

COST BENEFIT ANALYSIS

Project: Diversion of 15.701 Ha. Of Revenue Forest land in Villages Dulanga, Ghumudasan and Manoharpur under Hemgir tahasil of Sundergarh Dist.for Coal Mining In Manoharpur Coal Mine by M/S Odisha Coal & Power Ltd. under DFO, Sundergarh Division.

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

SN	Parameters	Remarks
1	Ecosystem Services losses due to proposed forest diversion. NPV of the forest land being diverted i.e Revenue Forest 15.701 ha x Rs.7.30 lac= Rs. 114.62 lac (Assuming Canopy Density 0.3)	Rs.114.62 lac
2	Loss of animal husbandry productivity including loss of fodder.	10% of NPV Applicable i.e. Rs.11.462 lac
3	Cost of human resettlement.	No R & R is involved .
4	Loss of public facilities & administration infra-structure (roads,building, school, dispensary, electric lines, railways etc.) on forest land .	Not applicable, Since these facilities are not available inside the forest area for proposed diversion.
5	Possession value of forest land diverted.	30% of Environmental Costs (NPV) i.e Rs.34.40 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 Rs57.31 lac
8	Compensatory Afforestation and Soil & Moisture Conservation Cost	Rs.54.15 lac
Total Loss (Against the proposed forest land diversion)		Rs.271.942 lac

**Divisional Forest Officer
Sundergarh Division**

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
1	Increase in Productivity attribute to the specific project	800 lacs.
2	Benefit to economy due to the specific project	3865 lac
3	No of population benefited due to specific project	700 persons
4.	Economic benefit due to direct and indirect employment due to the project	Socio economic condition of the persons to be employed/ engaged will be increased.
5.	Economic benefits due to Compensatory Afforestation	Rs.7.30 lac x 15.701 ha = Rs.114.62 lac
	T o t a l (2 + 5)	Rs.3979.62 lac

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COST BENEFIT RATIO OF THE PROJECT=:

Benefit **Rs.3979.62 lac**
Loss **Rs.271.942 lac**
Ratio **1 : 14.634 or 1: 15**

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