

परियोजना का विवरण:- प्रधानमंत्री ग्राम सड़क योजना के अंतर्गत नौइखाल माला से सिरासु मोटर मार्ग का निर्माण 13.0 KM

Table-B : Cost Benefit Analysis - Estimation of Cost of Forest Diversion

As per OEF & CC guideline No. 7-69/2011-fc(pt) Dated

S. No.	Parameters	Estimated Cost
1	Ecosystem services losses due to proposal forest diversion	The estimated NPV (economic value of loss of eco system services) of the Hac forest land is Rs. 41,78,958/- or Rs 41.789 Lacs
2	Loss of animal husbandry productivity, including I of fodder	10% if NPV =Rs.4,17,895.8 = Rs 4.17 Lacs
3	Cost of human settlement	No such case.
4	loss of public facilities and administrative infrastructure(Road, buildings, school dispensaries electric lines, railway etc.) on forest land or which would require forest land if these facilities were diverted due to the project.	No loss of Public Facilities and administrative infrastructure due to project.
5	Possession value of forests land diverted	30% of NPV =Rs.12,53,687.4 = Rs 12.53 Lacs
6	Cost of suffering of oustees	No suffering of oustees.
7	Habitat fragmentation cost	50% of NPV =Rs.20,89,479= Rs 20.89 Lacs
8	compensatory afforestation and soil and moisture conservation cost	The estimated Cost for raising the CA in 19.082 Hac. Is Rs. 4549634.12 = Rs 45.49 Lacs and maintainence for 10 years.
9	Total Environmental loss	Rs. 120.869 Lacs

Vikram
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Dy. Director
Rajaji Tiger Reserve
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Table C: Estimation of Benefits of Forest Diversion in CBA

S. No.	Parameters	Estimated Cost
1	Increase in productivity attributable to the specific project	Vegetables and fruits = 300 Qtl. Per year @ Rs 800.00 per Qtl. =300*800= 2,40,000.0 Benefits for 50 year:240000*50=Rs 120,00,000.0/- or Rs 120 lacs
2	Benefits of economy due to the specific project	Market development along the road taking 20 shops are to be estimated after construction of motor road. Taking minimum benefit per shop per day @Rs. 200 per day. Benefit per month 20*200*30= Rs 120000/-. Benefit of 20 shops for one year 120000*12= Rs. 1440000 = Rs 14.40 lacs benefit for 50 year= 14.40*50 = Rs.720.0 Lacs
3	No of population benefited due to the specific project	No such case.
4	Economic benefits due to direct and indirect employment due to project	Direct employment of labour benefit of annual maintenance of road taken 1 mate & beldar for one month per number Mate/beldar @Rs. 400 Per dayX 30 days= Rs. 12,000.0/- Benefit for one year=12000*12=Rs 144000= 1.44 lacs . Benefit for 50 years=1.44*50= Rs 72 Lacs
5	Economic benefits due to compensatory afforestation	Employment generation due to other activities like transport taking 20 people will get job per month @6000 per month Rs.1.20 lacs . Benefit for one year 12*1.20 = Rs 14.4 Lacs Benefit for 50 year= 14.4*50= Rs 720 Lacs
6	Total benefits derived from the Project	Benefits from such CA accruing over next 50 years 1.65*41.49= Rs 68.45 Lacs Rs.1700.459 Lacs

Benefit cost ratio = $1700.459 / 120.869 = 14.068$

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