**Vasntrao Dada Patil Sahakari Sakhar Karkhana Ltd; Vithewadi (Lo.)**
**Tal.:- Deola Dist Nashik**

| Sr. No. | TECHNICAL DATA | SEASON | OFF SEASON |
|---|---|---|---|
| 1 | Crushing capacity licensed | 2500 TCD | |
| 2 | Crushing capacity Actual | 3800 TCD | |
| 3. | Crushing capacity considered for Co-gen. project (Average of last 5 years) | 3800 TCD | |
| 4 | Boiler parameters-Pressure ata/Temp Oc/TPH (New Installed) | 90 TPH/ 87 Kg/$Cm^2$ bar with 515°C | |
| 5 | Boiler parameters-Pressure ata/Temp Oc/TPH (Existing) Back pressure route | 20+20+35 = 75 M/Hr./ 21 Kg F/Cm2 380 °C Temp. | |
| 6 | T.G. Set Type & capacity (New Installed) | i) 5 MW T.G. Set Back pressure M/s. Triveni Engineering make<br>ii) 12 MW T.G. Set DEC Condensing Cum Extraction M/s. Triveni Engineering make | |
| 7 | T.G. Set Type & capacity (Existing) | i) 2.5 MW Back pressure M/s. Triveni Engineering make<br>ii) 1.5 MW Back pressure M/s. Triveni Engineering make | |
| 8 | Operating days | 160 days (Season) | 97 days(Off-season) |
| 9 | Steam requirement TPH (Existing) | 70 TPH | N.A. |
| 10 | Steam consumption % on cane for sugar (Existing) | 43% ON CANE | |
| 11 | Steam to HP Header TPH. | 1.5 Ton/Hrs. | |
| 12 | Steam requirement to Distillery TPH (Existing) | Separate Boiler 3.5 Ton/hrs,. | |
| 13 | Steam required to dearator TPH (Existing) | 0.5 Ton /Hrs. | |
| 14 | Steam through condenser TPH | 13.00 Ton/Hrs. | 38 Ton/hrs. in off season. |
| 15 | Topping cycle efficiency % (>45%) | >45% (45.78%) | |
| 16 | Thermal use % (>20%) | >20% (77.50%) | |

| | FUEL UTILIZED | SEASON | OFF SEASON |
|---|---|---|---|
| 1 | Ratio of bagasse to steam (Existing) | 2.48 (1 Kg.Bagasse = 2.48 Kg/Steam) | 2.49 (1 Kg.Bagasse = 2.49 Kg/Steam) |
| 2 | Bagasse production % cane & TPH<br>Biogas Equivalent Bagasse cane trash<br>Total Bagasse production MT (160 Days) | 30.34%<br>Bagasse Production 48.67 Hrs.<br>1,86,895 M.T. | Save Bagasse 44,805 M.T. Per season. |
| 3 | Bagasse used during season % cane/TPH<br>Total Bagasse used, M.T. Total :- | 23.28%<br>**1,37,898 M.T.** | Total Save Bagasse<br>**44,805 M.T.** |
| 4 | Bagasse saved % cane & MT | 7.06% | - |
| 5 | Bagasse used during off season TPH/Total Qty MT | - | 19.16 MT/Hrs.<br>44805 MT/ Off Season.(97 days) |
| 6 | Alternate fuel used During season TPH/Total Qty. MT 1) Biogas<br>2) Cane Trash | N.A.<br>May cane Trash/ Biomass will use | N.A.<br>May cane Trash /Biomass will use |

| | | | |
|---|---|---|---|
| > | **POWER BALANCE**<br>**At 100% PLF** | SEASON | OFF SEASON |
| 1 | Specific steam consumption /KWH/8ata/1.5 ata (+ 1.5 & - 1.5) | 3.98 Kg/MW | 3.98 Kg/MW |
| 2 | Power generation MW/MUS | 17 MW/65.28 Mus | 12 MW/27.93 Mus |
| 3 | Captive Power MW/MUS | 17 MW/18.43 Mus | 12 MW/2.76 Mus |
| 4 | Power Export MW/MUS | 17 MW/46.85 Mus | 12 MW/27.17 Mus |
| | Total Export | **72.02 Mus (Season) – 100% PLF** | |
| > | **At 85% PLF** | | |
| 1 | Specific steam consumption /KWH/8ata/1.5 ata (+ 1.5 & - 1.5) | 3.98 Kg/MW | 3.98 Kg/MW |
| 2 | Power generation MW/MUS | 17 MW/61.22 Mus | 12 MW/23.77 Mus |
| 3 | Captive Power MW/MUS | 17 MW/18.43 Mus | 12 MW/2.76 Mus |
| 4 | Power Export MW/MUS | 17 MW/42.79 Mus | 12 MW/27.01 Mus |
| | Total Export | **63.80 Mus (Off Season) 85% PLF** | |