Computation of Benefit to Cost Ratio (BCR)

Establishment of 1x12.5 MVA, 66/11KV Substation at Kunur in Kanakapura Taluk, Ramanagara Dist

1	Estimated cost	Lakh	822.65
2	Annual Energy Savings	MU	1.262
3	Cost of Energy per unit	Rs	5.34
4	Proposed addition of the capacity	MVA	12.5
5	Energy sale per MVA per year for 30 years	MU	9.5488
6	% load growth of the area	%	4
7	Additional energy available for sale (item 4 x 5)	MU	119.36
8	Present Transmission charges	Rs	0.33
9	Transmission charges for sale of additional energy (Lakhs	393.89
,	Item No 8 x 7 x 10)		
10	Cost of Annual Energy savings due to loss	Lakhs	67.39
10	reduction (2x3x10)		
11	Total cost of savings due to reduction in losess +	Lakhs	542.83
	cost of transmission charges for sale of additional		
	energy		
12	Net present value (Item No 9+ 11)	Lakhs	936.72
13	Annual O & M charges expenses @ 1% of item	Lakhs	8.23
13	No 1		
14	Present value of Annual O & M exprenses over a	Lakhs	66.26
14	project period of 30 years (13x8.055)		
	Total investment + present value of O & M	Lakhs	888.91
15			1.06
16	Benefit to cost ratio		

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