

Full Title of The Project: Ghatampur- Agra 765 kV S/C Transmission Line

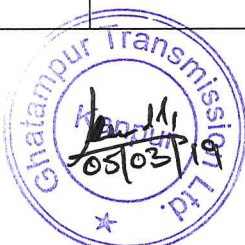
File No.: FP/UP/TRANS/39285/2019

Date of Proposal:

Cost Benefit Analysis in accordance with the MoEFCC Guideline dated 1st Aug 2017

Table B- Estimation of cost of forest diversion (as per MoEF&CC Guideline dated 1st Aug 2017) related to cost benefit analysis

S. No.	Parameters for Evaluation of Loss of Forests	Remarks
1	Ecosystem Services losses due to proposed forest diversion	NPV of the forest land being diverted = 79.4992 ha x Rs. 6.26 lac= Rs. 497.67 lac As per the instructions in MoEFCC guideline dated 01.08.2017, Economic value of the loss shall be Net Present Value of the forest land being diverted.
2	Loss of animal husbandry productivity including loss of fodder.	There will not be any loss of productivity of livestock due to construction of transmission line. However, as per the instructions in MoEFCC guideline dated 01.08.2017, Actual or 10% of NPV Applicable whichever is more is to be taken. So we have taken 10% of NPV Applicable i.e. Rs. 49.77 lac
3	Cost of human resettlement	NIL 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 infra-structure (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.	NIL The route/corridor of the Transmission line not affecting any public facilities on diverted forest land.
5	Possession value of forest land diverted	30% of Environmental Costs (NPV) i.e. Rs. 149.30 lac.



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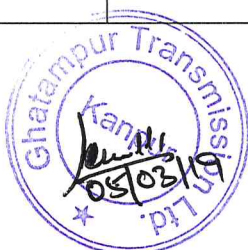
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		As per the instructions in MoEFCC guideline dated 01.08.2017.
6	Cost of suffering of oustees	NIL There is no displacement of people due to the project. Hence taken as Nil.
7	Habitat Fragmentation Cost	50% of applicable NPV: 79.4992 Ha. x 6.26 Lacs x 50% = 248.84 Lakh As per the instructions in MoEFCC guideline dated 01.08.2017
8	Compensatory afforestation and soil & Moisture conservation cost.	2.50 Lakh/Ha including CA and soil & Moisture Conservation cost Hence Total Losses: 2.5 Lakh x (79.4992x2) Ha = 397.50 Lakh. Since the CA is proposed on double degraded land.

Table C- Estimation of Benefit of Forest Diversion in Cost Benefit Analysis (as per MoEF&CC Guideline dated 1st Aug 2017 related to cost benefit analysis)

S. No.	Parameters for Evaluation of Benefits	Remarks
1	Increase in Productively attribute to the specific project.	This Project will facilitate evacuation of 1980 MW of power generated at Ghatampur Thermal Power Station thereby contributing to the increase in productivity in industrial sector & improve power availability. Cost of this Project including interest= 40000 Lacs.
2	Benefit to economy due to the specific project	40000 Lacs* By infusion of Rs. 40000 Lacs, various



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		<p>sectors of economy like steel, cement, Banking, manpower and engineering will get benefitted.</p> <p>*Since this figure has already been considered at S. No.1, it has not been added to the total benefits.</p> <p>However, this project will definitely improve the Socio-economic conditions of the State & result in the economic development due to addition of 1980 MW of power to the State Grid.</p>
3	No of population benefited due to specific project	Entire State of Uttar Pradesh will benefit from the availability of reliable power.
4	Economic benefit due to direct and indirect employment due to the project	4000 Lacs
5	Economic benefits due to Compensatory Afforestation	<p>Rs. 8.03 Lacs X 158.9984 Ha.= Rs. 1276.76 Lacs * (as per Guideline issued by MoEFCC, vide letter No.F.No.5-3/2007/FC, Dt. 05.02.2009).</p> <p>*Since the Compensatory afforestation is to be carried out at twice the area. Further It is presumed that the plantation will grow into a moderately dense forest.</p>

Cost Benefit Ratio : Total Environment & Forest loss: Project Benefit

Cost Benefit Ratio : Rs. 1343.071: Rs. 45276.75 Lacs

Cost Benefit Ratio : 1: 33.71

Place : Kanpur

Date : 05/03/2019


Navneet Chadda
Senior Manager