

Brief Discription of Machinery.

Group-1.

Cane Handling Plant.

This will include :- Cane Unloader, Truck Tripler for unloading & feeding. The cane from the Truck etc. to Cane Carrier.

- **Suitable Cane feeder table for feeding the cane.**
- **Suitable cane carrier with suitable loading Horizontal length and driving arrangement.**
- **Suitable Cane Kicker with Dyno Drive system to push back the over fed cane.**
- **Suitable cane chopper /cane cutter with driving system for chopping the cane.**
- **Suitable Swing type Hammer type Fibrizor with drive.**
- **Suitable Belt Conveyor from fibrizor to Ist Mill and intermediate rack cane carriers in between each mill.**
- **Suitable Automatic cane feeding device for uniform feeding to first mill with provision to change the feed at any time, with interlocking system for carriers and rack cane carriers.**

Milling Plant.

A number of Roller Mills, each mill having grooved under feed rollers with donnelly type chute, & GRPF on Ist & Last mill and T.R.P.F. on the Intermediate Mill.

The Mill will be driven by D.C. motor of suitable HP/KW so as to achieve the desired speed of the mill at 80% of the drive.

Juice Screening and Imbibition equipment.

One lot of Juice Rotary Screens/Vibro screens, Juice Pumps, Whirler tanks, water meter for measuring Imbibition water with cold & hot water Line & Valves.

Mill Lubrication system – Suitable mill lubrication system.

Mill House Crane & Gantry.

Three motion electrically operated Crane with gantry.

Group-II.

Juice Clarification Plant. - This will include of suitable capacity :-

- Juice weighment system.
- Weight Juice check system
- Tubular Multi pass Juice Heaters
- **Juice Sulphiter** / Defecator with receiving tanks
- Milk of Lime Preparation Unit will include Lime Slaker, Koran grit classifier with Screw Conveyor, M.O.L. Storage Tank with Pumps, Vibro Screens for removing the fine grit from MOL.
- **Suitable capacity Sulphur Burners and air blower with air dehumidification system for the production of Sulphur Dioxide Gas.**
- Suitable capacity Continuous Clarifier – 444, with Juice Columns and Pumps etc.
 - Rotary Vacuum Filter with Mud belt conveyer and other accessories and Bagacillo conveying system.

Syrup Sulphiter

Group-III.

Evaporation & Boiling Plant.

- One set of double effect plus quadruple effect Evaporator system complete with Vacuum Condensate and syrup Extracting system.
- i) Suitable capacity Batch and Continuous Pan for Boiling of 'A', 'B' & 'C' Masecuite for the production of white sugar / raw sugar. **Batch type pan** will be equipped with Mechanical Circulator with driving system, Vacuum system Condensate Extraction etc.
- ii) In addition to the above Batch type pan with Mechanical Circulator for Boiling of Refined Masecuite with Vacuum system.
- Syrup & Molasses Storage tanks for refined Molasses.
- Vacuum Crystallizer and Air Cooled Crystallizers for White Sugar production
- Mono Vertical & Twin Vertical Continuous Crystallizers.

Centrifugal Machine & Accessories.

- Of suitable capacity of **Batch type of 1500 kgm/charge** and Continuous Centrifugal Machine of 10-12 Tons/hour capacity with Sugar Conveyor, Pug Mill, Magma Mixer etc.
- Suitable sugar Fluid bed drier with hot & cold air blower.

Injection & Cooling system.

- Suitable capacity Injection Pump for meeting the water requirement of various condensers.
- Suitable capacity spray pumps with condenser water cooling arrangement by cooling Tower system.

General Items.

- Sugar Melters
- Super heated wash water system with Auto Control
- Pug Mill, Magma Mixer and transient heaters for Continuous centrifugals.
- Cold and hot water storage tank
- Final Molasses storage tank

- **Intermediate Molasses dilution/Conditioner tanks**
- **Water tube well**
- **Final Molasses weighing system**
- **DM water plant for Boilers**
- **Diesel generating set.**

Group-IV

Steam generating and Power Plant.

- Two Nos. Steam Generating Multi fuel Boilers of 60 Tons each at 45 Kgm/cm² pressure.
- Furnace type – Dumping grate
- Rotary Bagasse Feeder
- Induced draft Fan with variable speed.
- Forced Draft fan with drive
- Blow down & soot blowing arrangement
- Instrument Pannel
- Economiser & pre air heater with S.A Fan
- Feed Water Pumps Electric/ Turbo feed pump with feed tank
- Fly ash arrestor
- RCC Chimney (Purchaser scope)
- One Lot De- super heating unit from 45 kgm/cm² to 7 kgm/cm² And afrom 7 kgm to 7 kgm/hr.

Power Generating Plant.

- 2 Nos. Turbo Alternator set of 5 M.W. each suitable for 42/45 kgm/cm² inlet steam pressure.
- Main Pannel with ACB
- Electrical distribution system

Other Misc. Items.

- One Lot - Pipe Line & fittings
- The scope of supply will include necessary pipe line suitable for required capacity.
- One Lot - Necessary M.S. Fabricated staging.

LAND.

Tentative requirement of Land is 120 Acres.

