


MAHARASHTRA POLLUTION CONTROL BOARD

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Red/LSI

Consent No. BO/RO/JD(WPC)/EIC-PN-11945-11 & PN-11947-11/R/CC-CAC-244 Date: ~~1/2012~~ 04/02/2012

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 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 & T M) Rules respectively].

CONSENT is hereby granted to,

**M/s. Shri Shankar Sahakari Sakhar Karkhana Ltd.,
(Sugar & Co- Generation Unit)
Sadashivnagar, Tal. – Malshiras,
Dist. – Solapur.**

Located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(M,H & TM) 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 30.09.2013.
2. The Consent is valid for the manufacture of –

Sr. No.	Products	Max. Qty.
1	Sugar	9,000 MT/Month
2.	Molasses	3,200 MT/Month
3	Pressmud	3,500 MT/Month
4	Bagasse	35,000 MT/Month
5	Electricity	20 MW

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory should not exceed 568 M³/day.
- (ii) The daily quantity of sewage effluent from the factory should not exceed 112.85 M³/day.
- (iii) **Trade Effluent:**

Treatment: The applicant should operate comprehensive treatment system consisting of primary/secondary and/or tertiary treatment as is warranted with reference to influent quality 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
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	T.D.S.	Not to exceed	2100 mg/l
7	Sulphate	Not to exceed	1000 mg/l
8	Chlorides	Not to exceed	600 mg/l

- (iv) **Trade Effluent Disposal:** The treated effluent should be recycled/ reused to the maximum extent and remaining should be used on land for irrigation. In no case, at time effluent finds its way to any water body directly or indirectly.

- (v) **Sewage Effluent Treatment:** The applicant should operate comprehensive treatment system as is warranted with reference to influent quality 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.

- (vi) **Sewage Effluent Disposal:** The treated sewage effluent should be soaked into soak pit which should be got cleaned periodically. Overflow, if any be used on land for gardening only within factory premises only.

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

Sr. No.	Type of Waste	Quantity	Disposal
1	Fly ash	1297.8 MT/M	Sale to Brick Mafg.
2	ETP Sludge	2 MT/M	Used as Manure
3	Press Mud	2 MT/M	Composting

- (viii) **Other conditions:**

i) The industry should monitor effluent quality regularly from MoEF approved laboratory.

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 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 shall 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".
 - vi) The industry shall monitor effluent quality regularly.
5. The applicant should comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and Rules there under:
The daily water consumption for the following categories is as under:

i	Domestic	136.5 CMD
ii	Industrial Processing	600.0 CMD
iii	Industrial Cooling / Boiler	2636.0 CMD
iv	Agriculture/Gardening	53.0 CMD

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

A] Control Equipment:

- 1] ESP/Wet Scrubber/ Venturi Scrubber system of sufficient capacity should be provided and operated to bagasse fired boiler.
2] ESP/Wet Scrubber/ Venturi Scrubber/Dust Collector system of sufficient capacity should be provided and operated to Sugar bagging section.

Standards for Emissions of Air Pollutants:

1	SPM/TPM	Not to exceed	150 mg/Nm ³
2	SO ₂	Not to exceed	3.6 T/day

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

Sr.	Fuel Type	Quantity
1	Bagasse	40.27 MT/Hr
2	Coal	14.5 MT/Hr

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

Sr.	Chimney attached to	Height in mtr.
1	Boiler I & II	46.0 mtrs.
2	Boiler III	55.0 mtrs
3	Boiler	80.0 mtrs.

- (iv) The applicant should provide ports in the chimney/(s) and facilitates such as ladder, platform etc. For monitoring the air emissions and the same should be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission should be designated by numbers such as S-1, S-2, etc. And these should be painted / displayed to facilitate identification.
- (v) The industry should 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 p.m.
- (v) **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 industry shall install continuous monitoring equipment for stack emission analysis and submit the report on fortnightly basis to the respective Regional office/ Sub Regional Office.
 - 4) Applicant shall install one continuous automatic ambient air and micrometeorological monitoring station at prominent downwind direction indicated by state board to be set up and operate at its own cost, measure So₂, NO_x and particulate matter. These CAAQMS shall also have necessary provision of networking to the Air Quality Monitoring network of MPCB.

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 liter per tone of cane crushed.
- iii) Industry shall achieve zero discharge into in land surface water bodies.