

COST BENEFIT ANALYSIS

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	A. BENEFITS DUE TO ADDITIONAL SALE OF ENERGY ON ACCOUNT OF INSTALLATION OF 132/33 KV SUB-STATION AT R Udayagiri	-
1	Additional power available for sale on account of establishment of new 132/33 KV Sub-Station at R. Udayagiri with 2X 20.0 MVA transformers in MW	25.20
2	Load factor	0.60
3	Additional energy available for sale in LU	1324.51
4	With 3.8% transmission losses in the Grid, the energy available for sale per annum in LU	1274.18
5	Anticipated revenue at a cost of Rs.0.25/ Unit in Lakhs	318.55
	B. BENEFITS OF THE SCHEME DUE TO REDUCTION IN LOSSES	-
1	Total losses before implementation of the scheme	279.90
2	Total losses after implementation of the scheme	279.42
3	Total reduction in losses	0.48
4	Load factor	0.60
5	Loss load factor ($0.8 LF^2 + 0.2 LF$)	0.41
6	The energy available for sale per year in LU	17.16
7	With 3.8% transmission losses in the Grid, the energy available for sale per annum in LU	16.50
8	Anticipated revenue due to reduction in losses in lakhs	35.81
	C. CALCULATION OF REVENUE RETURN	
1	Anticipated revenue due to reduction in losses [Rs.]	35.81
2	Anticipated revenue due to sale of additional energy [Rs.]	318.55
3	Total anticipated annual revenue [Rs.]	354.36
4	Project Cost	3132.22
5	Average Annual Rate of Return in %	11.31


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