



BHARATPUR OCP EXPANSION 26MTY

COST BENEFIT ANALYSIS RATIO

- ❖ **Benefit to economy :- Rs. 18237,93,65,192.80/-**
- ❖ **Loss on Forests :- Rs. 142,20,54,599.72/-**
- ❖ **Cost - Benefit Ratio :- 1: 128.25**

11/10/23
Divisional Forest Officer
Angul, Division

11/11/2022

1/12/22

1/12/2022

GENERAL MANAGER (MIN)/
GENERAL MANAGER
MCL, BHARATPUR AREA
महाप्रबंधक/G.M.
भरतपुर क्षेत्र/Bharatpur Area



BHARATPUR OCP EXPANSION 26MTY

COST BENEFIT ANALYSIS FOR FOREST LAND DIVERSION-2022

ESTIMATION OF COST OF FOREST DIVERSION:-

THE ESTMATED NPV OF THE FOREST LAND: Rs 14,36,670/- per ha. as per the guidelines issued by MoEF&CC dated 06.01.2022

S No.	Parameters	Remarks
1.	Ecosystem losses due to proposed forest diversion.	Rs. 14,36,670/- x 44.64 = Rs. 6,41,32,948.80/-
2.	Loss of animal husbandry productivity, including loss of fodder	10 % of NPV = Rs 64,13,294.88/-
3.	Cost of human resettlement	1093 Project displaced families x Rs10,19,000/- R & R package each = Rs.111,37,67,000/-
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	None of the infrastructure is on forest land.
5.	Possession value of forest land diverted	30 % of NPV= Rs.1,92,39,884.64/-
6.	Cost of suffering to Oustees	Rs. 1,04,566 x 1093 x 1.5 = Rs. 17,14,35,957/-
7.	Habitat fragmentation cost	50% of NPV =3,20,66,474.40/-
8.	Compensatory afforestation and soil & moisture conservation cost	Rs. 1,40,000 x 89.28 Ha. x 1.2 = Rs. 1,49,99,040/-
	Total Cost :	Rs.142,20,54,599.72/-

Note: NPV rates as per guidelines for diversion of forest land for non-forestry purposes under Forest Conservation Act-1980-guidelines for collection of NPV, MoEF&CC dated 06.01.2022 considered at Rs. 14,36,670/ha for sub tropical dry evergreen forest and economic class-V for this area

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11/12/2022

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11/12/2022
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BHARATPUR OCP EXPANSION 26MTY

ESTIMATE BENEFIT OF PROJECT

TOTAL PRODUCTION CAPACITY : 20 MT

YEAR OF LIFE : 22 YEARS

TOTAL COAL RESERVE : 435550000 Te

RATE OF COAL PER TONNE : Rs 1094.59 per Te

PROFIT TO PROJECT : Rs 417.85 per Te @ 85% capacity utilization

Sl no.	Parameters	Remarks
1.	Increase in productivity attribute to the specific project	43,55,50,000 Te x Rs. 1094.59/- per Te = Rs. 47674,86,74,500/-
2.	Benefit to the economy due to the specific project	43,55,50,000 Te x Rs. 417.85/- per Te = RS. 18199,45,67,500/-
3.	No. of population benefitted due to specific project	10,000 Nos
4.	Economic benefits due to direct and indirect employment due to the project.	4128 Nos
5.	Economic benefits due to compensatory Afforestation	Rs 14,36,670/- x 44.64 Ha x 12 % x 50 Years = Rs 38,47,97,692.80/-
	Total (S no2 + Sl no. 5)	Rs 18237,93,65,192.80/-

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