

# MAHARASHTRA POLLUTION CONTROL BOARD

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Red/ LSI

Consent No. BO/AS(T)/EIC-PN-8515-11/E/CC/  
MPCB/2012/09/0024 Date: 14/09/2012.

Consent to Establish under Section 25 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) Rules respectively].

CONSENT is hereby granted to

M/s Harneshwar Agro Products Power and Yeast (I) Ltd.,  
(Molasses based Distillery Unit),  
Muktainagar, At Post Kalas,  
Taluka-Indapur, Dist. Pune-413 105.

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 Establish is granted for a period up to Commissioning of the unit or Five years whichever is earlier.
- 2.

**“Consent to Establish will be operational only after obtaining amendment of Environmental Clearance from Competent Authority by the applicant and subject to the compliance of conditions stipulated in an Environmental Clearance including conditions which may be more stringent, if stipulated by / in the Environmental Clearance.”**

2. The Consent is valid for the manufacture of -

<u>Sr.No.</u>	<u>Product</u>	<u>Maximum</u>
1	Ethanol (By using Molasses, Cane Juice & Sugar Beet)	45 KPLD,
2	Bio-gas (byproduct)	9,000 CMD.

3. **CONDITIONS UNDER WATER (Prevention & Control of Pollution) ACT, 1974:**

- (i) The daily quantity of trade effluent from the factory shall not exceed 429 M<sup>3</sup>.
- (ii) The quantity of sewage effluent from the factory shall not exceed 13 M<sup>3</sup>.

(iii) **Trade Effluent Treatment & Disposal:**

The applicant shall provide comprehensive treatment facility for the treatment of spent wash consisting of Bio-methanisation/reboiler is as a primary followed by aerobic bio composting and shall achieve ZERO DISCHARGE. The arrangement shall be leak proof and no effluent or leakages/seepages shall find its way into environment thereby causing pollution of surface/ground/generated water.

(iv) **Condition for Aerobic Composting:**

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. Applicant shall ensure availability of adequate filler material such as press mud, baggase, agricultural, biological waste as required for effective composting system.
3. Composted material should meet the following specifications:

Moisture	..	30 to 35%
Carbon / Nitrogen Ratio	..	Below 17
Nitrogen	..	1.5 to 2%
Phosphorus	..	1.5 to 2%
Potassium	..	3 to 4%
4. The composting shall be such that it includes mechanical mixing and spraying of spent wash alongwith mechanical aeration to ensure thorough composting. Hand / manual spraying of spent wash shall not be permitted.
5. The compost leachate (1 gram of compost mixed with 100 ml. Of distilled water and filtered) Filtrate shall conform to the following limit:

PH	..	7.5 to 8.0
B.O.D.	..	Not to exceed 30 mg/l.
6. A pucca leak proof guard pond of sufficient holding capacity should be provided to cope up with the effluent discharge during short term process disturbances or in monsoon. In case of prolonged disturbance in effluent treatment and disposal system the contributing units shall be shut down and shall not be restarted without rectifying the system
7. The composting site/pits shall be made leak proof by proper lining. A catch drain shall be provided round the composting site to collect the storage pond for application on compost depots. Arrangements for overturning of compost material in pits/windrops and spraying of spent wash shall be made to ensure appropriate aeration and uniform distribution of spent wash.
8. In case of composting in open fields, the applications 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 (i.e. 31<sup>st</sup> May). The 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.
9. 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 shall be compiled and reported in the Environment Statement to be submitted every year.
10. The test wells shall 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.
11. Top pullover impervious shall be provided for entire compost yard. Press mud and compost storage so as to cover the same during untimely rains and idle period.
12. The operation of distillery should be restricted to 270 days in a year and that it will not operate during rainy season.

(vi) **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.

(vii) **Sewage Effluent Disposal:** The treated effluent shall be disposed off in a soak pit which shall be got cleaned periodically. Overflow if any shall be used on land for gardening/plantation.

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

<u>Type of waste</u>	<u>Quantity</u>	<u>Treatment</u>	<u>Disposal</u>
1. Boiler Ash	4.0 MT/day	--	}Used as filler material in
2. Yeast Sludge	5.0 MT/day	--	}Surface Bio-Composting

(ix) **Other Conditions:** The industry shall 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 kaccha 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 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 thereunder:

The daily water consumption for the following categories is as under:

(i) Domestic	...	15	CMD
(ii) Industrial Processing	...	440	CMD
(iii) Industrial Cooling	...	180	CMD
Boiler	...	65	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 (Prevention & Control of Pollution) ACT, 1981:**

- (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:** Applicant shall provide Multi Cyclone Dust Collector at the 27 TPH Boiler to limit the air emissions.

(ii) **Standards for Emissions of Air Pollutants:**

(i)	SPM/TPM	Not to exceed	150	mg/Nm <sup>3</sup>
(ii)	SO <sub>2</sub>	Not to exceed	1.25	TPD

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

<u>Sr.No.</u>	<u>Type of Fuel</u>	<u>Quantity</u>
1.	Bagasse	312 TPD
3.	Diesel	50 Ltrs/day

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

<u>Sr.No.</u>	<u>Chimney attached to</u>	<u>Height in Mtrs.</u>
1.	Boiler (27 TPH)	61
2.	D.G. Set (250 KVA)	3 above roof

- (v) 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.

- (vi) 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.

(vii) **Other Conditions:**

- 1) The industry should not cause any nuisance in surrounding area.
- 2) The industry shall utilize steam from existing Sugar Unit.

7. **CREP condition for Distillery:-**

Existing Molasses – Based Distilleries:

Non-complaint distilleries will furnish bank guarantee and action plan to concerned State Boards to ensure compliance with any or combination of the following measures.

- i) Compost making with press mud/agricultural residue/Municipal waste
- ii) Concentration and drying/incineration.
- iii) Treatment of spent wash through bio-methanation followed by two stage secondary treatment and dilution of the treated effluent with process water for irrigation as per norms prescribed by CPCB/MoEF.
- iv) Treatment of spent wash through bio-methanation followed by secondary treatment (BOD<2500 mg/l) for controlled discharge into sea through a proper submerged marine outfall at a point permitted by SPCB/CPCB in consultation with National Institute of Oceanography (NIO), so that Dissolved Oxygen in the mixing zone does not deplete.
- v) For taking decision on feasibility of one time controlled land application of treated effluent a study will be undertaken within three months.  
Road map for utilization of spent wash by the distilleries to achieve zero discharge in inland surface water courses will be as - 100% utilization of spent wash.  
Till 100% utilization of spent wash is achieved, controlled and restricted discharge of treated effluent from lined lagoons during rainy season will be allowed by SPCB/CPCB in such a way that the perceptible colouring of river water bodies does not occur.

**8. CONDITIONS UNDER HW (M&H) RULES, 1989 & AMENDMENT RULES, 2003:**

(i) The applicant shall handle hazardous wastes as specified below:

Sr. No.	Item No. Of process substance generating HW as per Schedule-I/II	Type of waste	Quantity	Disposal
1	20.3	Distillation Residue	-- Kg/Day.	Mixed with compost


9. 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 shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall 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 shall 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 shall stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.
- (iii) The firm shall 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.
- (iv) The applicant shall 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 shall be maintained. The applicant shall also submit a comparative statement of designed power and chemical consumptions vis-a vis actual power and chemical consumption along with Environmental statement.
- (v) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers down- stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- (vi) The applicant shall 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 shall pay to the Board for the services rendered in this behalf. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- (vii) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- (viii) The applicant shall 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. The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board, before starting actual commercial production.**

12. Industry shall make provisions for Piezometric wells for water quality monitoring.
13. Industry shall make provisions for temperature recording and monitoring system to Aero tiller machines.
14. **The applicant shall not take any effective steps towards implementation of the project before obtaining Environmental Clearance as per MoEF, GoI's EIA Notification dtd. 14/09/2006. If any non-compliance of the conditions of Consent to Establish is observed, the Board will initiate appropriate legal action including revocation of Consent & further action.**
15. This Board reserves the right to amend, revoke or add any conditions in this consent and same shall be binding on the applicant.
16. **This Consent is issued with the overriding effect over previous Consent and pursuant to the decision of Consent Committee meeting held on 11.10.2011.**
17. The capital investment of the Proposed Distillery Unit Rs. 39.25 Crores.

  
 (V.B. Waghjale)  
 Member Secretary

To,  
**M/s Harneshwar Agro Products Power and Yeast (I) Ltd.,**  
**(Molasses based Distillery Unit), Muktainagar, At Post Kalas,**  
**Taluka-Indapur, Dist. Pune-413 105.**

Copy to:

- 1) Regional Officer (Pune), MPCB, Pune.
- 2) Sub-Regional Officer (Pune-I), MPCB, Pune.
- 3) Chief Accounts Officer, MPCB, Mumbai

Received Consent fee of -

Amount	DD. No.	Date	Drawn on
Rs.50,000/-	898416	22.12.2010	SBI
Rs.25,000/-	489269	12.09.2012	Bank of Maharashtra
4) Cess Branch, MPCB.			5) Master file.