

# MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai- 400 022

Red/L.S.I

Date: 20/10/2012

Consent No: BO/JD (WPC)/EIC-PN-14361-12/O/CC-GAE/MPCB/12/0264

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 & TM) Rules respectively].

CONSENT is hereby granted to .....

M/s. Oasis Alcohol Ltd.,  
(Molasses Based, Grain Based Distillery Units)  
S. No. 240,241, Adrushyakad Sidhha Nagar, A/p. Pangarkhel,  
Tal. Khatav, Dist. Satara

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: 31.03.2014.
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
Molasses Based Distillery Unit			
1	Ethanol	1080	KL/M
2	Fusel Oil	1.8	KL/M
3	Compost	2220	MT/M
Grain Based Distillery Unit			
4	ENA	1080	KL/M
5	Fusel Oil	2.7	KL/M
6	Electricity generation (Co-generation Plant)	1.5	MW

(The Molasses based Distillery Shall Operate for duration of 180 Days as per Revised Environmental Clearance and distillery shall not carryout manufacturing activity during rainy season i.e. from 10<sup>th</sup> June to 10<sup>th</sup> Sept. every year)

(The Grain based distillery shall operate for duration of 270 days as per amended Environmental Clearance dt. 24<sup>th</sup> may, 2011.)

### 3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 380.00 M3.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 11.50 M3.

### (iii) Trade Effluent:

**Treatment: Molasses Based Distillery:** The applicant shall provide comprehensive treatment system consisting of reboiler as a primary treatment followed by well designed Aerobic composting to achieve Zero Discharge. The arrangement shall be leak proof and no effluent of leakages / seepages shall find its way into environment, thereby causing pollution of surface/ ground water.

### Conditions for Aerobic Composting:

- i) Applicant should ensure availability of adequate filler material such as press mud, bagasse, agricultural, biological waste as required for effective composting system. You should reduce the volume of spent wash/Rectified spirit productions commensurate with the availability of press mud (filler material) for composting. Documentary evidence to this effect should be submitted to the Board.
- ii) Composted material should meet the following specifications –

Moisture	...	30 to 35%
C/N	...	Below 17
Nitrogen	...	1.5 to 2%
Phosphorous	...	1.5 to 2%
Pottasium	...	3 to 4%
- iii) The composting site should be prepared as per the guideline enclosed. Composting should be such that it includes mechanical mixing and spraying of spent wash along with mechanical aeration to ensure thorough composting. Hand/ manual spraying of spent wash should not be permitted.
- iv) The compost leachete (1 gr. of compost mixed with 100 ml. of distilled water and filtered) Filterate should conform to the following limit.

pH	Between	7.5 to 8.0
BOD	3 days 27 0 C	Not to exceed 30 mg/L
- v) A pucca leak proof guard pond of 30 days holding capacity as per (i) above should cope up with the effluent discharge during short term process disturbances. In case of prolonged disturbance in effluent treatment and disposal system, distillery should be shut down and should not be restarted without rectifying the system.
- vi) The composting yard site should be made leak proof by proper lining. A catch drain should be provided around the composting site to collect the storage pond for application on compost depots. Arrangements for overturning of compost material in windrows and spraying of spent wash should be made to ensure appropriate aeration and uniform distribution of spent wash.
- vii) In case of composting in open fields, the application of spent wash should stop by end of April, so that compost is ready and the site is cleared of the composted manure before monsoon (i.e. 31st May). The manure should be collected and stored on a raised platform with suitable rain cover so that the compost manure is not washed away by rain/runoff.
- viii) Characteristic of soil, ground water and effect on crop yield should be monitored in the area where compost is used as manure and results thereof should be compiled and reported in the Environment statement to be submitted every year.
- ix) The test wells should be provided around the compost site for ground water monitoring. The well water quality has to be maintained. Adequate numbers of ground water quality monitoring stations by providing piezometers around the compost plant and the project area should be set up. Sampling and trend analysis monitoring must be made on monthly a basic and report submitted to SPCB.
- x) Top pullover impervious sheets should be provided for entire compost yard, press mud and compost storage so as to cover the same during untimely rains and idle period.

- xi) 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.
- xii) Industry should achieve "Zero Discharge" as per CREP.

**Treatment: For Grain Based Distillery unit :** The applicant shall provide comprehensive treatment for the treatment of trade effluent generated through grain based – multiple effect evaporation system and the concentrated syrup shall be mixed with wet cake and used as cattle feed there by achieving Zero Discharge.

(iii) **Trade Effluent Disposal:** Nil

(iv) **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 sewage effluent shall be soaked into soak pit which shall be got cleaned periodically. Overflow if any shall be used on land for gardening /plantation only.

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

Sr. No.	Type Of Waste	Quantity	UOM	Treatment Disposal
1	Boiler Ash	25	MT/Day	Sale to Brick Manufacturers
2	Yeast Sludge	20	MT/M	Composting/ Used as manure
3	DDGS	1320	MT/M	By sale for cattle feed.

(viii) **Other Conditions:**

- 1) Industry should monitor effluent quality regularly.
- 2) Spent grain shall not be stored for more than 24 Hrs. & moisture content should be less than 5% by dry basis, it should not cause any smell nuisance in the surrounding area.

#### 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  | ... | 15.50 CMD  |
| (ii) Water gets Polluted & Pollutants are Biodegradable             | ... | 705.25 CMD |
| (iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic | ... | 0.00 CMD   |
| (iv) Industrial Cooling, spraying in mine pits or boiler feed       | ... | 170.00 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:

a. **Control Equipment:** Mechanical Dust collector along with bag filter shall be provided.

b. **Standards for Stack Emissions:**

1	SPM/TPM	Not to exceed	150	mg/Nm <sup>3</sup>
2	SO <sub>2</sub>	Not to exceed	1.5	T/day

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

Sr. No.	Type Of Fuel	Quantity	UOM
1	Bagasse	160.00	MT/Day
2	GAS	23400.00	M <sup>3</sup> /Day
3	Coal	24.00	MT/Day
4	HSD	40.00	Ltrs./Hr

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Multi Fuel Boiler	48.00
2	DG Set (200 KVA x 2 Nos)	3.50 *

(\* above the roof of the building where the DG set 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. 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. 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.
- d. Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- e. 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
- f. D.G. Set shall be operated only in case of power failure
- g. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.

#### 8. 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	50.00	Lit./M	Sale to auth. reprocessor
2	34.3 ETP Sludge	200	Kg/Day	CHWTSDF

- 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.
- b. The unit has to display and maintain the data online outside the factory main gate in Marathi & English both on a 6'x4' display board in the manner and the report of the compliance along with photograph shall be submitted to this office & concerned Regional Office/ Sub Regional Office.

**8. 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 house keeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
  - (vii) 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.
9. The Industry shall comply with the hazardous Waste (Management, Handling & Trans Boundary Movement) Rules, 2008.
10. Industry shall comply conditions stipulated in Environmental Clearance, Govt. of India, Ministry of Environment & Forest (IA Division) vide No. J-11011/85/2005-

IA.II(I) Dt. 24<sup>th</sup> may, 2011 and J-11011/85/2005-IA II(I) Dt. 04<sup>th</sup> August, 2005 and thereafter amendment granted vide letter dt. 24<sup>th</sup> May, 2011.

11. Industry shall submit fresh Bank Guarantee of Rs. 2.0 Lakhs towards the providing AAQM station within Six Months. The Bank Guarantee shall be submitted within 15 days at Regional Office Pune.
12. Industry shall submit Bank Guarantee of Rs. 2.0 Lakhs towards operation and maintenance of pollution control system so as to achieve consented standards. The Bank Guarantee shall be submitted within 15 days at Regional Office Pune.
13. This Consent is issued pursuant to the decision of the Consent Committee meeting of the Board held on 28.09.2012 and with the approval of the Hon'ble Chairman of the Board.
12. The Capital investment of the industry is Rs. 54.84 Crores.

For and on Behalf of the  
Maharashtra Pollution Control Board,

  
(Rajeev Kumar Mital)  
Member Secretary

To,  
M/s. Oasis Alcohol Ltd., (Distillery Unit)  
S. No. 240,241, Adrushyakad Sidhha Nagar,  
A/p. Pangarkhel, Tal. Khatav,  
Dist. Satara

Copy to: RO, MPCB, Pune / SRO, MPCB, Satara- They are directed to collect the Bank Guarantees from industry within 15 days and ensure the compliance of consent conditions.

CAO / Cess Branch/ Master File

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	100000	240920	27 Mar 2012	SBI Bank
2	118000	241610	08 Oct 2012	SBI Bank