

# MAHARASHTRA POLLUTION CONTROL BOARD

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RED/LSI

Consent No. BO/RO-Aurangabad/AS(TV) EIC-AD-3909-09/OI CC-2/1

Date: 25/11/2011

Consent to Operate 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 Authorisation / Renewal of 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. Natural Sugar & Allied Industries Ltd. (Expansion)**  
At Post, Sainagar, Ranjan,  
Tal. Kallam, Dist. Osmanabad

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:

- The Consent to Operate is granted for a period upto - 31.10.2012.
- The Consent is valid for the manufacture of -

Sl.	Products	Max. Qty.
1	Sugar	250 MT/day (Crushing Capacity from 2500 TPD to 5000 TPD)
2	Power	13MW
By Product		
1	Betasse	750 MT/day
2	Press Cake	100 MT/day
3	Molasses	100 MT/day

- CONDITIONS UNDER WATER (PREVENTION & CONTROL OF POLLUTION) ACT, 1974:

(i) The daily quantity of trade effluent generated from the sugar and co-generation plant shall not exceed 250 M<sup>3</sup>.

(ii) The daily quantity of sewage effluent from the factory shall not exceed 8 M<sup>3</sup>.

(iii) Trade Effluent (Sugar and Co-generation plant):

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	30 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

**Natural Sugar & Allied Ind. Ltd.**

Issued on: 29.11.11 Date: 25/11/2011

Time: 6.10 Sign. of Clerk: [Signature]

Referred to: [Signature]

Date: 25/11/2011

*PM*  
*al.w*  
*[Signature]*  
*5/11*

*PK*

- (iv) **Trade Effluent Disposal (Sugar and Co-generation plants):** The treated effluent shall be used on land for gardening within factory premises only. In an case, of any trade 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° C. | Not to exceed | 100 | mg/l. |
- (vi) **Sewage Effluent Disposal :** The treated domestic effluent shall be soaked into soak pit which shall be got cleaned periodically. Overflow if any shall be used on land for gardening & plantation only.
- (vii) **Non-Hazardous Solid Waste :**
- | Sr. No. | Type of waste | Quantity | Treatment & Disposal          |
|---------|---------------|----------|-------------------------------|
| 1       | Boiler Ash    | 8 MT/day | By sale to brick manufacturer |
- (viii) **Other conditions :**
- The industry shall upgrade the existing ETP by capacity enhancement from 500 CMD to 750 CMD within three months period.
  - The industry shall 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	88	CMD
(ii) Industrial Processing, Sugar & Co-gen	225	CMD
(iii) Industrial Cooling/Boiler	25	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.

5. **CONDITIONS UNDER AIR (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 :**

- Electrostatic Precipitator of adequate capacity shall be provided to bagasse fired boiler to limit the air emissions.
- ESP/Bag filter/Ventury scrubber/Dust Collector of adequate capacity shall be provided to sugar bagging section to limit the air emissions.

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

- |                      |               |      |                    |
|----------------------|---------------|------|--------------------|
| (i) SPM/TSPM         | Not to exceed | 150  | mg/Nm <sup>3</sup> |
| (ii) SO <sub>2</sub> | Not to exceed | 3.36 | Tdsy               |

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

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

Sr.No.	Type of Fuel	Quantity
1)	Bagasse	840 MT/day

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

Sr.No.	Chimney attached to	Height in mt.
1	Boiler	70

- (iv) The applicant shall provide ports in the chimney(s) 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.

- (v) 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.
- (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.
  - 3) The applicant shall install continuous monitoring equipments for stack gases on analysis and submit a report on fortnightly basis to the respective Regional Office/ Sub-Regional Office.
  - 4) The applicant shall install one continuous automatic ambient air and micro-meteorological monitoring station at prominent downwind direction indicated by State Board to be set up and operate at its own cost measure SO<sub>2</sub>, NO<sub>x</sub> and particulate matter. These CROMS shall also have necessary provision of networking to the Air Quality Monitoring network of MPCB.

6. **CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008:**

The applicant shall handle hazardous wastes as specified below:

Sr.	Item No. (S-1)	Type of Waste	Quantity	Disposal
01	S-1	Used/spent oil	75 kg/day	Send to authorized processor

7. Whenever due to any accident or other unforeseen act or event, 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.

8. **CONDITIONS FOR MOLASSES STORAGE:**

- i) 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.
- ii) The capacity of tanks for storage of molasses shall be such that at no time the molasses shall be required to be stored in kuttis/pits. Adequate space storage capacity shall be available to take care of bumper production of sugar, non-lifting of molasses etc.
- iii) 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.
- 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 atleast 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 cum. height, total capacity in tonnes shall be displayed prominently near the tank.
- vi) The above conditions shall be in addition to and not in derogation of the provisions contained in the 'Bombay Molasses Rules, 1956' and 'Maharashtra Molasses Storage and Supply Regulation, 1965'.
- vii) The industry should monitor effluent quality regularly.

9. **PREP 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 shall be installed to comply with standards for particulate matter emission to < 100 mg/No<sup>3</sup>.

10. **General Conditions :**

- a) The applicant shall maintain good house keeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area/inhabitants.
  - b) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 31<sup>st</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.
  - c) **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.
  - d) 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.
  - e) 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.
  - f) 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.
  - g) The applicant shall make an application for renewal of the consent at least 60 days before the date of expiry to the consent.
  - h) 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.
  - i) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
  - j) 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.
  - k) 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.
  - l) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
  - m) 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.
11. The applicant shall comply the conditions stipulated in Environmental Clearance granted by GoM vide no, SEAC 2009/CR.24/TC.2 dtd. 07.10.2010.
12. This Consent is issued pursuant to the decision of Consent Appraisal Committee meeting held on 21.09.2011 of the Board.
13. This Board reserves the right to amend, revoke or add any conditions in this consent and the same shall be binding on the Applicant.



14. The total capital investment of the expansion project is Rs. 75 Cr. & total C.I. of plant is Rs. 121.79 Crs.



(Milind Mhaskar)  
Member Secretary

To:  
M/s. Natural Sugar & Allied Industries Ltd., (Expansion)  
At Post: Seelager, Ranjeni, Tal. Kallam, Dist. Osmanabad

Copy to:  
RO-Aurangabad / SRC-Osmanabad/CAO/ Cess Branch/ Master File

Received Consent fee of -

Amount	D.D. No.	Date	Drawn on
Rs. 1.50 000/-	501239	03.10.2009	DBI Bank
Rs. 1.25 000/-	000243	18.10.2011	DBI Bank