


# For check list Sl No-12

Parameter for Evaluation of Loss of forest for use of Forest Land for Non-forest purpose for the work " Widening to two lane carriage way from 327/700km to 413/700km of N.H-326 (Erstwhile from 16/0 km to 102/0 km of S.H-25) under Vijayawada-Ranchi corridor in the District of Koraput and Malkangiri in the state of Odisha on EPC basis under LWE"


Sl.No	Particulars			Amount( Rs)
1	(A) Loss of Timber, fire wood = 909 Nos of different species and girth will be felled down for which the total No of unit comes to 2232 unit Rate for the year 2015-16 @ Rs 1889/- per unit			4216248.00
	(B) Loss of firewood for 909 nos of trees = 9090 Mt @ Rs 770.00 per meter			6363000.00
	(C) Loss of Minor forest produce			
	MFP	YIELD	MARKET VALUE	
	Total Nos of trees = 909 Nos	1 Qntl per tree	Rs 800.00 per Qntl	727700.00
	(D) Loss of manpower approximately 200 man days @ Rs 200/- per mandays			40,000.00
2	Loss of Animal husbandary productivity including loss of fodders			
	(A) Loss of Animal husbandary			
	(B) Loss of fodders 1.576 Hecter @ Rs 3000/- per Ha			0.00
2 (B)	Loss of Animal husbandary producivity including loss of fodder			4728
(i)	Loss of fodder = 2 cattle @ 2.02 ha of forest land per cattle required for fodder @ Rs 0.75 X 365X 2% = 5.475 @ Rs 3000.00 per Ha			16425.00
(ii)	Loss of fodder grass basis of calculation of fodder each cattle required 10kg of fodder per day which cost Rs 2.00 approximately I,e the cost of feeding per annum for a cattle comes to Rs 730.00 So for 2 Nos cattle in 2.892 Ha of forest land is Rs 2111.00			4222.00
3	Cost of human resettlement.			0.000
4	Loss of public utilities and administrative infrastucture (roadc, Building, school, dispensaries, electric line, Railway etc) wiich would require forest land if these facilities wee diverted due to the project.			0.00
5	Environment loss (soil erosion, affect of hydrological cycle, wildlife habitat, microclimate upsetting of ecological balance) as per ;thumb rule prescibed envionmental loss due to loss of forest over 2.892 Ha area of forest of density 0.2 accured over a period of 540 Years 181 lakhsX 0.2 X 2.892 Ha/50.			209381.00
6	Suffering of outset			0.00
7	NPV cost (2.892 X 6.26 lakhs)/30 Years			60346.00
			<b>Total</b>	11,642,050.00

Counter Signed by  
Divisional Forest Officer  
Jeypore

  
Executive Engineer,  
N.H. Division, Jeypore

PARAMETER FOR EVALUATION OF BENFIT NOT WITHSTANDING LOSS OF FOREST.		
SI No	Parameters	Compliance
1	Benfit to Economy (a) Royalty towards production and Transportion of Mining products i.e Rs 65 X10,00,000 tons = 6.50 Crore (B) Employment generate i.e 1000 No's 1000 x 200 x 360= 7.20 Crore.	13.70 Crore
2	Construction cost of Widening to two lane carriage from 327/700 to 413/700 Km of NH-326.	199.11 Crore
3	Operation and maintiance cost of NH-326 from Jeypore to Malkangiri.	0.35 Crore
4	Revenue Generation due to increase in tourism in the area and State	2.00 Crore
5	Revune Generation from other states due to proper connectivity =20 Crore	20.00 Crore
6	Revune from natural materials for the consgtrucgtion of National Highway (a) Moorum/Soil = 102000 x35.00 =0.357 crore (b) Stone product 555555 Cum x 130 = 7.22 Crores ( c ) 30000 Cum x 35 =0.105 crore	7.68 Crore
Total Rs		242.84 Crore


Counter Signed by  
Divisional Forest Officer  
Jeypore

  
Executive Engineer,  
N.H. Division, Jeypore



SUMMARY OF COST BENEFIT ANALYSIS (RATIO)		
1	Total loss per annum due to loss of timber, firewood, minor forest product and environmental loss.	1.164 crore
2	Total benefit per annum to the economy due to two laning of existing road NH -326.	242.84 Crore
	Hence the cost benefit ratio of the project is	1:208.6 or 1:208

Counter Signed by  
Divisional Forest Officer  
Jeypore

  
Executive Engineer,  
N.H. Division, Jeypore