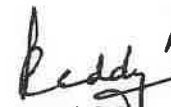


COST BENEFIT ANALYSIS

Project: Diversion of 342.87 Ha of forest land (176.59 Reserved Forest land and 166.28 Ha of Revenue Forest land) for mining of Dip-side Manoharpur Coal Mine Block of OCPL in Sundargarh Dist.

Table B – Estimation of cost of forest diversion (as per MoEF&CC Guideline related to cost benefit analysis)

SN	Parameters	Remarks
1.	Ecosystem Services losses due to proposed forest diversion- NPV as per guidelines dt. 06.01.2022 of MoEF&CC NPV of the forest land being diverted i.e. Reserved Forest (Eco Class III having density of 0.4) 176.59 ha @ Rs. 12.28 lac (A) = Rs. 2168.5252 lac Revenue Forest (Eco Class III having density of 0.3) 166.28 ha @ Rs. 9.57 lac (B) = Rs. 1591.2996 lac Total (A+B) = 3759.82 lac	Rs. 3759.82 Lac
2.	Loss of animal husbandry productivity including loss of fodder	10% of NPV applicable i.e. Rs. 375.98 Lac
3.	Cost of human resettlement	Rs. 8500 Lac
4.	Loss of public facilities & administration infra-structure (roads, building, school, dispensary, electric lines, railways etc.) on forest land.	Not Applicable
5.	Possession value of forest land diverted	30 % of NPV i.e. Rs. 1127.94 Lacs
6.	Cost of suffering of oustees	190 person x Rs. 340/- per day x 2 years (730 days) x 1.5 times = Rs. 707.37 Lacs
7.	Habitat Fragmentation Cost	50% of NPV applicable as thumb rule i.e. Rs. 1879.91 Lacs
8.	Compensatory Afforestation and Soil & Moisture Conservation Cost 20797.61 Lacs	Rs. 639.57 Lacs 44,46,59,300.00
	Total	Rs. 16990.59 Lacs
	or say	Rs. 169.90 Cr.


Addl. General Manager (Mines)
Odisha Coal and Power Ltd.
AGM, Mines
OCPL


26.12.22
Divisional Forest Officer
Sundargarh Forest Division
Divisional Forest Officer
Sundargarh Forest Division

Table C – Estimation of Benefit of Forest Diversion in Cost Benefit Analysis (as per MoEF&CC Guideline related to cost benefit analysis)

SN	Parameters	Remarks
1.	Increase in Productivity attribute to the specific project. (If raw coal will be sold in million ton x sale price)	Increase in productivity due to sale of raw coal = Rs. 36384 Cr (480 Million tonnes coal @ Rs. 758 /- sale per tonne of G14)
2.	Benefit to economy due to the specific project	Benefit of the Project to be furnished here in shape of - Total sale value is Rs. 36384 Cr - Profit is Rs. 9600 Cr (480 Million tonnes coal @ Rs. 200 /- profit per tonne)
3.	No. of population benefitted due to specific project	No. of Population to be benefitted here – 10,000
4.	Economic benefit due to direct and indirect employment due to the project	Socio economic condition of the persons to be employed will be increased. Besides, the direct employment, the operation of Dip-side Manoharpur Coal Mine has the potential to create indirect employment opportunities in the service sector and is expected to provide a major boost to local economy.
5.	Economic benefits due to Compensatory Afforestation <i>After 50 yrs = 342.87 x 0.999 x 50 yrs = 8554.60 Lakhs.</i>	Rs. 9.57 lac x 342.87 ha (as per Guideline issued by MoEF vide letter No. F.No.5-3/2011_FC (Vol-I) dt. 06.01.2022) = Rs. 3281.26 lacs Or say = 32.81 Cr. <i>8554.60 Lakhs.</i>
	Total	Rs. 9632.81 Cr <i>4606954.60</i>

COST BENEFIT RATIO OF THE PROJECT =

Benefit **Rs. 9632.81 Cr** *4606954.60*

Loss **Rs. 169.90 Cr.** *20797.61*

Ratio **1:56** *1 : 221.514*

Raddy
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