COST BENEFIT ANALYSIS

PARAMETER FOR EVALUATION LOSS OF FOREST HAS BEEN ACCORDED. FOR A PERIOD OF 50 YEARS AS PER GOVERNMET DIRECTIVES.

Quantum of Forest

: 190.42 Hectare for Mining of Limestone

Land applied for

Name of Project Manikgarh Cement, Gadchandur

Life of Project

About 50 years

Division Chandrapur Division, Chandrapur.(MS.)

SI No	Parameter & Description	ion of losses (Amount Rs. In Lakh)				
t ₋	Forest loss calculations Present NPV for 1 Ha of	6.26La	kh/Ha			
	Forest land Present NPV for 190.42 Ha forest land					
	Rate of CA for 1 Ha forest land					
	Value for CA for 190.42 Ha forest land	781.3885 Lakh				
	Double the amount of C.A.	Not Applicable				
	Total Loss		1973.418 Lakh			
2	Loss of animal hus productivity including loss of F		There is no loss of animal husbandry productivity.			
3	Loss of human resettlement		No village and no population is affected due to this project. There will be no loss involved on account of human resettlement.			
4.	Loss of public facilities and administrative infrastructure (Roads, Building, Schools, dispensaries, Electric line, Railway line, etc.) on forest land for which would require forest land if these facilities were diverted due to the project.		No public facilities and administrative infrastructure such as roads, buildings, schools, dispensaries, electric line, railways etc is affected by this project. There will be no loss involved on this account			

5	Environmental Losses (Soil	The details of Environmental losses are		
	erosion, effect on hydrological cycle,	determined as per given thumb rule for		
	wildlife habitat, Microclimate	the loss of forest area required for the		
	upsetting of ecological balance)	project are as follows:		
		1) Density of the forest :0.3		
		2) Average density for the forest		
		area proposed to be acquired for		
		the project is -0.3		
		3) Environmental value per Hectare		
		for density 1.0 (Rs. In Lakh)-		
		126.74 Lakh		
		4) Environmental loss per hectare		
		for forest density to be acquired		
		0.3*126.74=38.022 Lakh/Hectare		
		5) Total forest area required for the		
		Project -190.42 Hectare		
I.		6)Total environmental losses for the		
		Forest area to be acquired –		
		190.42*38.022= 7240.149 Lakh Rs.		
6.	Suffering of an oustees	No population is affected due to		
		construction of this project and hence		
		there will be no losses on this account.		
7.	Total Forest Loss	9213.567 Lakh		

Surge

EXECUTIVE PRESIDENT (MINES)
MANIKGARH CEMENT

COST BENEFIT ANALYSIS

$I-\underline{CALCULATION\ OF\ COST}$ PARAMETERS FOR EVALUATION OF LOSS OF FOREST

Name of Mine

: Manikgarh Cement

Quantum of forest land applied for

: 190.42 Ha.

Life of project

: 50 Years

Division

: Central Chanda Division, Chandrapur (MS.)

Particulars	Evaluation of losses	Annual losses (Rs.Lakh)	Qualified in monitory terms for a period of 50 years (Rs. In Lakh)
PARAMETER NO.1 Loss of value of Timber, fuel wood and minor forest produce on an annual basis including loss of Man hours per annum of people who drive livelihood and wages from harvest of these commodities (to be quantified and expressed in Monitoring terms)	The details of loss of timber, fuel wood and minor forest produce etc. for the forest land required for Manikgarh Limestone mines project: A) Timber, fuel wood & bamboo B) Minor forest produce- Tendu leaves (Annually) C) Loss of mandays of the employment to the people dependent on this forest patch for livelihood (Annually). (Due to no trees available in the	122.63+ 50.00	5098.88+2500 Total 7598.88
PARAMETER NO.2 Loss of animal husbandry productivity including loss of fodder	proposed land) There is no any loss of animal husbandry productivity	NIL	NIL
PARAMETER NO.3 Loss due to human resettlement	As there is no human resettlement due to diversion of forest land ,hence there will not be any loss on this account	NIL	NIL

PARAMETER NO.4 Loss of public facilities and administrative infrastructure	No public facility and administrative infrastructure like road etc. exists on forest land which is proposed to be diverted in this project	NIL	NIL
PARAMETER NO.5 Environmental losses	Average density of forest area proposed to be acquired for the project is 0.30 Environmental value per HA for average density (0.3) considering @ Rs. 126.74 Lakh per HA for 1.0 forest density.	190.42x126.74x0.3= 7240.149 Lakh Rs/Year.	7240.149x50 years= 362007.50 Lakh Rs
PARAMETER NO.6 Suffering to oustees	No human habitation exist on forest land proposed to be diverted, hence no loss on account of suffering to oustees from forest land	NIL	NIL
Grand Total			Rs.369606.38 Lakh

Curp.

EXECUTIVE PRESIDENT (MINES)
MANIKGARH CEMENT

COST BENEFIT ANALYSIS II – CALCULATION OF BENEFITS

PARAMETERS FOR EVALUATION OF BENEFIT (NOTWITHSTANDING LOSS OF FOREST)

Mining Project

: Manikgarh Cement

(A Divn. of Century Tex. & Ind. Ltd)

Quantity of Forest land

applied for

190.42 Hectare for Mining of Limestone.

Life of Project

50 Years

SI			Qualified in Monitory terms per	Qualification of benefit in Monitory terms
No	Parameter	Evaluation benefit	annum	connected to the period (50 years evaluation of Cement Plant)
1.	Increasing of	Additional 2.8 Million		1
	productivity	Tons/annum Cement will be		
	attri-buted to Specific Project	produced average sale value	121800	6090000
	Specific Project	@Rs.4350 per Ton , Lime	Lakh	Lakh
		stone consumption 4.2		
		million tons per annum		160000111
2.	Benefit to the Government	a) Royalty to the State Govt. @ Rs 80/MT	3360 lakhs	168000 Lakhs
		b) Sale Tax @ Rs 14.5% /ton of sale value	17661 Lakhs	529830 Lakhs*
		c) Welfare Cess to Central Govt. @ Rs 1/MT	42.00 Lakhs	2100 lakhs
		d) Excise duty of Cement @ 400/MT	11200 lakhs	560000 Lakhs
		e) Education Cess of Cement @ Rs 8/MT	224Lakhs	11200Lakhs
		f) Pollution Fee	120 Lakhs	6000 Lakhs
			Total	127130 Lakh
3.	Population benefit	 Population benefit within this project. Population indirectly benefited. 	Not expressed in Monitory terms	
4.	Employment Potential	260 workforce including workmen and staff will be additionally employed.	459 Lakhs	22945 Lakhs
5.	Cost of acquisition of facility on non forest land wherever feasible	Occurrence of limestone is a natural phenomena and alternate site is not feasible	NIL	NIL
6.	Loss of (a) agricultural & (b) husbandry production the to diver-sion of forest land	(a) Agriculture – Nil (b) Animal - Nil	NIL	NIL

Z	litation displaced	Forest land applied for is devoid of human habitation.		NIL
8.	Cost of supply of tree fuel wood to workers residing in or near forest area during the	Project is giving Fuel Allowance to the workers for domestic use as such supply of fuel wood does not arise.		NIL.
-			Total :	7390075

^{*}Considered 30 years only as Sales Tax as exemption is available for 20 years.

Place: Gadchandur

Date:

EXECUTIVE PRESIDENT (MINES)
MANIKGARH CEMENT

MANIKGARH CEMENT, GADCHANDUR COST BENEFIT ANALYSIS

ABSTRACT

Total area of forest land involved

190.42 Hect.

Life of Project

50 ears

A) TOTAL FOREST LOSSES

Parameter 1 : 7598.88
Parameter 2 : NIL
Parameter 3 : NIL
Parameter 4 : NIL

Parameter 5 : **362007.50**

Parameter 6

NIL 369606.38

Total: :

Total Forest Area Required for the

190.42 Hect.

Project

Loss per Hect. for Forest Area

1941.006 1Lakh/Hect.

B) TOTAL BENEFITS TO THE GOVERNMENT & SOCIETY FROM THE PROJECT TO BE ACQUIRED IN 50 YEARS

Parameter 1 : 6090000 Lakh
Parameter 2 : 1277130 Lakh
Parameter 3 : Intangible gain
Parameter 4 : 22945 Lakh

Parameter 5 NIL
Parameter 6 NIL
Parameter 7 NIL
Parameter 8 NIL

Total: : 7390075 Lakh

Benefit per Hect. of the Forest Land to be

38809.34 Lakh/ Ha

acquired

Loss per Hect. of the Forest Land to be

1941.0061 Lakh/Ha

acquired

C NET BENEFIT FROM THE PROJECT

7390075 Lakh

D ENVIRONMENTAL LOSSES.

369606.38 Lakh

BENEFIT COST RATIO

C:D : 19.19:1

Looking to the cost benefit ratio, the Project is very much instrumental in the growth of national economy and hence requested for an early clearance from environmental angle.

EXECUTIVE PRESIDENT (MINES)
MANIKGARH CEMENT

DY CONSERVATOR OF FORESTS, CENTRAL CHANDA DIVN, CHANDRAPUR