

**Table C: Estimaiton of cost of Forests Diversion.**

Sl.no.	Parameters	Estimated Cost
1	Increase in productivity attributable to the specific project.	Saving in cartage of material by Vehicle instead of head load Rs. 1000 per person / per Year $(244 \times 1000)/100000 = \text{Rs. } 2.44 \text{ Lac.}$ Saving in 100 Year = Rs. 244.00 Lac.
2	Benefits to economy due to the specific project	Agricultural production @ 4000 per person / Per Year $(244 \times 4000)/100000 = \text{Rs. } 9.76 \text{ Lac.}$ cost of Agriculture Production for 100 year = Rs. 976.00 Lac.
3	No. of population benefited due to specific project	About 244 people will be benefited directly from this construction.
4	Economic benefits due to of direct and indirect employment due to the project.	Employment 20% population will get employed for 200 days @ 400 per day $(0.20 \times 244 \times 200 \times 400) = \text{Rs. } 39.04 \text{ Lac}$
5	Economic benefits due to Compensatory afforestation	30% of NPV = 19.99 lac considering discounting rate 4% for future 100 years the present value For One Year Rs. 19.99 x 4% = 0.7996 Lac For 100 Year Rs. 0.7996 x 100 = Rs.79.96Lac
6	Total Benefits derived from the Project	Rs 1339.00

Benefit Cost Ratio = Rs 1339 Lac / Rs.193.50 Lac = 6.92:1

It is clear from above analysis that construction of above project is more beneficial than Environmental losses.

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**COST BENEFIT ANALYSIS**

(As per MoEF &amp; CC guideline No. 7-69/2011-FC (PL) dated 18 August, 2017)

NAME OF PROJECT:- Construction of Kuling - Didina motor road.

Table B: Estimaiton of cost of Forests Diversion.

SL.NO	Parameters	Estimated cost
1	Ecosystem services losses due to proposed forest diversion	The estimated NPV (Economic value of loss of ecosystem services) of the 6.459 Ha. forest land is Rs. 63.62 Lac
2	Loss of animals husbandry productivity including loss of fodder	10% of NPV = 6.36 Lac
3	Cost of human resettlement	There is no displacement due to the project. Therefore the cost of human settlement is Rs. 0.00
4	Loss of public facilities and administrative infrastructure (Roads, Buildings, Schools, Dispensaries, Electric lines, Railways etc.) on which would require forest land if these facilities were diverted due to the project.	No loss of public facilities and administrative infrastructure due to the project. Therefore loss is Rs. 0.00
5	Possession value of forest land diverted	30% of NPV = 19.99 lac
6	Cost of Suffering to oustees	No suffering of oustees. Therefore the cost of suffering to oustees is Rs. 0.00
7	Habitat Fragmentation cost	50% of the NPV = Rs. 33.31 Lac
8	Compensatory afforestation and soil & moisture conservation cost.	The estimated cost of raising the CA in 12.92 Ha is Rs. 22.61 Lac for 10 Years. Considering discounting rate 12% for future 100 years, the present value is Rs. 70.22 Lac
9	Total Environmental Loss	Rs. 193.50 Lac

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