

**BALRAM OC EXPANSION PROJECT 15 MTY**

**Project:** Diversion of 193.845 Ha forestland for Balram OC Expansion Project 15 MTY of M/s Mahanadi Coalfields Limited in Talcher Tahasil of Angul District under Angul Forest Division.

**COST BENEFIT ANALYSIS RATIO**

❖ Benefit to economy	:-	Rs 2,25,55,16,34,697/-
❖ Loss on Forests	:-	Rs 518,72,21,330/-
❖ Cost - Benefit Ratio	:-	1: 43.482

  
महाप्रबंधक  
हिंगुला क्षेत्र  
General Manager  
Hingula Area

  
Divisional Forest Officer  
Angul Division

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### **ESTIMATED BENEFIT OF PROJECT**

TOTAL PRODUCTION CAPACITY : 15 MT  
 YEAR OF LIFE : 49 YEARS  
 TOTAL COAL RESERVE : 712134000 Te  
 RATE OF COAL PER TONNE : Rs 987.17 per Te  
 PROFIT TO PROJECT : Rs 314.38 per Te

Sl no.	Parameters	Remarks
1.	Increase in productivity attribute to the specific project	71,21,34,000 Te x Rs. 987.17/- per Te = 7,02,99,73,20,780/-
2.	Benefit to the economy due to the specific project	71,21,34,000 Te x Rs. 314.38/- per Te = 2,23,88,06,86,920/-
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.	3715 Nos
5.	Economic benefits due to compensatory Afforestation	Rs 14,36,670/- x 193.845 Ha x 12 % x 50 Years = Rs 1,67,09,47,777/-
	<b>Total (S no2 + Sl no. 5)</b>	<b>Rs 2,25,55,16,34,697/-</b>

  
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### **COST BENEFIT ANALYSIS FOR FOREST LAND DIVERSION (193.845 ha) - 2022**

**ESTIMATION OF COST OF FOREST DIVERSION:-**

**THE ESTMATED NPV OF THE FOREST LAND: 14,36,670/- per Ha. AS PER THE GUIDELINES ISSUED BY THE MoEF&CC DTD. 06.01.2022.**

S No.	Parameters	Remarks
1.	Ecosystem losses due to proposes forest diversion.	Rs. 14,36,670/- x 193.845 = Rs. 27,84,91,296.2/-
2.	Loss of animal husbandry productivity, including loss of fodder	10 % of NPV = Rs 2,78,49,129.6/-
3.	Cost of human resettlement	3715 Project displaced families x Rs10,19,000/- R & R package each = Rs.3,78,55,85,000/-
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 – 0.00 (As none of the infrastructure or rehabilitation site is on the forest land)
5.	Possession value of forest land diverted	30 % of NPV= Rs. 8,35,47,388.85/-
6.	Cost of suffering to Oustees	Rs. 1,27,383/- x 3715 x 1.5 = Rs. 7,09,84,1767.5/-
7.	Habitat fragmentation cost	50% of NPV = 13,92,45,648/-
8.	Compensatory afforestation and soil & moisture conservation cost	Rs. = 16,26,61,100 /-
	<b>Total Cost :</b>	<b>Rs. 518,72,21,330/-</b>

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

  
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