Cost Benefit Analysis

Cost of Project:

1.5 Crores Approx.

1. Benefits from Project:

a. Capacity of Line (Power transfer capacity):

33 MW

b. Load Factor:

21%

c. Line Loss:

2.5%

d. Line availability:

97.5%

e. Average Cost Energy transfer per unit:

INR 5.67/kWh

f. kWh per year:

143*1000*0.21*24*365*0.975*0.975 = 250074074

g. Transmission charges/cost of supply per year:

5.67*250074074 = 141792001

h. Transmission charges against power transfer in 25 years

1417920001* 50 = 3545 Crores

i. Cost Benefit Ratio (CB RATIO):

100/3545 = 0.28

The benefit from this Transmission line is more than Rs. 1.5 Cr per year to the Nation or Rs. 75 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 miscellaneous expenditure is Rs.1.5 Cr which is very less in compared to profit from this Transmission Line Project. So payback period of the project is 5 years. The rest of the period is the profit which is added to the national income.

Divisional Engineer

Construction, Nizamabad

nivisisfol Engineer

"COUNTERSIGNED"

Superintendent Engineer

Operation, Nizamabad