

Name of the Project : Durgapur Opencast Project  
Quantum of Forest Land Applied for : 80.77 Ha  
Division : Chandrapur Forest Division, Chandrapur

**Table B : Estimation of cost of forest diversion**  
**//Opencast Mining Option//**

Sr. No.	Parameters	Remarks
1.	Ecosystem services losses due to proposed forest diversion.	Net Present Value for 1.00 ha. of forest land = 957780.00 Net Present Value for 80.77 ha. of forest land = (80.77 x 957780.00 = 77359890.60) <b>Rs.773.599 Lakh</b>
2.	Loss of animal husbandry productivity, including loss of fodder.	<b>Rs. 116.04 Lakh</b> 15% of NPV is anticipated as loss of animal husbandry, productivity, including loss of fodder.
3.	Cost of human resettlement.	<b>NIL.</b>
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.	<b>Rs.116.04 Lakh</b> 15% of the NPV calculated against Lost of Facilities and administrative infrastructure
5.	Possession value of forest land diverted.	1. 30% of Net Present Value for possession value of forest land <b>232.0797 Lakh</b> 2. As per market rate value of nearest Sinhala village per ha. Rs. 24.71 Lakhs x 80.77 Ha = 1995.827 Lakhs. 30% of market rate <b>598.748 Lakh</b> <b>Maximum possession value Rs. 598.748 Lakhs as per market value.</b>
6.	Cost of suffering to oustees.	<b>NIL</b>
7.	Habitat Fragmentation Cost.	50% of Net Present Value for habitat fragmentation cost <b>Rs. 386.7995 Lakh.</b>
8.	Compensatory afforestation and soil & moisture conservation cost.	<b>(@Rs.8,45,128/Ha) Rs.682.609 Lakh</b> The 80.77 Ha Forest Land is already diverted during 2005-2013. Rs. 88,00,812.00 paid during September 2004 against CA for 162 Ha land as part of Compliance.
<b>Total Estimated Cost of Forest Diversion :-</b>		<b>Rs. 2673.835 Lakh</b>

Table C – Estimating Benefits of Forest Diversion in CBA

S.No.	Parameters	Evaluation of Benefits	Qualified in Monitory terms for 1 MT / Per Annum	Qualification of Benefit in monitory terms connected to the production of 8.00 MT
1	Increasing of productivity attributed to specific project	Rs. -309.27 per Te (including Processing Charges)	Rs. -3092.70 Lakh	Rs. -24741.60 Lakhs
2	Benefit of Economy due to the specific project	15) Royalty @ 14% of the basic rate (@Rs. 1200.00) Rs. 168.00/Te 16) MMDR – 30% of Royalty – Rs. 50.40/Te 17) NMT – 2% of Royalty – Rs. 3.36/Te 18) Evacuation Fee – 60.00 <b>Total (A)</b> <b>Rs. 281.76</b> 19) CGST – 2.5% - Rs. 30.00 20) SGST – 2.5% - Rs. 30.00 21) State Compensation Cess - Rs.400.00 <b>Total (B)</b> <b>Rs. 460.00</b> B) Other benefit not quantified in monitory terms i) Growth ancillary industries ii) Development of surrounding area iii) Increased per Capital iv) Compensatory afforestation	Rs. 1680.00 Lakh Rs. 504.00 Lakh Rs.33.60 Lakh Rs. 600.00 Lakh <b>Rs. 2817.60 Lakhs</b> Rs. 300.00 Lakhs Rs. 300.00 Lakhs Rs.4000.00 Lakhs <b>Rs. 4600.00 Lakhs</b> Not expressed in monetary terms  <b>Rs. 7417.60 Lakhs</b>	Rs. 13440.00 Lakhs Rs. 4032.00 Lakhs Rs. 268.80 Lakhs Rs. 4800.00 Lakhs <b>Rs. 22540.80 Lakhs</b> Rs. 2400.00 Lakhs Rs. 2400.00 Lakhs Rs.32000.00 Lakhs <b>Rs. 36800.00 Lakhs</b>  <b>Rs. 59340.80 Lakhs</b>
3	No. of population benefited due to specific project	Population indirectly benefited	Not quantified in Monitory Terms	Not quantified in Monitory Terms
4	Economic benefits due to direct and indirect employment due to the project	1122 (2013) 1178 (2023) persons  (Remarks: Persons-1178, OMS – 1.85 & EMS – 4114.16)		Nil This is an ongoing project and said forest land required renewal of FC only.
5	Economic benefits due to Compensatory Afforestation	Not applicable	Not applicable	Not applicable. RS. 88,00,812.00 paid during March 2006 against CA for 162 Ha land as part of Compliance.
	<b>TOTAL</b>			<b>Rs. 34599.80 Lakh</b>

### CALCULATION OF BENEFIT / COST RATIO

Total Benefits (As per Table C calculation)	=	34599.80 Lakhs
Total Cost (As per Table B Calculation)	=	2673.835 Lakhs
Hence, Benefit / Cost ratio	=	12.94

Thus, the project gives **POSITIVE** Benefit / Cost ratio. The monetary returns of the project are positive over the Environmental Costs.

(PRASHANT KHADE)  
DIVISIONAL FOREST OFFICER  
CHANDRAPUR FOREST DIVISION  
CHANDRAPUR



DATE : 26/9/2024  
PLACE : CHANDRAPUR

(H K GAWALI)  
PROJECT PROPONENT  
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प्रबंधक  
उपक्षेत्र