

# MAHARASHTRA POLLUTION CONTROL BOARD

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04/02/2012

Red/L.S.I

Date: Jan/2012

Consent No: BO/JD(WPC)EIC No. KP-7744-11/E/CC-CAC-246

Consent to Establish 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 / Renewal of Authorization 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

Shree Chhatrapati Shahu Sahakari Sakhar karkhana Ltd  
(Sugar Unit) Kagal, Tal-Kagal,  
Dist- Kolhapur, Maharashtra-416216

located in the area declared under the provisions of the Water Act, Air act and Authorization 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 Establish is granted for a period up to: **Commissioning of the unit or 5 year whichever is earlier**

“Consent to Establish will be operational only after obtaining Environmental Clearance from competent authority by the applicant and subject to the compliance of conditions stipulated in an Environmental Clearance including stringent conditions stipulated.”

1. The Consent is valid for the manufacture of -

| Sr. No. | Product Name | Maximum Quantity | UOM  |
|---------|--------------|------------------|------|
| 1       | Sugar        | 5850             | MT/M |
| 2       | Molasses     | 1800             | MT/M |
| 3       | Bagasse      | 13485            | MT/M |
| 4       | Pressmud     | 1800             | MT/M |

## 2. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 16 M<sup>3</sup>.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 130 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                     | Not to exceed | 5.5 to 9.0 |
| 3 | Suspended Solids       | Not to exceed | 100 mg/l.  |
| 4 | BOD 3 Days 27 degree C | Not to exceed | 30 mg/l.   |
| 5 | COD                    | Not to exceed | 250 mg/l.  |
| 6 | Oil & Grease           | Not to exceed | 10 mg/l.   |
| 7 | TDS                    | Not to exceed | 2100 mg/l. |
| 8 | Chlorides              | Not to exceed | 600 mg/l   |
| 9 | Sulphate               | Not to exceed | 1000 mg/l  |

- (iv) **Effluent Disposal:** The treated 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.
- (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 27o C.                      Not to exceed                      100      mg/L.
- (vi) **Sewage Effluent Disposal:** The treated effluent shall be recycled to the maximum extent and remaining shall be used on land for gardening.
- (vii) **Non-Hazardous Solid Wastes:**

| Sr. No. | Type Of Waste | Quantity | UOM    | Treatment | Disposal                  |
|---------|---------------|----------|--------|-----------|---------------------------|
| 1       | Boiler Ash    | 09       | MT/Day |           | Sale to Brick manufacture |

(viii) **Other Conditions:** Industry should monitor effluent quality regularly.

### 3. 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 kutcha 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 cm, 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, 1955" and "Maharashtra Molasses Storage and Supply Regulation, 1965".

(vii) 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 amendment Rules, 2003 there under**

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

|   |     |        |     |
|---|-----|--------|-----|
| (i) Domestic purpose  | ... | 20     | CMD |
| (ii) Water gets Polluted & Pollutants are Biodegradable             | ... | 110    | CMD |
| (iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic | ... | ----   | CMD |
| (iv) Industrial Cooling, spraying in mine pits or boiler feed       | ... | 250.00 | 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 ACT:**

(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:**

ESP/Wet scrubber/Dust Collector of sufficient capacity shall be provided to bagasse fired boiler

**b) Standards for Stack Emissions:**

|                    |               |     |                    |
|--------------------|---------------|-----|--------------------|
| 1) SPM             | Not to exceed | 150 | mg/Nm <sup>3</sup> |
| 2) So <sub>2</sub> | Not to exceed | 6.2 | T/Day              |

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

| Sr. No. | Type Of Fuel | Quantity | UOM     |
|---------|--------------|----------|---------|
| 1       | Bagasse      | 612.00   | MT /Day |

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

| Sr. No. | Chimney Attached To  | Height in Mtrs. |
|---------|----------------------|-----------------|
| 1       | Bagasse Fired 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.

## 6. CREP conditions for Sugar Factory:

### (A) Water Management:

- 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 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  $< 150 \text{ mg/Nm}^3$ .

## 7. CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDRY MOVEMENT) RULES, 2008:

(i) The Industry shall handle hazardous wastes as specified below.

| Sr. No. | Type Of Waste                                   | Quantity | UOM  | Disposal                     |
|---------|---|----------|------|------------------------------|
| 1       | 5.1/5.2 Wastes/residue containing oil           | 150      | Kg/M | Reuse in own Boiler as Fuel. |
| 2       | 34.3 Chemical sludge from waste water treatment | 1.5      | MT/M | Use as manure.               |

1. The authorization is hereby granted to operate a facility for collection, storage, transport & disposal of hazardous waste.
2. The industry should comply with the Hazardous Waste (M&H) Rules, 2003.

10. 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 should 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 should be stopped.

### 11. General Conditions:

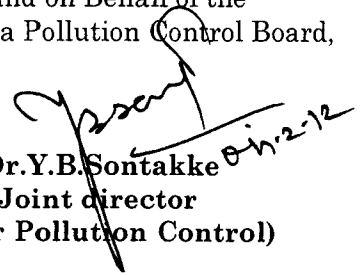
- (i) The applicant should bring minimum 33% of the available open land under green coverage/ plantation. The applicant should submit a yearly statement by 30<sup>th</sup> September every year on available open plot area, no. of trees surviving as on 31<sup>st</sup> March of the year and no. of trees planted by September end.
- (ii) The applicant should provide for an alternate electric power source sufficient to operate all pollution control facilities installed by he applicant and operate the same in case of power failure to maintain compliance with the terms and conditions of the consent. In the absence of same, the applicant should stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.
- (iii) The applicant should make an application for renewal of the consent at least 60 days before the date of the expiry of the consent. The applicant should not change or alter 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.
- (iv) The firm should submit MPCB, 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 before 30<sup>th</sup> September every year.
- (v) The applicant should 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 should be

maintained. The applicant should also submit a comparative statement of designed power and chemical consumptions vis-a vis actual power and chemical consumption along with Environmental statement.

- (iv) Separate drainage system should be provided for collection of trade and sewage effluents. Terminal manholes should be provided at the end of collection system with arrangement for measuring the flow. No effluent should be admitted in the pipes/sewers down- stream of the terminal manholes. No effluent should find its way other than in designed and provided collection system. Neither storm water nor discharge from other premises should be allowed to mix with the effluents from the factory.
- (vii) The applicant should provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous wastes to the Board staff at the terminal or designated points and should pay to the Board for the services rendered in this behalf. An inspection book should be opened and made available to the Board's officers during their visit to the applicant.
- (viii) The industry should ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- (ix) The applicant should maintain good housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
12. This consent shall not be construed as any exemption from obtaining necessary No Objection Certificate from other Government agencies as may deemed fit necessary.
13. The applicant shall obtain Consent to Operate before Actual Commencement of the production activity.
14. Applicant shall not take any effective step before obtaining Environmental Clearance as per EIA Notification,2006 and Amendments thereto as sugar crushing exceeds 5000 TCD.
15. The capital investment of the expansion of sugar unit is Rs.66.76 Cr. (Total Capital investment of the industry is 204.06 Cr. The capital investment of the Distillery unit is Rs. 16.70 Cr. Capital investment of the Co- Generation unit is Rs.53.63 Cr The capital investment of the existing sugar is 66.97 Cr )
16. This Consent is issued pursuant to the decision of the Consent Appraisal Committee meeting of the Board held on 10/01/2012.

This is issued as per office Note dated 02/02/2012, approved by Hon'ble Chairman

For and on Behalf of the  
Maharashtra Pollution Control Board,

  
Dr. Y.B. Sontakke  
Joint director  
(Water Pollution Control)

Shree Chhatrapati Shahu Sahakari Sakhar karkhana Ltd  
(Sugar Unit) Kagal, Tal-Kagal,  
Dist- Kolhapur, Maharashtra-416216

Received Consent fee of -

| Sr. No. | Amount<br>(Rs.) | DD. No. | Date        | Drawn On      |
|---------|-----------------|---------|-------------|---------------|
| 1       | 75000           | 016667  | 09 Mar 2011 | Bank of India |
| 2       | 25000           | 018903  | 14 Jan 2012 | Bank of India |