

WORKSHEET FOR CALCULATION OF COST BENEFIT RATIO

COST (Evaluation of loss of Forest)

Sl. No.	Parameters	Quantity	Rate	Amount (Rs. Cr.)
1	Loss of Value of Timber, Fuel Wood and Minor Forest Produce on an annual basis including loss of man hour per annum of people who derived livelihood and wages from harvest			
	(A) Trees as per inventory	4066	2500	1.0165
	(B) Fuel Wood/Shrub	575	500	0.02875
2	Loss of Animal Husbandry, productivity	0	0	0
3	Loss of Fodder	0	0	0
4	Loss of Human Resettlement			132
5	Loss of Public Facility & Administrative Infrastructure etc. (Roads, Buildings, School, Utility)			33
6	Environmental Loss (Soil Erosion, Effect on Hydrological Cycle, Wildlife Habitat, Micro climate change etc.)			
	A) Moderate Dense Forest	3.30	1043000	0.3443986
	B) Open Forest	64.83	1043000	6.7616647
	C) Degraded Forest	27.90	730000	2.036554
7	Project Cost			660
TOTAL				835.1878673

BENEFITS (Evaluation of Benefits)

Sl. No.	Parameters	Details of Calculations		Amount (Rs. Cr.)
1	Economic Improvement in the Project districts considering 15% enhanced growth rate in the GDP against normal benefit will be for 5 years at enhanced rate of 15% and growth rate due to the project. This 10 years for enhanced 5% rate (Current GDP of the state @ 14,000 Crore / annum in 2014-15)	1083302.719		10833.02719
2	Benefits on vehicle operation & maintenance cost due to improvement of the project Road	220.48 cr. X 30		6614.4
3	Employment Potential - Construction			
	Skilled Labour	500 x 600 x 365 x 3	328500000	32.85
	Semi-skilled Labour	250 x 350 x 365 x 3	95812500	9.58125
	Technical People	80 x 2000 x 365 x 3	175200000	17.52
4	Employment Potential - Maintenance			
	Skilled Labour	50 x 600 x 365 x 30	328500000	32.85
	Semi-skilled Labour	25 x 350 x 365 x 30	95812500	9.58125
	Technical People	8 x 2000 x 365 x 30	175200000	17.52
TOTAL				17567.32969
COST BENEFITS RATIO:				
				835.1878673 / 17567.32969
				1 / 21.03398573