

# MAHARASHTRA POLLUTION CONTROL BOARD

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Red/L.S.I

Date: 17 /Jul /2012

Consent No: BO/JD(WPC)/EIC No. NK-11712-12/R/CAC-507

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

Sanjivani (Takli) sahakari karkhana Ltd  
( Distillery Division),  
Sahajanandnagar, A/P-Shingnapur  
Tal- Kopergaon, Dist- Ahmednagar

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: 31.12.2015.
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Industrial Alcohol	19.5	Lac Bulk Ltr./M
2	Fusel Oil	3600	Ltr/M

( The distillery shall remain closed during rainy season i.e. 10<sup>th</sup> June to 10<sup>th</sup> Sept. every year )

### 3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 805 M<sup>3</sup>.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 3.6 M<sup>3</sup>.

#### (iii) Trade Effluent Treatment:

Treatment : Treatment: The applicant will provide comprehensive treatment consists of bio-methanisation/reboiler is as primary followed by well designed aerobic composting. The arrangement shall be leaked proof and no effluent or leakages/seepages shall find its way into environment thereby causing pollution of surface/ground/generated water.

#### Condition for Aerobic Composting are as below:-

- 1] The spent wash should be stored in impervious tanks. The spent wash tanks should have proper lining with HDPE and should be kept in proper condition to prevent ground water pollution. As per the CPCB recommendation and undertaking given by the company, storage should not exceed 30 days capacity.
- 2] Application shall ensure availability of adequate filler material such as press mud, bagasses, agricultural, biological waste as required for effective composting system.

3] Composting material should meet the following specifications:

Moisture	...	30 to 35%
Carbon	...	Below 17
Nitrogen	...	1.5 to 2%
Phosphorus	...	1.5 to 2%
Potassium	...	3.0 to 4%

4] The compost leachet (1 gram of compost mixed with 100 ml of water distilled water and filtered) / filtrate shall confirm to the following limit:-

pH	Not to exceed	7.5 to 8.0
B.O.D.	Not to exceed	30 mg/l

5] A pucca leak proof guard pound of sufficient holding capacity should be provided to cope up with the effluent discharge during short term process disturbances/monsoon. In case of prolonged disturbance in effluent treatment and disposal system, the contributing units shall be shut sown and shall not be restarted without rectifying the system.

6] The composting site/pits shall be made leak proof by proper lining. A catch drain shall be provided round the composting site to collect, leachates/runoff and safe shall be recycled into the storage pond for application on compost depots. Arrangements for overturning of compost material in pits/windrows and spraying of spent wash shall be made to ensure appropriate aeration and uniform distribution of spent wash.

7] In case of composting in open fields, the application of spent wash shall stop by end of April, so that compost is ready and the site is cleared if the composted manure before onset of monsoon. The composted manure shall be collected and stored on a raised platform with suitable rain cover so that the compost manure is not washed away by rain/runoff.

8] Characteristics of the soil, ground water and effect on crop yield should be monitored in the area where compost is used as manure and results thereof shall be compiled and reported in the Environment Statement to be submitted every year.

9] The test wells shall be provided around the compost site for ground water monitoring. The well water quality has to be maintained at 2006 level.

10] Top pullover impervious sheets shall be provided for entire compost yard, press mud and compost storage so as to cover the same during untimely rains and idle period.

11] The operation of distillery should be restricted to 270 days in year and that it will not operate during rainy season. i.e. from 10<sup>th</sup> June to 10<sup>th</sup> Sept. every year.

(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 extend and remaining shall be used on land for gardening.

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

Sr. No.	Type Of Waste	Quantity	UOM	Treatment	Disposal
1	Yeast Sludge	600.00	Kg/Day		Used as Manure
2	ETP Sludge	500.00	Kg/Day		Used as Manure

(vii) **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 kutchha 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	...	4.50 CMD
(ii) Water gets Polluted & Pollutants are Biodegradable	...	1036.25 CMD
(iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic	...	0.00 CMD
(iv) Industrial Cooling, spraying in mine pits or boiler feed	...	00.00 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.

**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:

**Control Equipment:**

**a. Standards for Stack Emissions:**

1) SPM	Not to exceed	150	mg/Nm <sup>3</sup>
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- (ii) The applicant shall observe the following fuel pattern:-

Sr. No.	Type Of Fuel	Quantity	UOM
	Steam taken from sugar unit Boiler		

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

Sr. No.	Chimney Attached To	Height in Mtrs.
	Steam taken from sugar unit Boiler	

(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. 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	20.3 Distillation Residues	600	Kg/Day	Mixed with compost

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.


8. 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.

#### 9. 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.
10. This consent shall not be construed as any exemption from obtaining necessary No Objection Certificate from other Government agencies as may deemed fit necessary.
11. The capital investment of the Distillery unit is Rs.15.55 Cr.  
(Total capital investment of industry is 205.46 Cr)
12. This Consent is issued pursuant to the decision of the Consent Appraisal Committee meeting of the Board held on 03/07/2012.

For and on Behalf of the  
Maharashtra Pollution Control Board,

  
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(Milind Mhaskar)  
Member Secretary

Sanjivani (Takli) sahakari karkhana Ltd  
( Distillery Division),  
Sahajanandnagar, A/P-Shingnapur  
Tal- Kopergaon, Dist- Ahmenagar

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	250000	002725	28 Dec 2011	Bank of India