



फ्रंटियर बेसिन विभाग, ऑयल इंडिया लिमिटेड, दुलियाजान, असम - ७८६६०२

**Cost Benefit Analysis as per the latest Guideline dated 01.08.2017**

(Online Proposal Ref. No. FP/TR/MIN/145546/2021)  
 Diversion Area : 5.47 Ha (Loc. TULD)

**Estimation of cost of Forest Diversion**

Sl. No.	Parameters	VALUATION IN INR
1	Ecosystem services losses due to proposed forest diversion	Considering Eco-Class-I (Moderate Dense Forest), Net present value of forest area to be diverted Rs. 9,39,000/ha for 5.47 ha of forest land. $\text{Rs. 9,39,000 per Ha} \times 5.47 \text{ Ha} = \text{Rs. 51,36,330.00}$
2	Loss of animal husbandry productivity, including loss of fodder	Rs. 9,39,000 per Ha x 5.47 Ha x 10% = Rs. 5,13,633.00
3	Cost of human resettlement	There is no human resettlement involved in the project. Hence losses : <b>NIL</b>
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 : <b>NIL</b>
5	Possession value of forest land diverted.	30% of environmental costs (NPV) due to loss of forest. Losses: $\text{Rs. 9,39,000 per Ha} \times 5.47 \text{ Ha} \times 30\% = \text{Rs. 15,40,899.00}$
6	Cost of suffering to oustees	<b>NIL</b> There is no House/Habitat/Structure and hence NOT APPLICABLE.
7	Habitant Fragmentation Cost	<b>NIL</b>
8	Compensatory Afforestation and soil moisture conservations cost	Compensatory Afforestation cost of Rs 1,02,72,660 (Rs. 9,39,000 x 5.47 x 2) is inclusive of Soil & Moisture conservation cost.
9	Total :	<b>Rs. 1,74,63,522.00</b>

Table-C

**Existing Guideline for Estimating of Forest Diversion in CBA**

Sl. No.	Parameters	VALUATION IN INR
1	Increase in productivity attribute to the specific project	<p>The AA/ONDSF/TULAMARA/2018 PML block is completely a virgin area and needs oil/gas exploration within the Tripura Folded Belt. Several gasfields have been established in Gajalia and Baramura areas of ONGC in Tripura. The gas-in-place reserve has been estimated around 1760 MMCM.</p> <p>The estimated yearly value of the gas production is as follows:</p> <ul style="list-style-type: none"> <li>• Daily production 50000 SCM</li> <li>• Annual Production considering 300 days production = 15 MMSCM per year</li> <li>• Gas price has been considered as 1.79 \$/MMBTU during the whole period.</li> <li>• Total Yearly Value of the gas</li> <li>• = 15 MMSCM x 0.031746 mmbtu/ SCM x 1.79\$ = Rs. 6,39,28,571,94</li> </ul>
2	Benefits to economy due to the specific project	Same as above.
3	No. of population benefited due to specific project	There will be indirect generation of jobs for the local village during the site preparations as well as in drilling phase for peripheral jobs in unskilled category. There is also possibility of jobs being generated and growth of ancillary industries if hydrocarbon is commercially produced. However, the exact number of jobs going to be created in the project cannot be computed.
4	Economic benefits due to direct and indirect employment due to the project	There will be indirect generation of jobs for the local youths during the site preparations as well as drilling phase for peripheral jobs in unskilled category. There is also possibility of jobs being generated and growth of ancillary industries if hydrocarbon is commercially produced. However, the exact number of jobs going to be created in the project cannot be computed.
5	Economic benefits due to compensatory	CA for 5.47 (x 2) Ha degraded forest land = Rs.1,02,72,660.00

- Total Loss of Environment: Rs. 1,74,63,522.00
- Benefits of Economy/Year: Rs.7,42,01,231.94
- Cost Benefit Ratio; project Benefit/Forest Loss
- **1: 4.25**



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Date: 05.08.2021

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