

# MINI SUGAR PLANT SPECIFICATION

## SECTION-1 - CANE MILLING PLANT:

### 1. CANE CARRIER:

- 1(a) *First cane carrier*
- 1(b) *Rack carrier*

### 2. DRIVE FOR CANE CARRIER AND RAKE CARRIER:

- 2(a) *First cane carrier*
- 2(b) *Rake carrier*

### 3. CANE PREPARATION:

- 3(a) *Cane chopper*
- 3(b) *Fibrizer*
  - Drive for fibrizer

### 4. AUTOMATIC CANE FEEDING DEVICES:

### 5. MILLING PLANT

- 5(a) *Sugar Mills*
- 5(b) *Toothed under feed roller*
- 5(c) *Donnelly chute*
- 5(d) *Rake type intermediate carriers*
- 5(e) *Mill Drive*
- 5(f) *Mill Gearings*

### 6. IMBIBITION EQUIPMENT AND MIXED JUICE PUMP:

- 6(a) *Juice screening*
- 6(b) *Juice tanks and pumps*
- 6(c) *Imbition Water Pumping*

### 7. BAGASSE ELEVATOR AND CONVEYER:

- 7(a) *Bagasse elevator*
- 7(b) *Main Bagasse carrier*
- 7(c) *Return bagasse carrier*

## SECTION-2. CLARIFICATION PLANT:

### 8. *Juice Mass Flowmeter*

### 9. *Juice Heaters*

### 10. *Juice Sulphiter*

### 11. *Sulphited Juice Pumps*

### 12. *Sulphur Burners*

### 13. *Air Compressors*

### 14. *Milk of Lime Preparation Unit*

### 15. *Lime Pumps*

### 16. *Clarifier*

### 17. *Vacuum Filters*

**SECTION- 3. EVAPORATION & BOILING PLANT:****18. EVAPORATION UNITS****Triple Effect Evaporator Set**1<sup>st</sup> Body of TEE2<sup>nd</sup> Body of TEE3<sup>rd</sup> Body of TEE4<sup>th</sup> Body (spare for 3<sup>rd</sup> body)**19. Syrup Extraction Pumps****20. Syrup Tanks****21. Concentrators****22. Condensate bottles.****23. Crystallisers****SECTION-4. COOLING, CURING & GRADING SECTION:****24. Masecuite Pumps****25. Batch Centrifugal Machines****26. Pug Mill****27. Grass Hoppers****28. Sugar elevator****29. Sugar Grader****30. Sugar Weighing Machines****31. Molasses Pumps****EXCLUSIONS AND UNDER CLIENTS SCOPE:****1. FINAL MOLASSES STORAGE TANK (Under Client Scope):****2. HOT & COLD WATER TANKS (Under Client Scope):****3. SERVICE WATER PUMPS (Under Client Scope):****4. PRDS, PIPING, LAGGING (Under Client Scope)****5. STEAM GENERATING PLANT (Under Client Scope):**

- One water tube boiler of 15 tones per hour capacity.
- Boiler headers
- Super heater
- Furnace
- Induced draft fan
- Drive for induced draft fan for boiler
- Forced draft fan
- Blow down arrangements
- Soot blow equipment
- Instrument panel
- Economizer
- Air pre-heater:
  - (a) Fly ash arrester
  - (b) Chimney
  - (c) Boiler feed water tank
  - (d) De-aerator
  - (e) Boiler feed water pump
  - (f) Boiler feed water treatment plant

**6. POWER GENERATING PLANT (Under Client Scope):**

6.(a) One turbo alternator of 1250 KVA(1000 KW at 0.8 power factor) with synchronizing panel.

6.(b) Electrical distribution system

**7. CANE HANDLING AND FEEDING ARRANGEMENT (Under Client Scope):**

7.(a) Cane handling

7.(b) Feeder table

**8. CANE WEIGHMENT (Under Client Scope):**

**9. SUPPORTING STEEL STRUCTURE (Under Client Scope):**

**10. LABORATORY(Under Client Scope):**

**11. WORKSHOP (Under Client Scope):**

**12. MILL HOUSE CRANE AND GANTRY (Under Clients Scope):**

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