



### **BHUBANESWARI OCP EXPANSION 30MTY**

**Project:** Diversion of balance 20.383 Ha. of DLC forest land for continuing mining operation of Bhubnaeswari OC Expn. Project (30 MTPY) of M/s Mahanadi Coalfields Limited at Naraharipur, Anadipur and Langijoda of Talcher Tahasil of Angul District under Angul Forest Division

### **COST BENEFIT ANALYSIS RATIO**

❖ <b>Benefit to economy</b>	<b>:-</b>	<b>Rs 4154,69,01,868/-</b>
❖ <b>Loss on Forests</b>	<b>:-</b>	<b>Rs. 56,21,85,327/-</b>
❖ <b>Cost - Benefit Ratio</b>	<b>:-</b>	<b>1: 73.902</b>

*[Signature]*  
Divisional Forest Officer  
Angul, Division

*[Signature]* 12/01/2024  
General Manager  
Jagannath Area  
महा प्रबंधक  
जगन्नाथ क्षेत्र, एम.सी.एल.  
General Manager  
Jagannath Area, MCL.



**BHUBANESWARI OCP EXPANSION 30MTY**  
**COST BENEFIT ANALYSIS FOR FOREST LAND DIVERSION (20.383 Ha)-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 THE MoEF&CC DTD. 06.01.2022**

S No.	Parameters	Remarks
1.	Ecosystem losses due to proposed forest diversion. NPV of the forest land being diverted i.e DLC Forest 20.383 ha x Rs.14,36,670/-	Rs. 14,36,670/- x 20.383 Ha = Rs. 2,92,83,645/-
2.	Loss of animal husbandry productivity, including loss of fodder	10 % of NPV = Rs 29,28,365/-
3.	Cost of human resettlement (Rehabilitation and Resettlement was already completed)	398 Project displaced families x Rs 10,19,000/- R&R package each=Rs.40,55,62,000/-
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 or rehabilitation site is on forest land
5.	Possession value of forest land diverted	30 % of NPV= Rs.87,85,094/-
6.	Cost of suffering to Oustees	Rs. 1,04,566 x 398 x 1.5 = Rs. 6,24,25,902/-
7.	Habitat fragmentation cost	50% of NPV =14641822.31/-
8.	Compensatory afforestation and soil & moisture conservation cost	Rs. 3,85,58,500/-
	<b>Total Cost :</b>	<b>Rs. 56,21,85,327/-</b>

Note: NPV rates as per Guidelines for diversion of forest land for non-forestry purposes under Forest (Conservation) Act, 1980- Guidelines for collection of Net Present Value (NPV). MoEFCC, Dtd. 6.01.2022  
Considered at Rs. 14,36,670/Ha for Sub Tropical dry evergreen forest and Economic class-V for this area

  
General Manager  
Jagannath Area  
यह प्रबंधक  
जगन्नाथ क्षेत्र, एम.सी.एल.  
General Manager  
Jagannath Area, MCL.



## **BHUBANESWARI OCP EXPANSION PROJECT 30MTY**

### **ESTIMATED BENEFIT OF PROJECT**

TOTAL PRODUCTION CAPACITY : 30 MTY  
YEAR OF LIFE : 05 YEARS (As on 01.04.2022)  
TOTAL COAL RESERVE : 24000000 Te  
RATE OF COAL PER TONNE : Rs 1094.59 per Te  
PROFIT TO PROJECT : Rs 629.21 per Te @ 85% capacity utilization

Sl no.	Parameters	Remarks
1.	Increase in productivity attribute to the specific project	24000000 Te x Rs. 1094.59/- per Te = Rs. 26,27,01,60,000.00 /-
2.	Benefit to the economy due to the specific project	24000000 Te x Rs. 629.21/- per Te = RS. 1510,10,40,000.00/-
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.	2901 Nos.
5.	Economic benefits due to compensatory Afforestation	Rs 14,36,670 x 20.383 Ha x 12% x 50 Years = Rs 175701868/-
	Total (S no2 + Sl no. 5)	<b>Rs 4154,69,01,868/-</b>

Coal reserve beneath the proposed forest land has only been considered for this calculation purpose.

  
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