FOREST LAND DIVERSION OF Tawa -II UNDERGROUND PROJECT WCL EVALUATION OF LOSS OF FORESTS

CALCULATION DETAILS

SI.	Details	Description
No		
		Tawa-II Underground
1	Project	Project WCL
		Tehsil : Ghodadongri
		District : Betul
		State : Madhya Pradesh
2	Forest Range	Reserve Forest
3	Forest Compartment	325,327, 329, 330
4	Forest land needed (in Ha.)	201.079 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 201.079 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	Tawa-II UG Project		
No		(MR- 201.079 Ha)		
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			
	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 201.079 Ha.	*		
	Total (a+b+c+d+e)	Rs. 0.00/-		

Note:- Applied forest land 201.079 Ha. Proposed for Underground mining

FORM B

DETAILS OF EXPENDITURE

Details of Expenditure							
Particulars of work	Quantity	Unit	Rate per Unit	Cost in Rs.			
			(in Rs.)				
Felling, Collection upto Extraction path							
i)Felling of timber dedarking	0	Cmt	2280	0			
and other							
ii) Felling of fuel wood	0	Cmt	2280	0			
recording		ā					
	nditure Mate	erial, EP, W	& ward etc.				
`i) Timber	0	Cmt	760	0			
`ii) Fuel Wood	0	Cmt	760	0			
Transportation upto m	arket/forest	office inclu	uding loading un	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						
3	0						

Note :- Applied forest land 201.079 Ha. Proposed for Underground mining.

UPSET PRICE FORM .C.

Upset Price=5/6 M-E

M=Market Price

E=Expenditure

(A) ITEM – 1 Upset Price in Rs

= 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 201.079 Ha. Proposed for Underground mining.

Tawa-II UNDERGROUND PROJECT

Site Quality

Compartment No. Reserve Forest – 325,327,329,330

Revenue Forest: Nil

Ha. = 201.079 Ha.

Ha. =	201.079 Ha.	_						
SI.	Species	Girth class	No. of	Timber	Qua	Fuel	Quantity	Total
No.			trees	Factor	ntity in	Factor	in cmt.	Quantity
					cmt.			
1	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
5	Sound	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	9	180+	0	0.800	0	0.2000	0	0
	Sub Total		0		0		0	0
1	2	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	4	61-80	0	0.090	0	0.6000	0	0
5	Semi Sound	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	0.0100	0	0
2		31-40	0	0.010	0	0.0300	0	0
3		41-60	0	0.010	0	0.0500	0	0
4	8	61-80	0	0.030	0	0.0600	0	0
5	unsound	81-100	0	0.050	0	0.1000	0	0
6		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.)							

Note:- Applied forest land 201.079 Ha. Proposed for Underground mining.

<u>Tawa - II UNDERGROUND PROJECT</u> PARAMETERS FOR EVALUATION OF BENEFITS, NOTWITHSTANDING LOSS OF FOREST

SI.	Parameters	Description	Calculation	Benefit
No			2	(in Rs. Crores)
1	Cost of coal produced over	Total 7.504 Million	7.504 (MT) x	17491.82
5-	a period proposed in the	Tonnes of coal will be	2331(NSV) =	
	project report (30 years)	produced having market	17491.82	
	a.	value of Rs. 35666.92	*	·
	Daniel de la company	Crs. As per present rate.	450/ 5	2622.77
2	Benefits to economy	A total of 7.504 Million Tonnes of coal from	Approx. 15% of	2623.77
		Tawa II Underground	the sale value	
	,	Project wroth		×.
		Rs.17491.82 Crores will	e .	-
		be produced which will		
		be benefited to		
		economy. The Govt. will		- a
		be benefited by Royalty	9	
		& Taxes will shall be		*
		(14.5% of net project		
		wroth) Rs. 2623.77		
		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		
3	Benefit in terms of	A total of 0.86 Million	30 yrs x6.88x10 ⁸	6192
	electricity generation A	tones of coal will be	units x rs. 3.00	¥
		produced annually from	(Cost per unit)	
		Tawa2 Underground		
		Project will be used for	9	
		power generation,		
		taking average		
		consumption of <u>0.8 Kg</u> .		
		of coal per KWH of		
	ş	electricity generation.		
		The total generation		٥
		from 0 <u>.86</u> Million Tes. of		*
		coal will be 6.88 <u>x10</u> 8		
	THE WAY TO SEE THE SECOND SECO	units		

				T
4	Employment potential	About 1106 direct employment in mine & 550 in-direct employment through other services.	(1106+550) Manpower X 30 yrs.X365 (days)X8 (Shifts/Hr.)X Rs.30/man Hour	4351.96
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	no.eey mun neur	
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 30659.55Cr
Α	Loss of Forest			Rs 0
B.1	Cost benefit ratio in terms of cost of Coal produced	(Benefit/loss of forest)= Rs. 30659.55 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.2623.77Cr/ Rs. 0	Infinitive	100% profit
B.3	Cost benefit ratio in terms of electricity generation	(Benefit/loss of forest)= Rs. 6192crores/ Rs. 0	Infinitive	100% profit
B.4	Cost benefit ratio in terms of employment generation	(Benefit/loss of forest)= Rs. 4351.96 crores/ Rs. 0	Infinitive	100% profit
B.5	Cost benefit ratio in terms of Total Benefits	(Benefit/loss of forest)= Rs. 30659.55 crores/ Rs 0	Infinitive	100% profit
	Note: Applied force	t land 201 079 Ha Propose		

Note: - Applied forest land 201.079 Ha. Proposed for Underground mining.

