

## Cost Benefit Analysis Guidelines for forest land diversion-2017

**Table-A : Cases under which a cost-benefit analysis for forest diversion are required**

**Name of the Project :- Const. of Deghat-Talli Narayan Mandir-Seramunani-Dharkot-Mallbhida-Malikhhet-Marchula Motor Road.( 18.500Km)**

Sl. No.	Nature of proposal	Applicable/ not applicable	Remarks
1	2		3
1	All categories of proposals involving forest land upto 20 hectares in plains and upto 5 hectare in hills	Applicable	This Proposal involving forest land 5.2731 ha in hills
2	Proposal for defence installation purposes and oil prospecting (prospecting only)	Not applicable	Proposal purpose road construction
3	Habitation, establishment of industrial units, tourist lodges complex and other building construction.	Not applicable	Road construction
4	All other proposal involving forestland more than 20 hectares in plains and more than 5 hectares in hills including roads, transmission lines, minor, medium and major irrigation projects, hydro projects, mining activity railway lines, location specific installations like micro-wave stations, auto repeater centres, TV towers etc.	Applicable	Proposal of road construction involving forest land 5.2731 ha in hills

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Table B : Estimation of cost of Forest Diversion

Name of the Project :- Const. of Deghat-Talli Narayan Mandir-Seramunani-Dharkot-Mallbhida-Malikhhet-Marchula

Sl. No.	Particulars	Remarks
1	2	3
1	Ecosystem services losses due to proposed forest diversion	34.64 Lakh (NPV)
2	Loss of animal husbandry productivity including loss of fodder	3.46 Lakh (10% of NPV)
3	Cost of human settlement	There is no human settlement
4	Loss of public facilities and administrative infrastructure (Roads, 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.	There is no loss of public facilities and administrative infrastructure (Roads, buildings, School dispensaries, Electric lines, Railway etc.) on forest land, due to this project.
5	Possession value of forests land diverted	10.39 Lakh (30% of NPV)
6	Cost of Suffering to outtees	No outtees are suffering due to this project
7	Habitat fragmentation cost	17.32 Lakh (50% of NPV)
8	Compensatory afforestation and soil & moisture conservation cost	29.40 Lakh The actual cost of C.A. & its maintenance in future at present discounted unites
Total Environmental Loss		95.21 Lakh

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**Table C : Estimation of Cost of Forests Diversion**  
Name of the Project :-

Sl. No.	Particulars	Remarks
1	2	3
1	Increase in productivity attributable to the specific project	Vegetables and fruits 300 Qtis @ 2000.00=Rs 600000.00 For 50 years 600000*50= Rs 30000000.00 i.e. Rs 300.00 Lakhs
2	Benefits to economy due to the specific project	Project will enhance the agricultural, Commercial and tourism activities approx 2 times of productivity i.e. 300X2= 600.00 Lakh Rs. 600.00 Lakh
3	No. of Population benefited due to the specific project	1547 (11 Villages)
4	Economic benefits due to direct and indirect employment due the project	Market Development Assuming 15 shops * benefit per day Rs. 300.00, Benefits for 15 shops per month 15X300X30= 135000.00 Benefit for 1 year 135000X12 = 1620000.00 Benefit for 50 year 1620000X50 = 81000000.00 (810.00 Lakh) Benefit for annual maintenance of road 10 labour for 1 Month @ Rs. 6000.00 = 60000.00 for 1 yrs @ Rs. 60000X12= 720000.00 for 50 year @ Rs. 720000X50= 36000000.00 (360.00 Lakh)
5	Economic benefits due to compensatory afforestation	Afforestation 100.00 Lakh
Total Benefits derived from the project		Rs. 2170.00 Lakh

Benefit Cost Ratio = Rs. 2170.00/95.21 = 22.79:1

It is clear from above analysis that Const. of Deghat-Talli Narayan Mandir-Seramunani-Dharkot-Mallbhida-Malikhhet-Marchula Motor Road is more beneficial than Enviromental losses.

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