

Cost Benefit Analysis Guidelines for forest land diversion-2017

Table-B Estimation of cost of forest diversion.

S. No	Parameters	VALUATION IN INR.
1	Ecosystem service losses due to proposed	Considering the Net present value of forest area to be diverted be 10.43 Lakh per Ha as per density in Eco class I Hence losses to Eco system: 10.43 Lakh X 13.43 ha = 140.07 Lakh
2	Loss of animal husbandry productivity, including loss of fodder	10.43 Lakh X 13.43 ha x 10% = 14.01 Lakh
3	Cost of human resettlement	There is no Human Resettlement involved in the project. Hence losses: NIL
4	Loss of public facilities and administrative infrastructure (roads, building, school, dispensaries, electric lines railways, etc.)on forest land if these facilities were diverted due to the project	There is no loss of public facility and administrative infrastructure due to this project. Hence losses : NIL
5	possession value of forest land diverted	Considering 30% of environmental costs (NPV) due to loss of forest. Hence losses: 10.43 Lakh X 13.43 ha X 30% = 42.02 Lakh
6	Cost of suffering to outers	There is no rehabilitation of people, hence no social losses. Losses: NIL
7	Habitant fragmentation Cost	No Habitant fragmentation will be at their construction of Transmission line. Hence losses : NIL
8	Compensatory a forestation and soil & moisture conservations cost	Considering 4 Lakh/Ha including CA and soil & Moisture conversation cost Hence Total Losses: 4 Lakh X 13.43 Ha. = 53.72 Lakh
9	Compensatory a forestation and soil & moisture conservation cost	Considering 50% of applicable NPV Total Losses: 4 Lakh X 13.43 Ha X 50% = 26.86 Lakh

Table-C -Existing guidelines for estimating of forest-diversion in CBA.

S.No.	Parameters	VALUATION IN INR.
1	Increase in productively attribute to the specific project	The total quantity and value of product carried by 18 inch pipeline:
		Average flow rate of gas through pipeline 1.5mmscmd (Million Metric Standard Cubic Meter per day) Average volume of gas likely to be delivered to consumer 1.5mmscmd Average value of Unit gas volume – Govt published 6 month tariff is (INR 7000/ 1000 scm) Average value added : gas sent out every year: 1.5 x 365 = 547.5 mmscm Value added: 547.5 mmscm x INR 7000/1000 scm = Rs. 38325 Lakh /Year
		Transportation of crude oil through 8 inch pipeline
		The total quantity and value of product carried by the 8 inch pipeline on an annual basis.

r		
		Quantity of Crude Oil transported to Digboi refinery: 0.65
		Million Ton per Annum (40,88,403 bbl)
		Value of product transported per annum @ INR 3680/bbl: INR
		150453 lakh/year
		Total quantity of and a ail & gas transported through 18
		Total quantity of crude oil & gas transported through 18 inch & 8 inch pipeline.
		INR 188778 lakh/year
2	Departite to accommy due to the specific	Same as above.
2	Benefits to economy due to the specific	Same as above.
-	project	
3	No of population benefited due to specific	Mainly the gas will be supplied to BCPL, other industries
	project	include NRL / AGPL / AGCL / APL / BVFCL / NEEP Co/
		Digboi Refinery
4	Economic benefits due to of direct and	The project requires an average of 100 man force for 12 months
	indirect employment due to the project	for 18 inch pipeline and 15 months for 8 inch pipeline with an
		average of 250 days/year
		Total 56,250 man day's for both the project
		50,000 man days per year X Rs. 272 per day labour charge =136
		Lakh/year
5	Economic benefits due to compensatory	Considering it to be equivalent to the NPV on the area to be
	forestation	diverted.
		Hence benefits:
		10.43 Lakh X 13.43 ha = 140.07 Lakh

Total loss of Environment Benefits of Economy Cost of Ratio

: 276.68 lakh

: 189,054.10 Lakh

: Total Loss to Environment: Benefits to economy

= 276.68: 189,054.10

= 1: 683.30

Date: 30.03.2021 Place Duliajan

OIL India Limited

(S Basumatary) Chief General Manager (HSE) 85 Nodal officer(EC,FC,NBWL)

For Resident Chief Executive

Nodal Officer (EC/FC/NBWL) OIL INDIA LIMITED