

CHECK LIST NO-12



MCL

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

❖ Benefit to economy	:-	Rs 7847,74,48,439/-
❖ Loss on Forests	:-	Rs.56,21,84,667/-
❖ Cost - Benefit Ratio	:-	1: 139.59

[Signature]
Divisional Forest Officer
Angul, Division

[Signature]
GENERAL MANAGER
JAGANNATH AREA
MAHANADI COALFIELDS LIMITED

महाप्रबंधक
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 : 124460000 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	124460000Te x Rs. 1094.59/- per Te = Rs. 13623,26,71,400.00 /-
2.	Benefit to the economy due to the specific project	124460000 Te x Rs. 629.21/- per Te = RS. ₹ 7831,14,76,600.00/-
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 16,59,71,839/-
	Total (S no2 + Sl no. 5)	Rs 7847,74,48,439/-


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BHUBANESWARI OCP EXPANSION 30MTY
COST BENEFIT ANALYSIS FOR FOREST LAND DIVERSION (20.383 Ha)-2022

ESTIMATION OF COST OF FOREST DIVERSION:-

THE ESTIMATED 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	398 Project displaced families x Rs10,19,000/- 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 =1,46,41,161/-
8.	Compensatory afforestation and soil & moisture conservation cost	Rs. 3,85,58,500/-
	Total Cost :	Rs.56,21,84,667/-

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

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