FOREST LAND DIVERSION OF TANDSI MINE UNDERGROUND PROJECT -WCL EVALUATION OF LOSS OF FORESTS CALCULATION DETAILS

SO.NO.	Details	Description	
		Tandsi mime Underound Project-WCL	
1	Project	Tehsil: Junnardeo	
1	Project	District:Chhindwara	
		State: Madhay Pradesh	
2	Forest Range	Damua	
3	forest Compartment	P400,P401,P410,P409,P413,P414,P422	
4	Forest land needed(in hector	206.826 ha.	
5	Quality	(underground Project)	
6	Total No. of tress(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&B)	(underground Project)	

Note- Applied foest land206.826 ha. ha proposd to Underground mining

SURVEYOR Tandsi Mine

MANAGER TANDSI COLLIERY

FORM (A) Evaluations of loss Timber Fuel Minor Forests Produce Mandays Expectation or Potential Value of soil for forest land

S.No	Particulars	Tandsi underground project
a	value of Timber@ Rs.12000/-	Rs.0.000
	value of Timber@ Rs.1500/-	Rs.0.000
	Total market price	Rs.0.000
	per hector valua	Rs.0.000
b	value of Minor forest produce (Revenue per hect.Xarea applied in hect.)	Rs.0.000
С	Cost of coupe working (Mandays per ha X atea X 190	Rs.0.000
	Total cost per ha.	Rs.0.000
	Mandays per ha (cost per hector/Daily Wages	Rs.0.000
	Reciprocal value (1.04Pn-1)where P=rate of interest =12, N= period of rotation=30 years	Rs.0.000
	Upset price of fores growth (R=5/6M-F) where M=Market price and E= Expenditure	Rs.0.000
d	Expectation of Potential value of Soil (upset price X Reciprocal value)	Rs.0.000
е	Fire protection charges (C) (C=25*R"A) where R= fire protection Expenditure per ha is	1
	760 per ha. A=Area in 55.618 ha	Rs.0.000
	Total (a+b+c+d+e)	Rs.0.000

Note- Applied forest land 206.826 ha. proposed to Underground Mining

SURVEYOR Tandsi Mine TANDSI

COLLIER

FORM-B

Particular of work	1	Details of Ex	penditure		
1) relling of timber	Quantity	unit	Rate per Unit (in Rs.)	Cost in Rs.	
ii) Filling of fuel wood	0.000	cmt	2280	0.000	
Recording		cmt	2280	0.000	
i).Timber	Other Expendi	ture Materi	al, EP, W & ward etc		
ii) Fuel Wood	0.000	cint	760	0.000	
Transport	ation upto mark	cet/forest of	760 fice including loading unloa	0.000	
i).Timber			netuding loading unload	ding	
ii) Fuel Wood	0.000	cmt	500	0.000	
		cmt	500	0.000	
i).Timber	0.000	Depot Exper	nditure		
ii) Fuel Wood	0.000	cmt	760	0.000	
	0.000	cmt	760	0.000	
		10% €	extra for labour rate charges	0.000	
		·	Total Expenditure (.E)	0.000	
			Expenditure per Hectare	0.000	

Note- Applied forest land 206.826 ha. proposed to Underground Mining

SURVEYOR Tandsi Mine

MANAGER TANDSI COLLIER

UPSET PROCE FORM.C.

Upset Price =5/6 M=E

M= Market price

E=Expenditure

(A) ITEM-1 Upset Price in Rs.

(B) ITEM-2 Loss Value of Fo	dder (Grass)
Estimate quantity of grass in metrict tones vased on the consideration than on closer an area is complete of yielding an average 2 to 4 mt of grass per ha.	Annual production X Area Applied = Rs.0.000
Loss of fodder average in local market @ Rs. 1080 per mt	=Rs 0 000

(c) ITEM-3 Cost of Human Re- Settlement

The forest land in not to be used for the Re- settlement of displaced persons. Hence the cost of human Re-Settlement in Nil. There is no Habitation therfore no sttlement 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				
-	Standard loss per year ha in fully stocked			
Environmental loss over a period of 50 years	forest x Area applid for X avg.forest			
	density			
	.=Rs 0.000			
Environmental loss per years	.=Rs 0.000			

(F) ITEM-6 Suffering to Qutstees				
Suffering to Qutstees	Nil			

Note-Applied forest land 206.826 ha. ha proposed to Underground Mining

SURVEYOR Tandsi Mine MANAGER TANDSI COLLIER

		TAN	NDSI M	TAN	RGROUND PI	201505		
			, DOI IVE	Site Q	RGROUND P	ROJECT		
	Com	partment N	o.P400.	P401 P410 1	DANO DA13 DA1	4 D422 -2	06 926 ha)	
Compartment No.P400,P401,P410,P409,P413,P414,P422 = 206.826 ha.)								T
S.No	speces	Girth class	No.of tress	Timber Ractor	Quantity in	Fuel Factor	Quantity in cmt	Total Quanti
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	Ô	0
7		121-150	0	0.410	0	0.1025	0	0
8		151-180	0	0.580	0	0.14.50	0	0
9		180+	0	0.800	0	0.2000	0	0
	Sub total							
1		21-30	0	0.010	0	0.0100	0	0
2	1	31-40	0	0.020	0	0.0300	0	0
3	1	41-60	0	0.040	0	0.0500	0	0
4	1	61-80	Q	0.090	0	0.6000	0	0
5	semi	81-100	0	0.150	0	0.1000	0	0
6	sound	101-120	0	0.230	0	0.2050	0	0
7	1	121-150	0	0.310	0	0.2900	0	0
8	1	151-180	0	0.440	0	0.2900	0	0
9	1	180+	0	0.600	0	0.4000	0	0
	Sub total							
1		21-30	0	0.000	0	0.0100	0	0
2	1	31-40	0	0.010	0	0.0300	0	0
3	1 1	41-60	0	0.010	0	0.0500	0	0
4	1 1	61-80	0	0.030	0	0.6000	0	0
5	unsound	81-100	0	0.050	_ 0	0.1000	0	0
6		101-120	0	0.080	0	0.2050	0	0
7	1 1	129-150	0	0.100	0	0.2900	0	0
8	1 1	151-180	0	_ 0.150	0	0.2900	0	0
9	1 1	180+	0	0.200	0	0.4000	0	0
	Sub total		0		0		0	0
	Total		0		0		0	0
	tal timber							

Note- Applied forest land 206.826 ha. proposed to Underground Mining

SURVEYOR Tandsi Mine

TANDSI

COLLIERY

TANDSI UNDERGROUND PROJECT PARAMETERS FOR EVALUATION OF BENEFITS,

		NOTWITHSTANDING LOSS OF F	OF BENEFITS,		
S.No.	Parameters	Description	Calculation	Benefit (in Rs.crore	
1	Cost of coal produced over a period proposed in the project report (3 years)	Total 4.09 Million Tonnes of coal will be produced having market value of Rs1313.299		1313.299	
2	A total of 4.09 Million Tonnes of coal from Tandsi Underground Project worth Rs 13132.9 Crores will be produced which will be benefit to economy. The Govt. will be benefited by Royalty & Taxes will shall be Rs 104.17 crores per rate applicable to day 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 Royality 14% of value of coal		'	196.994	
3	Benefit in terms of electricity generation A	A total of 0.3 Million tonnes of coal will be produced annually from tandsi Underground Project will be used for power generation, taking average consumption of 0.6 kg. of coal per KWH of electricity generation. The total generation from 0.3 Million Tes. of coal will be 7x10 ⁸ units	15(yr.)x(1.5x10*) (units) x rs 3.0(Cost per unit)	840	
4	Employment potential	About600 direct employment in mine & 100 in- direct employment throught other services	600+100)(manpower)15 (yrs)x 305(days)x8(shift hours)xRs. 24 (per manhour)	61.48	
5	Cost of acquisition of facility on non forest land wherver 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	.0		
6	Loss of (a) agriculture & (b) animal husbandryu production due to diversion of forest land	There is no agriculture of husbandry production in the area.		V	
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.	1,	2411773	
9	Total benefits in Crores		Rs.Crores.	0.00	
A	Loss of Forest		N3.CIUICS.	19988/8* 1991F	
B.1	terms of cost of Coal produced	(Benefit/loss of forest)-Rs694.45 crores/ Rs.0.00 crores=	infinitive	100% profit	
B.2	Cost benefit ratio in	(Benefit /loss of forest)=Rs.104.17crores/Rs.0.00 crores=	infinitive	100% profit	
	Cost benefit ratio in	(Benefit /loss of forest)=Rs.135crores/Rs.0.00 crores=	infinitive	100% profit	
	Cost benefit ratio in terms of employment	Benefit /loss of forest)=Rs.13.14 crores/Rs.0.00 crores=	infinitive	100% profit	
	Cost benefit ratio in	Benefit /loss of forest)=Rs946.76crores/Rs.0.00	infinitive	100% profit	

Our of hour

SURVEYOR Tandsi Mine MANAGER TANDSI COLLIER