

MAHARASHTRA POLLUTION CONTROL BOARD

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Kapataru Point
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Mumbai- 400 022

Red/L.S.I

Date: 23/Jan/2013

Consent No: BO/JD(WPC)/EIC No PN-12013-11/CC- 842

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

M/s. Sitaram Maharaj Sakhar Karkhana (Khardi) Ltd.,
A/p - Khardi Tal. - Pandharpur,
Dist. Solapur - 413304

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: 31.07.2013.
2. The Consent is valid for the manufacture of-

Sr. No.	Product Name	Maximum Quantity	UOM
1	Crystal Sugar	7500	MT/M
2	Bagasse	22000	MT/M
3	Press Mud	3500	MT/M
4	Molasses	3500	MT/M
5	Electric power	10	MW

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 290.00M³.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 20.00M³.

(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 & Grease	Not to exceed	10 mg/l.
6	TDS	Not to exceed	2100 mg/l.
7	Sulphates	Not to exceed	1000 mg/l
8	Chlorides	Not to exceed	600 mg/l

(iv) **Effluent Disposal:** The treated effluent shall be recycled/reused to the maximum extent and remaining 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 soaked into pit which shall get cleaned periodically. Overflow, if any shall be used on land for gardening/ plantation only.

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

Sr. No.	Type Waste	Quantity	UOM	Treatment	Disposal
1	Fly Ash	1.5	MT/Day	Saletobrick Manufacturin	Saletobrick Manufacturin
2	Bagasse	650	MT/Day	Use as boiler fuel	Use as boiler fuel
3	Press Mud	120	MT/Day	For Composting	For Composting

(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 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.

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 | ... | 30.00 CMD |
| (ii) Water gets Polluted & Pollutants are Biodegradable | ... | 550.00 CMD |
| (iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic | ... | 0.00 CMD |
| (iv) Industrial Cooling, spraying in mine pits or boiler feed | ... | 350.00CMD |

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:

- 1) Wet scrubber/ESP/bag filter/fly ash arrestor of sufficient capacity shall be provided to bagasse fired boiler.
- 2) ESP/Bag filter/venture-scrubber/dust collector/fly ash arrestor/wet scrubber of sufficient capacity shall be provided to sugar bagging section.

b) Standards for Stack Emissions:

- | | | | |
|--------------------|---------------|-----|--------------------|
| 1) SPM | Not to exceed | 150 | mg/Nm ³ |
| 2) SO ₂ | Not to exceed | 200 | Kg/day. |

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

Sr. No.	Type Of Fuel	Quantity	UOM
1	Bagasse	650	MT
2	Diesel	100	Litr./day

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Boiler	60
2	D.G. Set (350 KVA)	5 mtr. above the roof where it is installed

(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 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/Nm³.

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 & TRANSBOUNDARY MOVEMENT) RULES, 2008:

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

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
1	5.2, Wastes/residue containing oil	02	MT	Mixed with bagasse & used as fuel to boiler

- (ii) Treatment: -

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. The industry shall submit Bank Guarantee of Rs. 5.0 /- Lakh within 15 days to Regional Office Pune towards operation and maintenance of pollution control system and Bank Guarantee of Rs. 2.0 Lakh towards provision of necessary arrangement to cover the effluent collection system.
11. The consent is issued pursuant to the decision of consent committee meeting held on 11.01.2013 and with the approval of the Hon,ble Chairman of the Board.
12. The Capital investment of the industry is Rs. 81.80 Cr.

For and on Behalf of the
Maharashtra Pollution Control Board

(Rajeev Kumar Mital, IAS)
Member Secretary

To,
M/s. Sitaram Maharaj SSK,
A/p - Khardi Tal. - Pandharpur,
Dist - Solapur ,
Maharashtra -413304

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	125000	027787	09 Jul 2012	Bank of India
2	30000	612577	17 Aug 2012	Bank of India

Copy to:

Regional Officer, MPCB, Pune.
Sub-Regional Officer, MPCB, Solapur.
CAO / Cess wing