

COST BENEFIT ANALYSIS

(As Per Moef Guideline No 7-69/2011-FC(Pt.) Dated 1st August, 2017)

Table B: Estimation of Cost of Forest Diversion

Name of the Project :- प्रधानमंत्री ग्राम सड़क योजना के अन्तर्गत सौरा-सारी-सिल्ला से पिलंग मोटर मार्ग (8.50किमी0) के निर्माण हेतु वन भूमि हस्तान्तरण प्रस्ताव कुल वन भूमि 6.740 है0।

Block : BHATWARI

District :UTTARKASHI

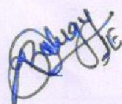
Road Length : 8.500 ha.

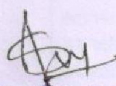
Forest Land : 6.740 ha.

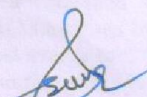
Nap Land : 0.450 ha.

Population : 267

S.N.	Parameters	Estimated Cost
1	Ecosystem services losses due to proposed forest diversion.	The estimated NPV (Economic value of loss of ecosystem services) of the 6.740 ha forest land is Rs. 56.95 Lakh
2	Loss of animal husbandry productivity, including loss of fodder.	10% of NPV =Rs. 5.695 Lakh
3	Cost of human settlement.	There is no displacement due to the project. Therefore, the cost of human settlement is Rs. 0.00
4	Loss of public facilities and administrative infrastructure (Roads, buildings, School dispensaries, electric lines, railway act) on Forest land of which would require forest land if these faculties were diverted due to the project.	N0 loss of public facilities and administrative infrastructure due to the project. Therefore loss is Rs. 0.00
5	Possession value of forest land diverted	30 % if NPV = Rs. 17.085 Lakhs
6	Cost of Suffering to oustees.	N0 Suffering of oustees. Therefore the cost of suffering to oustees is Rs. 0.00
7	Habitat Fragmentation cost	50% of the NPV =28.475 Lakhs
8	Compensatory afforestation and soil & moisture conservation Cost.	The estimated cost for raising the CA in 13.480 ha is Rs. 45.45 Lakhs for 10 years. Considering discounting rate 12% for Future 50 years, the present value is Rs. 79.99 lakhs
Total Environmental Loss		Rs. 188.195 lakhs


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उत्तरकाशी


सहायक अभियन्ता प०
पौरोहिताजी०एस०वाई०सि०का०
उत्तरकाशी


अधिकासी अभियन्ता
पौरोहिताजी०एस०वाई०सि०का०
उत्तरकाशी

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Table C: Estimation of Cost of Forest Diversion

Name of the Project :-

Block : BHATWARI

District :UTTARKASHI

Road Length : 8.500 ha

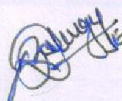
Forest Land : 6.740 ha


Nap Land : 0.450 ha.

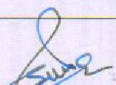
Population : 267

S.N.	Parameters	Estimated Cost
1	Increase in productivity attributable to the specific Project.	By the construction of this motor road cash crops such as oranges, pulses, potato, green vegetables. 220 qtl@1500=Rs. 330000. For 50 years= 330000*50=165.00 lacs
2	Benefits to economy due to the specific project.	About Rs. 50.00 lacs due to milk production, animal-husbandry and tourism works.
3	N0 of population benefited due to the specific project.	267 All People will be benefitted directly from the construction of the project.
4	Economic benefits due to direct and indirect employment due the project.	Direct Employment of labours: Benefits for Annual Maintenance road taking 30 beldar for maintenance of the road for one month @Rs. 6000.00 Benefit of 30 beldar=6000.00*30=180000.00 per month for 1 year= 180000.00*12=Rs 2160000.00 For 50 years= 2160000.00 *50 =Rs 10800000.00*50 After the road construction people will establish shops for daily livelihood. Taking 10 Shops are established after Construction with minimum benefit of 180*10*30=54000.00 Rs for 1 year=54000.00*12 Rs 648000.00 For 50 years = 648000.00*50= Rs 324.00 Lacs Direct Employment in construction =Rs 120 lacs Employment generation due to transportation =Rs 240.00 lac
5	Economic benefits due to Compensatory afforestation	The annual value of timber and fuel-wood, carbon,NTFP, eco-tourism, fodder and watershed services from CA is Rs. 47292/annum(As assessed by kanchan Chopra Committee- weighted averge for himachal Pradesh) considering discounting rate 4% for Future 50 years, the Present Value =Rs. 0.50x50=0.25 lakhs
Total Environmental Loss		Rs. 455.25 lakhs

Benefit Cost Ratio :-455.25/188.195=2.42




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