Forest loss = (164:01)

Hence the Project has very high benefit to the country as compared to forest loss. **The benefit to loss ratio is approximate 164 times.**

Date: 25-08-2023

Place: Dharwad

Signature :

Name in Block Letter: Nitin Agrawal

Designation : Chief Manager

Address of Agency: Goa Tamnar Transmission Project Limited,
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