

MAHARASHTRA POLLUTION CONTROL BOARD

Office : Maharashtra Pollution Control Board,
 Maharashtra State Secretariat Building,
 1st Floor, 2nd Stage, Lower Ground Floor,
 Chhatrapati Shivaji Maharaj Vastu Sangrahalaya,
 Mumbai - 400 032



Regional Office : Maharashtra Pollution Control Board,
 Regional Office, 2nd Stage, Lower Ground Floor,
 Chhatrapati Shivaji Maharaj Vastu Sangrahalaya,
 Mumbai - 400 032

REG/157

Consent to Establish / Renewal / CAC-CE11/PN-21991-14/1/CAC-11/157

Date: 17.05.2015

To,
 M/s. Lokmanya Sakhar Udyog,
 G. No. 241 & 253, A/p - Kapsli (Morewadi),
 Tal. Phaltan, Dist. Satara.

Subject: Consent to Establish for proposed Sugar & Co-generation unit under RED category.

Ref: 1. Minutes of CAC meeting held on 28.11.2014 & 15.04.2015.

Your application: CE1407000548.

Dated: 17.05.2015.

Your Consent to Establish for proposed Sugar & Co-generation unit under RED category, under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. The consent is granted for a period up to Upto commissioning of the unit or 5 yrs. whichever is earlier.
2. The Proposed capital investment of the industry is Rs. 180.17 Cr.
(As per the C. A. certificate submitted by industry)
3. The Consent is valid for the manufacture of -

Sr. No.	Product / By-Product Name	Maximum Quantity in MTPA
1	Sugar	10850
2	Pressmud	3797.5
3	Molasses	3797.5
4	Baggase	32550
5	Electricity (Co-Gen)	14 MW.

(The cane crushing Capacity of Sugar Industry shall not exceed 3500 TCD)

4. Conditions under Water (P&CP). 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	500 (Sugar 320 + Co-gen 180)	As per Schedule -I	180 CMD shall be recycle & remaining 320 CMD on land for gardening
2.	Domestic effluent	50.0	As per Schedule -I	On land for gardening

Conditions under Air (P&C) Rules, 1987 for air emissions:

Sr. no.	Description of stack / chimney / stack / chimney	Height of Stack	Standards to be achieved
1.	Boiler (100 T/M)		As per Schedule II
2.			
3.	DC set (1500 KVA)		As per Schedule II

Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Ply ash	2800 MT/M	-	By Sale
2	ETP Sludge	100 MT/M	-	Used as Manure
3	Lime Clinker	100 MT/M	-	Filler

Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No.	Name Of Waste	Category	Quantity	UoM	Treatment	Disposal
1	Used/Spent oil	5.1	10	Kg/D	Mixed with Bagasse	Fired in boiler

- The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
- This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
- Industry shall comply the Directions of the CPCB issued vide dtd. 05.02.2014 & 02.03.2015 regarding installation of online monitoring system and shall install online effluent quality monitoring system for the parameters flow, pH, BOD, COD & TSS and shall connect, upload the online effluent monitoring data at MPCB and CPCB server.

For and on behalf of the
Maharashtra Pollution Control Board

(Dr. P. Anbalagan, IAS.)
Member Secretary

Received Consent fee of -

Sr. No.	Amount (Rs.)	DD. No.	Date	Drawn On
1	Rs. 3,60,100/-	169429	23.04.2014	Bank of Maharashtra.

Copy to:

- Regional Officer MPC Board, Pune & Sub-Regional Officer, M.P.C. Board, Satara - They are directed to ensure the compliance of the consent conditions.
- Chief Accounts Officer, MPCB, Mumbai.
- CAC desk- for record & website updation purposes.

Annexure

Annexure - 1: Conditions for consent and Water Pollution Control

1.1.1

B) The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sl. No.	Parameters	Standards prescribed by Board (If any)
		Limiting Concentration in mg/l, except for pH
01	pH	5.5-9.0
02	Oil & Grease	10
03	B. O. D.	100
04	C. O. D.	250
05	T. D. S.	2100
06	Chlorides	600
07	Sulphates	1000
08	Suspended Solid	100

C) The treated effluent 320 CMD of sugar shall be disposed on own land of 19.76 acres for gardening/irrigation & 180 CMD of the co-gen shall be recycled 100% in the process.

D) Industry shall provide separate primary treatment for effluent generation from DM plant.

E) CREP conditions for Sugar Factory

- i. Operation of ETP shall be started at least one month before starting of cane crushing to achieve desired MLSS. So as to meet prescribed standards from day one the operation of mill.
- ii. Waste water generation shall be reduced to 100 liters per tone of cane crushed.
- iii. Industry shall achieve zero discharge into in land surface water bodies.
- iv. 15 days storage capacity tank shall be provided for treated effluent to take care of no demand for irrigation.

F) Industry to make necessary arrangement to cover the effluent collection system and to avoid the ingress of Bagasse other material.

G) Industry shall provide flow meter at Inlet of ETP of Sugar & Co-Gen Units, and to maintain the record with data logging system.

2) A) As per your consent application, you have proposed to provide the sewage treatment plant for treatment of domestic effluent.

B) The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

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|-----|-------------------|---------------|-----|-------|
| (1) | Suspended Solids. | Not to exceed | 100 | mg/l. |
| (2) | BOD 3 days 27oC. | Not to exceed | 100 | mg/l. |

C) The treated sewage 40 CMD shall be soaked in a soak pit, which shall be got cleaned periodically and shall be disposed on land of 15 acres for gardening/irrigation.

- 3) The industry shall have periodic agreement with the farmers on whose farm the treated effluent is used for irrigation. The industry shall submit a copy of the agreements with validity duration to the Regional office of the Board.
- 4) The industry shall create an environmental cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.

5) CONDITIONS FOR MOLASSES STORAGE:

- (i) The molasses shall be properly collected and stored in steel tanks which shall be leak proof. At no stage of handling of molasses, there shall be leakage or spillage.
- (ii) The capacity of tanks for storage of molasses shall be such that it will take care of long production of sugar, non-lifting of molasses etc.
- (iii) An area on which molasses are stored and handled should be provided with drain for diverting the spills to the treatment plant/ molasses tank. Suitable arrangements for accidental discharges of molasses from the tanks shall be provided to contain the same within factory premises.
- (iv) Destruction of molasses and its disposal shall not be done without specific permission in writing from the authorized officer of the Board. Intimation of intention to destroy or dispose of the molasses shall be given to the Board at least 15 (fifteen) days in advance by registered post under intimation to the Sub-Regional officer and Regional officer of the Board under whose jurisdiction the factory is situated.
- (v) The storage tanks shall be kept in good conditions all the year round with adequate maintenance. The tanks size and capacity per cm, height, total capacity in tones shall be displayed prominently near /on the tank.
- (vi) The above conditions shall be in addition to and not in derogation of the provisions contained in the "Bombay Molasses Rules, 1955" and "Maharashtra Molasses Storage and Supply Regulation, 1965".
- 6) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said act.

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	486.00
2.	Domestic purpose	100.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	380.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	-

- 7) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act,1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.

Conditions for compliance of Air Pollution Control

- As per your application, you have proposed to install the Air pollution control system and also proposed to erect following stack (s) and to observe the following fuel pattern:-

No.	Equipment	Control Equipment	Efficiency (%)	Fuel	Capacity (MT/D)	SO ₂ (%)	Capacity (Tons/Day)
1.	Boiler (100 TPH)	Wet Scrubber	78.50	Bagasse	1400 MT/D.	0.2 %	5600
2.	Boiler (100 TPH)						
3.	DCI Set of 1500 KVA		--	HSD	15 Litres/Hr.	1%	

- The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time / Environmental Clearance / CREP guidelines. (Concern section shall mention specific control equipments)
- The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Particulate matter	Not to exceed	150 mg/Nm ³ .
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- The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
- The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
- Industry should not use auxiliary fuel more than 15 % (as per amendment in EIA Notification 2009) as Co-gen capacity is less than 15 MW.

Schedule III
Details of Bank Guarantees

Sr. No.	Consent No./Date	Amnt of PG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1.	C to B	10/- Lakhs	15 days.	Compliance of conditions of Consent to Establish.	of Obtaining 1 st C to O.	1 Year

CONDITIONS
Granted to Applicant:

The applicant shall provide facilities for environmental samples and samples of water with a view to monitoring the quality of effluents to the Board staff at its laboratory. The applicant shall also provide the following facilities on its own behalf.

- 2) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
The applicant shall provide posts in the observation and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 4) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Bharu Manshed Police Station, office of Directorate of Repair Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
- 5) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- 6) The firm shall submit to this office, the 30th day of September every year, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- 7) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW(MH&TM) Rules 2008, which can be recycled
- 8) /processed/reused/recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 9) The industry should comply with the Hazardous Waste (M,H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazardous Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 10) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 11) **The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before actual commencement of the Unit/ Activity.**
- 12) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act,1981 and Environmental Protection Act,1986 and industry specific standard under EP Rules 1986 which are available on MPCB website(www.mpcb.gov.in).
- 13) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 14) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 15) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
- 16) Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.

- g) The applicant shall provide acoustic enclosure for control of noise. The acoustic enclosure/enclosures in the room should be designed for minimum 20 dB (A) insertion loss or higher to meet ambient noise standards which have to be maintained. A suitable exhaust system should be provided for the air (A) which will be used for the measurement of noise level in the vicinity of the premises.
- h) Industry shall make the efforts to bring down noise level due to DG set outside industrial premises to meet ambient noise requirements by proper siting and control measures.
- i) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- j) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
- k) D.G. Set shall be operated only in case of power failure.
- l) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
- m) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel.
- 17) The industry should not cause any nuisance in surrounding area.
- 18) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
- 19) The applicant shall maintain good housekeeping.
- 20) The applicant shall bring minimum 33% of the available open land under green coverage/plantation. The applicant shall submit a statement on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end, with the Environment Statement.
- 21) The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
- 22) The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 23) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 24) The industry shall submit quarterly statement in respect of industries' obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can be downloaded from MPCB official site).
- 25) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 26) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
- 27) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
- 28) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.

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