

COST BENEFIT ANALYSIS

Project:- Proposal for diversion of 0.995242 ha. of forest land for construction of Approach road at Anandapur & Kalamchawra Mouja of Matinagar & Boxanagar Tehsil, under Sonamura Sub-Division, Sepahijala District, Tripura.

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

Sl. No	Parameters	Remarks
1	Ecosystem services losses due to proposed forest diversion	NPV of the forest land being diverted i.e. $UGF = 0.995242 \times \text{Rs. } 9.39 \text{ lac} = \text{Rs. } 9,34,532/- = \text{Rs. } 0.9,34532 \text{ Crores.}$
2	Loss on animal husbandry productivity including loss of fodder	Productivity of livestock will not be affected due to construction of approach road. 10 % of NPV Applicable i.e. $\text{Rs. } 93,453/- = \text{Rs. } 0.093453 \text{ Crores.}$
3	Cost of human resettlement	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 infrastructure (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.	Not applicable, since project is settlement of Bru migrant in uninhabited forest land.
5	Possession value of forest lands diverted.	30 % of NPV i.e. $\text{Rs. } 2,80,360/- = \text{Rs. } 0.0280360 \text{ Crores.}$
6	Cost of suffering of oustees.	Not applicable since there will be no displacement of people.
7	Habitation Fragmentation Cost	50 % of NPV Applicable as per thumb rule i.e. $\text{Rs. } 4,67,266/- = \text{Rs. } 0.0467266 \text{ Crores.}$
8	Compensatory Afforestation and Soil & Moisture Conservation Cost	CA cost $\text{Rs. } 4,25,212/- = \text{Rs. } 0.0425212 \text{ Crores.}$ Soil & Moisture Conservation Cost included in CA cost.
Total Loss (Against the proposed forest land diversion)		$\text{Rs. } 22,00,823/- = \text{Rs. } 0.2200823 \text{ Crores.}$


18/9/20
Sub-Divisional Magistrate,
Sonamura, Sepahijala, Tripura.



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).

Sl. No	Parameters	Remarks
1	Increase in productivity attributed to the specific project	Not applicable.
2	Benefit to economy due to the specific project.	Rs. 0.73 Crores.
3	No. of population benefited due to the specific project	Population of 1400 of Bru migrants in Tripura to be benefited due to the rehabilitation.
4	Economic benefit due to direct and indirect employment due to the project.	Rs. 1.2 Crores.
5	Economic benefits due to compensatory afforestation.	Rs. 6,06,657/- = Rs. 0.0606657 Crore.
Total		Rs.1.99 Crore.

Cost Benefit Ratio i.e., Project Benefit/Forest Loss = $(1.99/0.3140079)$ 6.34:1.

Hence the project has a high benefit to the country as compared to forest loss. The **benefit to loss ratio** is approximate 6.34 times.


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Details Employment Breakup

Temporary Employment During Construction and Maintenance

Type of employee	Nos. of Employee	Avg. Working days per year	Total working days.
Employment Potential- Construction			
Skilled Man power	60	30	1800
Semi-Skilled Man Power	130	30	3900
Technical Persons	2	30	60
Employment Potential- Maintenance			
Skilled Man power	12	10	120
Semi-Skilled Man Power	15	100	1500
Total Temporary Employment per year			7380

Sd/-
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