PARAMETERS FOR EVALUATION OF LOSS OF FORESTS

FOR USE OF FOREST LAND FOR NON FOREST PURPOSE FOR ' CONSTRUCTION OF 4-LANE DEDICATED COAL CORRIDOR ROAD FROM BANKIBAHAL TO BHEDABAHAL ROAD FROM 0/0KM TO 30/811KM

		OIVI BANKIBAHAL TO BH	EDABAHAL ROAD FROM 0/0KM	10 30/811KW
Sl.N o.	Particulars			Amount
1	a) Loss of Timber and First specified for which the t unit for the year 2014-15	11664014.00		
	b)Loss of fire wood: for 6	480 nos of trees= 13.5m	t. @ Rs 4300/MT	58050.00
	c) Loss of minor forest pr	oducts		
	MFP	YIELD	MARKET VALUE	
	Mahul (753) nos	1 qtl per tree	Rs 800.00per 1 qtl	
	Jamu (131) nos	1 qtl per tree	Rs 800.00per 1 qtl	1108000.00
	Mango (501) nos	1 qtl per tree	Rs 800.00per 1 qtl	
	d) Loss of man power approximately 600 mandays @ Rs 213.5 per mandays			128100.00
2	Loss of animal husbandary productivity including loss of fodders			
	(a)Loss of animal husbandary			
	(b) Loss of Fodder ((26.99) hectare @ rs 4000/hectare Taking 50% of area			364365.00
2(b)	Loss of animal husbandary productivity including loss of fodders Losss of fodder= 4 cattle@ 2.02 hect. Of forest land per cattle required for fodder @ Rs 0.75x365x4=(over 6.93 hect.) @ Rs 3000 per ha.			
				20790.00
3	Cost of human resettlem	ent		0.00
4	Loss of Public utilities and administrative infrastructure (Roads, Buildings, School, Dispensaries, Electric Line, Railway etc.) which would require forest land if these facilities were diverted due to the forest			0.00
5	Enviornment loss (Soil erosion, affect of hydrological cycle, wild life habitat,microclimate upsetting of ecological balance) as per thumb rule prescribed enviornmental loss due to loss of forest over 26.99 hect, area of forest density 0.2 of accrud over a period of 50 years 181 lakhsx.2x26.99/50			1954076.00
6	Suffering of Out set			0.00
7	NPV cost (26.99x1.35 lak	:h)		3643650.00
		TOTAL		18941045.00

Executive Engineer
Sundargarh (R&B) Division

PARAMETER FOR EVALUATION OF BENEFIT NOT WITHSTANDING LOSS OF FOREST

SL. NO.	PARAMETER	SOCIAL AND ECONOMICAL DEVOLOPMENT AFTER EXPANSION OF
1	Industrial Growth	This Road will connect The Coal mines at Bankibahal to Bhedabahal S.H. 10 facilating the transportation of coal and it generate maximum revenue for the state government. Expansion of this road will attract private company to set industries as this road will connect coal corridor road and it will improve the revenue generation and devolopment of the state.
2	Tribal Zone	The district is a tribal district and this road passes through the tribal areas. Expansion of this road will provide a improve and safe connecting to local villages which expand the scope of work and will improve the life style
3	Small and Medium scale industry	Expansion of this road will provide connectivity to the other parts of the state as this road will be connected to the SH 10 the express way . There fore this road will attract small and medium scale industries to devolop and grow which improve the growth rate of state.
4	Employment	Expansion of this road generate employment for Local people resulting improve of Life Cycle of people.
5	Reduce Accidental Zone	Widenng of this road will decrease the number of accidents happened
6	Saving of Fuel Consumption	Widenng of this road will provide safe, one way and smooth ride availability of vehicles. It will lead to saving of fuel consumption.
7	Income of Traffic	This road will connect to the Jharsuguda district as well as to the other industrial town and subsequently to other state, the traffic may increase in many folds which will lead to employment generation and other revenue generation to the state.

Executive Engineer Sundargarh (R&B) Division

SUMMARY OF COST BENEFIT ANALYSIS (RATIO)

1	Total Loss per annum due to loss of timber, fire wood, minor forest product and environmental loss	1.89	crore
2	Total benefit per annum to the economy due to the four lanning of the existing 2- lane road	391.09	crore
	Hence the cost benefit ratio of this project is	1.:206	

Executive Engineer Sundargarh (R&B) Division

PARAMETERS FOR EVALUATION OF BENEFIT NOT WITHSTANDING LOSS OF FOREST				
Sl.No.	Parameters	Amount		
1	Benefit to economy and royalty towards production and transportation of coals ie 65x100,00,000tons=65 crore B. Employment Generation ie 4000 nos 4000x213.5x360=30.74crore	95.74 crore	ġ	
2	Constructon cost of road from bankibahal to Bhedabahal from 0/0km to 30/811km	236.41 crore	j	
3	Operation and Maintenance Cost of the Road per year=11.82/3 crore	3.94 crore	<u>,</u>	
4	Revenue generation from other state due to good connectivity= 20 crore	20 crore	9	
5	Revenue generation from setting up of Industry, employment generation	20 crore	j	
6	Saving of Fuel,Reduce accident	5 crore	j	
7	Revenue from natural materials for the construction of the road= 10 crore	10 crore	9	
		391.09 crore		

Executive Engineer Sundargarh (R&B) Division