

## Capacity Calculation Cane Sugar Plant

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**Capacity Calculation Cane Sugar Plant**

The raw sugar that is produced from these juices is later refined into white granular sugar. As a sugarcane plant matures throughout the growing season, the amount of total sucrose in the cane increases. Of SUGAR PLANT CANE CRUSHING CAPACITY 5000 TCD ... Sugar, being a seasonal industry, should use the plant capacity 100 per cent and above.

**Capacity Calculation Cane Sugar Plant**

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Crushing rate = 210 TCH and juice %cane = 120%, calculate the capacity of Rapi-Dorr. Juice flow rate = 210 x 120% = 252 T/hr = 252 / 1.06 = 238 M 3 /hr. Holding volume of the clarifier = V = 238 x 2.5 = 595 M 3

**Sugar Factory Clarification Section Capacity Requirement---**

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**Capacity Calculation Cane Sugar Plant+glasatelieringe**

"GUIDELINES" TO SPECIFICATIONS OF CANE SUGAR PLANTS CAPABLE OF CRUSHING 2500 TONNES OF CANE PER DAY AND SUITABLE FOR EXPANSION TO 5000 TONNES OF CANE PER DAY TO PRODUCE DIRECT CONSUMPTION WHITE PLANTATION SUGAR

**2500 and 5000 tcd plant – Sugar Mill Calculations**

Application of Crystallizers in Sugar Industry | Crystallizer Capacity Calculation. Example: Crushing Capacity of the plant = 230 TCH "A" massecuite%cane = 25 to 30% "B" massecuite%cane = 12 to 13% "C" massecuite%cane = 6 to 8% " A" Massecuite Quantity = 230 x 30% = 69 T/hr " B" Massecuite Quantity = 230 x 13% = 30 T/hr

**Capacity Calculation of Pan Section in Sugar Industry---**

Mill Capacity Calculations. There are a large number of formulae for the calculation of the capacity of a milling tandem. Hugot gives the following formula: A = 0.9 c-n ?N-(1-0.06-n-D)-L-D 2 .f. where

**Sugar – Milling Tandem Capacity**

specifications of 5000 tcd cane sugar sulphitation sugar plant expandable to 7500 tcd specifications of crushing 5000 tonnes of cane per day and suitable for expansion to 7500 tonnes of cane per day to produce direct consumption white plantation sugar

**5000tcd plant specifications – Sugar Mill Calculations**

By using a Cuttergrinder you can calculate the Fiber% in the cane. After that, you can calculate POCS = { 3P/2(1-(F+5)/100) } – {B/2(1-(F+3)/100))} like wise, POCS almost equal for CCS

**How to calculate Sugar Recovery, Brix and Pulp Percentage---**

SPECIFICATION OF 3500 TCD PER 22 HRS.BASIS GRAVITY FLOW TYPE CANE SUGAR LANT WITH A PROVISION FOR EXPANSION OF CAPACITY UPTO 5000 TCD PER 22 HRS. BASIS WITH 16 MW CO-GENERATION FOR PRODUCTION OF PLANTATION WHITE SUGAR PROCESS.

**SPECIFICATION OF 3500 TCD PER 22 HRS.BASIS GRAVITY FLOW---**

The factory capacity in tonnes cane per hour [t/h] or tonnes fibre per hour [t/h] used in the calculations to prepare this data is the nominal capacity of the factory, not the design capacity nor the maximum capacity nor current actual capacity, but the estimated normal capacity.

**Sugar – Equipment Sizing**

It is from 35 meters (110 ft) to 52 meters (170 ft) long; the cross section is rectangular and diffusers of differ- ent capacities are made in different widths. The conveyor grids and screens are supported by two outboard type roller chains with a pitch of about 3 feet. These chains are supported at the extreme ends by sprockets.

**DSEC Sugar Cane Diffusion –dsengineers.com**

The Proposed water consumption in the sugar plant including power generation after expansion shall be 3720m3/day. Of this total water requirement of 3720 m3/day, about 3500 m3/day shall be met from the cane juice of sugar plant and the balance requirement of 220m3/day shall be drawn from River Malaprabha/ Ghataprabha. The land requirement is 6.34 Hectares (15.66 Acres) & the land is already in possession of the company.

**OF SUGAR PLANT CANE CRUSHING CAPACITY 5000 TCD---**

Refinement of the direct combustion cogeneration system can yield electricity generation rates of 120 kWh per ton cane, compared to typical factory performance of about 10 to 20 kWh/t of cane (tc) worldwide.

**Developments in co-generation in sugar mills –EE Publishers**

To make the venture commercially viable and financially profitable, the capacity of the sugar plant is decided and fixed at 3500 TCD (expandable to 5000 TCD) and a cogeneration plant of 20 MW.

**DETAILED PROJECT REPORT (DPR) INTEGRATED SUGAR (3500 TCD---**

Sugarcane weighs 0.272 gram per cubic centimeter or 272 kilogram per cubic meter, i.e. density of sugarcane is equal to 272 kg/m³. In Imperial or US customary measurement system, the density is equal to 17 pound per cubic foot [lb/ft³], or 0.157 ounce per cubic inch [oz/inch³]. Also known as: Sugarcane (bulk).

**Sugarcane volume to weight conversion – Aqua-Cale**

when Crystallization and Drying, it will becomen to Dark Brown sugar and Red Brown sugar or Golden Yellow granular Brown sugar. Capacity 10-1000TCD. Machine list. Cane Tandem Crusher 3roller & 5 roller. Juice Clarifier. Juice Heater. Juice Mixing Drum. Lime Preparation Tank. Lime Slaker. Juice Screen Filter. Juice Boiling Pan