COST BENEFIT ANALYSIS

(As per guidelines dated 01/08/2017 issued by MoEF&CC,Govt.of India)

Full title of the Project: "400 kV D/c Patratu-Latehar Transmission line"

Forest Area (h 126.974

		Forest Area (n	120.574		
Table - B :- Estimation of cost of forest diversion					
SI. No	Parameters	Cost	Remarks		
		(Rs. In Cr)			
1	Ecosystem Services losses due to proposed forest diversion		NPV of the forest land being diverted		
2	Loss of animal husbandry productivity including loss of fodder.		As per FCA guidelines. 10% of NPV Applicable		
3	Cost of human resettlement.	₹ 0.00	N.A. Since there is no displacement of people due to the project hence there would be no cost of human resettlement.		
4	Loss of public facilities & administration infrastructure (roads, building, school, dispensary, electric lines, railways etc.) on forest land or which would require forest land if these facilities were diverted due to project.	₹ 0.00			
5	Possession value of forest land diverted.	₹ 4.68	30% of Environmental Costs (NPV)		
6	Cost of suffering of outsees	₹ 0.00	Not applicable since there will be no displacement.		
7	Habitat Fragmentation Cost	₹ 7.80			
8	Compensatory Afforestation and Soil & Moisture Conservation Cost	(10111			
	TOTAL COST:	₹ 72.81			

Table C:- Estimation of benefits from Forest diversion

SI.No. Head Benefits (Rs. In Cr) 1 Increase in Productively attribute to the specific project. Power carrying Capacit 9,470.26 Festimated benefits: 200	~
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project. 9,470.26	~
project.	
Estimated benefits: 200	
	00 MW X 35 Yrs X 365 Days X 24 Hrs
	eople shall be benefitted on account
project of transfer of clean and	renewable energy to Load Centees
Economic benefit due to direct and indirect employment to 15 employment for a perior demployment due to the project. During Project Construent employment to 15 employment for a perior demployment due to the project. During Operation & The project will provid Temporary employme Lakhs) (For Permanent em Lakhs/year /person a lakhs/year/person).	rection Stage: The project will provide Permanent & 600 Temporary od of 18 months. (Rs 2520 Lakhs) Maintenance Phase (for 35 Years): e employment to 15 Permanent & 36 nt for a period of 35 years. (Rs 9450 ployment avg. benefit of Rs 12 nd for temporary employment 2.5
5 Economic benefits due to Compensatory Afforestation 43.17 Considered @ 17 L for diversion	akhs/ ha for twice area proposed
TOTAL COST: 9,633.13	

C. Total Project Cost in Cr:

The project cost includes the complete line cost including equipment,

services, etc

Cost Benefit Ratio i.e. Project Benefit / Forest loss + Project Cost =

35.31

200

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