

DETAIL SUMMARY Of 5000 TCD SUGAR PLANT, 35 MW CO-GENERATION POWER PLANT & 80 KLPD MOLASSES BASED DISTILLERY UNIT , AT VILLAGE SELU, PO - JATEGAON, TEHSIL GEVARAI, DISTRICT BEED, MAHARASHTRA

Introduction;

Pingale Sugar & Agro Products Private Ltd. (PSAPPL) is a Company registered in the State of Maharashtra under the Companies Act, 1956.

PSAPPL proposes to set up an integrated new sugar mill of 5000 TCD, eco-friendly 35 MW capacity cogen power project for decentralized generation of exportable surplus power, mainly from renewable sources of fuel, located near village Selu, 25 km from Gevarai, which is Taluka headquarter.

The proposed unit is located at village Selu, PO Jategaon, Taluka Gevrai, District Beed, Maharashtra.

PSAPPL, also proposes to set up a 80 KLPD capacity ethanol plant to produce ethanol, adjacent to the propose sugar plant located at Village Selu, PO Jategaon, Taluka Gevarai, District Beed, Maharashtra

The proposed ethanol plant project will produce fuel ethanol mainly on own molasses, molasses available from the other sugar factories. The steam and power requirement for the proposed plant will be made available from the new slop fired incineration boiler & back pressure turbine.

A 5000 TCD capacity sugar factory working for a 160 days season will require 8 lakh T/annum of cane. The available cane is sufficient for the proposed sugar mill.

The cogen power plant will have installed capacity of 35 MW and will employ 110 kg/cm² and 540 °C configurations. Bagasse generated from cane crushing, excluding handling losses and bagacillo requirements will be available for operation of the high- pressure boiler during season of 160 days. Saved bagasse will be used during the off-season period of about 15 days.

PSAPPL will generate about 36000 MT of molasses from expected / sustained cane crushing of 8.00 lakh MT / year, with 4.50% molasses recovery.

The total requirement of molasses for the 270 days operation of the proposed ethanol plant at optimum level of operation will be around 91,915 MT. PSAPPL will utilize 54,468 MT of own/B-heavy molasses & the balance 37,447 MT of molasses will be procured from nearby sugar mills.

Project in Brief

Sugar Mill (estimated capital investment of Rs.97.00 crore)

A sugar mill of 5000 TCD capacity will be installed for manufacture of white sugar of good quality. The sugar market in India is quite up-beat and is expected to continue for a foreseeable future. Command area has adequate sugarcane availability with sugar recovery of about 11.50%.

Cogen Power Plant (estimated capital investment of Rs. 103.00 crore)

The cogen power project of 35 MW capacity will mainly operate on mill bagasse during 160 season days of the sugar mill and saved bagasse for 15 off-season days. At designed levels, it will generate about 131.72 million kWh and export about 97.31 million kWh through MSEDCL grid for sale to MSEDCL, as per prevailing tariff (present MERC tariff is Rs 6.27 /kWh). All steam and power requirements of the sugar mill and cogen auxiliaries and colony, both during season and off-season periods, will be met internally from the cogen power plant.

Distillery Unit (estimated capital investment of Rs. 127.00 crore)

The proposed ethanol plant of 80 KLPD capacity will employ fermentation, multi pressure distillation system, evaporation & slop fired incineration boiler. Sugar mill will supply molasses, while the incineration boiler & turbine will supply steam & power to the proposed ethanol plant.

Highlights of the Project

Name and Address	: M/s. Pingale Sugar & Agro Products Private Ltd. Registered Office: C/o. Shambhu Mahadev Sugar & Allied Industries Ltd., Havargaon, Tal-Kallam, Dist-Osmanabad
Factory Site:	: Village Selu, PO Jategaon, Taluka Gevarai, District Beed, Maharashtra
Constitution & Type	: Limited Company
Products	: Sugar, Co-generated Power, Distillery Unit
Installed Capacities of the Integrated Project	
Sugar Plant	5000 TCD
Cogen Power Plant	: 35 MW installed capacity : 22.38 MW (Avg. exportable power, Season 160 days)
Distillery Unit	: 31.43 MW (Avg. exportable power, Off Season 15 days) 80 KLPD
Raw material	Sugarcane : 800000 (MT) Bagasse : Season: 214464, Off-Season: 19136 Molasses : 91800 MT Own Molasses- 54468 MT Procured Molasses from other factory - 37447MT
Water	Source: Godavari River <ul style="list-style-type: none"> • Sugar Unit : 293 m3/day • Cogeneration Unit: 453 m3/day • <i>Distillery Unit: 620 m3/day</i>
Products	Sugar: 92000MT Power : 35 MW Ethanol: 80KLPD(RS/ENA/AA)
Cost	Sugar Unit Rs. 97 Cr Cogeneration Unit: Rs 103 Cr Distillery : Rs 127 Cr