PARMETERS FOR EVALUATION OF LOSS OF FORESTS

FOR USE OF FOREST LAND FOR NON FOREST PURPOSE FOR "Widening and Strengthening from two lane to two lane with paved shoulder from 269/300km to 328/200km including Kuchinda Bypass of N.H.-49

(Jharsuguda – Bholpur Section)"

	idile iiiiii pured biilodii	(Jharsuguda – Bhojpu	ur Section)"	
SI. No.		Particulars		Amount
	a) Loss of Timber and fire wood= 382 nos different species and girth will be			
	specified for which the total no. of units comes to 248.68 unit and rate per			6,87,600.00
	unit for the year 2014-15 is 2765/unit b) Loss of fire wood for 382nos of trees = 0.80MT @ Rs.4300/MT			3440.00
	c) Loss of minor forest products			
	MFP	YIELD	MARKET VALUE	
	Teak (2)			
	Mango(65)	1		
	Sala(37)			
	Akashiya(28)			
	Chara(8)		A OF 16 22 OF L	1
	Jammu(12)			
	Rohini(5)	_		
	Ashan(5)			
	Bahada(1)	1		
	Khasl(1)	4		
	Sahaj(1)	1		
	Sidha(1)			
	Mahula(18)			
	Kusum(1)			
	Eukaliputs (96)			
	Chakunda(30)			
	Palas(1)			
	Bhamar(1)			
	Boul(5)	One quintal/ Tree	Rs. 800.00/ quintal	3,05,600.00
	Neem(14)			
	Pipal(1)			
	Debdaru(1)			
	Radhachuda(21)			
	Siris(4)			
	Tentuli(2)			
	Kadam(2)			
	Arjun(4)			
	Sisoo(1)			
	Kekat(1)			
	Kurel(1)			-87
	Subabul(1)			24.5
	Simil(3)			
	Dlmirl(2)			
	Kanchan(1)		174 20 11/	
	Krushnachuda(2)			Tall II
	Banyan(1)			
The s	Babul(1)			
22. E	Gohira(1)			

t (20.269 x 1.35 lakh) TOTAL	27,36,315.00	
+ (20 200 4 25 1 11)	27 26 215 00	
ing of Out set	0.00	
period of 50 years (1,81,00,000 x 0.20 x 20.269)/50	14,67,476.00	
over 20.269 hect. Area of forest density 0.20 of accrued		
umb rule prescribed enciornmental loss due to loss pf		
pitat, microclimate upsetting of ecological balance) as		
ment loss (Soil erosion, affect of hydrological cycle, wild		
buildings, School, Dispensaries, Electric Line, Railway hich would require forest land if these facilities were	0.00	
f public utilities and administrative infrastructure (
Cost of human resettlement		
f fodder -5 cattle @ 2.02 hect . of forest land per cattle ed for fodder (10.10 hect,) @ Rs.3000 per hect	30,300.00	
Loss of animal husbandary productivity including loss of fodders		
s of fodder (20.269) hectare @ Rs. 4000/-hectare Taking f area	40,538.00	
a) Loss of annimal husbandary		
Loss of annimal husbandary productivity including loss of fodders		
1.30 per manday	1,34,580.00	
1.3	f man power approximately 600 mandays @ O per manday	

Executive Engineer
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PARAMETER FOR EVALUATION OF BENEFIT NOT WITHSTANDING LOSS OF FOREST

*537.05	TOTAL STANDING LOSS OF FOREST		
SL. NO.	PARAMETER	SOCIAL AND ECONOMICAL DEVOLOPMENT AFTER WIDENING OF THE ROAD	
1		This Road will connect the Coal mines of Jharsuguda district with diffrent industries in Odisha & Chhatisgarh thus facilating the transportation of Coal and generate maximum revenue for the State Govenrment. Widening of this road will attract private companies to establish industries as this road will connect coal corridor road and it will improve the revenue generation and devolopment of the state.	
2	Tribal Zone	This District is a mineral rich district. Expansion of this road will provide an improved and safe connecting to local villages which expand the scope of work and will improve the life style.	
	scale industry	Widening of this road will provide convectivity to other parts of the state and adjoing chhatisgarh state. Therefore, this road will attract small and medium scale industries to devolop and grow which will improve the growth rate of state.	
4		Widening of this road will generate employment for local people resulting improvement of life Cycle of prople.	
5		Widening of this road will decrease the number of accidents happened	
6		Widening of this road will provide safe and smooth ride for the vehicular traffic. It will lead to saving of fuel consumption.	
7		This road will connect to different parts of Jharsuguda district & sambalpur district as well as to other industrial towns and state, the traffic may increase in many folds which will lead to employment generation and other revenue generation to the state.	

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SUMMARY OF COST BENEFIT ANALYSIS (RATIO)

Total Loss per annum due to loss of timber, fire wood, minor forest product and encironmental loss

0.54 crore

Total benefit per annum to the economy due to the widening of the existing 2 lane road

378.06 crore

1.:700

Hence, the cost benefit ratio of the project is

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PARAMETERS FOR EVALUATION OF BENEFIT NOT WITHSTANDING LOSS OF FOREST

SI. No.	Parameters	Amount(In Rupees)	
1	A.Benefit to economy and royalty towards production & transportation i.e. 80x100,00,000 tonnes= 80.00 crores	112.30 crore	
	B. Employment Generation le 4000 nos /day 4000x360x224.30=32.30 crore		
2	Construction cost of road from Jharsuguda to Bhojpur from 269/300km to 328/200km of NH-49	199.16 crore	
3	Operation and Maintenance Cost of the Road per year = 6.38/4 Crore	1.595 crore	
4	Revenue generation from other State due to good connectivity = 30 crore	30 crore	
5	Revenue generation from setting up of Industry, employment generation	20 crore	
6	Saving of Fuel, Reduce accident	5 crore	
7	Revenue from natural material for the construction of the road = 10 crore	10 crore	
		378.055 crore	
		Say Rs.378.06 crore	

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