

परियोजना का विवरण :- प्रधानमंत्री ग्राम सड़क योजना के अन्तर्गत जनपद पौड़ी में
गढ़वाल नौइखाल माला से कोटा मोटर मार्ग का निर्माण।

Length - 12.05 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)	326.9
2	Loss of animal husbandry productivity, including 1 of fodder(as per Table-B)	32.6
3	Cost of human settlement(as per Table-B)	NIL
4	Loss of public facilities and adminitrative 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).	26.25
5	Possession value of forests land diverted (as per Table-B)	98
6	Cost of suffering of oustees	NIL
7	Habitat fragmentation cost	163.4
8	Compensatory Afforestation and soil and moisture conservation cost	45.76
	Total Cost of Forest Diversion	692.91
B.	Cost of Benefits of Forest Diversion	
1	Increase in productivity attributable to the specific project (as per Table-C)	250.00
2	Benefits to econocy due to the specific project (as per Table-C)	1080.00
3	Economic benefits due to direct and indirect employment due to project (as per Table-C)	860.00
4	Economic benefits due to compnstory afforstation (as per Table-C)	1580.00
5	Economic benefits due to compnstory afforstation	53.93
	Total Benefits derived from the Project	3823.93

Benefit Cost Ratio = 3823.93 / 692.91

5.52

Therefore construction of economically viable and social benefits = 1: 5.52

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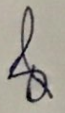
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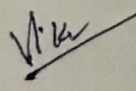
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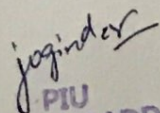
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Table C : Estimation of Benefits of Forest Diversion in CBA

S. No	Parameters	Estimated Cost
1	Increase in productivity attributable to the specific project	Vegetables and fruits = 500 Qtl. Per year @ Rs. 1000.00 per Qtl. = $500 \times 1000 = 500000.00$ Benefits for 50 year ; - $500000 \times 50 = \text{Rs. } 25000000.00$ or 250.00 Lacs
2	Benefits to econocy due to the specific project	Market development - taking 20 shops are established after construction of road taking minimum benefit per shop per day Rs. 300/- for 20 shops per year $20 \times 30 \times 300 \times 12 = \text{Rs. } 2160000.00$ or 21.60 Lacs Benefit for 50 years ; - $2160000 \times 50 = \text{Rs. } 1080.00 \text{ Lacs}$
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 30 people get per month @ Rs. 6000 per month. Benefit for 50 years;- $30 \times 6000 \times 12 \times 50 = \text{Rs. } 1080.00 \text{ lacs}$
		Tourism ; - Employment growth due to tourism activities = 100000.00 per year man if 10 people get employment. Benefit for 50 Year ; - $100000 \times 10 \times 50 = \text{rs. } 50000000.00$ or 500.00 lacs
5	Economic benefits due to compnstory afforstation	Benefits from such CA assuring over next 50 years $1.65 \times 32.69 = 53.93 \text{ lacs}$
6	Total Benefits derived from the Project	3823.93 lacs


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Length - 12.05 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 7.465 ha forest land is Rs. 32696700/- or Rs. 326.9 Lacs
2	Loss of animal husbandry productivity, including 1 of fodder	10% of NPV i.e. Rs. 3269670 Lacs = Rs. 32.6 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. 26,24,914 or Rs. 26.25 Lacs (Utility Shifting & Reconstruction Cost as per D.P.R.)
5	Possession value of forests land diverted	30 % of NPV = Rs. 9809010 or Rs. 98.0 Lacs
6	Cost of suffering of oustees	NIL
7	Habitat fragmentation cost	50 % of NPV = Rs. 16348350 or Rs. 163.4 Lacs
8	Compensatory Afforestation and soil and moisture conservation cost	The estimated cost for raising the CA in 14.93 ha is Rs. 4576508.00 or Rs. 45.76 Lacs for 10 years
9	Total Environmental Loss	Rs.692.91 Lacs

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