

# एन एम डी सी लिमिटेड NMDC Limited

(भारत सरकार का उद्यम / A Government of India Enterprise) दोणिमलै लौह अयस्क खान / Donimalai Iron Ore Mine

ISO 9001 : 2008 ISO 14001 : 2004 OHSAS 18001 : 2007 SA 8000 : 2008 दोणिमलै उपनगर – 583 118 जिल्ला – बल्लारी, कर्नाटक Donimalai Township - 583 118 Dist-Ballari, Karnataka

### **COST BENEFIT ANALYSIS**

#### A. PARAMETERS FOR EVALUATION OF LOSS OF FORESTS:

SI.No.	PARAMETERS	MEDIUM & MAJOR IRRIGATION, HYDRO ELECTRIC, LARGE MINING & OTHER MISC. PROJECTS.	
4	Level of the level	CARTER OF PARTIES AND ADDRESS OF A CO. S. CARTER OF	
1	Loss of value of timber, fuel wood	The loss fuel wood to a tune of 3T/Ha @Rs. 300/Ton.	
	and miner forest produce on annual	For 159.01Ha.,i.e 159.01 X 3 X 300 X 20years =	
	basis including loss of man hours	Rs.28,62,180/-	
	per annum of people who livelihood		
	and wages form the harvest of these	No loss of man hours as no one depends for	
	commodities.	livelihood on this land.	
2	Loss of animal husbandry	The loss of fodder estimated for 159.01Ha will be	
	productivity including loss of fodder.	(Hill grass cost @5T/Ha @ Rs.100/Ton.)	
	100 to 10	159.01X5X100X20years=Rs.15,90,100/	
3	Cost of human resettlement	There is no human settlement in the Mining lease	
		area. Hence, the cost of human re-settlement does	
		not apply.	
4	Loss of public facilities and	There is no roads and electrical lines passing in the	
	administrative infrastructure on	proposed area. There is no loss of public facility in	
	forest land, or which would require	the area.	
	forest land if these were diverted		
-	due to project.		
5	Environmental losses:	The estimated loss as per the guidelines, for a tree	
	(Soil erosion, effect on hydrological	density of 1.0 will be Rs.126.74Lakhs to accrue over a	
	cycle, wild life habitat,	50years period.	
	Microclimate, upsetting or	Therefore, the environmental loss for 159.01ha., for	
	Ecological balance).	a density of 0.1 over a period of 20years (Life of	
		mine) would be	
	Cuffeeing to guitage	159.01 X 126.74 X 0.1 X 20/50 = 806.11Lakhs.	
6	Suffering to outees.	Nil.	
		There are no oustees from this area.	
	B. PARAMETERS FOR EVALUATION O	OF BENEFITS, NOTWITHSTANDING LOSS OF FORESTS	
		or personal formation and the cost of tokes is	
1	Increase in productivity attributable	The area has a good iron ore deposit amounting to	
	to the specific project	600Lakh tones approximately. This area can produce	
		30Lakh tons per annum tentatively.	

## B. PARAMETERS FOR EVALUATION OF BENEFITS, NOTWITHSTANDING LOSS OF FORESTS

Sl.No.	PARAMETERS	NATURE OF PROPOSAL: MINING PROJECT
2	Benefits of Economy	As result of mining of Kumaraswamy Iron Ore, a multitude of Government Departments, agencies and the like, including local population will derive direct benefit by way of:  Earnings for state Govt.of Karnataka.  A. Royalty on tonnage basis to Dept of Mines & Geology.  B. Electricity charges to KEB  C. Electricity charges to Tungabhadra Reservoir Dvn, PWD.  D. Cess on welfare department.  E. Port charges on export  F. Transportation charges to the railways  G. Rents, taxes etc. to the Govt.  H. Miscellaneous (includes setting up of Community hall, free medical treatment, cooperative societies for the nearby villages).  Apart from above, every year a quantity of 30Lakh tons could be produced fetching 600Crore rupees.
3	No. of Population benefited	About 5000 people will be benefited.
4	Employment potential.	Direct employments to the 1000 people are generated, besides indirect and ancillary employment to more than 1000 people is likely to arise.
5	Cost of acquisition of facility on non forest land wherever feasible.	Not applicable since it is site specific project.
6	Loss of (a) agricultural (b) animal husbandary production due to diversion of forest land.	There are no agricultural and animal husbandry operations in the mine lease area. Though it is a forest land, the tree growth is poor due to hostile rocky conditions. Due to hilly terrain inadequate nutrient availability and water, the land is not amenable to agriculture. Since there is no habitation within forest areas applied for diversion, animal husbandry operations are also not observed.
7	Cost of rehabilitating the displaced persons as different from compensatation amount given for displacement.	As there is no human habitation in the mine lease area, rehabilitation does not arise.
8	Cost of supply of free fuel-wood to workers residing in or near forest area during the period of construction.	The workers would be provided with kerosene oil and LPG for cooking purposes. Subsidized electricity would be provided for lighting purposes. As such dependence on forest wealth for fuel purposes would be discouraged.

### C. SUMMARY OF COST BENEFIT ANALYSIS FOR THE PROJECT OVER A PERIOD OF MINES LIFE

Loss (A)	Rs. In Crores	BENEFIT (B)	Rs. In Crores
Environmental Loss	8.06	Profit from mining after	9000
2. Loss of Fuel Wood	0.28	Deducting the expenses	
3. Loss of Fodder	0.15	(@Rs.1500 per tonne)	
4. Supply of Fuel wood	Nil	i.e 600LT X 1500	
TOTAL	8.49		9000

Net benefit from the project over 20 years period = 9000-8.49 = Rs. 8991.51Crores.

Hence cost benefit Ratio = 1: 1060

> अधिशासी निदेश Executive Director

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