

COST BENEFIT ANALYSIS

COST BENEFIT ANALYSIS GUIDELINES FOR FOREST LAND DIVERSION-2017

ESTIMATION OF COST OF FOREST DIVERSION :-

THE ESTIMATED NPV COST OF FOREST LAND: Rs 9,57,780/- Per Ha

(ECO value class-III, Canopy Density-35%)

SN	Parameters	Remarks
1	Ecosystem services losses due to proposed forest diversion	Rs.9,57,780/- x 125.24 ha. = Rs.11,99,52,367
2	Loss of animal husbandry productivity, including loss of fodder	10% of NPV = Rs.11995236.70
3	Cost of human resettlement	1853 project displaced families x Rs938000/- R&R package each =Rs.1,73,81,14,000
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 the project.	00.0
5	Possession value of forest land diverted	30% of NPV = Rs.3,59,85,710.10
6	Cost of suffering to oustees	Rs.10000000as bench mark value of land x 696.95x1.5 = Rs.1045,42,50,000
7	Habitat Fragmentation cost	50% of NPV = Rs.5,99,76,183.50
8	Compensatory afforestation and soil & moisture conservation cost	Rs.1,40,000 x 150.895. x 1.2 =Rs.2,53,50,360(approx.)
	Total Cost :	Rs.12445623857.30 (Approx.)

10/12/22

Staff Officer(Env't. & Forest)
MCL Subhada Area

[Signature]
Divisional Forest Officer
Angul Division

[Signature]
प्रकल्प अधिकारी
Project Officer
MCL, Subhadra Area
एम. सि. एल. सुभद्रा क्षेत्र

ESTIMATE BENEFITS OF FOREST DIVERSION

TOTAL PRODUCTION CAPACITY: 25MTY

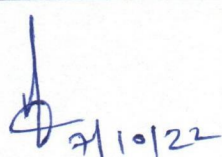
YEAR OF LIFE :36YEARS


TOTAL COAL RESERVE : 768830000TE

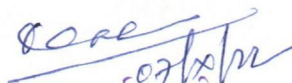
RATE OF COAL PER TONNE : Rs 827/- PER TE

PROFIT TO PROJECT : Rs337.31/- PER TE taking 100%
Capacity utilization

Sl.No.	Parameters	Remarks
1	Increase in productively attribute to the specific project	Rs76,88,30,000 te. x Rs.827/-per te. = Rs.635,82,24,10,000
2	Benefits to economy due to the specific project	Rs76,88,30,000 te. x Rs.337.31/- per te. = Rs.259,33,40,47,300
3	No. of population benefitted due to specific project	16952 nos.
4	Economic benefits due to direct and indirect employment due to the project	4238 persons
5	Economic benefits due to Compensatory afforestation	Rs.140800 x 150.895 ha. x 12% x 30 years = Rs.76485657.60
	Total (Sl.No.2 + Sl.No.5)	Rs.259410532957.60


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COST BENEFIT ANALYSIS RATIO

Benefit to economy

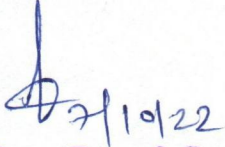
:- Rs.259,41,05,32,957.60

Loss on Forest

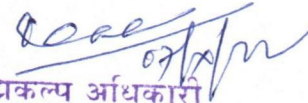
:- Rs.12,44,56,23,857.30

Cost Benefit Ratio

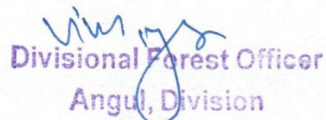
:- 1:20.84



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