प्रारुप—29.1 Parameter for Evaluation of loss of Forests

प्रधानमंत्री ग्राम सड़क योजना के अर्न्तगत जनपद टिहरी के जौनपुर विकास खण्ड में मरोडा से वनाली

मोटर मार्ग के कि0मी0 3 से कुण्ड (8.125 कि0मी0)के नव निर्माण हेतु वन भूमी हस्तान्तरण प्रस्ताव। Annexure VI(B)

		Annexure VI(D)	
S.N.	Parameters	Details	
	2	3	
1		Te estimated NPV (Economic Value of loss of ecosystem services) of the 5.1415 ha forest land is 48.28 Rs.	
	CALL Chimber fuel wood and	Effected trees in 8.125 km length have been compensated by road side & compensatory plantation taking cost of Rs 20.98 lakhs.	
3	Loss of animals husbandry productivity including loss of fodder	10% of NPV = Rs 4.83 Lakhs	
4	G . Cl sattlement	Nil	
5	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.		
-	Possession value of forest land diverted	30 % of NPV=14.48Lakhs	
6	Tr. 1 's C satisfied cost	50 % of NPV=24.14 Lakhs	
8	Compensatory afforestation and soil & moiststure conservation cost.	The estimated cost for raising the CA in 5.1415 Ha. Is Rs 23.68 Laks for 10 Years. Considering discounting rate 12% for future 99 years, the present value is Rs65.40 Laks	
0	Suffering to oustees	Nil	
19	The state of the s	178.11	

Total Environmentel Loss

178.11

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खण्ड सिंचाई-२ नई टिहरी

सहायक अभियन्ता

पी0एम0जी0एस0वाई0 खण्ड सिंचाई–२ नई टिहरी अधिशासी अभियन्ता

पी.एम.जी.एस.वाई. खण्ड सिंचाई—२ नई टिह

प्रारुप-29.2

Parameter for Evaluation of Benefit, notwithstanding loss of Forests
प्रधानमंत्री ग्राम सड़क योजना के अर्न्तगत जनपद टिहरी के जौनपुर विकास खण्ड में मरोडा से वनाली मोटर मार्ग के कि0मी0 3 से कुण्ड (8.125 कि0मी0)के नव निर्माण हेतु वन भूमी हस्तान्तरण प्रस्ताव।

Annexure VI(C)

S.N.	Parameters	Details	
1	Increase in productivity attributable to the	Vegetables and fruits =200 Qtls @Rs 2000.00 = Rs 400000.00 For 99 years: 400000.00*99 = Rs 39600000.00	
2		Market development (taking 5 shops are to be developed after construction of motor road & considering minimum benefit per shop per day be Rs 300.00. Benefit for one month 5*30*300=45000.00 Benefit for 5 shops for 1 year=540000.00 Benefit for 99 year = 540000.00x99= 53460000.00	
3	No. of population benefited.	1424	
4	C + :CN - land	Nap land0.702 Ha. @Rs 25.80 Lakh/ha =Rs 15.80 Lakh	
5	: 1 -Ct- due to direct and	Abut 720 man days (40x18) employment will generated directly takong 40x18x400=2.88 laks and skilled development will generated = 5x500x18=Rs 450 So taking total minimum wage (2.88+0.27)=Rs.3.32 The annual value of timber and fulewood, carbon NTFP, eco-tourisum, fodder a watershed services from CA is Rs 4200/annum. Considering discounting rate 4% future 99years, the peresnt value =RS 3.75 Laks	
6	Economic benefits due to Compensatory afforestion.		

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पी.एम.जी.एस.वाई. खण्ड सिंचाई–२ नई टिहरी

प्रारुप-29

Cost Benefit Ratio Chart

प्रधानमंत्री ग्राम सड़क योजना के अर्न्तगत जनपद टिहरी के जौनपुर विकास खण्ड में मरोडा से वनाली मोटर मार्ग के कि0मी0 3 से कुण्ड (8.125 कि0मी0)के नव निर्माण हेतु वन भूमी हस्तान्तरण प्रस्ताव।

SL.	Particulars	Amount in lakhs	Remark
1	Total cost (Investment incurred)		
	Construction cost of the project	538.30	
B)	N.P.V. Amount to be deposited [5.1415 ha @ Rs. 9.39 lakh/ha = Rs 48.28 lakhs]	48.28	
C)	Substitute/Alternative Plantation Cost to be deposited:- (120.14+3.93)	124.07	
	Environmental Losses (Soil erosion effect on hydrological cycle, wildlife habitat, microlimate upsetting of ecological balance) as per annexure VI (B)	178.11	
(E)	Cost of Nap land as per annexure VI (C)	15.80	
(E)	Total	904.56	
	Benefits: Total benefit during the life (Assuming life be 99 years)		
A)	Economic Benefit - Market development (taking 5 shops are to be developed after construction of motor road & considering minimum benefit per shop per day be Rs 300.00. Benefit for one month 5*30*300=45000.00 Benefit for 5 shops for 1 year=540000.00 Benefit for 99 year = 540000.00x99= 53460000.00	534.60	
B)	In this project, about 120 labours (20 permanent & 100 temporary) will get employment. Their social, economical and cultural life structure will also be benefited. Thus, employment potential as per annexure VI (°C)	3.32	
C)	Employment generation due to other activities like transportation, taking 5 people get job per month @ Rs 9000.00 per month 4*9000.00=36000.00 Benefit for 1 year 36000*12=432000.00 Benefit for 99 year 432000.00*99=53460000.00	427.68	
(D)	Tourism- Emploment growth due to tourism activities: Rs 150000.00 per man per year. If 15 people get employment, then Benefit for 99 years: 100000.00* 15*99= Rs148500000.00	1485.00	
(E)	Economic benefits due to Compensatory afforestion.	3.75	
(F)	Vegetables and fruits =200 Qtls @Rs 2000.00 = Rs 400000.00 For 99 years : 400000.00*99 = Rs 39600000.00	396.00	
	Total Economic Benefit	2850.35	
	Hence, Benefit Cost Ratio	3.15	>1

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ecologically beneficial.

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