COST BENEFIT ANALYSIS

NAME OF THE PROJECT :	Widening and improvement of Package- VII of Imphal-Jiribam Road Section of NH-37 (NH-53) into two laning of existing Ch.175+105 km from Nungkao village of Tamenglong district to Ch.214+289 km near Jiribam village of Jiribam 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

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Land being affected due to "Widening and improvement of Package- VII of Im	phai-
Jiribam Road Section of NH-37 (NH-53) into two laning of existing Ch. 175+10	5 km
from Nungkao village of Tamenglong district to Ch.214+289 km near Jiribam	village of
Jiribam district in the State of Manipur by NHIDCL'"	
of ball district in the state of manipul by Milibel	

il.	Parameters	BLE - A: ESTIMATION OF COST O	Description			
1	Eco-system Services Losses due	Rs. 601.726 Lakhs				
	to Proposed Forest Diversion					
		1) Propose Area to be diverted	95.128 Ha			
		2) Crown density of the proposed a	0-60 %			
		3) Forest Cover Area		Area in Hectare		
		(i) Very Dense Forest		0.000		
		(ii) Moderately Dense Forest		31.108		
	1	(iii) Open Forest	1977275	42.41	4	
		(iv) Scrub		1.21	3	
		(v) Non Forest		20.39	13	
			Forest Diversion Area =	95.12	28	
		4) As per Supreme Court's Order date	d 28.03.2008 in WP(C) No. 2	202/1995		
		(i) Forest type of the proposed diversi-	on area : Eco-Class I			
		(ii) Net Present Value :		in .		
		Forest Class	Area (Ha)	Rate	Amount	
		LOIEST CIASS	Area (Ha)	(Lakhs/Ha)	(Lakhs)	
		(a) Very Dense Forest	0.00	10,43	0.00	
		(b) Moderately Dense Forest	31.11	9.39	292.10	
		(c) Open Forest	42.414	7.30	309.62	
		(d) Scrub	1.213	0.00	0.00	
		(v) Non Forest	20,39	0.00	0.00	
		(v) North brest	20.39	Total =	601.7	
	productivity, including loss of fodder	10% of NPV = 10% of Rs. 601.72632 Lakhs = 60.173		3		
3	Cost of human Resettlement.	N The cost of Human Resettlement for d	•••	L		
1	Loss of public facilities and	Electric lines & Poles, Water pipe lines	Water Tank etc. public faci	lities which are bein	g affected hav	
	administrative infrastructure	been considered in the budget. Also the				
	(Roads, buildings School,					
	dispensaries, electric lines,					
	railways etc) on forest land, or					
	which would require forest land if					
	these facilities were diverted due					
•OX	these facilities were diverted due to the project.					
i	these facilities were diverted due to the project. Possession Value of Forest Land	30% of NPV = 30% of Rs. 60	1.72632 Lakhs =	180.518 La	akhs	
5	these facilities were diverted due to the project.	30% of NPV = 30% of Rs. 60		180.518 La	akhs	
-	these facilities were diverted due to the project. Possession Value of Forest Land Diverted		Nil	1.00.00		
5	these facilities were diverted due to the project. Possession Value of Forest Land	The widening and strengthening of t	Nil ne project road is to be und	ertaken on the adjoir		
5	these facilities were diverted due to the project. Possession Value of Forest Land Diverted Suffering to oustees	The widening and strengthening of t	Nil	ertaken on the adjoir		
-	these facilities were diverted due to the project. Possession Value of Forest Land Diverted	The widening and strengthening of t	Nil ne project road is to be und l, so there are no sufferings	ertaken on the adjoir	ning land of t	
5	these facilities were diverted due to the project. Possession Value of Forest Land Diverted Suffering to oustees	The widening and strengthening of ti existing road 50% of NPV = 50% of Rs. 60	Nil ne project road is to be und l, so there are no sufferings 1.72632 Lakhs =	ertaken on the adjoin to oustees.	ning land of t	
, ·	these facilities were diverted due to the project. Possession Value of Forest Land Diverted Suffering to oustees Habitat Fragmentation Cost	The widening and strengthening of ti existing road 50% of NPV = 50% of Rs. 60 Compensatory Afforestation cost of 1	Nil ne project road is to be und l, so there are no sufferings 1.72632 Lakhs = 90.256 Ha land for 95.128	ertaken on the adjoin to oustees.	ning land of t	
, ·	these facilities were diverted due to the project. Possession Value of Forest Land Diverted Suffering to oustees Habitat Fragmentation Cost Compensatory Afforestation and	The widening and strengthening of the existing road 50% of NPV = 50% of Rs. 60 Compensatory Afforestation cost of 1: Ha proposed Forest Land Diversion =	Nil ne project road is to be und l, so there are no sufferings 1.72632 Lakhs = 90.256 Ha land for 95.128 Rs.380.51 Lakhs (including	ertaken on the adjoin to oustees. 300.863 La	ning land of t	
, ·	these facilities were diverted due 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 ti existing road 50% of NPV = 50% of Rs. 60 Compensatory Afforestation cost of 1	Nil ne project road is to be und l, so there are no sufferings 1.72632 Lakhs = 90.256 Ha land for 95.128 Rs.380.51 Løkhs (including nservation cost which is	ertaken on the adjoin to oustees.	ning land of t	

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Si.	Parameters			Description		
1	Increase in Productivity and Economy	(Pa	ckage Length / Road	7.0		
		considering enhance rate due to the enhanced rate of years for enhance 18,000 Crore / ann	ed growth in the GE project. This benefit 10%, 10 years for e ed rate of 2% (Curre um in 2014-15, Pop	District (Churachandpur) P against normal growth will be for S years at nhanced 5% rate & 15 ent GDP of the state @ ulation of Manipur is 30 acs & Jiribam Dist is 0.44	351.891 Lakhs	
2	Benefits on vehicle operation & maintenance cost due to improvement of the project Road	7359 Lakhs per year x 30 years for Saving in VOC			2,20,770.00 Lakhs	
3	No. of Population benefited due	Population along N	H-37 Tamenalona 8	Jiribam Districts shall be be	posited from t	an municut
	to specific project	In addition, the proj which will eventually	ect will boost the ag	pricultural and Industrial dev	elopment of th	e surrounding are
4	to specific project Economic benefits due to direct	In addition, the proj	ect will boost the ag / boost the economi	pricultural and Industrial dev ic growth.	elopment of th	e surrounding are
4		In addition, the proj which will eventually	ect will boost the ag / boost the economi	pricultural and Industrial dev ic growth.	elopment of th	e surrounding are
4	Economic benefits due to direct	In addition, the proj which will eventually 1. Employment Pote	ect will boost the ag boost the economi ontial – Construction	pricultural and Industrial dev ic growth.	elopment of th	e surrounding are Amt (Lakhs)
4	Economic benefits due to direct and indirect employment due to	In addition, the proj which will eventually 1. Employment Pote Type	ect will boost the ag y boost the economi ential — Construction No.	pricultural and Industrial dev ic growth. Rate / Day	elopment of th	Amt (Lakhs)
4	Economic benefits due to direct and indirect employment due to	In addition, the proj which will eventually 1. Employment Pote Type Skilled	ect will boost the ac boost the economi ential – Construction No. 50	gricultural and Industrial device growth. Rate / Day 600	elopment of th Years 3	Amt (Lakhs) 328.50 61.32
4	Economic benefits due to direct and indirect employment due to	In addition, the proj which will eventually 1. Employment Pote Type Skilled Semi Skilled	ect will boost the ag y boost the economi intial – Construction No. 50 16 3	Rate / Day 500 350 2,500	elopment of th Years 3 3	Amt (Lakhs) 328.50 61.32 82.12
4	Economic benefits due to direct and indirect employment due to	In addition, the proj which will eventually 1. Employment Pote Type Skilled Semi Skilled Technical	ect will boost the ag y boost the economi intial – Construction No. 50 16 3	Rate / Day 500 350 2,500	elopment of th Years 3 3	Amt (Lakhs) 328.5(61.3; 471.5
4	Economic benefits due to direct and indirect employment due to	In addition, the proj which will eventually 1. Employment Pote Type Skilled Semi Skilled Technical	ect will boost the acy boost the economication No. 50 16 3	Rate / Day 500 350 2,500	Years 3 3 3	Amt (Lakhs) 328.50 61.3; 82.1; 471.9
4	Economic benefits due to direct and indirect employment due to	In addition, the proj which will eventually 1. Employment Pote Type Skilled Semi Skilled Technical 2. Employment Pote Type	ect will boost the acy boost the economic prize of the economic pr	Rate / Day 500 350 2,500 Rate / Day	Years 3 3 3 Years	Amt (Lakhs) 328.50 61.31 82.11 471.5 Amt (Lakhs)
4	Economic benefits due to direct and indirect employment due to	In addition, the proj which will eventually 1. Employment Pote Type Skilled Semi Skilled Technical 2. Employment Pote Type Skilled	ect will boost the acy boost the economic prize of the economic pr	Rate / Day 500 350 2,500 Rate / Day 600	Years 3 3 3 Years 3 3	Amt (Lakhs) 328.50 61.32 82.12 471.5 Amt (Lakhs) 197.10
4	Economic benefits due to direct and indirect employment due to	In addition, the proj which will eventually 1. Employment Pote Type Skilled Semi Skilled Technical 2. Employment Pote Type Skilled Semi Skilled	ect will boost the acy boost the economic price of the economic pr	Rate / Day 600 2,500 Rate / Day 600 350 2,500 Rate / Day 600 350 2,500	Years 3 3 3 Years 3 3 3	Amt (Lakhs) 328.50 61.32 82.12 471.9 Amt (Lakhs) 197.10
4	Economic benefits due to direct and indirect employment due to	In addition, the proj which will eventually 1. Employment Pote Type Skilled Semi Skilled Technical 2. Employment Pote Type Skilled Semi Skilled	ect will boost the acy boost the economic phose the	Rate / Day 600 2,500 Rate / Day 600 350 2,500 Rate / Day 600 350 2,500	Years 3 3 3 Years 3 3 3	Amt (Lakhs) 328.5 61.3 82.1 471.5 Amt (Lakhs) 197.10 76.65 273.7 547.5

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