## Table A:- Cases under which a Cost Benefit Analysis for diversion are required

Name of Project :- Up-gradation to 4-lane configuration of M.S. Border - Korpana - Wansadi - Gadchandur - Rajura section of NH 353B in the State of Maharashtra.

Sr. No.	Nature of proposal	Applicable/ Not applicable	Remarks
1	All categories of proposals involving forest land up to	Not applicable	NIL
	20 Ha. in Plains and up to 5 Ha. in hills.		=
2	Proposals for defense installation purposes and oil	Not applicable	NIL
	prospecting (Prospecting only)	-	
3	Habitation, establishment of industrial units, tourist	Not applicable	NIL
	lodges/Complex and other building constructions.		
4	All other proposals involving forest land more than	Applicable	These are cases where a
	20 Ha in plain and more than 5 Ha in hills including		"Cost Benefit Analysis" to
	roads, transmission lines, minor medium and major		determine whether
	irrigation projects, hydra projects, mining activities,		diverting the forest land to
	Railway lines, location specific installation like Micro-		non-forest use is in the
	wave station, auto repeater center, TV towers, etc.		overall public interests.
5	Proposal for renewal of Mining Lease for forest land.	Not applicable	NIL
			and Highways Aug

Place: - Chandrapur Date: - 05/07/2021

Project Director, NHAI, PIU - Chandrapur, Chandrapur.

## Table B:- Estimation of cost of forest diversion....

Name of Project:- Up-gradation to four lane configuration of M.S. Border - Korpana - Wansadi - Gadchandur - Rajura section of NH 353B in the State of Maharashtra.

Quantum of forest land applied for

: 36.038 Ha.

Life of Project

: Long period

Division

: Central Chanda Division, Chandrapur.

	. Gentral Ghanda Division, Chandrapur.				
1	Forest Loss Calculations Present NPV for 1 Ha of forest land Present NPV for 36.038 Ha. forest land	6.26 Lacs 263.077 Lacs			
2	Loss of animal husbandry productivity including loss of fodder	ATT 14 CHARLES AND A STATE OF THE STATE OF T			
3	Loss of human re-settlement	0 (NIL)			
4	Loss of public facilities and administrative infrastructure (roads, buildings, schools, dispensaries, electric line, railway, etc.) on forest land if these facilities were diverted due to this project.	0 (NIL)			
5	Possession value of forest land diverted	The details of environmental losses are determined as per given thumb rule for the forest land required for the Infrastructure development are under:  i) Density of the forest – 0.1  ii) Average density proposal to be acquired for the project -0.1  iii) Environmental value per Hectare for density 1.00 (Rs. in Lacs) - 126.74 Lacs.  iv) Environmental loss forest land to be acquired: 126.74x 36.038 x 0.1 = 457.278 Lacs. 30% of 457.0278 = 137.183 Lacs.			
6	Cost of suffering of out sees.	There will not be any loss due to suffering of oustees.			
7	Habitat Fragmentation cost.	There will not be any loss due to Habitat Fragmentation.			
8	Compensatory afforestation and soil & moisture conservation cost.	<ul> <li>Rate of C.A. for 1 Ha. of forest land 7.30 Lacs.</li> <li>Value of C.A. for 36.038 Ha. forest 263.077 Lacs.</li> <li>Double the amount of C.A. 526.155 Lacs</li> </ul>			

Place: - Chandrapur Date:- 05/07/2021

(A. S. Pimple)

Project Director,

NHAI, PIU – Chandrapur.

Table C:- Exiting guidelines for estimating benefits of forest diversion in CBA....

Name of Project:- Up-gradation to four lane configuration of M.S. Border - Korpana - Wansadi - Gadchandur - Rajura section of NH 353B in the State of Maharashtra.

Quantum of forest land applied for

: 36.038 Ha.

Life of Project

: Long period

Division

: Central Chanda Division, Chandrapur.

Sr. No.	Parameters	Evaluation Benefits	Qualified in Monitory terms per annum.	, Qualification of Benefit in monitory terms connected to the period (50 yrs) evaluation
1	Increasing of productivity	Crops and other	70.00 Lacs	3500.00 Lacs
	attributed to specific			
	project.			
2	Benefit of economy due to	II) Other benefits not		
	the specific project.	qualified in monitory		
		terms		
		a) Growth of Ancillary industries.	10.00 Lacs	500.00 Lacs
		b) Development of	12.00 Lacs	6/2 (America) (A
	w 2	surrounding area	12.00 Lacs	600.00 Lacs
		c) Increased per	0.001	
		capita income	2.00 Lacs	100.00 Lacs
		<ul> <li>d) Compensatory afforestation</li> </ul>	7.30 Lacs	365.00 Lacs
3	No of Population benefited	Population is indirectly	5.00 Lacs	250.00 Lacs
	due to the specific project.	benefited		
4	Economic benefits due to	200 persons	10.00 Lacs	500.00 Lacs
	direct and indirect			
	Employment due to the			
	project.			
5	Economic benefits due to compensatory afforestation.	For benefits NPV estimated	8.14 Lacs	407.00 Lacs
		Total:	124.44 Lacs	6222.00 Lacs

Place: - Chandrapur Date:- 05/07/2021

Project Director, NHAI, PIU - Chandrapur, Chandrapur.

## **COST BENEFIT ANALYSIS III-CALCULATION OF BENEFIT/COST RATIO**

Total Benefits (As per II calculations) =

Rs.

6222.00 Lacs

Total Losses (As per I calculations) =

Rs

926.415 Lacs

Hence, Benefit/Cost Ratio =

6222.00

= 6.71

926.415

Thus, the project gives positive Benefit/Cost Ratio. The monetary returns of the project are positive

over the environmental losses.

Place: - Chandrapur Date:- 05/07/2021

Project Director, NHAI, Plu Chandrapur,

Chandrapur.