

|                                                                                   |                           |
|-----------------------------------------------------------------------------------|---------------------------|
| d) Cooling water flow                                                             | 2962 m <sup>3</sup> /hr   |
| e) Generated Voltage Level                                                        | 11 KV                     |
| f) Circulating cooling water temperature at inlet and outlet to condenser, Deg. C | Inlet 32°C<br>Outlet 40°C |
| g) Maximum continuous Rating (MCR) of Turbine                                     |                           |
| h) Frequency                                                                      | 50 Hz                     |
| i) Speed                                                                          | 6827 RPM                  |

| SR. NO. | POWER BALANCE                               | DETAILS            |
|---------|---------------------------------------------|--------------------|
| 1       | Specific steam consumption/kWh/8ata/2.5 ata | 6.25 KWH           |
| 2       | Power generation MW / MUS                   | 12 MW / 36.36 MUS  |
| 3       | Captive Power MW / MUS                      | 4.1 MW / 14.26 MUS |
| 4       | Power Export MW / MUS                       | 7.9 MW / 22.10 MUS |

| SR. NO. | FUEL UTILIZED                                                      | DETAILS |
|---------|--------------------------------------------------------------------|---------|
| 1       | Type of Biomass:<br>i) Agro Industrial Residue<br>ii) Agro residue | N.A.    |
| 2       | Quantity of Biomass<br>i) Daily (Tones)<br>ii) Yearly (Tones)      | N.A.    |
| 3       | Cost of Biomass at site (Rs. Per ton)                              | N.A.    |
| 4       | Proposed biomass storage facility                                  | N.A.    |
| 5       | Biomass Collection Mechanism                                       | N.A.    |
| 6       | Supplementary (fossil) fuel (%)                                    | N.A.    |



Chief Accountant  
Siddhanath Sugar Mills Ltd., Tirhe, Tal-North Solapur, Dist-Solapur

Chief Engineer  
Siddhanath Sugar Mills Ltd., Tirhe, Tal-North Solapur, Dist-Solapur



## Siddhanath Sugar Mills Ltd.

FACTORY : At Post Tirhe, Tal. North Solapur, Dist. Solapur, M. S., India  
Ph.: 91 217 - 2283722, Fax : 0217 - 2743270

LATE - BRAHMDEV K. MANE (E & ALA & M.C.)  
FOUNDER

DILIP B. MANE  
CHAIRMAN & MANAGING DIRECTOR

Date : \_\_\_\_\_

| SER. NO. | FINANCIAL DATA                       | DETAILS      |
|----------|--------------------------------------|--------------|
| 1        | Biomass Power Project Cost Rs.       | 5119.00 Lacs |
| 2        | Fixed:                               |              |
|          | a) Interest on project               | 218.16 Lacs  |
|          | b) Working Capital                   | 96.00 Lacs   |
|          | c) Depreciation                      | 181.80 Lacs  |
|          | d) O & M Expenses                    | 472.68 Lacs  |
| 3        | Variable :                           |              |
|          | a) Biomass collection Cost           | 1672.56 PMT  |
| 4        | Capital Cost pre MW without          | 427.00 Lacs  |
|          | a) Per ton Biomass Collection        | 1672.56 PMT  |
|          | b) O & M on Project                  | 472.68       |
| 5        | Production Cost Rs. /Unit            | 7.00         |
| 6        | Tariff considered Rs. /Unit          | 4.79         |
| 7        | Total revenue/Cash accrual (Rs. Cr.) |              |
|          | 1 <sup>st</sup> year                 |              |
|          | 2 <sup>nd</sup> year                 |              |
|          | 3 <sup>rd</sup> year                 |              |
|          | 4 <sup>th</sup> year                 |              |
|          | 5 <sup>th</sup> year                 |              |
| 8        | Debit : Equity                       |              |
| 10       | Equity 5% Own                        | 768.00 Lacs  |
| 11       | Equity 5% State Govt.                | N.A.         |
| 12       | SDF (8.80%)                          | 450.88 Lacs  |
| 13       | FI Bank (76.2%)                      | 3900.12 Lacs |
| 14       | IRR (%)                              | 33.26        |
| 15       | DSCR (Average)                       | 2.17         |
| 16       | Break Even (%)                       |              |
| 17       | Payback period                       | 5 years      |



Chief Accountant

Siddhanath Sugar Mills Ltd., Tirhe, Tal-North Solapur, Dist-Solapur

General Manager



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LATE - BRAHMDEV K. MANE (D. M. A. & M. C.)  
FOUNDER

DILIP B. MANE  
CHAIRMAN & MANAGING DIRECTOR

Ref: SSML/Eagg/Cogen/ 983 /2012-2013

Date: 11/12/2012

| SR. NO. | TECHNICAL DATA                                                                         | DETAILS                                                                        |
|---------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 1       | Boiler parameters-Pressure ata/Temp. $^{\circ}$ C/TPH (Existing)                       | Pres.: 67 Kg/cm <sup>2</sup><br>Temp.: 515 <sup>o</sup> C<br>Capacity:- 75 TPH |
| 2       | T.G. Set Type & capacity (Existing)                                                    | Double Extraction<br>cum condensing,<br>Cap:- 12MW                             |
| 3       | Operating days for Season 2011-2012                                                    | 184                                                                            |
| 4       | Steam requirement TPH (Existing)                                                       | 75 TPH                                                                         |
| 5       | Steam to HP Header TPH,                                                                | N.A.                                                                           |
| 6       | Steam required to deaerator TPH (Existing)                                             | 2 to 3 TPH                                                                     |
| 7       | Steam through condenser TPH                                                            | 10 to 12 TPH at 0.10 kg/cm <sup>2</sup>                                        |
| 8       | Type of water Tube/ Fuel Tube of Boiler                                                | Water Tube Boiler                                                              |
| 9       | If fluidized Bed Combustion indicates FBC/PFB boiler with model No.                    | N.A.                                                                           |
| 10      | Year of manufacture of Boiler                                                          | 2009                                                                           |
| 11      | Type of grate & grate area of Boiler                                                   | Dumping Grate<br>4295 sq.mm                                                    |
| 12      | Coal Consumption per month (Actual/ Envisaged as per design)                           | N.A.                                                                           |
| 13      | Turbine:                                                                               |                                                                                |
|         | a) Gross Heat Rate (with Calculations) of the Turbine Generator Cycle (in k Cal / kWh) |                                                                                |
|         | b) Inlet Steam Parameters                                                              | Pres. 67 kg/cm <sup>2</sup><br>Temp. 500 <sup>o</sup> c                        |
|         | c) Inlet Steam Quantity                                                                | 75 TPH                                                                         |

