COST BENEFIT ANALYSIS

PROJECT COST	1	Rs.253.00Crore Approx	ζ.	
ENVIRONMENTAL and SOCIAL		The cost particulars are a		
COST		Item of Description	Estimated Cost in Rs.Crore	Remarks
		Evaluations of loss Timber Fuel Minor Forests Produce Mandays Expectation or Potential Value of Soil for Forest in Revenue Land	5.00	The timber extracted will be retained by FD. The loss is estimated based on the incremental yield
		Loss Value of Fodder (Grass)	0.50	
		Cost of Human Re- Settlement	Nil	
		Loss of Public Facilities and Administrative Infrastructure	Nil	
		Valuation of Environmental Losses	10.00	
		Suffering to Oustees	Nil	
		Total	15.50	
BENEFITS FROM PROJECT				·
a) Capacity of Line (Power transfer capacity) (500MW per circuit of 400KV Transmission Line)	*	1000 MW		
b) Load Factor	30	80%		
c) Line Loss	:	2.5%		
d) Line Availability	:	97.5%		
e) Average cost of energy transfer per unit	:	Rs. 0.2 per KWH		
f) KWH per year	1	$1000 \times 1000 \times 0.80 \times 24 \times 365 \times 0.975 \times 0.975 =$ $6661980000 \text{ KWH/Year}$		
g) Transmission Charges/cost of supply per year	:	0.20 x6661980000 = Rs.1332396000		
h) Transmission charges against power transfer in 50 years	•	6661.98 Cr.		
Net benefit from Transmission system in 50 years		6661.98 Cr		
COST BENEFIT RATIO (CB RATIO)		255/6661.98 = 0.0383	}	

The benefit from these Transmission line is more than Rs. 133.2396 Cr per year to the Nation or Rs. 6661.98 Cr. in fifty years if flow of power is continued through this transmission system whereas the cost of project including the compensation against forest area involved and also interest during construction and other misc. expenditure is Rs.255 Cr which is very less as compared to profit from this Transmission Line Project. So pay back to period of the project is 2 years. The rest of the period is the profit which is added to the national income.

CHIEF ENGINEER
PROJECTS - II, TSTRANSCO,
VIDYUT SOUDHA, HYDERABAD