

EVALUATION OF LOSS OF FORESTS

Loss of value of Timber, fuel wood and minor forest produce on an annual basis, includes loss of man-hour per annum of people who derived livelihood and wages from the harvest of these commodities.

Only one time loss of vegetation occurs during construction and there is no loss of man hours. Considering the NPV of 6.26 lakh per hectare the total loss of timber, fuel wood and minor forest produce for 6.217 ha of forest may be calculated as $6.217 \times 6.26 = 38.918$ lakh

EVALUATION OF BENEFITS-----

1. Increase in productively attributable in the project

- Increase in productivity attribute in the project for 50 years (To be quantified and expressed in monetary terms)
- To maintain project IRR at 10 % a onetime VGF will be provided, subject to maximum of **Rs. 102000 lakhs**.

2. Benefits to economy due to specific project.

It is assumed that there will be over all benefit to economy on account of Reduction in petroleum product price @ 1 % of the total project IRR will be = 1 % of Rs.102000 lakh = **Rs.102 Lakh**

3. No. of population benefitted due to specific project.

- There will be no direct recruitment for this project.
- Indirect employment may be generated through service providers engaged by NRL

Possible indirect employment may be considered as follows:

Sl. No.	Department	No. of Indirect employment (a)	No. of days in a year (b)	No. of persons /year {(a x b)/365}
1	Civil & Construction	20	180	10{i.e. 1800/365}
2	Pipeline	40	300	33{i.e. 12000/365}
3	Installation & Opera-			40
4	Security			200
Total				283

Please reply to :
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4. Economic benefits due to direct and indirect employment due to project.

a) Indirectly employed manpower in Installation & Operation has a cost of Rs. 180 lakh / year in terms of Salary. Therefore, for 50 years
= **Rs.9000** lakh (i.e. Rs.180 lakh X 50 years)

b) Cost of other indirectly employed manpower (Total 200 nos.) Unskilled/semi unskilled worker in terms of Salary and Wages @ Rs. 500/day (average) for 2 years = Rs 886.95 lakh (i.e., 243 X Rs 500 X 365 days X 2 years)

Total Cost (a+b) = Rs.9886.95 lakh.

5. Economic benefit due to Compensatory Afforestation.

The Compensatory Afforestation will be done in **6.217** ha. of degraded forest land, which is down the line would be having a density of minimum 0.8. The ecological value for a 50 years period of density of 1.0 is 126.74 lakh per hectare (As per Forest Conservation Act 1980). By considering minimum 0.8 density, the ecological gain for this project would be
= 126.74lakhX0.8X 6.217 = **Rs.630.354 Lakh**

Date:

Place: Paradip

(Indrajit Kaman)
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