

JHARKHAND URJA SANCHRAN NIGAM LTD.

Transmission Grid Sub-Station, Chatra

Email Id: aeeitkhorigss@gmail.com

Letter No 28) /CHATRA- HUNTJ TL/TSD/CHATRA

Date: 24/Q3 /2021

COST BENEFIT ANALYSIS

Cost Benefit Analysis for 132kV D/C HUNTERGANJ – CHATRA Transmission Line of chatra District in Jharkhand sate is Estimated as per the Guidelines of Govt. of India with LetterNo. 7-69/2011-FC(Pt.) Dated – 01/08/2017 and given below:-

Table - A: Estimation of Cost of Forest Diversion:

SL.No.	Parameters	Cost (Rs. Lac)
1	Eco system Services Losses Due to Proposed Forest Diversion (Economic Value of Eco system Services Due to Proposed Forest Diversion has been Taken as the "Net Present Value (NPV) of the forest land being Diverted as Prescribed by the Central Government (MoEF & CC) NPV rates taken as 9.39 lacks Per Ha. Under Class II of medium Density Forest Born by the Project Works out to be RS. 499.67 Lac (53.2129 Ha.x 9.39)	the vienced of the vienced of the vienced of the vience of
2	Loss of Animal Husbandry productivity (Taken at 10 ½ of NPV)	49.967
3	Cost of the Human resettlement (resettlement Due to Proposed Forest Diversion)	NIL
4	Loss of Public Facilities and Administrative Infrastructures (Road, Building, School, Dispensaries, Electrical Lines, Railways etc. on Forest land if these Facilities were Diverted Due to Project (No Public Facilities and Administrative Infrastructure are Involve)	NIL
	Possession of Value of Forest land diverted (Taken at 30% of NPV)	149.901

Division Office

: J.U.S.N.L, Transmission Division,1st Floor, Shringari Complex, Mariam Toli,

Canary Hill Road, Hazaribag- 825301

Registered Office: Jharkhand Urja Sancharan Nigam Limited, JUSNL Building, Kusai Colon

Ranchi - 834002.

सुनील कुमार SUNIL KUMAR प्रबंधक (तुंं)/Manager (T) संचरण अपर प्रमण्डल/TSD झारखण्ड ऊर्जा संचरण निव्लिट/JUSNI.

चतरा/Chatra

6	Cost of suffering to ousters	NIL
in die	(There are no ousters Due to Proposed Forest Diversion)	
7	Habitat Fragmentation Cost	249.835
swire	(Take at 50% of NPV)	et Benefit Analyen
	Compensatory Afforestation and Soil & Moisture Conservation Cost (2,50,000- per Ha For 53.2129 Ha.)(Cost For Double Area)	133.032
()	Project Cost: -	1646.81
9	Fixed assets, inclusive of investment, Current assets Loans & advances Other Expenditures like preoperative expenses, interests during construction etc.	10.46
		2729.215 Lac.
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Table- B: Estimating Benefit of Forest Diversion				
SL. NO	Parameter	cost (RS.Lac)		
300.433	Increase in Productivity Attributable to the Specific Project: Power Flow = 140mw(2x70) Load Factor = 60 % Losses = 2.5% Average Value Added = 0.25 per kwh Energy Send out Per Year = 140x1000x0.6x8760x0.975kwh = 71.744x107 Value Added = 71.7444x107 x 0.25 = 17.936/crore/year = 18 crore/year = 18 crore/year = 18 crore/year = 50x18 = 900 crore			
2	Benefit to Economy Due to The Specific Project. The Power Will be Transmitted Through This Line to The Power deficit of Huntergunj& Chatra Block of Chatra District. This Project Will provide sustained and Incessant Supply of Power to this Block Which will be Utilized by Large Commercial, Domestic and Agriculture Growth Leading to Increase output Which in turn Will lead to Increase in GDP (Gross Domestic Product) of Jharkhand)	Mame Design Office		
3	No of population benefited due to Specific Project. Assuming Average 10 Units Consumption per Day House Hold. Total 1.5 Million House Hold can Be Provided Electricity Per Year	NA		

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प्रयंधक (तर्)/Manager (T) संचरण आर प्रमण्डल/TSD शारसण्ड ऊर्जा संचरण निवतिक/JUSNU

चतरा/Charra

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4	Economic Benefit due to Direct and Indirect Employment Due to	397.8
of the same of the same of the	the Project During Project Stage, The Project Will Provide	TO THE OWNER OF SECURITIONS OF SECURITIONS
	Employment 6 nos. of Permanent and 250 Temporary	ronal region
	Employments for a period of 18 months (For Permanent	
	Employment Benefit of RS 4.20 lacks/ per Year person and	
	Temporary Employment Rs0.96 Lacks/Year per Person	
LYRI Le	Taring to	SLNO
5	Economic Benefit Due to Compensatory Afforestation (The NPV of	427,299
	the CA land Considered as Prescribed by the Guidelines 7-69/2011-	
	FC(Pt)dated 01-08-2017 NPV rates taken as Class III medium	
	Density Forest Rs-8.03 lacks/Hs for 53.327Ha	
	e.d Factor	
	TOTAL:-	00007
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	99825.099

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Cost Benefit Ratio:-

i) Table -A Estimation of Cost of Forest Diversion :- 2729.215

ii) Table -B: Estimating Benefit of Forest Diversion: 99825.099

Cost Benefit Ratio = 2729.215 lakhs/99825.099 lakhs

= 1:36.57

The Cost Benefit Ratio of the Project is Estimated at 1:36.57

Signature

संबरण अवर प्रमण्डल/TSD जीरखण्ड कर्जा संतरण निर्वातिव/JUSNLA;

Name In Block Letter

Designation

Office Address

: Manager

: SUNIL KUMAR

: Transmission Division, Jharkhand Urja Sancharan

Nigam Limited, 1st Floor, Shringari Complex,

Canary Hill Road, Near Montfort School,

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Hazaribag-825301, Jharkhand.

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