	COST BENEFIT ANALYSIS
NAME OF THE PROJECT :	Widening and improvement of Package- VI of Imphal-Jiribam Road Section of NH-37 (NH-53) into two laning of existing Ch.134+821 km from Kambiron village of Noney district to Ch.175+105 km near Nungkao village of Tamenglong district 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- VI of Imphal-Jiribam Road Section of NH-37 (NH-53) into two laning of existing Ch.134+821 km from Kambiron village of Noney district to Ch.175+105 km near Nungkao village of Tamenglong district in the State of Manipur by NHIDCL"

		LE - A: ESTIMATION OF COST OF F				
SI.	Parameters					
1	Eco-system Services Losses due		Rs.	534.639 Lakhs		
	to Proposed Forest Diversion	1) Propose Area to be diverted		88.009 H 0-60 %	_	
		2) Crown density of the proposed area 3) Forest Cover Area		Area in Hectare		
		(i) Very Dense Forest		0.000		
		(ii) Moderately Dense Forest		46.878		
		(iii) Open Forest		12.939		
		(iv) Scrub		28.192		
			est Diversion Area =	88.00		
		4) As per Supreme Court's Order dated 28.03.2008 in WP(C) No. 202/1995 (i) Forest type of the proposed diversion area : Eco-Class I (ii) Net Present Value :				
		Forest Class	Area (Ha)	Rate (Lakhs/Ha)	Amount (Lakhs)	
		(a) Very Dense Forest	0.00	10.43	0.00	
		(b) Moderately Dense Forest	46.878	9.39	440.18	
		(c) Open Forest	12.939	7.30	94.45	
	i e	(d) Scrub	28.192	0.00	0.00	
				Total =	534.6	
2	Loss of animal husbandry productivity, including loss of fodder.	10% of NPV = 10% of Rs. 534.6	53.464 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, have been considered in the budget. A	water rank etc., public i	ractifies which are	being affecte en considered	
positiva (marris)	to the project.	2. V L - 194 14. 1 2 4 4 1 1 1 4 4 4 4 1 1 2 4 4 4 1 1 2 4 4 4 1 1 2 4 4 4 4				
5	to the project. Possession Value of Forest Land Diverted	30% of NPV = 30% of Rs. 534.6	3912 Lakhs =	160.392 L	akhs	
5	Possession Value of Forest Land	The widening and strengthening of the	Nil	indertaken on the		
Reamannia	Possession Value of Forest Land Dixerted	The widening and strengthening of the	Nil e project road is to be u so there are no sufferin	indertaken on the	adjoining land	
f)	Possession Value of Forest Land Diverted Suffering to oustees	The widening and strengthening of the the existing road,	Nil e project road is to be use there are no suffering 3912 Lakhs = 176.018 Ha land for ersion = Rs.352.04 soil & moisture ttern work cost for a	indertaken on the a	adjoining land	

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SI.	Parameters		CHARLES A CHARLES NO. 10	F FOREST DIVERSIO Description	AND THE PARTY OF T	Make the relief to the same of	
1	Increase in Productivity and	'[{18000*(1.05)^					
	Economy		Package Length / I				
		2/0X13)) X (1	ackage Length / I				
		Economic Im	provement in the				
		Economic Improvement in the Project District (Churachandpur) considering enhanced growth in the GDP against normal growth rate due to the project. This benefit will be for 5 years at enhanced rate of 10%, 10 years for enhanced 5% rate & 15 years for enhanced rate of 2%			501.514 Lakhs		
			Description (age) Description of the	ore / annum in 2014-			
		15, Population of Manipur is 30 Lacs and Noney District is					
2	Benefits on vehicle operation &					2 2 1	
	maintenance cost due to						
	improvement of the project Road	7492 Lakhs per	224,760.0	224,760.00 Lakhs			
3	No. of Population benefited due						
	to specific project	Population along NH-37 Noney & Tamenglong Districts shall be benefited from the project. In addition, the project will boost the agricultural and Industrial development of the surrounding					
	to specific project						
	1			_	al development	of the surrounding	
		area which will even		_	al development	of the surrounding	
				_	al development	of the surrounding	
4	Economic benefits due to direct		tually boost the ec	conomic growth.	al development	of the surrounding	
4	Economic benefits due to direct and indirect employment due to	area which will even	tually boost the ec	conomic growth.	al development Years	of the surrounding	
4		area which will even	tually boost the ec	conomic growth.			
4	and indirect employment due to	1. Employment Pote Type	tually boost the econtribution ntial – Construction No.	conomic growth.	Years	Amt (Lakhs) 328.50	
4	and indirect employment due to	1. Employment Pote Type Skilled	ntial – Constructio No. 50	Rate / Day	Years 3	Amt (Lakhs) 328.50 61.32	
4	and indirect employment due to	1. Employment Pote Type Skilled Semi Skilled	ntial – Constructio No. 50 16	Rate / Day 600 350	Years 3	Amt (Lakhs) 328.50 61.32 82.12	
4	and indirect employment due to	area which will even 1. Employment Pote Type Skilled Semi Skilled Technical	ntial – Constructio No. 50 16 3	Rate / Day 600 350 2,500	Years 3	Amt (Lakhs) 328.50 61.32 82.12	
4	and indirect employment due to	area which will even 1. Employment Pote Type Skilled Semi Skilled Technical 2. Employment Pote	ntial – Constructio No. 50 16 3	Rate / Day 600 350 2,500	Years 3 3 3	Amt (Lakhs) 328.50 61.32 82.12 471.9	
4	and indirect employment due to	area which will even 1. Employment Pote Type Skilled Semi Skilled Technical 2. Employment Pote Type	ntial – Constructio No. 50 16 3 ntial – Maintenanc No.	Rate / Day 600 350 2,500 Rate / Day	Years 3 3 3 Years	Amt (Lakhs) 328.50 61.32 82.12 471.9 Amt (Lakhs)	
4	and indirect employment due to	area which will even 1. Employment Pote Type Skilled Semi Skilled Technical 2. Employment Pote Type Skilled	tually boost the economical – Construction No. 50 16 3 million Maintenance No. 3	Rate / Day 600 350 2,500 ce Rate / Day 600	Years 3 3 3 Years 30	Amt (Lakhs) 328.50 61.32 82.12 471.9 Amt (Lakhs)	
4	and indirect employment due to	area which will even 1. Employment Pote Type Skilled Semi Skilled Technical 2. Employment Pote Type Skilled Semi Skilled Semi Skilled	tually boost the economic No. 50 16 3 Initial – Maintenance No. 3 2	Rate / Day 600 350 Rate / Day 600 350 850 850 850 850 850 850 850 850 850 8	Years 3 3 3 3 3 Years 30 30	Amt (Lakhs) 328.500 61.320 82.120 471.90 Amt (Lakhs) 197.100 76.650	
4	and indirect employment due to	area which will even 1. Employment Pote Type Skilled Semi Skilled Technical 2. Employment Pote Type Skilled	tually boost the economical – Construction No. 50 16 3 million Maintenance No. 3	Rate / Day 600 350 2,500 ce Rate / Day 600	Years 3 3 3 Years 30	Amt (Lakhs) 328.50 61.32 82.12 471.9 Amt (Lakhs) 197.10 76.65 273.75	
4	and indirect employment due to	area which will even 1. Employment Pote Type Skilled Semi Skilled Technical 2. Employment Pote Type Skilled Semi Skilled Semi Skilled	tually boost the economic No. 50 16 3 Initial – Maintenance No. 3 2	Rate / Day 600 350 Rate / Day 600 350 850 850 850 850 850 850 850 850 850 8	Years 3 3 3 3 3 Years 30 30	Amt (Lakhs) 328.50 61.32 82.12 471.9 Amt (Lakhs)	
4	and indirect employment due to	area which will even 1. Employment Pote Type Skilled Semi Skilled Technical 2. Employment Pote Type Skilled Semi Skilled Semi Skilled Technical	ntial – Constructio No. 50 16 3 ntial – Maintenanc No. 3 2	Rate / Day 600 350 Rate / Day 600 350 850 850 850 850 850 850 850 850 850 8	Years 3 3 3 Years 30 30 30	Amt (Lakhs) 328.50 61.32 82.12 471.9 Amt (Lakhs) 197.10 76.65 273.75 547.5	
	and indirect employment due to the project	area which will even 1. Employment Pote	tually boost the economic tually boost the economic tual - Construction No. 50 16 3	Rate / Day 600 350 2,500 600 350 2,500	Years 3 3 3 Years 30 30 30	Amt (Lakhs) 328.50 61.32 82.12 471.9 Amt (Lakhs) 197.10 76.65 273.75	
5	and indirect employment due to the project Benefit from Compensatory	area which will even 1. Employment Pote Type Skilled Semi Skilled Technical 2. Employment Pote Type Skilled Semi Skilled Technical Total Employment 84489 Mandays as p	tually boost the economical – Construction No. 50 16 3 mitial – Maintenance No. 3 2 1 Potential = er prevailing wage	Rate / Day 600 350 2,500 600 350 2,500 600 350 2,500	Years 3 3 3 3 Years 30 30 30 1,019.4	Amt (Lakhs) 328.50 61.32 82.12 471.9 Amt (Lakhs) 197.10 76.65 273.75 547.5	
	and indirect employment due to the project	area which will even 1. Employment Pote	tually boost the economical – Construction No. 50 16 3 mitial – Maintenance No. 3 2 1 Potential = er prevailing wage	Rate / Day 600 350 2,500 600 350 2,500 600 350 2,500	Years 3 3 3 3 Years 30 30 30 1,019.4	Amt (Lakhs) 328.50 61.32 82.12 471.9 Amt (Lakhs) 197.10 76.65 273.75	

General Manager (P) NHIDCL, PMU-Noney