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ANNEXURE IX

COST - BENEFIT ANALYSIS FOR PROJECTS INVOLVING FOREST LAND

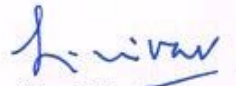
APPLICATION FOR DIVERSION OF 17.994 Ha. OF FOREST LAND FOR RG OC MINE

II. Estimation of Benefits

Sl No.	Parameters	Value in Rs lakhs	Remarks
1	Increase in productivity attributable to the specific project	106507.12	NPV of Project net cashflow at 100% performance level @ 10% discount rate
2	Benefits to economy due to the specific project	1075330.61	NPV of benefits to economy over project life @ 10% discount rate Royalty @ 14% of Basic ROM Price 2% on Royalty for National Mineral Exploration Trust 30% on Royalty for District Mineral Foundation Trust GST Compensation Cess @ Rs 400/T GST 5%
3	No of population benefited due to specific project	1000 Nos.	Project Manpower (Departmental + Outsourcing if any)
4	Economic benefits due to the direct and indirect employment due to the project	1007051.17	NPV of estimated Wages for Project manpower and indirect benefits calculated for 5 times project manpower with prevailing unskilled wage rate of Telangana State.
5	Economic benefits due to compensatory afforestation	11.70	Calculated as per Standard Compensatory Afforestation Restoration Factor (SCARF) Adjustment Rate of Rs 0.65 Lakhs per ha for Dry Deciduous Forest Land for the proposed forest area to be diverted (based on Study Report by IIFM Bhopal)
	TOTAL BENEFITS	2188900.59	

TOTAL BENEFITS 2188900.59
TOTAL LOSSES 64951.13
COST : BENEFIT RATIO 1 : 33.70

Forest Division Officer
Peddapalli Division



General Manager
Singareni Collieries Company limited,
Adriyala Project Area

ANNEXURE VIII

COST - BENEFIT ANALYSIS FOR PROJECTS INVOLVING FOREST LAND
APPLICATION FOR DIVERSION OF 17.994 Ha. OF FOREST LAND FOR RG OC MINE

I. Estimation of Costs

Sl No.	Parameters	Value in Rs lakhs	Remarks
1	Ecosystem Services losses due to proposed forest diversion	144.49	NPV OF 17.994 Ha. OF FOREST LAND @ Rs 8.03 Lakhs/Ha
2	Loss of Animal Husbandry productivity, including loss of fodder	14.45	10% of NPV
3	Cost of Human Resettlement	52025.00	Towards 2081 Nos of PDFs @ Rs 25.00 Lakhs / PDF
4	Loss of Public facilities and administrative infrastructure (Roads, buildings, schools, dispensaries, electric lines, railways, etc) on forest land, which would require forest land if these facilities were diverted due to the project.	0.00	There are no public facilities in the proposed area
5	Possession Value of forest land diverted	43.35	30% of NPV
6	Cost of Suffering to Oustees	12417.67	1.5 times of two years wage cost of PDFs as per Minimum Wages
7	Habitat Fragmentation Cost	72.25	50% of NPV
8	Compensatory afforestation and soil & moisture conservation cost	233.92	Cost of compensatory afforestation and soil & moisture conservation @ Rs 6.5 Lakhs per Ha for twice the forest land involved
	TOTAL COSTS	64951.13	

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