

COST BENEFIT ANALYSIS

(87)

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

Table B: Estimation of Cost of forests Diversion

Name of the project:- जनपद उत्तरकाशी में प्रधानमंत्री ग्राम सड़क योजना के अन्तर्गत प्रस्तावित, सौरा सारी सिल्ला से पिलंग मोटर मार्ग (लम्बाई 8.50 किमी0) के नव निर्माण हेतु हस्तान्तररण प्रस्ताव।

Block : BHATWARI
Road Length : 8.500 km.
Forest Land : 6.740 ha
Nap Land : .450 ha
Population : 267

District :- UTTARKASHI

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 300000.00 x 50- ₹ 150.00 Lakh
2	Benefits to economy due to the specific project	About 1.00 Lacs due to milk production Vegetable, fruits, tourism and other mining mineral materials per amount for 50 Years 1.00 x 50 = ₹ 50.00 Lakh
3	No of Population benefited due to the Specific project	267
4	Economic benefits due to direct and in direct employment due the project.	Direct employment of labor – Benefits for annual maintenance of the road taks 15 Beldar for Maintenance for road for one month @ ₹ 6000.00 Benefits for 15 Beldar = ₹ 6000.00 x 15 = ₹ 90000.00 Benefits for I year = ₹ 9000.00 x 12 = ₹ 1080000.00 Benefits for 50 year = ₹ 1080000.00 x 50 = ₹ 54000000.00 Market development taking 15 Shop are to be established after construction of motor road. Taking minimum benefit per shop per day @ ₹ 250.00 per day Benefits for per month 15 x 30 x 250 = ₹ 112500.00 Benefits for 50 shop for I year= 12 x 112500.00 = ₹ 1350000.00 Benefits for 50 year = ₹ 50 x 1350000 = ₹ 67500000.00
5	Economic benefits due to compensatory afforestation	The annual of tunber and fuel wood, carbon, cco- tourism. Fodder and watershed services form CA is appro x ₹ 0.50 lakh per annum for 50 years = 0.50 x 50 = 0.25 lakh
8	Compensatory aforestation and soil & moistuer conservation cost.	The estimated cost for rasing the CA in 13.48 ha is 37.56 lacks for 10 years conasidering discounting rate 12 % for tha 50 years the present value is 66.19lakh
Total Benefits derived from the project		1415.25 Lakh

Benefit Cost Ratio = 1415.25/174.41 = 8.11

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S.NO	Particulars	Amount in lakhs Remark
1	Ecosystem services losses sue to proposed forest diversion,	The estimated NPV (Economic value of loss of Ecosystem services of the 6.740 ha land is 56.95
2	Loss of animal husbandry productivity, including loss of folder	10 % of NPV 5.7 lakh
3	Cost of human Settlement	There is displacement due to the project, Therefore the cost of human Settlement is Nil
4	Loss of public facilities and administrative infrastructure (Roads, Buildings, School dispensaries, electric lines, railway rct) on Forest land, or which wold require forest land if these facilites were diverted due to the project	No loss of pulbic facilities and administrative due the project therefore loss is Nil
5	Possession value of forest land diverted	30% of NPV 17.09
6	Cost of Suffering to ousters	No Suffering of oustees Therefore the cost of Suffering to oustees Nil
7	Habitat Fragmentation Cost	50% of NPV 28.48Lakh
8	Compensatory afforestation and soil & moisture conservation cost.	The estimated cost for rasing the CA in 13.48 ha is 37.56 lacks for 10 years conasidering discounting rate 12 % for tha 50 years the present value is 66.19lakh
Total Environmental Loss		174.41 lakh



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