

A comparative statement with and without external OB dumping

Particulars	With External Dump	Without External Dump
Geological Reserve (Million T)	166.18	166.18
Extractable reserve (Million T)	116.69	75
Life of Mine (years)	32	20

Cost Benefit Analysis for Forest Land involved in OB Dump (Including 24.59 Ha Forest Land involved within the Coal Block)

Basic parameters used for the assessment.

Without external OB dumping: 41.69 MT coal shall be sterilized which otherwise could have been extracted.

Total Coal Loss: 41.69 million tons

Grade of the coal: G10

NCI price the G10 grade coal: Rs 3099/Ton

Cost of mining: Rs 1985/Ton

Estimation of deemed Natural resource of forest.

SN	Item	Description	Value (in Rs Cr)
C1	Project Costs	Ecosystem services losses due to forest land involved in OB dumping (Basis- NPV Rates)	11.04

C2		Loss of animal Husbandry (10% of C1)	1.10
C3		Cost of human settlement	0.00
C4		Loss of public facilities and administrative infrastructure on forest land which would be required to be diverted because of OB dumping on forest land	0.00
C5		Possession of value on forest land diverted (Basis- Land Rate)	6.46
C6		Cost of suffering to outsees	0.00
C7		Habitation fragmentation cost (Basis- 50 % of C1)	5.52
C8		Compensatory afforestation and Soil & Moisture conservation cost	11.30
		Total Cost	35.42
B1	Project Benefits	Increased productivity because of additional coal been able to mine [tonnage*(Revenue - Cost)]	4644.266
B2		Revenue sharing with Govt (20.75%* Sale Value *Tonnage)	2680.84
B3		Royalty payment (14% * Sale Value *Tonnage)	1808.76
B4		Forest Transit Fee (Rs 57 * Tonnage)	237.63
B5		Jharkhand Covid Cess (Rs 10/T)	41.69

B6	District Mineral Fund (10% of Royalty)	180.88
B7	NMET (2% of Royalty)	36.18
B8	Compensatory Cess (Rs 400/T)	1667.60
B9	GST @5%	893.20
	Total Benefits	12191.05

Cost benefit Ratio: (Total Benefits/Total Cost)

$$= 12191.05/35.42$$

$$= 344.185$$

Authorized Signatory


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