

COST BENEFIT ANALYSIS

(As per MoEF & CC guidelines no 7-69/2011 FC (Pt) dated 1st August, 2017)

Table B : Estimation of cost of forests Diversion

Name of the project :- जनपद चम्पावत में प्रधानमंत्री ग्राम सड़क योजना के अन्तर्गत प्रस्तावित चमदेवल से निडिल मोटर मार्ग (लम्बाई 11.1250 कि०मी०) के नव निर्माण हेतु वनभूमि का हस्तान्तरण प्रस्ताव।

Block :- Lohaghat

District :- Champawat.

Road Length :- 11.125 Km.

Forest Land :- 5.540 Ha.

Nap Land :- 4.4325 Ha.

Population :- 1202

S. No.	Particulars	Amount in Lakhs Remark
1	ecosystem service losses due to proposed forest diversion.	The estimated NPV (Economic value of loss of ecosystem services) of the 5.540 ha. forest land is ₹ 46.81 Lakhs.
2	loss of animal husbandry productivity, including loss of fodder.	10% NPV = ₹ 4.68 lakhs.
3	cost of human settlement.	There is no displacement due to the project. Therefore the cost of human settlement is ₹ Nil.
4	Loss of public facilities and administration infrastructure (Roads, Building, School, Dispensaries, Electric lines, Railways etc.) on forest land, or which would require forest land if these facilities were diverted due to the project	No loss of public facilities and administration infrastructure due to the project. Therefore loss is ₹ Nil.
5	Possession value of forests land diverted	30% of NPV = ₹ 14.04 lakhs.
6	Cost of suffering to oustees.	No suffering of oustees. Therefore the cost of suffering to oustees is ₹ Nil.
7	Habitat fragmentation cost.	50% of the NPV = ₹ 23.41 Lakhs.
8	Compensatory afforestation and soil and moisture conservation cost.	The estimated cost of raising the CA in 11.08 ha. is ₹ 21.11 Lakhs for 10 years considering discounting rate 12% for future 50 years, the present value is ₹ 37.20 Lakhs.
Total Environmental Loss		₹ 126.14 Lakh.

(Signature)

सहायक अभियन्ता
सिंचाई खण्ड, लोहाघाट
चम्पावत

अधिशाली अभियन्ता प्रभागीय वन अधिकारी
सिंचाई खण्ड (लोहाघाट) चम्पावत वन प्रभाग चम्पावत

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Block :- Lohaghat

District :- Champawat.

Road Length :- 11.125 Km.

Forest Land :- 5.54 Ha.

Non Forest Land :- 4.4325 Ha.

Population :- 1202

S. No.	Particulars	Estimated cost
1	Increase in productivity attributable to the specific project.	Vegetable and fruits = 200 Qtl @ ₹ 1500/- = ₹ 300000.00 for 50 years 300000.00x50 = ₹ 150.00 Lakh.
2	Benefits to economy due to the specific project	About 1.20 Lakhs due to milk production, vegetable, fruits, tourism and other mining mineral materials per amount for 50 years 1.20 x 50 = ₹ 62.00 Lakh
3	No. of population benefited due to the specific project.	1202
4	Economic benefits due to direct and indirect employment due to the project.	Direct employment of labour - Benefits for annual maintenance of the road take 15 Beldar for maintenance of road for one month @ ₹ 6000.00 Benefits for Beldar = ₹ 6000.00 x 15 = ₹ 90000.00 Benefits for 1 year = ₹ 90000.00 x 12 = ₹ 1080000.00 Benefits for 50 year = ₹ 1080000.00 x 50 = ₹ 54000000.00 Market development taking 20 Shops are to be established after construction of motor road. Taking minimum benefit per shop per day @ ₹ 250 per day benefit for per Month 20 X 30 X 250 = ₹ 150000.00 Benefit of 20 shops for year = 12 x 150000.00 = ₹ 1800000.00 Benefit for 50 years = 50 x 1800000.00 = ₹ 90000000.00
5	Economic benefits due to compensatory afforestation.	The annual value of timber and fuel wood, carbon, eco-tourism, fodder and watershed services from CA is approx ₹ 0.70 Lakh per annum for 50 year = ₹ 0.70 x 50 = ₹ 35.00 Lakh.
Total benefits diverted from the project		₹ 1687.00 Lakh.

(Signature)

सहायक अभियन्ता
सिंचाई खण्ड, सोनभित्त
चम्पावत।

अधिसारी अभियन्ता
सिंचाई खण्ड (लो०नि०वि०)
चम्पावत.

प्रभागीय वन अधिकारी
चम्पावत वन प्रभाग चम्पावत