FOREST LAND DIVERSION OF SHOBHAPUR UNDERGROUND PROJECT WCL EVALUATION OF LOSS OF FORESTS

CALCULATION DETAILS

SI.	Details	Description
No	¥	
	*	Shobhapur
1	Project	Underground Project
		WCL
		Tehsil: Ghodadongri
	2	District : Betul
		State : Madhya Pradesh
2	Forest Range	Ranipur Reserve Forest
3	Forest Compartment	340, Revenue Forest –
	8.	186/1, 186/2, 164/1,
		164/2, 164/3
4	Forest land needed (in Ha.)	80.902 Ha.
5	Quality	(Underground Project)
6	Total No. of trees (Annexure A&B)	Underground Project
7	Average density forest	Underground Project
8	Estimated total volume (cmt) (Annexure A&B)	Underground Project
9	Total Timber volume (cmt)	Underground Project
10	Total Fuel volume (cmt) (Annexure A&D)	Underground Project

Note:- Applied forest land 80.902 Ha. Proposed for Underground mining

FORM (A)

Evaluation of loss Timber Fuel Minor Forests Produce Mandays Expectation or Potential Value of Soil for forest land

SI.	Particulars	Shobhapur UG Project
No		(MR- 80.902 Ha)
	÷	4
a	Value of Timber @ Rs.12000/-	Rs. 0.00/-
	Value of Timber @ Rs.1500/-	Rs. 0.00/-
	Total market price	Rs. 0.00/-
	Per hector value	Rs0.00 /-
b	Value of Minor forest produce (Revenue per hect. X area	Rs. 0.00/
	applied in hect.)	
С	Cost of coupe working (Mandays per ha X area X 190)	0.00
	Total cost per ha.	0.00
	Mandays per ha (cost per ha/Daily wages	0.00
	Reciprocal value (1.04Pn-1) where P=rate of	0.00
	interest=12,N=period of rotation=30 years	
2	Upset price of forest growth (R=5/6 M-E)	0.00
	Where M=market price and	0.00



	E=Expenditure	0.00
d	Expectation of Potential value of Soil (upset price x	0.00
	Reciprocal value)	
	Revenue obtained from intermediate yield	0.00
е	Fire protection charges (C)	Rs. 0.00/-
	(C=25*R*A) where R=fire protection Expenditure per has	0
	ie 760 per has. A=Area in 80.902 Ha.	
	Total (a+b+c+d+e)	Rs. 0.00/-

FORM B - DETAILS OF EXPENDITURE

Details of Expenditure						
Particulars of work	Quantity	Unit	Rate per Unit	Cost in Rs.		
, 4,0,00,00,00	,		(in Rs.)	9		
Felling	, Collection u	pto Extrac	tion path			
i)Felling of timber dedarking	0	Cmt	2280	0		
and other	12					
ii) Felling of fuel wood	0	Cmt	2280	0		
recording	14-			×		
Other expenditure Material, EP, W & ward etc.						
`i) Timber	0	Cmt	760	0		
`ii) Fuel Wood	0	Cmt	760	0		
Transportation upto m	loading					
`i) Timber	0	Cmt	500	0		
`ii) Fuel Wood	0	Cmt	500	0		
Depot Expenditure						
`i) Timber	0	Cmt	760	0		
`ii) Fuel Wood	0	Cmt	760	0		
	0					
	0					
	0					

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UPSET PRICE FORM .C.

Upset Price=5/6 M-E

M=Market Price

E=Expenditure

12 0 2				
/ A \	ITEM/	_ 1 I Inc	set Price	in Rc
IAI	III LIVI	T ODS	CL FIICE	111 113

= Rs. 0.00

(B) ITEM – 2 Loss Value of Fodder (Grass)

Estimate quantity of grass in metric tones based on the consideration than on closer an area is complete of yielding an average 2 to 4 mt of grass per ha. = 0

Loss of fodder average in local market @ Rs.1080 per mt. =0

(C) ITEM – 3 Cost of Human Re-Settlement

The forest land is not to be used for the Re-settlement of displaced persons. Hence the cost of

human Re-Settlement in Nil. There is no Habitation therefore no settlement will applied.

(D) ITEM-4 Loss of public facilities and Administrative Infrastructure

There is no loss of forest road, nakas and other construction in the area applied

(E) ITEM-5 Valuation of Environment losses

Environmental loss over a period of 50 years = 0

Environmental loss per year = 0

(F) ITEM-6 Suffering to Qutstees

Suffering to Outstees = nil

Note:- Note:- Applied forest land 80.902 Ha. Proposed for Underground mining.

SHOBHAPUR UNDERGROUND PROJECT

Site Quality

Compartment No. 340, Revenue Forest -186/1, 186/2, 164/1, 164/2, 164/3 = 80.902 Ha.

Revenue Forest: Nil

Compartment No. 340, Revenue Forest – 186/1, 186/2, 164/1, 164/2, 164/3 = 80.902 Ha. SI. Species Girth class No. of Timber Qua Fuel Quantity Total No. trees Factor ntity Factor in cmt. Quantity in cmt.

1 21-30 0 0.010 0 0.0025 0 0 2 31-40 0 0.030 0 0.0075 0 0 3 41-60 0 0.050 0 0.0125 0 0 4 61-80 0 0.120 0 0.0300 0 0 Sound 5 81-100 0 0.200 0 0.0600 0 0 6 101-120 0 0.300 0 0.0750 0 0 7 121-150 0 0.410 0 0.1025 0 0 8 151-180 0 0.580 0 0.1450 0 0 9 180+ 0 0.800 0 0.2000 0 0 Sub Total 0 0 0 0 1 21-30 0 0.010 0 0.0100 0 0 2 31-40 0 0.020 0 0.0300 0 0 3 41-60 0 0.040 0 0.0500 0 0 4 61-80 0 0.090 0 0.6000 0 0 Semi Sound 5 81-100 0 0.150 0 0.1000 0 0 6 101-120 0 0.230 0 0.1500 0 0 7 121-150 0 0.310 0 0.2050 0 0 8 151-180 0 0.440 0 0.2900 0 0 9 180+ 0 0.600 0 0.4000 0 0 Sub Total 0 0 0 0 1 21-30 0 0.000 0 0 0.0100 0 2 31-40 0 0.010 0 0.0300



3		41-60	0	0.010	0	0.0500	0	0
4	·	61-80	0	0.030	0	0.0600	0	0
5	unsound	81-100	0	0.050	0	0.1000	0	0
6	3.1.3.3 3.1.1.3.	101-120	0	0.080	0	0.1500	0	0
7		121-150	0	0.100	0	0.2050	0	0
8		151-180	0	0.150	0	0.2900	0	0
9		180+	0	0.200	0	0.4000	0	0
	Sub Total		0		0		0	0
	Total		0		0		0	0
	Total timber in		0		0		0	0
	cmt. from (Ha.)							

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SHOBHAPUR UNDERGROUND PROJECT PARAMETERS FOR EVALUATION OF BENEFITS, NOTWITHSTANDING LOSS OF FOREST

SI.	Parameters	Description	Calculation	Benefit
No.	rarameters			(in Rs. Crores)
1	Cost of coal produced over a period proposed in the project report (25 years)	Total 22.574 Million Tonnes of coal will be produced having market value of Rs. 35666.92 Crs. As per present rate.	22.574 (MT) x 1580(NSV) = 35666.92	35666.92
2	Benefits to economy	A total of 22.574 Million Tonnes of coal from Shobhpur Underground Project wroth Rs. 35666. 92 Crores will be produced which will be benefited to economy. The Govt. will be benefited by Royalty & Taxes will shall be (14.5% of net project wroth) Rs. 5171.70 Crores as per rate applicable today. Taxes includes exice duty 6%(ED), EDU cess 2%, on ED, Higher Edu 1% on ED, SED Rs.10/te, Clean Energy Cess Rs.50/te. MPGATSVA 5%, VAT 4%, Entry Tax 2% and Royalty 14% of value of coal	Approx. 15% of the sale value	5350.03
3	Benefit in terms of electricity generation A	A total of 0.95 Million tones of coal will be	7.6x10 ⁸ (units)x25 yrsx	5700
		produced annually from Shobhapur Underground Project will be used for power generation, taking average consumption of	1	

		O.8 Kg. of coal per KWH of electricity generation. The total generation from 0.95 Million Tes. of coal will be 7.6x108 units		
4	Employment potential	About 2242direct employment in mine & 1121 in-direct employment through other services.	(2242+1121) Manpower X 25 yrs.X365 (days)X8 (Shifts/Hr.)X Rs.30/man Hour	7364.97
5	Cost of acquisition of facility on non-forest land wherever feasible	There is no scope of diversion of the non-forest area as coal deposited laying under forest area can not be left out of mining	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
6	Loss of (a) agriculture & (b) animal husbandry production due to diversion of forest land.	NIL – There is no agriculture or husbandry production in the area.		
7	Cost of rehabilitation of the displaced persons as different from compensatory amount given for displacement.	There is no population in the forest land.		
8	Cost of supply of free fuel wood to workers residing in or near forest area during the period of constructions.	Not applicable – As free coal is supplied to the workers of company for domestic use.		
9	Total benefits in Crores			Rs 54081.92Cr
A D 1	Loss of Forest			Rs 0
B.1	Cost benefit ratio in terms of cost of Coal produced	(Benefit/loss of forest)= Rs. 54081.92 crores/ Rs.0	Infinitive	100% profit
B.2	Cost benefit ratio in terms of royalty/taxes to govt.	(benefit of taxes/loss of forest)=Rs.5350.03Cr/ Rs. 0	Infinitive	100% profit
B.3	Cost benefit ratio in terms of electricity generation	(Benefit/loss of forest)= Rs. 5700.00 crores/ Rs. 0	Infinitive	100% profit
B.4	Cost benefit ratio in terms of employment generation	(Benefit/loss of forest)= Rs. 7364.97 crores/ Rs. 0	Infinitive	100% profit
B.5	Cost benefit ratio in terms of Total Benefits	(Benefit/loss of forest)= Rs. 54081.92 crores/ Rs 0	Infinitive	100% profit

Note :- Applied forest land 80.902 Ha. Proposed for Underground mining.

Area Planning officer
Pathakhera . Area . W.C.L