

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

<b>Sl.No</b>	<b>PARAMETERS.</b>	<b>Amount in Lakhs</b>
1	Ecosystem services losses due to proposed forest diversion (NPV)	49.021
2.	Loss of Animal Husbandry productivity including Loss of fodder (over 14.012 hecets(10% of NPV)	4.902
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).	14.706
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)	24.510
7.	Suffering of Oustees	Nil
8.	Cost of compensatory afforestation and soil & moisture conservation cost (Double land $5.117 \times 2 = 10.234$ ha. and $5.117 \times 1000$ plant/ha. = 5117 nos. of plant will be planted, now land is required = $500$ plant/ha. = 10.234Ha) the cost of CA /ha. Rs. 142904.00	14.625
	<b>Total Loss (1-8)</b>	<b>107.764</b>

**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	1531000people
4.	Economic benefits due to of direct and indirect Employment due to the project	300 employment
5.	Economic benefits due to Compensatory afforestation. <i>(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)</i> FOR NEXT 50 YEARS. the estimated cost of NPV for present value is taken as benefit by compensatory afforestation i.e. $\text{Present value} \times (1+i)^N = 14.625 \times (1+0.04)^{50}$ (i= interest, N=Time)	55.414
<b>Grand Total (SL.No1 to 5)</b>		<b>1045.608</b>

COST BENEFIT ANALYSIS RATIO			
1	Benefit to economy	<b>1045.608</b>	
2	Loss on forest	<b>107.764</b>	
3	Cost benefit ratio -	1: 9.703	

  
 Dy. CE (Con)/III,  
 E.Co.Railway, Koraput  
 Dy.C.E/ Con/ III  
 E.Co.Railway  
 KORAPUT

For Pioneer Surveyors  
  
 Authorized Signatory  
 Authorize Signatory,  
 PIONEER SURVEYORS