

# MAHARASHTRA POLLUTION CONTROL BOARD

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## RED/LSI

Consent No.MPCB/RO-Aurangabad/AST/EIC-AD-3705-10/O/CC-117

Date: 6/1/2012

**Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorisation under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules 2008.**

[To be referred as Water Act, Air Act and HW(M&H) Rules respectively].

CONSENT is hereby granted to

**M/s. Samrudhi Sugar Ltd.,**  
At Devi Dahegaon, Tal-Ghansawangi,  
Dist-Jalna.

located in the area declared under the provisions of the Water Act, Air act and Authorisation under the provisions of HW(M&H) Rules and amendments thereto subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

1. The Consent to Operate is granted for a period upto - 31/03/2012.

2. The consent is valid for the manufacture of –

<u>Sr.No.</u>	<u>Product</u>	<u>Maximum Quantity</u>
1.	Sugar (2500 TCD)	8287 MT/Month
<b><u>By Product</u></b>		
2.	Molasses	3000 MT/Month
3.	Press mud	3000 MT/Month
4.	Bagasse	14000 MT/Month

3. **CONDITIONS UNDER WATER (PREVENTION & CONTROL OF POLLUTION) ACT, 1974 :**

(i) The daily quantity of trade effluent from the factory shall not exceed 281 m<sup>3</sup>.

(ii) The daily quantity of sewage effluent from the factory shall not exceed 75 m<sup>3</sup>.

(iii) **Trade Effluent:**

Treatment : The applicant shall provide comprehensive treatment system consisting of primary / secondary and/or tertiary treatment as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of the treated effluent to the following standards :

1)	pH	Between	5.5 to 9.0	
2)	Suspended Solids	Not to exceed	100	mg/l.
3)	BOD 3 days 27 Deg. C.	Not to exceed	100	mg/l.
4)	COD	Not to exceed	250	mg/l.
5)	Oil & Grease	Not to exceed	10	mg/l.
6)	Total Dissolved Solids	Not to exceed	2100	mg/l.
7)	Chlorides	Not to exceed	600	mg/l.
8)	Sulphates	Not to exceed	1000	mg/l.

(iv) **Trade Effluent Disposal** : The treated effluent shall be used/ recycled to the maximum extent and rest shall used for irrigation within factory premises only. In no case, at any time effluent shall finds its way to any water body directly or indirectly.

(v) **Sewage Effluent Treatment** : The applicant shall provide comprehensive treatment system as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of treated effluent to the following standards.

(1)	Suspended Solids	Not to exceed 100	mg/l.
(2)	BOD 3 days 27 Deg. C.	Not to exceed 100	mg/l.

(v) **Sewage Effluent Disposal** : The treated sewage effluent shall be used on land for gardening within factory premises only. In no case, at any time effluent shall find its way to any water body directly or indirectly.

(vii) **Non-Hazardous Solid Wastes :**

	<u>Type of waste</u>	<u>Quantity</u>	<u>Treatment</u>	<u>Disposal</u>
(1)	ETP Sludge	250 Kg/Y.	--	Used as manure
(2)	Ash	500 Kg/day	--	Brick manufacturer

(viii) **Other conditions :** The industry shall monitor effluent quality regularly.

**CONDITIONS FOR MOLASSES STORAGE:-**

- 1] The molasses shall be properly collected and stored in steel tanks which shall be absolutely leak proof. At no stage of handling of molasses, there shall be leakage or spillage.
- 2] The capacity of tanks for storage of molasses shall be such that at no time the molasses shall be required to be stored in kutcha pits. Adequate space storage capacity shall be available to take care of bumper production of sugar, non-lifting of molasses etc.
- 3] All the 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.
- 4] Destruction of molasses and its disposal shall not be done without specific permission in writing from the authorised 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.
- 5] 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 tonnes shall be displayed prominently near the tank.
- 6] 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".
- 7] The industry should monitor effluent quality regularly.

4. The applicant shall comply with the provisions of the Water ( Prevention & Control of Pollution ) Cess Act, 1977 ( to be referred as Cess Act ) and Rules thereunder :

The daily water consumption for the following categories is as under:

(i) Domestic	...	100	CMD
(ii) Industrial Processing	...	285	CMD
(iii) Industrial Cooling/Boiler	...	350	CMD
(iv) Agriculture/Gardening	...	-----	CMD

The applicant shall regularly submit to the Board the returns of water consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act which is also available on MPCB website at <http://mpcb.mah.nic.in/images/cessform1.pdf>

5. CONDITIONS UNDER AIR ACT( PREVENTION & CONTROL OF POLLUTION) ACT, 1981 :

- (i) The applicant shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards :

**A) Control Equipment :**

1. ESP/Bag filter/Venturi scrubber/Dust Collector of sufficient capacity shall be provided to bagasse fired boiler.
2. ESP/Bag filter/Venturi-scrubber/Dust collector of sufficient capacity shall be provided to sugar bagging section.

**B) Standards for Emissions of Air Pollutants :**

- |      |                 |               |      |                      |
|------|-----------------|---------------|------|----------------------|
| (i)  | SPM             | Not to exceed | 150  | mg/Nm <sup>3</sup> . |
| (ii) | SO <sub>2</sub> | Not to exceed | 2.64 | MT/day               |

**C) Conditions for D.G. Set:**

- 1) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
- 2) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/acoustic treatment of the room should be designed for minimum 25 dB(A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB(A) shall also be provided. The measurement of Insertion loss will be done at different points at 0.5 metres from acoustic enclosure/room and then average.
- 3) Industry should make efforts to bring down noise level due to DG Set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
- 4) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- 5) 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.
- 6) The DG set shall be operated only in case of power failure.
- 7) The applicant should not cause any nuisance in the surrounding area due to operation of the DG set.

- (ii) The applicant shall observe the following fuel pattern :-

<u>Sr.No.</u>	<u>Type of Fuel</u>	<u>Quantity</u>
1.	Bagasse	660 MT/day
2.	Diesel	40 Lit/Hr.

- (iii) The applicant shall erect the chimney(s) of the following specifications :-

<u>Sr.No.</u>	<u>Chimney attached to</u>	<u>Height in Mtrs.</u>
1.	Boiler	65
2.	D. G. set (300 KVA )	3.0*

(\* above the height of building where the DG set is installed)

- (iv) The applicant shall provide ports in the chimney/(s) and facilitates 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.
- (v) The industry shall take adequate measures for control for 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.
- (vi) **Other Conditions :**
- 1) The industry should not cause any nuisance in surrounding area.
  - 2) The industry should monitor stack emissions and ambient air quality regularly through MoEF approved laboratory.

**7. CREP conditions for Sugar Factory:-**

**(A) Water Management:-**

- i) Operation of ETP shall be started atleast 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 litres 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.

**(B) Emission Control:-** ESP/Bag filter/Venture scrubber shall be installed to comply with standards for particulate matter emission to < 150 mg/Nm<sup>3</sup>.

**8. CONDITIONS UNDER HAZARDOUS WASTES (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES 2008.**

The applicant shall handle hazardous wastes as specified below:

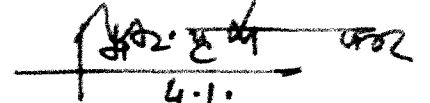
Sr. No.	Item No. Of process substance generating HW as per Schedule-I/II	Type of waste	Quantity	Disposal
1	5.1	Used/Waste oil	1.5 MT/Month	Use in boiler as a fuel.

8. 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 Board, concerned Police Station, office of Directorate of Health 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.

**9. General Conditions :**

1. The applicant shall maintain good housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area/inhabitants.
2. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30<sup>th</sup> September every year on available open plot area, number of trees surviving as on 31<sup>st</sup> March of the year and number of trees planted by September end.
3. Solid Waste – 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 to dumping ground.
4. The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the applicant 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 regarding pollution levels.
5. 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.
6. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
7. The firm shall submit to this office, the 30<sup>th</sup> day of September every year, the Environmental Statement Report for the financial year ending 31<sup>st</sup> March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
8. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
9. 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.

10. 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 down stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
11. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
12. 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.
10. The applicant shall make an application for renewal of the consent at least 60 days before the date of expiry to the consent.
11. The applicant do not require Environmental Clearance as per GoM letter vide no. SEAC 2011/2 dtd. 25.04.2011 & 26.05.2011.
12. This is issued pursuant to the decision of the Consent Committee meeting held on 25.08.2011.
13. This Board reserves the right to revoke, amend or add any conditions in this consent and the same shall be binding on the Applicant.
14. The Capital Investment of the said industry is Rs. 42.39 Crs.

  
4.1.  
(Milind Mhaiskar, IAS)  
Member Secretary

To.  
M/s. Samrudhi Sugar Ltd.,  
At Devi Dahegaon, Tal-Ghansawangi.  
Dist-Jalna.

Copy to:  
RO-Aurangabad /SRO-Aurangabad-II / CAO / Cess Branch / Master File

Received Consent fee of -

Amount	D.D. No.	Date	Drawn on
Rs.50,000/-	778136	25/09/2009	Dena Bank
Rs. 27,450/-	136781	03.01.2012	SBI Bank