

प्रारूप-29

परियोजना का नाम:- प्रधानमंत्री ग्राम सड़क योजना के अन्तर्गत जनपद उत्तरकाशी में कोटगांव से
कलाप मोटर मार्ग का निर्माण। (लम्बाई:- 15.00 कि.मी.)

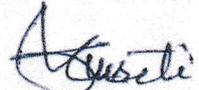
Table-A: Cost Benefit Analysis

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)	93.92
2.	Loss of animal husbandry productivity, including 1 of fodder (as per Table-B)	9.39
3.	Cost of human settlement (as per Table-B)	Nil
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 (as per Table-B)	21.29
5.	Possession value of forests land diverted (as per Table-B)	28.18
6.	Cost of suffering of ousters	Nil
7.	Habitat fragmentation cost	46.96
8.	Compensatory Afforestation and soil and moisture conservation cost	74.95
	Total Cost of forest Diversion	274.69
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 economy due to the specific project (as per Table-C)	675.00
3.	Economic benefits due to direct and indirect employment due to project (as per Table-C)	860.00
4.	Economic benefits due to compensatory afforestation (as per Table-C)	191.77
	Total Benefits derived from the Project	1976.77

Benefit Cost Ratio = 1976.77/274.69

7.19


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प्रारूप-29.1

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Table-B: Estimation of Cost of Forest Diversion

S.No.	Parameters	Estimated Cost
1	Ecosystem services losses due to proposed forest diversion (as per Table-B)	The estimated NPV (economic value of loss of eco system services) of the 11.115 hect. Forest land is Rs. 93,92,175/- or Rs. 93.92 Lacs
2	Loss of animal husbandry productivity, including 1 of fodder (as per Table-B)	10% of NPV i.e. Rs. 93.92 Lacs = 9.39 Lacs
3	Cost of human settlement (as per Table-B)	NIL
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 (as per Table-B)	Rs. 21,28,936/- or Rs.21.29 Lacs (Utility shifting & Reconstruction Cost as per D.P.R.)
5	Possession value of forests land diverted (as per Table-B)	30% of NPV = 28,17,652.5 or 28.18 Lacs
6	Cost of suffering of ousters	NIL
7	Habitat fragmentation cost	50% of NPV = 46,96,087.5 or 46.96 Lacs
8	Compensatory Afforestation and soil and moisture conservation cost	The estimated cost for raising the CA in 22.23 ha is RS. 7495600.32/- or Rs. 74.95 Lacs
9	Total Environmental Loss	Rs. 274.69 Lacs

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परियोजना का विवरण :- प्रधानमंत्री ग्राम सड़क योजना के अन्तर्गत जनपद उत्तरकाशी में कोटगांव से कलाब 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 = 500 Qtl. Per year @ Rs. 1000.00 per Qtl. =500x1000= 500000.00 Benefits for 50 year ; - 500000x50= Rs. 2,50,00,000 or 250.00 Lacs
2	Benefits to econocy due to the specific project	Market development - taking 10 shops are established after construction of road taking minimum benefit per shop per day Rs. 250/- for 15 shops per year 15x30x250x12=Rs.13,50,000 Benefit for 50 years ; - 1350000x50 = Rs. 6,75,00,000 or Rs. 675.00 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. 6000 per month. Benefit for 50 years;- 10x6000x12x50 = Rs. 3,60,00,000 or Rs. 360.00 lacs
		Tourism ;- Employment growth due to tourism activities = 100000.00 per year man if 10 people get employment. Benefit for 50 Year ;- 100000x10x50 = rs. 5,00,00,000.00 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	1976.77

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