

# MAHARASHTRA POLLUTION CONTROL BOARD

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## RED/LSI

Consent No. BO/JD( W.P.C.)/EIC NO. PN-9032-11/E/CC-CAC- 166

Date: 18/01/2012

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 & T M) Rules respectively].

CONSENT is hereby granted to,

**M/s. Green Power Sugars Ltd.,  
(Molasses base Distillery Unit)  
A/p – Gopuj, Tal. – Khatav,  
Dist.- Satara.**

located in the area declared under the provisions of the Water Act, Air act and Authorisation 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 Establish is granted for a period upto commissioning of the unit OR 5 Years whichever is earlier.**

**Consent to Establish will be operational only after obtaining Environmental Clearance as per EIA Notification, 2006 and Amendments thereto from competent authority by the applicant and subject to the compliance of conditions stipulated in an Environmental Clearance.**

2. **The consent is valid for 30 KLPD molasses based distillery for manufacture of following products-**

Sr. No	Product	Maximum Quantity
1.	Rectified Spirit [OR]	30 KL/D
2.	Extra Neutral Alcohol [OR]	28.50 KL/D
3.	Absolute Alcohol	27 KL/D

(Total plant capacity shall be 30 KLPD)

## **2. Conditions Under Water Act:**

- (i) The daily quantity of trade effluent from the factory should not exceed **300 m<sup>3</sup>/day**.
- (ii) The daily quantity of domestic effluent from the factory should not exceed **12 m<sup>3</sup>/day**.
- (iii) **Trade Effluent Treatment:**

The applicant shall provide comprehensive treatment system or volume reduction by suitable method followed by Multiple Effect Evaporator and reboiler and followed by biomethanation, with aerobic biocomposting to 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 or ground water

## **Conditions for Aerobic Composting:**

- i) Applicant shall ensure availability of adequate filler material such as press mud, bagasses, 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 shall meet the following specifications –

Moisture	...	30 to 35%
Carbon/Nitrogen ratio	...	Below 17
Nitrogen	...	1.5 to 2%
Phosphorous	...	1.5 to 2%
Potassium	...	3 to 4%

iii) The composting site shall 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 leachate (1 gr. of compost mixed with 100 ml. of distilled water and filtered) Filtrate should conform to the following limit.

pH	Between	7.5 to 8.0
BOD 3 days 27 °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 shall be made leak proof by proper lining. A catch drain shall 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 shall be made to ensure appropriate aeration and uniform distribution of spent wash. (Guidelines are enclosed).

vii) 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 of the composted manure before monsoon (i.e. 31<sup>st</sup> 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 shall 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 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.

x) 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.

xi) The operation of distillery shall be restricted to 270 days in a 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.

xii) The spent wash shall 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.

(iv) **Sewage Effluent Treatment:** The applicant should 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.

(v) **Sewage Effluent Disposal:** The treated domestic effluent should be used on land for gardening / irrigation only.

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

Type of Waste	Quantity	Treatment / Disposal
----- N.A -----		

- (vii) **Other conditions:** The industry should monitor effluent quality regularly.
- (viii) Industry shall comply condition of zero discharge through storage in impervious lagoon followed by composting and shall not use spent wash for ferti-irrigation.

### 3. CONDITIONS FOR MOLASSES STORAGE:-

- i] The molasses shall be properly collected and stored in steel tanks which should be absolutely leak proof. At no stage of handling of molasses, there should be leakage or spillage.
  - ii] The capacity of tanks for storage of molasses shall be such that at no time the molasses should be required to be stored in kutch pits. Adequate space storage capacity should 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 should 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 should 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 should 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".
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 Rules there under :

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

i	Domestic	15	CMD
ii	Industrial Processing	353	CMD
iii	Industrial Cooling / Boiler	100	CMD
iv	Agriculture/Gardening	----	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 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:** ESP/ Wet Scrubber / venturi Scrubber of sufficient capacity shall be provided to the bagasse fired boiler.

#### Standards for Emissions of Air Pollutants:

(i)	SPM	Not to exceed	150 mg/Nm <sup>3</sup> .
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- (iii) The applicant should observe the following fuel pattern :-

Sr. No.	Type of Fuel	Quantity
	Steam will be taken from the boiler of parent Sugar factory	

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

Sr.No.	Chimney attached to	Height in Mtrs.
	Steam will be taken from the boiler of parent Sugar factory	

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- (v) The applicant shall 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.
- (vi) The industry shall 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 a.m.
- (vii) Other Conditions:
  - [1] The industry shall not cause any nuisance in surrounding area.
  - [2] The industry shall monitor stack emissions and ambient air quality regularly.

**7. CONDITIONS UNDER HW (M,H & TM) RULES, 2008 :**

The applicant should handle hazardous wastes as specified below:

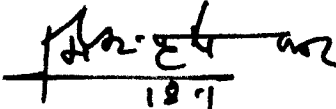
Sl.	Item No (Sch-I)	Type of Waste	Quantity	Disposal
1	41.1	Distillation Residue	300 Kg/Year	Mixed with composting
2.	38.1	Residue of Barrel Cleaning	300 Kg/Year	Mixed with composting

- 8. Whenever due to any accident or other unforeseen act or even, such emissions occur or 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 shall 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 1<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 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 shall 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 shall submit MPCB, the Environmental Statement Report for the financial year ending 31<sup>st</sup> March in the prescribed Form-V as pre 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 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 shall 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

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- collection system. Neither storm water nor discharge from other premises should be allowed to mix with the effluents from the factory
- (vii) 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 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 shall 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 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.
10. Industry shall comply with the Hazardous Waste (Management, Handling & Boundary Movement) Rules, 2008.
11. The Board reserved the right to amend, revoke or add any conditions in this consent and same shall be binding on the applicant.
11. The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board, before starting actual commercial production.
12. **The applicant shall not take any effective steps for implementation of the project before obtaining Environmental Clearance as per EIA Notification, 2006 and Amendments thereto.**
13. This consent is issued pursuant to the decision of Consent Appraisal Committee of the Board in its meeting held on 10/01/2012.
14. Gross Block Capital Investment of the Distillery unit is Rs. 38.85 Crore.

For and on Behalf of the  
Maharashtra Pollution Control Board,



(Milind Mhaiskar)  
Member Secretary

To,  
M/s. Green Power Sugars Ltd.,  
(Molasses Distillery Unit)  
A/p- Gopuj, Tal.- Khatav,  
Dist.- Satara.

Copy to: RO MPCB, Pune / SRO MPCB, Satara / CAO / HWM Wing (RO-HQ)/ Cess Wing/Master file

Received	Amount	D.D. No.	Date	Bank Name
Consent fee	50000/-	003665	01/02/2011	Bank of India
(in Rs.) vide:	25000/-	021411	06/01/2012	Bank of India