

परियोजना का विवरण :- प्रधानमंत्री ग्राम सड़क योजना के अन्तर्गत जनपद अल्मोड़ा में चिलियाना चिना से सैलाकोट-काने-शिगाड़-मेहरगांव मोटर मार्ग का निर्माण।

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 = 450 Qtl. Per year @ Rs. 1000.00 per Qtl. = 450x1000= 450000.00 Benefits for 50 year :- 450000x50= Rs. 2,25,00,000.00 or 225.00 Lacs
2	Benefits to econocy due to the specific project	Market development - taking 15 shops are established after construction of road taking minimum benefit per shop per day Rs. 250/- for 13 shops per year 13x30x250x12=Rs.11,70,000.00 or 11.70 Lacs Benefit for 50 years :- 1170000.00x50 = Rs. 5,85,00,000.00 or Rs. 585.00 Lacs
3	no of population benefited due to the specific project	There is no displacement due to the project, therefore, the cost of human settlement is Rs. 0.00
4	Economic benefits due to direct and indirect employment due to project	Employment generation due to other activies like transportation, market development etc. take 10 people get per month @ Rs. 5000 per month. Benefit for 50 years;- 10x5000x12x50 = Rs. 3,00,00,000.00 or Rs. 300.00 lacs Tourism :- Employment growth due to tourism activities = 100000.00 per year man if 10 people get employment. Benefit for 50 Year :- 100000x10x50 = rs. 50000000.00 or 500.00 lacs
5	Economic benefits due to compnstory afforstation	Economic value as per guideline of ministry i.e 50% Timber @ 1/2x32170x21.574x50 =17350889.50 50% Fuel wood @ 1/2x3385x21.574x50 = 1825699.75 Total Rs. 19176589.25 or 191.77 lacs
6	Total Benefits derived from the Project	1801.77 lacs

20/01/2020
अविशाली अभियन्ता
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Length - 15.50 Km

Table-A: Cost Benefit Analysis

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

S. No	Parameters	Estimated Cost (Rs. In Lacs)
A.	Cost of Forest Diversion	
1	Ecosystem services losses due to proposed forest diversion (as per Table-B)	58.87
2	Loss of animal husbandry productivity, including 1 of fodder(as per Table-B)	5.88
3	Cost of human settlement(as per Table-B)	NIL
4	Loss of public facilities and administrative infrastructure (Road, building, school dispensanries electrick lines, railway etc.) on forest land or which would require forest land if these facilities were diverted due to the project (as per Table-B).	27.35
5	Possession value of forests land diverted (as per Table-B)	17.66
6	Cost of suffering of oustees	NIL
7	Habitat fragmentation cost	29.43
8	Compensatory Afforestation and soil and moisture conservation cost	49.94
	Total Cost of Forest Diversion	189.13
B.	Cost of Benefits of Forest Diversion	
1	Increase in productivity attributable to the specific project (as per Table-C)	225.00
2	Benefits to econocy due to the specific project (as per Table-C)	585.00
3	Economic benefits due to direct and indirect employment due to project (as per Table-C)	800.00
4	Economic benefits due to compnstory afforstation (as per Table-C)	191.77
	Total Benefits derived from the Project	1801.77

Benefit Cost Ratio = 1801.77 / 189.13

9.53

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Length - 15.50 Km

Table-B: Estimation of cost of Forest Diversion

S. 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 8.96 ha forest land is Rs. 58,86,720/- or Rs. 58.87 Lacs
2	Loss of animal husbandry productivity, including 1 of fodder	10% of NPV i.e. Rs. 58.87 Lacs = Rs. 5.88 Lacs
3	Cost of Human Settlement	NIL
4	Loss of public facilities and administrative infrastructure (Road, building, school dispensaries electric lines, railway etc.) on forest land or which would require forest land if these facilities were diverted due to the project.	Rs. 27,34,977/- or Rs. 27.35 Lacs (Utility Shifting & Reconstruction Cost as per D.P.R.)
5	Possession value of forests land diverted	30 % of NPV = Rs. 17,66,016 or Rs. 17.66 Lacs
6	Cost of suffering of oustees	NIL
7	Habitat fragmentation cost	50 % of NPV = Rs. 29,43,360 or Rs. 29.43 Lacs
8	Compensatory Afforestation and soil and moisture conservation cost	The estimated cost for raising the CA in 17.92 ha is Rs. 49,93,693/- or Rs. 49.94 Lacs for 10 years
9	Total Environmental Loss	Rs. 189.13 Lacs

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