COST BENEFIT ANALYSIS PART-A

Category of proposals for which cost Benefit Analysis is applicable for the proposed Gauge Conversion of existing Railway line from Meter Gauge to Broad Gauge between Akola-Khandwa Railway stations.

Sl.No.	Nature of proposal	Applicable/Not Applicable	Remarks
1)	All categories of proposals involving forest land up to 20 Ha. in plains and up to 5 Ha. in hills.	Not Applicable	Nil
2)	Proposals for defence installation purposes and oil prospecting (prospecting only).	Not Applicable	Nil
3)	Habitation, establishment of industrial units, tourist lodges/complex and other building construction.	Not Applicable	Nil
4)	All other proposals involving forest land more than 5Ha. in hills including roads, transmission lines, minor, medium and major irrigation projects, hydel projects, mining activities. Railway lines, location specific installation like Microwave station, auto repeater centre, TV towers etc.		The diversion of forest land involved is only 21.49 hectare for Gauge Conversion of existing Meter gauge Railway line.
5)	Proposals for renewal of mining lease for forest land.	Not Applicable	Nil

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COST BENEFIT ANALYSIS PART-B

PARAMETER FOR EVALUATION OF FOREST HAS BEEN ACCORD FOR A PERIOD OF 99 YEARS AS PER GOVERNMENT DIRECTIVES:

Project: Proposed Gauge Conversion of existing Railway line from Meter Gauge to Broad Gauge between Akola-Khandwa Railway stations.

Total length of this Railway line 8.10 Km have passing through Reserve/Protected forest area under Bhainsa reserved forest division, District- Khandwa and Burhanpur and total forest land to be diverted for this rail line in 21.49 hect. under range-Barukheda of Khandwa district and Amlakhurd of Burhanpur district.

SI.No.	Parameters	Road, Tr. Line & Railway line
1)	Forest loss calculations, loss of value of timber, fuel wood and minor forest produce on an annual basis, including loss of man-hours per annum of people who diverted live hood and wages from the harvest of these commodities. Present NPV for 1 Ha of forest land: Present NPV for 21.49 Ha of forest land:	= 9.58 Lakh = 21.49 x 9.58 Lakh = 205.8742 Lakhs
2)	Loss of animal husbandry productivity, including loss of fodder. (10% of NPV)	=Rs205.8742 x 0.1 = 20.58742 Lakhs
3)	Cost of human resettlement.	There is no inhabitant as per record in Railway line corridor forest land. Hence, there would be no loss due to human resettlement.
4)	Loss of public facilities and administrative infrastructure (roads, buildings, schools, dispensaries, electric line, Railway etc.) on forest land or which would require forest land if these facilities were diverted due to this project.	land to this project. There will be no
	उप मुख्य इंजिनिसर् ०५/22 निर्माण/द म रे / अकाला	additional facilities better connectivity to local resident which will give opportunity to development of area.

COST BENEFIT ANALYSIS

5)	Possession value of forest land	=Rs205.8742 x 0.3
	diverted. (30% of NPV)	= 61.7623 Lakhs
6)	Cost of Suffering of oustees.	Not applicable since there will be no
		displacement of people.
7)	Habitat Fragmentation Cost.	=Rs205.8742 x 0.5
•	(50% of NPV)	= 102.9371 Lakhs
8)	Compensatory Afforestation and soil	,
	& moisture conservation cost.	
	Rate of C.A for 1Ha of forest land:	= 3.8775 Lakhs
	Value of C.A for 21.49 Ha of forest	:
	land:	= 21.49 x 3.8775 lakhs
		= 83.31673 Lakhs
	Double the amount of C.A:	= 166.65495 Lakhs.(Rs. 166,65495)
Total cost (calculated for 99 years)		=557.81597 Lakhs
		(Say 557.816 lakhs)

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Deputy Chief Engineer Construction S.C.Rly., Akola

COST BENEFIT ANALYSIS PART-C

PARAMETERS FOR EVALUATION OF FOREST NOT WITH STANDING LOSS OF FOREST

Sl.No.	Parameters	Descriptions
1)	Increase in productivity	
	attributable to the specific project.	
	project.	in both economic and social development.
2)	Benefits to the economy due to	Improving the accessibility shall help in
	the specific project.	regional economic development.
3)	No. of the population	Entire population of district – Khandwa
	benefitted due to specific	
	project.	Pandhana of Khandwa district and
	, , , , , , , , , , , , , , , , , , , ,	tehasil- Nepanagar of Burhanpur district are benefitted directly. Hence total nos.
	4 - 2	of 35 Lakhs population will be
		benefitted by the proposed GC Railway
4)	Francis I Co	line.
4)	Economic benefits due to of direct and indirect employment	This project will provide rail link between Khandwa and Akola will
,	due to this project.	between Khandwa and Akola will provide rail connectivity between
		industrial centers in the South and
		Western India with all-weather system
	100	of mass transport of goods and
		encourage industrialization,
		accelerating the regional development with passenger traffic of South and
e		Western region. This rail line
,		encourages the tourist activity. This
		project is helpful for development of
5)	Economic honefits due	small and medium scale industries.
رد	Economic benefits due to Compensatory afforestation.	The GC Railway line will provide facilities better connectivity for small
4	and column and column.	and medium scale industry, trade and
		employment to the population, hence
2		the overall economic activities will
Date: 07 0		improve.

Date: 07.04.2022

Place: AKOLA.

(P. SIVARAM)

South Central Railway, Akola

निर्माण/द.म.रे./अकोला Deputy Chief Engineer Construction S.C.Rly., Akola