	COST BENEFIT ANALYSIS
NAME OF THE PROJECT :	Widening and improvement of Package- V of Imphal-Jiribam Road Section of NH-37 (NH-53) into two laning of existing 103.557 km from Sangrung (Khongsang) village to 134.821 km near Puilon (Kambiron) Village 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- V of Imphal-Jiribam Road Section of NH-37 (NH-53) into two laning of existing 103.557 km from Sangrung (Khongsang) village to 134.821 km near Pullon (Kambiron) Village in the State of Manipur by NHIDCL"

	Parameters	LE - A: ESTIMATION OF COST OF FOREST DIVERSION Description				
1	Eco-system Services Losses due		546,960 Lakhs			
	to Proposed Forest Diversion	Propose Area to be diverted Crown density of the proposed area	Rs.	74.926 H 0-60 %	a	
		3) Forest Cover Area	Area in Hectare			
		0.000				
		(i) Very Dense Forest (ii) Moderately Dense Forest	0.000			
	(iii) Open Forest			74.926		
		(iv) Scrub		0.000		
		Total Forest	Diversion Area =	74.926		
		4) As per Supreme Court's Order dated 28.03.2008 in WP(C) No. 202/1995 (ii) Forest type of the proposed diversion area : Eco-Class I (iii) 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	0.00	9.39	0.00	
		(c) Open Forest	74.926	7.30	546.96	
		(d) Scrub	0.00	0.00	0.00	
			0.00	Total =	546.9	
2	Loss of animal husbandry productivity, including loss of fodder	10% of NPV = 10% of Rs. 546.95	54.696 Lakhs			
3		Nil The cost of Human Resettlement for diversion of Forest Land is Nil.				
	Cost of human Resettlement.	The cost of Human Resettlement for dive				
4	Loss of public facilities and administrative infrastructure (Roads, buildings School, dispensaries, electric lines, frailings sect on forest fanct, or which would require forest land if these facilities were diverted due	The cost of Human Resettlement for dive Electric lines & Poles, Water pipe lines, W have been considered in the budget. Also	ater Tank etc. public	facilities which are		
-	Loss of public facilities and administrative infrastructure (Roads, buildings School, dispensaries, electric lines, railways ecc) on Rorest Fand, or which would require forest land if	The cost of Human Resettlement for dive Electric lines & Poles, Water pipe lines, W have been considered in the budget. Also	ater Tank etc. public the budgets for affe	facilities which are	en considere	
4	Loss of public facilities and administrative infrastructure (Roads, buildings School, dispensaries, electric lines, railways etc) on forest fand, or which would require forest land if these facilities were diverted due to the project. Possession Value of Forest Land	The cost of Human Resettlement for dive Electric lines & Poles, Water pipe lines, W have been considered in the budget. Also	ater Tank etc. public the budgets for affe 8 Lakhs = Nil roject road is to be u	facilities which are exted CRSs have been seed to the control of t	en considere	
4	Loss of public facilities and administrative infrastructure (Roads, buildings School, dispensaries, electric lines, radivags esci on forest fand, or which would require forest land if these facilities were diverted due to the project. Possession Value of Forest Land Diverted	The cost of Human Resettlement for dive Electric lines & Poles, Water pipe lines, W have been considered in the budget. Also 30% of NPV = 30% of Rs. 546.959 The widening and strengthening of the p	ater Tank etc. public the budgets for affe 88 Lakhs = Nil roject road is to be u there are no sufferin	facilities which are exted CRSs have been seed to the control of t	khs djoining lanc	
4	Loss of public facilities and administrative infrastructure (Roads, buildings School, dispensaries, electric lines, frailings sect on forest fanct, or which would require forest land if these facilities were diverted due to the project. Possession Value of Forest Land Diverted. Suffering to oustees	The cost of Human Resettlement for dive Electric lines & Poles, Water pipe lines, W have been considered in the budget. Also 30% of NPV = 30% of Rs. 546.95% The widening and strengthening of the p the existing road, so	ater Tank etc. public the budgets for affe 88 Lakhs = Nil roject road is to be u there are no sufferin 88 Lakhs = 88.52 Ha land for n = Rs.299.7 Lakhs ure conservation	facilities which are exted CRSs have been to the control of the co	khs djoining lanc	

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	Parameters	- B: ESTIMATION		Description	THE RESERVE TO SERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAME		
SI.							
	Increase in Productivity and Economy	x (Pack Economic Im (Churachandpur) co against normal gro will be for 5 years enhanced 5% rat (Current GDP of the	age Length / Roa provement in the ensidering enhanc with rate due to the at enhanced rate e & 15 years for e state @ 18,000 C	Project District sed growth in the GDP se project. This benefit of 10%, 10 years for inhanced rate of 2% crore / annum in 2014-	392.93	4 Lakhs	
		15, Population of N	15, Population of Manipur is 30 Lacs and Noney District is:				
2	Benefits on vehicle operation & maintenance cost due to improvement of the project Road	5790 Lakhs per year x 30 years for Saving in VOC			173,700.00 Lakhs		
3	No. of Population benefited due to specific project	Population along NH-37 Noney District shall be benefited from the project. In addition, the project will boost the agricultural and Industrial development of the surrounding area which will eventually boost the economic growth.					
					ai development	of the surroundin	
4	Economic benefits due to direct		tually boost the e	conomic growth.	ai development	of the surroundin	
4		area which will even	tually boost the e	conomic growth.	Years		
4	and indirect employment due to	area which will even	tually boost the e	conomic growth.		Amt (Lakhs)	
4		area which will even 1. Employment Pote Type	tually boost the e ntial – Constructio No.	conomic growth.	Years	Amt (Lakhs) 328.5	
4	and indirect employment due to	area which will even 1. Employment Pote Type Skilled	ntial – Construction No. 50	on Rate / Day 600	Years 3		
4	and indirect employment due to	area which will even 1. Employment Pote Type Skilled Semi Skilled	ntial – Construction No. 50 16 3	n Rate / Day 600 350 2,500	Years 3 3	Amt (Lakhs) 328.5 61.3	
4	and indirect employment due to	area which will even 1. Employment Pote Type Skilled Semi Skilled Technical 2. Employment Pote Type	ntial – Construction No. 50 16 3	n Rate / Day 600 350 2,500	Years 3 3	Amt (Lakhs) 328.5 61.3 82.1	
4	and indirect employment due to	area which will even 1. Employment Pote Type Skilled Semi Skilled Technical 2. Employment Pote Type Skilled	ntial – Construction No. 50 16 3 ntial – Maintenan	on Rate / Day 600 350 2,500	Years 3 3 3	Amt (Lakhs) 328.5 61.3 82.1 471.9	
4	and indirect employment due to	area which will even 1. Employment Pote Type Skilled Semi Skilled Technical 2. Employment Pote Type	tually boost the e ntial – Constructio No. 50 16 3 ntial – Maintenan No.	conomic growth. Rate / Day 600 350 2,500 CCE Rate / Day	Years 3 3 3	Amt (Lakhs) 328.5 61.3 82.1 471.9 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 e ntial – Constructio No. 50 16 3 ntial – Maintenan No. 3	conomic growth. Rate / Day 600 350 2,500 ce Rate / Day 600	Years 3 3 3 3 Years 30	Amt (Lakhs) 328.5 61.3 82.1 471.9 Amt (Lakhs) 197.1 76.6	
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	tually boost the e ntial – Constructic No. 50 16 3 ntial – Maintenan No. 3 2	Conomic growth. Rate / Day 600 350 2,500 Rate / Day 600 350 350	Years 3 3 3 3 4 Years 30 30 30	Amt (Lakhs) 328.5 61.3 82.1 471.9	
4	and indirect employment due to the project	area which will even 1. Employment Pote Type Skilled Semi Skilled Technical 2. Employment Pote Type Skilled Semi Skilled	tually boost the e ntial – Constructic No. 50 16 3 ntial – Maintenan No. 3 2	Conomic growth. Rate / Day 600 350 2,500 Rate / Day 600 350 350	Years 3 3 3 4 Years 30 30 30	Amt (Lakhs) 328.5 61.3 82.1. 471.5 Amt (Lakhs) 197.1 76.6 273.7	
5	and indirect employment due to	area which will even 1. Employment Pote Type Skilled Semi Skilled Technical 2. Employment Pote Type Skilled Semi Skilled Technical Total Employment 71929 Mandays as p	tually boost the e ntial – Constructio No. 50 16 3 ntial – Maintenan No. 3 2 1 Potential = er prevailing wag	conomic growth. Rate / Day 600 350 2,500 Cee Rate / Day 600 350 2,500	Years 3 3 3 3 Years 30 30 30 1,019.4	Amt (Lakhs). 328.5 61.3 82.1 471.9 Amt (Lakhs). 197.1 76.6 273.7 547.5	

General Manager (P) NHIDCL, PMU-Noney