

COST BENEFIT ANALYSIS RATIO

Benefit to economy :Rs. 1096,01,44,77,962.24

Loss on Forests :Rs. 269,59,14,419.00

Cost- Benefit Ratio : 1: 406.5464653

ESTIMATE BENEFITS OF FOREST DIVERSION

TOTAL PRODUCTION CAPACITY : **40 MT**

YEAR OF LIFE : **41 YEARS**

TOTAL COAL RESERVE : **1720256000 Te.**

RATE OF COAL PER TONNE : **Rs. 1082 per Te**

PROFIT TO PROJECT : **Rs. 637 per Te.**

S.No	Parameters	Remarks
1.	Increase in productively attribute to the specific project	172,02,56,000 te x Rs.1082/- per te.= Rs. 1861,31,69,92,000.00
2.	Benefits to economy due to the specific project	172,02,56,000 te x Rs.637/- per te.(Profit)= Rs. 1095,80,30,72,000
3.	No of population benefitted due to specific project	15,000 nos.
4.	Economic benefits due to direct and indirect employment due to the project	6000 persons
5.	Economic benefits due to compensatory afforestation	Rs. 140800.00 x 417.073 ha. x 12% x 30 years = Rs. 21,14,05,962.24
	Total (S.No 2 +S.No 5)	Rs. 1096,01,44,77,962.24

COST BENEFIT ANALYSIS GUIDELINES FOR FOREST LAND DIVERSION -2019

ESTIMATION OF COST OF FOREST DIVERSION:-

THE ESTIMATED NPV OF THE FOREST LAND: Rs. 8,03,000.

S.No	Parameters	Remarks
1.	Ecosystem services losses due to proposed forest diversion	Rs. 8,03,000 x 417.073ha =Rs. 33,49,09,619
2.	Loss of animal husbandry productivity, including loss of fodder	10% of NPV= Rs. 3,34,90,961.9
3.	Cost of human resettlement	1241 Project Displaced families x Rs. 10,16,000/- R& R package each= Rs. 126,08,56,000
4.	Loss of public facilities and administrative infrastructure(Roads, building, Schools, dispensaries, electric lines, railways etc.) on forest land, which would require forest land if these facilities were diverted due to project	Rs. 00.00
5.	Possession value of forest land diverted	30% of NPV= Rs. 10,04,72,886
6.	Cost of suffering to oustees	Rs. 2000000/- as benchmark value of land x 242.887293 Ac x 1.5 = Rs. 728661879
7.	Habitat fragmentation cost	50% of NPV= Rs. 16,74,54,810
8.	Compensatory afforestation and soil & moisture conservation cost	Rs. 1,40,000/- x417.073 ha x 1.20 = Rs.7,00,68,264.00(approx)
9.	Total Cost:	Rs. 269,59,14,419