

**Cost benefit ratio**


कार्य का नाम :- जनपद उत्तरकाशी में प्रधानमंत्री ग्राम सड़क योजना के अन्तर्गत प्रस्तावित नौगांव-पुरोला मोटर मार्ग के किमी० 2.00 से थली मोटर मार्ग के नव निर्माण हेतु वन भूमि हस्तान्तरण प्रस्ताव।


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**Table -A**


Sr. No.	Particulars	Amount (Lacs)
<b>Cost of forest diversion</b>		
1	Eco system services losses due to proposed forest diversion. (As per table B)	98.64
2	Loss of nimal husbandry productivity including loss of fodder. (As per B)	9.86
3	Cost of human resettlement. (As per table B)	Nil
4	Loss of public facilities and administrative infrastructure (Roads, Buildings, Schools, Dispensaries, Elecric lines, Railways etc.) on forest fand which would require forest land for these facilities was diverted due to this project. (As per table B)	11.54
5	Possession value of forest land diverted. (As per table B)	29.59
6	Cost of suffering to oustees. (As per table B)	Nil
7	Habitation Fragmentation cost. (As per table B)	49.32
8	Compensatory Afforestation and soil and moisture conservation cost (As per table B)	41.80
<b>Total Cost of forest diversion (in Lacs)</b>		<b>240.75</b>
<b>Cost of Benefits of forest diversion</b>		
1	In case in productivity attribute to the specific project. (As per table C)	120.00
2	Benefits to economy due to the specific project. (As per table C)	540.00
3	Economic benefits due to of direct and in directed employment due to the project. (As per table C)	365.00
4	Ecomomic benefits due to CompesatoryAfforestation (As per table C)	207.52
<b>Total Cost of Benefits of forest diversion (In Lacs)</b>		<b>1232.52</b>
<b>Therefore construction of economically viable and social beneficial Benefit Cost Ratio = 1232.52/240.75 = 5.12:1 i.e. &gt;1.0</b>		

  
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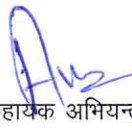
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**Table-B**

**COST BENEFIT ANALYSIS (Estimation of cost of forest diversion)**


Sr. No.	Parameters	
1	Eco system services losses due to proposed forest diversion.	(1) Take N.P.V. Rs. 9864108 or <b>98.64 lacs</b>
2	Loss of animal husbandry productivity including loss of fodder.	Rs. 9864108.00 or <b>9.86 lacs</b> (10% of N.P.V. i.e 98.64 lacs)
3	Cost of human resettlement.	Nil
4	Loss of Public facilities and administrative infrastructure (Roads, Buildings, Schools, Dispensaries, Electric lines, Railways etc.) on forest land which would require forest land for these facilities was diverted due to this project.	Rs. 11.54 <b>lac</b> Utility shifting & reconstruction cost Proposed as per D.P.R.
5	Possession value of forest land diverted.	Rs.2959232.40 or <b>29.59 lac</b> (30% of N.P.V. i.e 98.64 lacs )
6	Cost of suffering to oustees.	Nil
7	Habitation Fragmentation cost.	Rs. 4932054.00 or <b>49.32 lac</b> (50% of N.P.V. i.e 98.64 lacs)
8	Compensatory Afforestation and soil and moisture conservation cost.	Rs.4180981.50 or <b>41.80 lac</b> (Compensatory plantation)
	<b>Total</b>	<b>Rs. 240.75 lacs</b>

  
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**Table -C**

**Estimating of benefits of forest diversion in CBA**


Sr. No.	Parameters	Remarks
1	In case in productivity to the specific project.	Vegetables and Fruits =200 Qtl. per year @Rs 1200.00 per Qtl =200x1200 =240000.00 Benefit for 50 year =240000.00x50=Rs 12000000.00 or 120.00 lacs
2	Benefits to economy due to the specific project.	Market development- taking 12 shops are established after construction of road taking minimum benefit per shop per day Rs. 250.00/- For 12 shops per year :- =12x30x250x12=Rs.1080000.00 or 10.80 lac Benefit for 50 year :- =1080000.00x50= Rs.54000000.00 or <b>540.00 lacs</b>
3	No. of population benefited due to specific project	535
4	Economic benefits due to of direct and in directed employment due to the project	Employment generation due to other activities like transportation, market development etc. take 8 people get per month @ Rs. 5000 per month Benefit of 50 year :-8x5000x12x50=Rs. 24000000.00 or <b>240.00 lacs</b> Tourism:-Employment growth due to tourism activities. = 50000.00 per year per man if 5 people get employment Benefit for 50 year :- =50000x5x50 Rs. 12500000.00.00 or <b>125.00 lacs</b>
5	Economec benefits due to Compensatory Afforestation	Economic value as per guideline of ministry i.e 50% Timber @1/2x32170x23.347x50=18776824.75 50%Fuelwood@1/2x3385x23.347x50= 1975739.87 <b>Total Rs. 20752564.63 or 207.52 lacs</b>
<b>Total</b>		<b>1232.52 lacs</b>

  
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