

Samartha SSK

P R O F O R M A

Sr. No	TECHNICAL DATA	SEASON	OFF SEASON
1	Crushing capacity Licensed.	2500TCD	--
2	Crushing capacity Actual	3500TCD	--
3	Crushing capacity considered for Cogen project (Average of last 5 years)	160 TCH	--
4	Boiler parameters-Pressure ata/Temp0c/TPH (Existing)	87kg/cm2 515+5 0c, 95TPH	--
5	Boiler parameters-Pressure ata/Temp0c/TPH (Existing)	87kg/cm2 515+5 0c, 95TPH	--
6	T.G. Set Type & capacity (Existing)	Double extraction cum condensing Turbine 18MW	--
7	T.G. Set Type & capacity (Existing)	Double extraction cum condensing Turbine 18MW	--
8	Operating days	160	95
9	Steam requirement TPH (Existing)	94.03	71.28
10	Steam consumption % on cane for sugar (Existing)	43.1	--
11	Steam to HP Header TPH.	8.63	6.78
12	Steam requirement to Distillery TPH (Existing)	6 MT	6 MT
13	Steam required to dearator TPH (Existing)	2.15	6.85
14	Steam through condenser TPH	9.4	51.79
15	Topping cycle efficiency % (>45%)	45.69%	--
16	Thermal use % (>20%)	76.25%	--
	FUEL UTILIZED	SEASON	OFF SEASON
1	Ratio of bagasse to steam (Existing)	2.2kg.steam/kg.bag.	--
2	Bagasse production % cane & TPH Biogas Equivalent Bagasse cane trash Total Bagasse production MT	29.85% 47.76 TPH 183398 MT.	--
3	Bagasse used during season % cane/TPH Total Bagasse used, MT	23.85% 38.15 TPH 146496 MT	--
4	Bagasse saved % cane & MT	5.20%	32000 MT
5	Bagasse used during off season TPH/Total Qty. MT.	--	28.92 TPH 66000 MT
6	Alternate fuel used During season TPH/Total Qty MT 1) Boigas- 2) Cane Trash	Yes --	Bagasse available from Sagar S.S.K.

..2..

	POWER BALANCE	SEASON	OFF SEASON
1	Specific steam consumption/kwh/8ata/2.5ata	7.5/5.5/3.5	7.5/5.5/3.5
2	Power generation MW/MUS	18MW 69.12MUS	18MW 41.04MUS
3	Captive Power MW/MUS	4.73MW 18.16MUS	1.44MW 3.28MUS
4	Power Export MW/MUS	12.92MW @ 85% 42.17MW @ 90% 44.65MW	16.56MW @ 85% 32.09MW @ 90% 33.98MW

Sr.No	Financial Data	
1	Cogen Project Cost Rs.	77.62 Cr.
2	Modernization project cost Rs.	N.A.
3	Total project Rs.	77.62Cr.
4	Capital cost per MW with modernization	--
5	Capital cost per MW without Modernization	4.31 Cr.
6	Production Cost Rs./Unit.	Rs.2.13
7	Cost of Steam for Distillery Use Rs./MT Total Cost Rs. Cr.	Rs.400MT, Bagasse rate Rs.559/MT Rs.0.78 Cr.
8	Cost of Electricity for distillery use Rs/unit Total Cost Rs.Cr.	Rs.4.60 unit Rs.0.28 Cr.
9	Tariff considered Rs./Units.	3.05
10	Total revenue/Cash accrual (Rs.Cr.) 1 st year 2 nd year 3 rd year 4 th year 5 th year.	25.30 27.11 27.60 28.17 28.61
11	Debit : Equity K. Cr.	56.44
12	Equity 5% SSK	3.88
13	Equity 5% State Govt.	3.88
14	SDF (36.46%)	26.14
15	FI/Bank (53.54%)	43.72
16	IRR(%)	18.82
17	DSCR (Average)	2.17
18	Break Even(%)	47.35
19	Pay back period	5 Years & 1 month.