COST BENEFIT ANALYSIS

NAME OF THE PROJECT :	Widening and improvement of Package - III of Imphal-Jiribam Road Section of NH- 37 into two laning of existing 33+395 km to 67+496 km in the State of Manipur by NHIDCL
NATURE OF PROPOSAL :	Diversion of Forest Land under FCA, 1980 for road widening.
PURPOSE:	This Cost Benefit Analysis is being undertaken for Proposed Diversion of Forest Land being affected due to Widening and improvement of Package - III of Imphal-Jiribam Road Section of NH-37 into two laning of existing 33+395 km to 67+496 km in the State of Manipur by NHIDCL

SI.	Parameters	E - A: ESTIMATION OF COST OF F		And the State of t	Contract Contract		
1	Eco-system Services Losses due	Description Rs. 607.175 Lakhs					
1		*	607.175 L	akhs .			
	to Proposed Forest Diversion	1) Propose Area to be diverted		74 11			
	1	2) Crown density of the proposed are	76.097 Ha 0-60 %				
		3) Forest Cover Area	Area in Hectare				
		(i) Very Dense Forest	0.000				
		(ii) Moderately Dense Forest	24,721				
		(iii) Open Forest	51,376				
		(iv) Scrub	0.000				
			est Diversion Area =	76.097			
		4) As per Supreme Court's Order dated					
		(i) Forest type of the proposed diversion (ii) Net Present Value :	(i) Forest type of the proposed diversion area: Eco-Class I				
		Forest Class	Area (Ha)	Rate (Lakhs/Ha)	Amount (Lakhs)		
		(a) Very Dense Forest	0.00	10.43	0.00		
		(b) Moderately Dense Forest	24.72	9.39	232.13		
		(c) Open Forest	51.38	7.30	375.04		
	1	(d) Scrub	0.00	0.00	0.00		
	1			Total =	607.1		
2	Loss of animal husbandry productivity, including loss of fodder	10% of NPV = 10% of Rs. 607.17499 Lakhs = 60.717 Lakhs					
3	Cost of human Resettlement.	Nil The cost of Human Resettlement for diversion of Forest Land is Nil.					
4	Loss of public facilities and administrative infrastructure (Roads, buildings School, dispensaries, electric lines, railways etc) on forest land, or which would require forest land it these facilities were diverted due	Electric lines & Poles, Water pipe lines, Water Tank etc. public facilities which are being affecte have been considered in the budget. Also the budgets for affected CRSs have been considered if					
	to the project.		The second of th	e de Salaka de	1		
5		30% of NPV = 30% of Rs. 607.17	7499 Lakhs =	182.152 La	khs		
5	to the project. Possession Value of Forest Land	30% of NPV = 30% of Rs. 607.17	7499 Lakhs =	182.152 La	ikhs		
5	to the project. Possession Value of Forest Land	The widening and strengthening of the	Nil	undertaken on the a			
_	to the project. Possession Value of Forest Land Diverted	The widening and strengthening of the	Nil project road is to be so there are no sufferi	undertaken on the a	djoining land		
6	to the project. Possession Value of Forest Land Diverted Suffering to oustees	The widening and strengthening of the the existing road, s	Nil project road is to be so there are no sufferi 7499 Lakhs =	undertaken on the a	djoining land		
6	to the project. Possession Value of Forest Land Diverted Suffering to oustees Habitat Fragmentation Cost	The widening and strengthening of the the existing road, s 50% of NPV = 50% of Rs. 607.17 Compensatory Afforestation cost of 1	Nil project road is to be so there are no sufferi 7499 Lakhs =	undertaken on the a	djoining land		
6	to the project. Possession Value of Forest Land Diverted Suffering to oustees Habitat Fragmentation Cost Compensatory Afforestation and	The widening and strengthening of the the existing road, s 50% of NPV = 50% of Rs. 607.17 Compensatory Afforestation cost of 1 76.097 Ha proposed Forest Land Dive	Nil project road is to be a so there are no sufferi 7499 Lakhs = 52.194 Ha land for ersion = Rs.304.39	undertaken on the a ngs to oustees. 303.587 La	djoining land		
6	to the project. Possession Value of Forest Land Diverted Suffering to oustees Habitat Fragmentation Cost Compensatory Afforestation and Soil & Moisture Conservation	The widening and strengthening of the the existing road, s 50% of NPV = 50% of Rs. 607.17 Compensatory Afforestation cost of 1 76.097 Ha proposed Forest Land Dive Lakhs (including Rs.30.44 Lakhs as	Nil project road is to be a so there are no sufferi 7499 Lakhs = 52.194 Ha land for ersion = Rs.304.39 soil & moisture	undertaken on the a	djoining land		
6	to the project. Possession Value of Forest Land Diverted Suffering to oustees Habitat Fragmentation Cost Compensatory Afforestation and Soil & Moisture Conservation	The widening and strengthening of the the existing road, s 50% of NPV = 50% of Rs. 607.17 Compensatory Afforestation cost of 1 76.097 Ha proposed Forest Land Dive	Nil project road is to be a so there are no sufferi 7499 Lakhs = 52.194 Ha land for ersion = Rs.304.39 soil & moisture tem work cost for a	undertaken on the a ngs to oustees. 303.587 La	djoining land		

Olot (22.1(.2021)
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PMU-Noney, NHIDCL

	TABLE	B: ESTIMATION	F BENEFITS C	F FOREST DIVERSION	N		
SI.	Parameters	Description					
1	Increase in Productivity and	'[(18000*(1.05)^5					
	Economy	2%x15)}' x (P	ackage Length /				
		Economic Improvem	ent in the Projec				
		enhanced growth in	the GDP agains				
		due to the projec	t. This benefit w	584.091 Lakhs			
		enhanced rate of 109	6, 10 years for e				
		years for enhanced ra	ete of 2% (Curre				
		18,000 Crore / annun	in 2014-15, Po				
		18,000 Crore / annum in 2014-15, Population of Manipur is 30 Lacs and Kangpokpi Dist. is 1.94 Lacs & Noney Dist, is					
2	Benefits on vehicle operation &	3,		and at the trey dist. is			
	maintenance cost due to						
	improvement of the project Road	6282 Lakhs per	vear x 30 vears f	188,460,00 Lakhs			
	improvement of the project Road		,	166,460.00 Lakns			
3	No. of Population benefited due	Population along NH-	37 Kangnokni 8	honofited from	the project		
	to specific project	Population along NH-37 Kangpokpi & Noney District shall be benefited from the project. In addition, the project will boost the agricultural and Industrial development of the surrounding					
4	Economic benefits due to direct	area which will eventu					
	and indirect employment due to	Type	No.		'W	1 A- + / - 1-1 ->	
	the project	Skilled	50	Rate / Day 600	Years 3	Amt (Lakhs) 328,500	
	the project	Semi Skilled	16	350	3	61.320	
		Technical	3	2,500	3	82.125	
		2,300			J	471.949	
		2. Employment Poten	tial – Maintenan		The second secon		
		Type	No.	Rate / Day	Years	Amt (Lakhs)	
		Skilled	3	600	30	197.100	
		Semi Skilled	2	350	30	76.650	
		Technical	1	2,500	30	273.750	
	1			dik La Kabilatan da parasa Ta		547.500	
		Total Employment P		1,019.45 Lakhs			
5	Benefit from Compensatory Afforestation	73053 Mandays as per prevailing wage rate for a maintenance period of 8 years of @ present wage rate Rs. 225 Mday =			Lakhs		
		BENEFIT OF FORES	240A20939 AND PRINCIPLE	No. of the last of	190,227,906		

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