

# MAHARASHTRA POLLUTION CONTROL BOARD

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Kalpataru Point, 2<sup>nd</sup> - 4<sup>th</sup> Floor

Opp. Cine Planet Cinema,

Near Sion Circle, Sion (E)

Mumbai-400 022.

RED/LSI

Date: 03/02/2012

Consent No .BO/RO-KP/JD-PAMSI/EIC- KP-8315-11/O/Amnd/CC- 187

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 / 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. Vinati Organics Ltd.,  
Plot No. A-20, MIDC, Lote Parshuram,  
Tal. Khed, Dist. Ratanagiri - 415 722.**

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/ 05/ 2016.

2. The Consent is valid for the manufacture of -

<u>S.No.</u>	<u>Products</u>	<u>Maximum Quantity</u>
1]	Acryl Amido Methyl Propane Sulphonic Acid (AAMPS)	700 Mt/m.
2]	50% solution of Sodium- Acryl Amido Methyl Propane Sulphonic Acid (Na-AAMPS)	600 Mt/m.
3]	Iso-butylene (IB)	1000 Mt/m.
4]	Di-acetone acrylamide (DAAM)	83 Mt/m.

#### By-Products

1]	N-Tertiary Butyl Acrylamide	50 Mt/m.
2]	Polymer Powder	25 Mt/m.
3]	Calcium Sulphate (CaSO <sub>4</sub> )	15 Mt/m.
4]	Methanol	560 Mt/m.
5]	High Purity MTBE	250 Mt/m.

3. CONDITIONS UNDER WATER ACT:

(i) The daily quantity of trade effluent from the factory shall not exceed 20.0 m<sup>3</sup> + 23 m<sup>3</sup> from expansion, which shall be 100 % recycled in process to achieve

(ii) The daily quantity of sewage effluent from the factory shall not exceed 3.0 m<sup>3</sup>.

(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	Between	5.5 to 9.0
2)	Suspended Solids	Not to exceed	100 mg/l.
3)	BOD 3 days 27° 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)	Total Dissolved Solids	Not to exceed	2100 mg/l.
7)	Sulphates	Not to exceed	1000 mg/l.
8)	Chlorides	Not to exceed	600 mg/l.
9)	Iron	Not to exceed	3 mg/l.
10)	Zinc	Not to exceed	5 mg/l.
11)	% Sodium	Not to exceed	60%

(iv) **Trade Effluent Disposal:** The trade effluent shall be treated by Reverse Osmosis (capacity 66 CMD). Out of total effluent generated 27 m<sup>3</sup> effluent from expansion shall be recycled in the process and 23 m<sup>3</sup> effluent after treatment shall be used on land for gardening / plantation to maximum extent and excess shall be connected to CETP for further treatment.

(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 27° 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 Waste:**

Type of Waste	Quantity	Treatment	Disposal
1. Paper s& waste packing material	500 Kg/Yr.	----	Sale.

(viii) **Other conditions:** The industry should monitor effluent quality regularly by MoEF approved laboratory.

4. 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	...	5.0 CMD
(ii)	Industrial Processing	...	22.0 CMD
(iii)	Industrial Cooling	...	600.0 CMD

(iv) Agriculture/Gardening ... 10.0 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.

5. **CONDITIONS UNDER AIR ACT :**

- (i) The applicant shall install a comprehensive control system consisting of control equipment 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. Scrubber of adequate capacity shall be provide to limit the air emissions.
2. Ventury scrubber / Bag filter of adequate capacity shall be provided to Boiler to limit the air emissions.

**B) 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	993.6	Kg/day
(iii)	SO <sub>2</sub> (Process)	Not to exceed	50	ppm.
(iv)	Acid mist	Not to exceed	35	mg/Nm <sup>3</sup>
(v)	Chlorine	Not to exceed	3	ppm.

**C) Conditions for D.G. Set:**

1. Noise from D.G.Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
2. 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 metres from acoustic enclosure/room and then average.
3. 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.
4. Industry should make efforts to bring down noise level due to D.G. set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
5. Installation of D.G. set must be strictly in compliance with recommendations of D.G. set manufacturer.
6. A proper routine and preventive maintenance procedure for D.G. set should be set and followed in consultation with the D.G. manufacturer which would help to prevent noise levels of D.G. set from deteriorating with use.
7. D.G. set shall be operated only in case of power failure.
8. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. set.

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

<u>Sr.No.</u>	<u>Type of Fuel</u>	<u>Quantity</u>
1.	Coal	4071 Kg/Hr.
2.	Furnace Oil	460 Kg/Hr.

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

<u>Sr.No.</u>	<u>Chimney attached to</u>	<u>Heights in Mtrs.</u>
1.	Boiler	40
2.	Boiler	35
3.	Boiler	40
4.	Flair (Emergency stack)	32
5.	Hot oil Unit	30.5
6.	D.G. Set (320 KVA)	3.0 *
7.	D. G. Set (630 KVA)	5.0 *
8.	D. G. Set (320 KVA)	3.0 *

(\* Above the roof of the building in which it is installed)

(iv) The applicant shall provide ports in the chimney(s) and facilitates 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 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 p.m.

(vi) Other Conditions :

- 1) The industry should not cause any nuisance in surrounding area.
- 2) The industry should monitor stack emission and ambient air quality regularly by MoEF approved laboratory.

6. **CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008:**

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

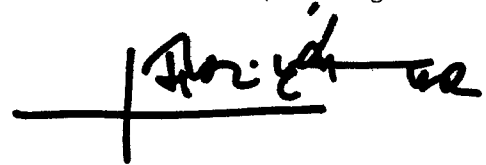
Sr. No.	Category as per Schedule - I	Type of waste	Quantity MT/Yr.	Disposal
1.	5.1	Used / Spent oil	3200 Ltr./Yr.	Sale to authorized party
2.	34.3	ETP Sludge	3200 Kg./Yr.	CHWTSDF

3.	20.3	Distillation Residue HOM (IB Plant)	104.28 Mt/Yr.	CHWTSDF
4.	28.1	Process Residue	255.3 Mt/Yr.	CHWTSDF

7. Whenever due to any accident or release of gases 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 and the production process should be stopped by taking all necessary safety measures. The industry shall also monitor the emissions and ensure that the emissions do not cause any harm or nuisance in the surrounding. The industry should not restart the process without permission of the Board and other statutory organizations as require under the law.
8. **Industry shall comply with following additional conditions:**
- i. 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.
  - ii. The applicant shall bring minimum 33% of the available open land under green coverage/ tree plantation.
  - iii. Solid waste – The non hazardous solid waste arising in the factory premises, sweepings, etc., be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal to dumping ground.
  - iv. The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by he applicant to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.
  - v. The applicant shall 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.
  - 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.
  - vii The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
  - viii The firm shall submit to this office, the 30<sup>th</sup> day of September every year, 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.
  - ix. As inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
  - x. The applicant shall install a separate electric 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.
  - xi. 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.

Xii Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.

9. If CETP dose not work for achieving standards & problem of pollution occurs, industry shall voluntarily stop the production or total effluent shall be reused.
10. The consent should not be construed as any exemption from obtaining necessary NOC from Other Govt. agencies as deeme fit necessary.
11. The industry shall also comply with the Industry specific standards notified under Environment Protection Act.
12. Applicant shall comply with the conditions stipulated in Environmental Clearence dtd. 7<sup>th</sup> July, 2011.
13. Applicant shall maintain records /install flow measurement device for verification of zero discharge for expansion.
14. This consent is issued by overriding earlier consent No. BO/RO-KOLHAPUR/JD-PAMS/EIC-KP-7182-11/R/CC-118 Dt. 04.08.2011.
15. This consent is issued pursuant to the decision of 19<sup>th</sup> CC meeting held on 19.01.2012 of the Board.
16. The Capital Investment of the industry is Rs. 88.50 Cr. (Existing Rs. 40.0 Cr + Expansion Rs 48.50 Cr.)



(Milind Mhaiskar, IAS)  
Member Secretary

To  
**M/s. Vinati Organics Ltd.,**  
**Plot No. A-20, MIDC, Lote Parshuram,**  
**Tal. Khed, Dist. Ratanagiri - 415 722.**

Copy to:

1) Regional Officer, MPCB, Kolhapur / Sub-Regional Officer, MPCB, Chiplun.- They are requested to ensure the compliance of consent conditions.

2) Chief Accounts Officer, MPCB, Mumbai

Received Consent fee of - <u>Amount</u>	<u>D.D.No.</u>	<u>Date</u>	<u>Drawn on</u>
Rs. 3,75,100/-	308525	20-09-2011	State Bank of India

3) Cess Branch, MPCB.

4) Master file.