

**ASHOK SAHAKARI SAKHAR KARKHANA LTD., ASHOKNAGAR,
TAL.SHRIRAMPUR, DIST.AHMEDNAGAR [MAHARASHTRA]**

15 MW Co-generation Project

Sr. No.	TECHNICAL DATA	SEASON	OFF SEASON
1.	Crushing capacity licensed	2800 TCD	--
2.	Crushing capacity Actual	2800 TCD. Endorsed	--
3.	Crushing capacity considered for Co-generation Project (Average of last 5 Years)	3000 TCD.	
4.	Boiler parameters Pressure ata/Temp Oc /TPH (Proposed)	87 Kg/Cm ² 515 ^o c / 80 TPH	87 Kg/Cm ² 515 ^o c / 80 TPH
5.	Boiler parameters Pressure ata/Temp Oc/TPH (Existing)	21 ata/320 ^o c / 80 TPH [Four Boilers]	80 TPH [25+25+15+15] TPH Boilers
6.	T.G. set Type and capacity (Existing)	Back pressure 2.5 M.W.	--
7.	T.G. Set Type & capacity (Proposed)	DECC Type 15 MW.	DECC Type 15 MW.
8.	Operating days	160 days	83 days.
9.	Steam requirement TPH(Existing)	65 TPH	5 TPH (Distillery)
10.	Steam consumption % on cane for sugar (Existing)	50%	--
11.	Steam to HP Header TPH	8.0 TPH	6.15 TPH
12.	Steam requirement Distillery TPH (Existing)	5.0 TPH	5.0 TPH
13.	Steam required to dearator TPH (Existing)	4.00 TPH	4.31 TPH
14.	Steam through condenser TPH	8.05 TPH	46.05 TPH
15.	Topping cycle efficiency % (>45%)	45.41	--
16.	Thermal use % (>20%)	Yes	--
	Fuel utilized	Season	Off season
1.	Ratio bagasse to Steam (Existing) / Proposed	2.00 / 2.48	2.48
2.	Bagasse production % cane & TPH Biogas Equivalent Bagasse cane trash Total Bagasse production MT.	29% on cane (Avg) 39.55 TPH 139200 MT.	-- --
3.	Bagasse used during season % cane /TPH Total Bagasse used M.T.	23.65 % 39.55 TPH 113555 MT.	-- --
4.	Bagasse saved % cane & MT.	5.34 / 25645 MT.	--
5.	Bagasse used during off season TPH /Total Qty. MT.	--	24.80 TPH 49154 MT.
6.	Alternate fuel used During season TPH/Total Qty MT. 1) Biogas 2) Cane Trash	-- -- 11355MT	-- -- 2565 MT.
	POWER BALANCE	SEASON	OFF SEASON
1.	Specific steam consumption /kwh/8 ata/2.5 ata	5.40 Kg/KW	4.10 Kg/KW
2.	Power generation MW/MUS	14.81 MW/52.13 Mu's	15 MW/29.88 Mu's.
3.	Captive Power MW/MUS	5.43 MW/ 19.12 Mu's	2.22 MW/4.42 Mu's
4.	Power Export MW/MUS	9.38 MW/ 33.02 Mu's	12.78 MW/25.46 Mu's

[D-MS-Co.gen.A4[103]

Sr. No.	Financial Data		
1.	Co-generation project Cost Rs.	70.52 Crorer	
2.	Modernization project cost. Rs.	19.21 Crorer	
3.	Total Project Rs.	90.23 Crorer	
4.	Capital cost per MW with modernization	6.01 Crorer	
5.	Capital cost per MW without Modernization	4.70 Crorer	
6.	Production Cost Rs. /Unit.	3.22	
7.	Cost of Steam Distillery Use Rs. MT Total cost Rs. Cr.	N.A.	
8.	Cost of Electricity for Distillery use Rs/Unit Total Cost Rs..	N.A.	
9.	Tariff considered Rs./Unit	Rs. 4.79/KWH.	
10.	Total payment Cash accrual (Rs. Cr.)		
	1 st. year	36.54 Crorer	
	2 nd Year	37.94 Crorer	
	3 th Year	39.34 Crorer	
	4 th year	39.34 Crorer	
	5 th Year	39.34 Crorer	
11.	Debit Equity	57.43	
12.	Equity 5% SSK.	3.53 Crorer	
13.	Equity 5% State Govt.	3.53 Crorer	
14.	SDI (40.46%)	29.67 Crorer	
15.	FI/Bank (53.54% }	51.54 Crorer	
16.	IRR(%)	25.02	
17.	DSCR (Average)	2.20	
18.	Break Even(%)	42.74	
19.	Pay back period	4 to 5 years	