

Name of Mine : Bhatadi Expansion Opencast Project
 Quantum of Forest :
 Land Applied for : 0.20 Ha
 Division : Chandrapur Forest Division, Chandrapur
 Life of the Project : 30 Years (including proposed expansion in the North-West direction)
 Division : Chandrapur Forest Division, Chandrapur (M.S.)

Table B : Estimation of cost of forest diversion

Sr. No.	Parameters	Remarks
1.	Ecosystem services losses due to proposed forest diversion.	Net Present Value for 1.00 ha. of forest land = 6.26 Lakhs. Net Present Value for 0.20 ha. of forest land = 0.20 X 6.26 Rs. 1.252 Lakhs
2.	Loss of animal husbandry productivity, including loss of fodder.	Nil
3.	Cost of human resettlement.	Bhatadi village is falling under the project. Tentatively 820 households will be rehabilitated as per PR updated in 2015. Financial provision allotted for village rehabilitation (Excluding cost of suffering to the land oustees) in the PR is Rs. 7979.00 Lakhs
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.	1) Re-alignment of Erai River (1.1 Km) – 975.75 Lakhs 2) Village Road from Paili Village to Tadoba Road (3 Km) – Rs.177.56 Lakhs Rs. 1153.31 Lakhs
5.	Possession value of forest land diverted.	1. 30% of Net Present Value for possession value of forest land 0.375 Lakhs. 2. As per market rate value of village Bhatadi per acre. Rs.10.00 Lakhs x 0.20 Ha (0.494 Acre) = 4.94 Lakhs 30% of market rate 1.48 Lakhs. Maximum possession value Rs. 1.48 Lakhs as per market value.
6.	Cost of suffering to oustees.	No Human habitation exists on forest land. Hence, no Oustee from forest land
7.	Habitat Fragmentation Cost.	50% of NPV kept for this head, i.e. 0.626 lakhs
8.	Compensatory afforestation and soil & moisture conservation cost.	The proposed area is less than 1 Ha. Hence, Compensatory Afforestation is not applicable. 50% of NPV is kept for Soil & Moisture conservation cost as 0.626 Lakhs
Total Estimated Cost of Forest Diversion :-		Rs. 9136.294 Lakhs.

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 14.41 MT
1	Increasing of productivity attributed to specific project	Profit of Rs.209.38/per te at Sale Price @ Rs.1057.50 per te	Rs. 2093.80 Lakhs	Rs. 30171.658 Lakhs
2	Benefit of Economy due to the specific project	Profit is being calculated after including all taxes in Cost component B) Other benefit not quantified in monitory terms i) Growth ancillary industries ii) Development of surrounding area iii) Increased per Capital iv) Compensatory afforestation	Not expressed in monetary terms	Nil
3	No. of population benefited due to specific project	Population indirectly benefited	Not quantified in Monitory Terms	
4	Economic benefits due to direct and indirect employment due to the project	515 persons (As per PR approved in 2015) Remarks:- Persons- 515 (Skilled – 412, Unskilled / Semi-Skilled – 103) . OMS – 2.26 EMS – 3813.56 as per Approved PR) EC Prodn. – 0.975 MTPA	Not Applicable	Rs. 16452.30 Lakhs (Prodn. 975000/2.26 OMS = 431415.93 x 3813.56 EMS = 16452.30 Lakhs)
5	Economic benefits due to Compensatory Afforestation	The proposed area is less than 0.20 Ha and Compensatory Afforestation is not applicable.	NIL	NIL
TOTAL				Rs. 46623.958 Lakhs

CALCULATION OF BENEFIT / COST RATIO

Total Benefits (As per Table C calculation) = 46623.958 Lakhs
Total Loss (As per Table B Calculation) = 9136.294 Lakhs
Hence, Benefit / Cost ratio = 5.10

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

(Signature)
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(Signature)
(A.C.SINGH)
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WCL, CHANDRAPUR AREA
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DATE : 9/12/18
PLACE : CHANDRAPUR

(Signature)
Asstt. Manager (Community Development)
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