

MAHARASHTRA POLLUTION CONTROL BOARD

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Near Sion Circle, Sion (E)

Mumbai - 400 022

Red/LSI

Consent No. BO/JDWPC/ EIC- KP-9248-12/CO/CC-910

Date: 12/02/2013

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 Authorization / Renewal of Authorization under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundry Movement) Rules 2008

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

.....
CONSENT is hereby granted to

Shri Datta Sakhar Karkhana Ltd.

(Proprietor M/s. Dalmia Bharat Sugar and Industries Ltd.)

Asure- Porle, Tal- Panhala, Dist- Kolhapur

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 operate is granted for a period up to: - 31.12.2013
2. The Consent is valid for the manufacture of -

| Sr. No. | Product Name | Maximum Quantity | UOM |
|---------|--------------|------------------|------|
| 1 | Sugar | 48000 | MT/M |
| 2 | Molasses | 22500 | MT/M |
| 3 | Bagasse | 3000 | MT/M |
| 4 | Pressmud | 3000 | MT/M |

(Industry has 2500 TCD capacity)

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory should not exceed - 250 m³
- (ii) The daily quantity of sewage effluent from the factory shall not exceed - 225 m³

(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 | 6.5 to 9.0 |
| 2 | Suspended Solids | Not to exceed | 100 mg/l. |
| 3 | BOD 3 Days 27 degree C | Not to exceed | 100 mg/l. |
| 4 | COD | Not to exceed | 250 mg/l. |
| 5 | Oil and Grease | Not to exceed | 10 mg/l. |
| 6 | TDS | Not to exceed | 2100 mg/l. |
| 7 | Chlorides | Not to exceed | 600 mg/l. |
| 8 | Sulphate | Not to exceed | 1000 mg/l. |

(iv) **Effluent Disposal:** The treated effluent shall be recycled/ reused to maximum extent and remaining shall be used on land for gardening/irrigation. 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 27° 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 | 90.00 | MT/day | - | Sale to brick manufacturer. |
| 2 | ETP Sludge | 10.00 | MT/day | - | Use as soil conditioner |

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

4. 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 kutch pits. Adequate 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 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 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.

5. 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 | 250 | CMD |
| (ii) | Water gets Polluted & Pollutants are Biodegradable | 300 | CMD |
| (iii) | Water gets Polluted, Pollutants are not Biodegradable & Toxic | 300 | CMD |
| (iv) | Industrial Cooling, spraying in mine pits or boiler feed | 2100 | 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.

6. 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/Bag filter/Wet scrubber/Dust Collector of sufficient capacity shall be provided to bagasse fired boiler and it shall be operated and maintained properly.
- ESP/Bag filter/Wet scrubber/Dust Collector of sufficient capacity shall be provided to sugar bagging section and it shall be operated and maintained properly.

b) Standards for Stack Emissions:

- | | | | |
|--------------------|---------------|-----|--------------------|
| 1) SPM | Not to exceed | 150 | mg/Nm ³ |
| 2) SO ₂ | Not to exceed | | T/day |

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

| Sr. No. | Type Of Fuel | Quantity | UOM |
|---------|--------------|----------|--------|
| 1 | Bagasse | 450 | MT/day |

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

| Sr. No. | Chimney Attached To | Height in m. |
|---------|---------------------|--------------|
| 1 | Boiler I | 30.00 |
| 2 | Boiler II | 65.00 |

(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.

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

8. 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.
- b. 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 meters from acoustic enclosure/room and then average.
- c. The industry shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise to less than 55 dB(A) during day time and 45 dB(A) during the night time. Day time is reckoned between 6 a.m. to 10 p.m and night time is reckoned between 10 p.m to 6 a.m.
- d. 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.
- e. Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- f. 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
- g. D.G. Set shall be operated only in case of power failure
- h. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.

9. 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 Used /spent oil | 0.05 | Kg/M | Reuse in Own Boiler as Fuel |
| 2 | 34.3 Chemical sludge from waste water treatment | 2.50 | MT/ | Use as Mannure |

(ii) Treatment: Nil

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.
 - a. 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.

10. 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 30th September every year on available open plot area, no. of trees surviving as on 31st 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 the 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 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992 before 30th 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.
- (vi) 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.

11. This consent shall not be construed as any exemption from obtaining necessary No Objection Certificate from other Government agencies as may deemed fit necessary.
12. The industry shall create Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert. The cell should be headed by GM of the Mill for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.
13. The industry shall have bilateral agreement with the farmers on which field the treated effluent is used on land for irrigation purposes and a copies of the agreements made with the farmers shall be submitted to the Regional/Sub-Regional Office of the Board.
14. Applicant shall submit performance BG of Rs. 5/- lakhs towards O & M of pollution control system and BG of Rs. 2/- lakhs towards providing necessary arrangements to cover the effluent collection system and to avoid the ingress of bagasse and other materials within six months, as per Board's circular dated 16.12.2011
15. The Capital investment of the Sugar industry is ₹ 47.85 Cr.
16. This Consent is issued pursuant to the decision of the CC meeting of the Board held on 18.01.2013

For and on Behalf of the
Maharashtra Pollution Control Board,

(Rajeev Kumar Mital IAS)
Member Secretary

To,
Shri Datta Sakhar Karkhana Ltd.
(Proprietor M/s. Dalmia Bharat Sugar and Industries Ltd.)
Asure- Porle, Tal- Panhala, Dist- Kolhapur

Copy To

- Regional Officer Kolhapur/ Sub Regional Officer Kolhapur: - They are directed to ensure compliance of consent conditions.
- Cess Wing/ CEO/Master File

Received Consent fee of -

| Sr. No. | Amount (₹) | D. D. No. | Date | Drawn On |
|---------|------------|-----------|-------------|----------------------|
| 1 | 50,000/- | 568975 | 19 Sep 2011 | Bank of Baroda |
| 2 | 25,000/- | 581185 | 03 Oct 2011 | Bank of Baroda |
| 3 | 1,00,000/- | 435190 | 17 Dec 2012 | Punjab National Bank |