UTTAR PRADESH PUBLIC WORKS DEPARTMENT

Forest Land proposed to be diverted for nothening of Chibramau-Saurikh-Bidhuna(MDR-13) i

Widening and strengthening of Chibramau-Saurikh-Bidhuna(MDR-13) in Kannauj District

COST.BENEFIT ANALYSIS

Purpose: This cost benefit analysis is being undertaken for proposed diversion of forest Land being affected due to construction of access controlled

(a) Parameters for Evaluation of the loss of Forests

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ools,				
dispensaries, electric lines, railway etc.) on forest				
980				
the environmental loss for a 50 years period for the density of 1.0 is INR 126.74 Lacs per hectare, The				
				division wise environment loss is as follow Division Forest Density Environment
R.				
)				
Hence on calculation the current total loss is INR 5,19,479.44 per hectare and total environmental loss for the project is 1095.036 Lac.				
ental				

There for Current Environment Net loss in - INR= 270,396.00 + 10950360 = INR 1, 12, 20,765/- Expenditure for development and maintenance of the project for 15 years

= Cost of Project +Renewal cost of BC for two cycle = INR 24.9249+12.46245= INR 37.38735 crore

Net Total Loss = INR 1095.036+37.38735 =1132.42335crore

(b) Parameters for evaluation of Benefit. Notwithstanding Loss

S.No.	Parameter	Description						
	increase in							
1	productivity at least twice of the affected trees as compensatory afforestation as					tion as per		
	attributable to	forest (conservation)Act 1980. So the net productivity will increase. Apart						
	the specific	from compensatory Plantation it has been proposed to develop green belt						
	Project	in either side of project road throught project stretch.						
		The trees to be planted	as per comp	pensatory at	forestation are	57108 no.		
		of trees in Kannauj Th	e Compensa	atory Affor	estation cost v	vill be INR		
		84850000. The CA will b	e done in 43	3.2Ha of deg	raded forest lai	nd,which is		
		down the line after ter	•					
		ecological value for a 5	0 years peri	od of densi	ty of 1.0 is 126	5.74lac per		
		hectare. By considering		•				
		project would be INR 4	138013440(C	alculated th	ie value for rer	maining 40		
		years after achieving 0.8	• • • • • • • • • • • • • • • • • • • •					
_	Benefits to				•	2		
2	economy	connectivity to state ca		-				
		with high speed corrido	r leading to	reduced trav	el time and fue	I		
		consumption.						
			2-The benefits to trade specially in moment of perishable goods.					
		3. Access to new industrial areas. Overall enhancement of socio-economic condition of the area along the						
		project corridor.	1 30010-60011	offic condit	ion of the area	along the		
		' '	to increase t	he GDP of ti	ne said region a	nd make it		
		Though overall mission to increase the GDP of the said region and make it comparable/abobe the nation GDP of the benefit of the						
		comparable/abobe the nation GDF of the benefit of the						
		The benefit of Economy shown in table below						
		Project Details	Increasing	Project	Current Cost	Net		
			Rate of	after 50	Involve in	Profit in		
			Cost year	Years	Construction	50year		
					Project			
		Widening and	8%	1246.245	249.249 Cr.	996.996		
		strengthening of		Cr.		Cr.		
		Chibramau - Saurikh						
		- Bidhuna(MDR - 13) in Knnauj						
		So benefit of economy in 50 years =99.6996 crore.						
		GDP will increase 3.0%(996.996/32400) current GDP of Kannauj. Saving due to less consumption of fuel and fatalities=282.6939 crore Total NPV of the project						
		Kannauj 21.6x 8.03(0.49	Kannauj 21.6x 8.03(0.4% density) =173.448 Thus Lacs. the total NPV for					
		the project is INR 173.448 Lac						
		The result of economic	evaluation s	show that th	ne proposed de	velopment		
		of project road economi	ically viable v	with EIRR 16	.26%			
3	No.of The Population of 115000 People from district Kannauj, Aurai				uraiya and			
Ī								
	population	Etawah will be benefited	d direct by or	٢				
	population benefited	Etawah will be benefited	d direct bv or	ſ				

4	Employment	Approximately 25000 man days of temporary employ-Ment will be
	Potential	generated during the construction of the Project for a period of 2
		year
5	Cos	Total of protected forest land is 21.6ha in Kannauj where forest
	Acquisition of	diversion is involved
	facility on non	
	forest land	
	where ever	
	feasible	
6	Loss of (a)	Nil
	agriculture &	
	(b) animal	
	husbandry	
	production	
	due to diversion of	
	Forest Land	
7	Cost of	There is no displacement related to the Project in the forest area
	rehabilitating	proposed for diversion.
	the displaced	
	persons as	
	different from	
	compensatory	
	amounts given	
	for	
	displacement	
	Cost of supply	No fuel wood will be supplied to the workers during
8	of free fuel	the construction period contractor will supply LPG
	wood to	fuel for the cooking and the purpose in the workers
	workers	Camp to the workers.
	residing in or near forest	
	area during	
	the period of	
	construction	

Therefore Project Benefit

INR.84,8,50,000+43,80,13,4400+17,34,4800+**28,26,93,9000+99,69,96,000**

Net Profit=7,31,92,64,200

Therefore Benefit cost ratio = **11324233500/7319264200** = **1.547**

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