

COST BENEFIT ANALYSIS

Project: Diversion of 0.966 Ha. of forest land for installation of HDPE pipe line over a length of 4.748 K.M. for drawal of water from river Mahanadi to Boudh Distillery.

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

SN	Parameters	Remarks (For Transmission Line)
1	Ecosystem Services losses due to proposed forest diversion. NPV of the forest land being diverted i.e Revenue Forest 0.966 ha x Rs.6.26 lac= Rs. 6.047 lac	Rs. 6.047 lac
2	Loss of animal husbandry productivity including loss of fodder.	10% of NPV Applicable i.e. Rs.0.605 lac
3	Cost of human resettlement.	No R & R is involved .
4	Loss of public facilities & administration infrastructure(roads,building, school, dispensary, electric lines, railways etc.) on forest land .	Not applicable, Since these facilities are not available inside the forest area for proposed diversion.
5	Possession value of forest land diverted.	30% of Environmental Costs (NPV) i.e Rs.1.814 lac
6	Cost of suffering of oustees	Not applicable since there will be no displacement of peoples.
7	Habitat Fragmentation Cost	50% of NPV Applicable as thumb rule i.e Rs. 3.024 lac
8	Compensatory Afforestation and Soil & Moisture Conservation Cost	Not applicable as diversion of forest land is less than 1.0 ha.
Total Loss (Against the proposed forest land diversion)		Rs.11.49 lac

**Divisional Forest Officer
Boudh Division**

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)

SN	Parameters	Remarks (For Transmission Line)
1	Increase in Productivity attribute to the specific project	Rs.292.00 lac per annum
2	Benefit to economy due to the specific project	Rs.292.00 lac
3	No of population benefited due to specific project	500
4.	Economic benefit due to direct and indirect employment due to the project	Socio economic condition of the persons to be employed will be increased.
5.	Economic benefits due to Compensatory Afforestation	Rs.6.26 lac x 0.966 ha (as per Guideline issued by F & E Dept. vide letter No.21637 Dt.22.12.2009) = Rs.6.047 lac
	T o t a l	Rs.298.047 lac

Boudh Distillery Pvt. Ltd.


Chief Operating Officer

**Divisional Forest Officer
Boudh Division**

COST BENEFIT RATIO OF THE PROJECT:

Benefit	...	...	...	...	...	Rs.298.047 lac
Loss	...	...	...	...	...	Rs. 11.490 lac
Ratio	...	...	...	...	...	1 : 26

**Divisional Forest Officer
Boudh Division**