

परियोजना का नाम :-

चार धाम परियोजना के अन्तर्गत टनकपुर
पिथौरागढ़ राष्ट्रीय राज मार्ग सं० 125 (नया 09)
के चम्पावत बाईपास मोटर मार्ग का निर्माण।

COST-BENEFIT ANALYSIS
Details of Cost Benefit Ratio

District: CHAMPAVAT

Sl. No.	Particulars	Amount (Rs. In Lakh)	Remark
1	Total Cost (Investment Incurred)		
(A)	Construction Cost of Project	14485.968	
(B)	N.P.V. Amount to be deposited @ 6.57 lakh/Hactare 8.940 x 6.57 = 58.73 lakh	58.73	
(C)	Other Substitute/Alternation Plantation Cost to be deposited:- 8.940X2= 17.880@230302= 41.18 lakh. Cost of Timber :- 62.82111 lakh Lease for land :- 25.85 lakh Environmental loss:- 609.00 lakh	738.85	
	Total	15282.58	
2	Benefits:- Benefits for 10 km (Taking Age of Road As 30 Years)	30 Yrs	
(A)	Economics Benefits- savings in travel time and Vehicle operating cost for 50 years	8125.6	
(B)	Direct Employment of Labours (Temporary) - About 100 labours @ Rs. 146000 for 12 months will get employment and 25 labours @ Rs. 7154000 for 49 years will get employment during Operation & maintenance (Temporaray) .	193.45	सहायक अभियन्ता राष्ट्रीय मार्ग खण्ड लो० नि० वि० लोहाघाट
(C)	Direct Economics Benefits-Market Development at Bypass taking 02 shops per year after construction of above bypass.Taking minimum benefit per shop per day @ 150.00, total benefit for 50 years= (2x50x12x30x150)/2	27.00	अधिशाली अभियन्ता राष्ट्रीय मार्ग खण्ड लो० नि० वि० लोहाघाट
	Total	8346.05	
	Cost/Benifit = 15255.138/8346.05	1.83	

वन क्षेत्राधिकारी
चम्पावत वन क्षेत्र

प्रभागीय वनाधिकारी
चम्पावत वन प्रभाग, चम्पावत

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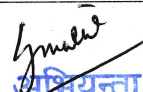
COST-BENEFIT ANALYSIS


Table (B)

Estimation of cost of forest diversion


Sl. No.	Parameters	Roads, Tr. Lines & Railway Line
1	2	3
1	Ecosystem services losses due to proposed forest diversion.	58.60 Lakh
2	Loss of Animals husbandry productivity including loss of fodder	(0.1X58.60)= 5.86 Lakh Total = 5.86 Lakh
3	Cost of human resettlement	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 is taking place and no administrative infrastructure (roads, buildings, school, dispensaries, electric line, railway etc.) will be diverted or destroyed.
5	Possession value of forest land diverted	(0.3x58.73)= 17.62 lakh Total =17.62 lakh
6	Cost of Suffering to oustees	0.00
7.	Habitat fragmentation Cost	(0.5x58.73)= 29.37 lakh Total =29.30 lakh
8	Compensatory afforestation and soil & moisture Conservation cost	41.18+62.82= 104.00 lakh.


सहायक अभियन्ता
राष्ट्रीय मार्ग खण्ड लो० नि० वि०
लोहाघाट


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लोहाघाट


वन विभागाध्यक्ष
चम्पावत वन क्षेत्र


वन विभागाध्यक्ष
चम्पावत


प्रभागीय वनाधिकारी
चम्पावत वन प्रभाग, चम्पावत

COST-BENEFIT ANALYSIS

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Table (C)

Existing guidelines for estimating benefits of forest diversion.

Sl. No.	Parameters	Roads, Tr. Lines & Railway Line
1	2	3
1	Increase in productivity attributable to the project	Mobility is difficult and time taking in mountainous Region. The construction of Bypass road from khunabora to Raikot Mahar will thus save time and fuel and people energy. Saving of time and fuel itself shall help indirectly in increasing the productivity of the commercial and industrial activities for
2	Benefits to economy to the project	<p>The main objective of this project is to alleviate the Current unsafe condition of the highway and provide better quality and safe transport to the users by costruction of bypass will minimize the chances of accidents and reduces travel time..</p> <p>Market Development at Bypass taking 02 shops per year after construction of above bypass.Taking minimum benefit per shop per day @ 150.00, total benefit for 50 years=$(2 \times 50 \times 12 \times 30 \times 150) / 2 = 27.00$ lac</p> <p>With saving travel time the vehicle operating cost per Km is 812.56 lakh for taking Road age</p>
3	No. of population benefited due to project	Entire population along the NH-09 old 125 Champawat District(10,000) shall be benefitted from the project.In addition, the project will boost the economic growth of the Region and State as well by boosting through religious tourism.
4	Employment potential due to direct and indirect Employment due to project	Approximate 146000 man days of temporary employment will be generated for the construction period of 12 months. That will cost approximate Rs. 14.60 lakh. Approximately 25 skilled manpower will also be required for whole Operation & maintenance period, which will cost about Rs. 178.85 lakh Total employment potential will cost approximately Rs. 193.45 lakh.
5	Economic benefit due to Compensatory afforestation	The amount of Rs. 75.62 lakh deposit to forest department for compensatory afforestation. There will be various employment generate for execution as well as maintenance of this CA work.

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प्रयोक्ता एजेन्सी

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