000		0
Cost of supply of free fuel-wood to workers residing in or near forest area during the period of construction.	as different from compensatory amounts gives for displacement.	Loss of (a) agriculture & (b) animal NIL husbandry production due to diversion of forest land.
Cost of supply of free fuel-wood to workers residing in or near forest area during the construction period of construction. No fuel-wood will be supplied to the workers during the construction period. contractor bill be supply fuel for the cooking and other purposes in the worker's carn to the worker.	NIL As there are no displaced persons involved in forest section.	NIL

b) Parameters for Evaluation of Loss of Forests

C					U		A U	1	٥		book	No.
o Surreing to outrees.					Environmental losses: (Soil erosion, effect on hydrological cycle, wildlife habitat, microclimate upsetting of ecological balance)	infrastructure (Roads, buildings, school, dispensaries, electric lines, railways etc) on forest land or which would require forest land if these facilities were diverted due to the project.		Loss of animal husbandry productivity, including loss of fodder	commodities.	of man-hours per annum of people who derived livelihood and wages from the harvest of these	Loss of value of timber, fuel wood and minor forest produce on an annual basis including loss	Parameters
NIL	53995055.00 INR 5399505	Jalaun	Division	As per Forest Considering environmenta years.	The total area required for environmenta hectare	There are no Infrastructure Electric line diversion is p	There is no Resettle resettlement is NIL	Nii	No livelihood of people diversion of forest land.	Total value	Total nos of	De
	53995055.00 & the total environment loss for the total significant control of the total environment loss for the environment loss for the total environment	42.60301	Forest Area	As per Forest (Conservation) Act for 50 Years. Considering density of the forest as 0.1, environmental losses per hectare is Rs. 12.67 years.	The total area of Protected fores required for the widening environmental loss for density hectare	(Roads, Bus, Railway, etc.)	There is no Resettlement in the forest land hence cost of resettlement is NIL		d of people wil	Total value of trees = INR 7938447.92	drees 2686 will	
	current total ironment loss '.92 = 6193351	0.10	Density	Act for 50 Y e forest as ctare is Rs. 1		c Facilities audiding, School other) on 1 loss of public	the forest land		l be affected c	7938447.92	be affected d	Description
1000 J. Oc.	S3995055.00 & the total environment loss for the project is INR S3995055.00 + 7938447.92 = 61933.502.97	53995055.00	Environment loss	As per Forest (Conservation) Act for 50 Years. Considering density of the forest as 0.1, the cost of environmental losses per hectare is Rs. 12.674 lacs for 50 years.	The total area of Protected forest land along the project road required for the widening is 42.60301 hec. The environmental loss for density 1.0 is Rs. 126.74 lacs per hectare	There are no loss of Public Facilities and Administrative Infrastructure (Roads, Building, School, Dispensaries, Electric lines, Railway, etc other) on forest land where diversion is proposed. hence loss of public facilities is NIL	d hence cost of		No livelihood of people will be affected due to proposed diversion of forest land.		Total nos of trees 2686 will be affected due to the project	-

Benefit cost Ratio

11 11

Hence Project is Found viable.

maintenance cost 271.3512 + 6.19 + 2.67 + 20.40 = total benefit/total cost 3573.86/300.6112

300.6112 crore

11.89

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Name of the Project: Construction of Four Lane Bilrayan - Panwari Road SH-21 From Km. 318.000 to 352.00 District-Jalaun,

Cost Benefit Analysis

 Ξ Length of Proposed Stretch

= 34.00

2 Design Period of the road

(3) Anticipated PCU of Proposed Stretch = 22064

= 20 Years

4 Cost of Saving of time

= 22064x4(person)x1(hr)@60x20x365

Hence Total Proposed Saving

= 3865.61 Crore (A)=38,656,128,000.00 = 3865.61 Crore

Expenditure :-

For development of Project

= 271.35 Crore

For Maintinence of Project for 20 years Taking 3.00 lacs per year per Km.

For Maintinence of Project for 20 years

 $= 3.00 \times 20 \times 34.00$

Total

=(271.35+20.40)

= 20.40 Crore

= 291.75 Crore (B)

Hence Proposed Saving

= A-B

= 3865.61-291.75 Crore

3573.86 Crore

की आर पड़ोहरवार

Executive Engineer OC.D-3, P.W.D. Orle Executive Engineer (Er. V.K.Rai) n Bivision 3 PWD ORAL

E:\Mr. Kamlesh Babu\Estimate\Estimate\B.P.Road Four lane T.S\forest division cd-3 orai\forest division cd-3 ora, karyalay gyap.doc -46-

COST BENEFIT ANALYSIS

Name of the Project: Construction of Four Lane Bilrayan – Panwari Road (SH-21) From Ch. 318.000 to 352.000, District-Jalaun State of Uttar Pradesh

352.000, District-Jalaun State of Uttar Pradesh Nature of Proposal Diversion of Forest land under FCA, 1980 for Road Widening Purpose: This Cost of Benefit Analysis is being undertaken for Proposed Diversion of Forest land being affected due to Construction of Four Lane Bilrayan - Panwari Road (SH-21) From Ch. 318.000 to

a) Parameters for Evaluation of benefit, notwithstanding Loss of Forests

Z so	jush	ω 4	C.	4	· CA
Parameters	Increase in productivity attributable to the specific project.	No. of population benefited. Employment potential			Cost of acquisition of facility on non-forest land wherever feasible
· . Description		So Economic benefit due to the project will be: better accessibility to social infrastracture like educational institutions, health facilitates, markets etc. Saving in vehicle operating costs, Saving in travel time, Benefits to trade especially in movement of perishable goods. Reduced maintenance costs, Reduction in accidents, and Overall enhancement of socio-economic condition of area along the project corridor. Based on economic analysis of the project, economic internal Rate of Return (EIRR) is as below. Project Project Project C/O Four lane Bilrayan Project EIRR(%) NPV @Rs 6.26 lakhs per hec C/O Four lane Bilrayan 12.50 266.695 Panwari road(S.H-21) Ch- from-318.00 to 352.00 The result of economic evaluation show that the proposed development of 4-lane is economically viable. GDP will Increase by 0.05% approx of districts connected through this road (Khiri, Sitapur, Auraiya, Jalaun and Mahoba) Entire population of Jalaun district will be benefited by the proposed development. Approximately 200 skilled & semi skilled labors will be employed during the construction period thus approx. 150470	Entire population of Jalaun dis hence total nos of 5.00 lacs wi	Approximately 200 skilled & semi skilled labors will be employed during the construction period thus approx, 159470 man days of employment will be generated during construction	No cost of Acquisition of facilities on non forest land is possible.
	The productivity attributable due to this project is subject to estimation as per lessening of time for movement of goods and services of U.P., less wear & tear to the vehicles, lesser consumption of fossil fuel etc. Savings in vehicular operating and maintenance cost. Benefits to trade especially in movement of perishable goods. Reduction in accidents, and Overall enhancement of socio-economic condition of area along the project corridor. Based on economic analysis of the project, Economic Internal Rate of Return (EIRR) is as below. Due to wideining of road will result in improved traffic condition and saving in travel time of 1 hr will result in economic benefit of	Economic benefit due to the project will be: tter accessibility to social infrastracture like ucational institutions, health facilitates, markets etc. Saving in vehicle operating costs, Benefits to trade especially in movement of perishable goods. Reduced maintenance costs, Reduction in accidents, and. Overall enhancement of socio-economic condition of area along the project corridor. Seed on economic analysis of the project, economic internal tee of Return (EIRR) is as below. Project Project EIRR(%) NPV @Rs 6.26 lakhs Per hec C/O Four lane Bilrayan Project 12.50 266.695 ffom-318.00 to 352.00 result of economic evaluation show that the proposed elopment of 4-lane is economically viable. GDP will Increase by 0.05% approx of districts connected through this road (Khiri, Sitapur, Auraiya, Jalaun and Mahoba) re population of Jalaun district will be benefited directly total nos of 5.00 lacs will be benefited by the proposed lopment. Toximately 200 skilled & semi skilled labors will be loyed during the construction period thus approx. 1504.76	strict will be benefited directly lil be benefited by the proposed	semi skilled labors will be on period thus approx, 159470 be generated during construction	es on non forest land is possible.