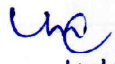


AS PER MoEF&CC GUIDELINE NO 7-69/2011-FC(Pt), Date-01.08.2017**TABLE-B. ESTIMATION OF COST OF FOREST DIVERSION**

Sl.No	PARAMETERS.	Amount in Lakhs
1	Ecosystem services losses due to proposed forest diversion (NPV)	298.436
2.	Loss of Animal Husbandry productivity including Loss of fodder (over 14.012 hecets(10% of NPV)	29.844
3.	Cost of human re-settlement	NIL
4.	Loss of Public facilities and administrative infrastructures (roads, buildings, schools, dispensaries, electric lines, railways etc) on forest or which would require forest land, if these facilities were diverted due to the project.	NIL
5.	Possession value of Forest land Diverted (30% of environmental cost (NPV) due to loss of forest or circle rate of adjoining area in the district should be added as a cost component as possession value of forest land whichever is maximum).	89.531
6.	Habitat Fragmentation Cost (While the relationship between fragmentation and forest goods and services is complex, for the sake of simplicity the cost due to fragmentation has been pegged at 50% of NPV applicable as a thumb rule)	149.218
7.	Suffering of Oustees	Nil
8.	Cost of compensatory afforestation and soil & moisture conservation cost (Double land $31.152 \times 2 = 62.304$ ha. and 31.152×1000 plant/ha. = 31152 nos. of plant will be planted, now land is required = 500 plant/ha. = 62.304 Ha) the cost of CA /ha. Rs. 142904.00	89.035
	Total Loss (1-8)	686.064

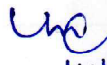

 14/11/23
 उप मुख्य अभियंता (निर्माण)
 पूर्व तट रेलवे, रायगड़ा
 Dy. Chief Engineer (Con.)
 East Coast Railway, RAYAGADA.

ANNEXURE-

TABLE-C. ESTIMATE BENEFITS OF FOREST DIVERSION IN CBA

Sl. No.	Parameters	Compliance in lakhs
1.	Increase in productivity as attribute to the specific project	547.924/annum
2.	Benefit to Economy due to the specific project	442.27/annum
3.	No. of population benefited from the specific project	967911people
4.	Economic benefits due to of direct and indirect Employment due to the project	300 employment
5.	Economic benefits due to Compensatory afforestation. (The benefit from such compensatory afforestation accruing over next 50 years monetized and discounted to the present value should be included as benefit by compensatory afforestation) FOR NEXT 50 YEARS. the estimated cost of NPV for present value is taken as benefit by compensatory afforestation i.e. Present value $X (1+i)^N = 89.035X(1+0.027)^{50}$ (i= interest, N=Time)	337.352
Grand Total (SL.No1 to 5)		779.622

COST BENEFIT ANALYSIS RATIO			
1	Benefit to economy	779.622	
2	Loss on forest	686.064	
3	Cost benefit ratio -	1:1.136	


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