

MAHARASHTRA POLLUTION CONTROL BOARD

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Sion Circle, Sion (E),

Mumbai - 400 022

Red/L.S.I

Date: 28/June/2012

Consent No:-BO/PAMS/REIC NO.PN-12592-12/CAC-482

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

M/s Jubilant Life Sciences Ltd
Village Nimbut-Nira, Rly Station Nira
Tal-Baramati, Dist-Pune.

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: 31/12/2012.
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Vinyl Acetate Monomer (VAM) OR	45.00	MT/Day
	Ethyl Acetate	36.00	MT/Day
2	3-Cyno Pyridine OR	06.00	MT/day
	Acetic Anhydride	52.00	MT/Day
3	Ethyl Acetate * * (80 MT/Day Existing and 56 MT/Day Expansion)	136.00	MT/Day
4	Ethyl Alcohol	100.00	KL/Day
5	Kasel Oil	13.33	Ltrs /Day
6	Liquid CO ₂	50.00	MT/Day
7	Acetic Acid	106.00	MT/Day
8	Acetaldehyde	84.00	MT/Day
	Ethyl Acetate * OR	75.00	MT/Day
9	Butyl Acetate *	40.00	MT/Day
	Acetic Anhydride **	125.00	MT/Day
1	Alkyl Pyridine - BY PRODUCT	0.18	MT/Day

* Only one product at a time

** Production of Ethyl Acetate quantity 136 MT/day and production of Acetic Anhydride 125 MT/day is granted as per EC obtained from MoEF, dated 23/12/2008 and amended dated 21/12/2010. Accordingly consent to establish obtained vide No. BO/PAMS/ Amend/E/EIC NO PN-11631-11/ CC-CAC-79 dtd 17/12/2011. The remaining product from consent to establish will taken in to consideration at the time of 1st consent to Operate.

(The operation of distillery should be restricted to 270 days in a year. The distillery should remain closed during rainy season i.e. from 10th June to 10th Sept. every year)

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 1967.0M³.
- The trade effluent from distillery plant shall not exceed 1270 M³/day
 - The trade effluent from chemical plant shall not exceed 697 M³/day
 - The trade effluent shall not exceed after commencement of chemical production to overall limit and 410 m³/day for proposed expansion.
(As per Consent to Establish obtained quantity 767 m³/day)

- (ii) The daily quantity of sewage effluent from the factory shall not exceed 155.0M³.

(At the time of Consent to 1st Operate industry shall reduce the industrial effluent quantity by 73.00 CMD and water consumption by 73.00 CMD and for cooling by 403.00 CMD from Consent to establish bearing No.. BO/PAMS/Amend/E/EIC NO PN-11631-11/ CC-CAC-79 dated 17/12/2011.

(iii) Trade Effluent treatment & Disposal :

- i) Treatment: The applicant shall provide comprehensive treatment system consisting of primary / secondary and/or tertiary treatment for chemical plant , effluent and out of 327 m³/day will be reused in distillation plant and 370 m³/day will be used for gardening purpose 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 deg 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	Chlorides	Not to exceed	600 mg/l
8	Sulphates	Not to exceed	1000 mg/l
9	Total Ammonical Nitrogen	Not to exceed	50 mg/l

- ii) The applicant shall provide comprehensive treatment system and well designed aerobic composting for distillery plant effluent quantity 1270 m³/day to achieve following standards of composting for achieving zero discharge. The arrangement should be leak proof and no effluent or leakages / seepages should find its way into environment thereby causing pollution of surface or ground water.

Conditions for Aerobic Composting:

- 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.
- Applicant shall ensure availability of adequate filter material such as press mud, baggasses, agricultural, biological waste as required for effective composting system. Documentary evidence to this effect shall be submitted to the Board.
- Composted material shall meet the following specifications:-

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

- iv) 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.
- v) The compost leachate (1 grm of compost mixed with 100 ml of distilled water and filtered) Filtrate shall conform to the following limit.
- | | | |
|-------------------|-----|--------------------|
| pH | ... | Between 7.5 to 8.0 |
| BOD 3 days 27 ° C | ... | 30 mg/l |
- vi) 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 concerned units shall be shut down and shall not be restarted without rectifying the system.
- vii) 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 over turning of compost material in windrows and spraying of spent wash shall be made to ensure appropriate aeration and uniform distribution of spent wash.
- viii) 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. 31st 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.
- ix) 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.
- x) 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.
- a) 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 basis and report submitted to SPCB.
- xi) 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.
- xii) The operation of distillery should be restricted to 270 days in a year and that it will not operate during rainy season.
- (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 27°C. | Not to exceed | 100 | mg/l. |
- (vi) **Sewage Effluent Disposal:**
The treated domestic effluent shall be soaked in a 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	Disposal
1	CETP Sludge	80.00	Kg/Day	used in Bio-composting
2	Coal Ash	92.00	MT/Day	Land filling
3	Fermentation sludge	15.00	MT/Day	Used in composting

(viii) **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 of 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 tones shall be displayed prominently near the tank.
- vi) The above conditions shall be in addition tot and not in derogation of the provisions contained in the "Bombay Molasses Rules, 1955" and "Maharashtra 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 | ... | 158.00 CMD |
| (ii) Water gets Polluted & Pollutants are Biodegradable | ... | 2512.00 CMD |
| (iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic | ... | 0.00 CMD |
| (iv) Industrial Cooling, spraying in mine pits or boiler feed | ... | 5620.0 CMD |
| (v) Gardening / Plantation | ... | --- |

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: Industry shall provide dust collector of sufficient capacity to control the emissions.

- 1) ESP should be provided to baggasse / biogas fired boiler.
- 2) Electrostatic Precipitator to Coal fired boiler should be provided.
- 3) Sufficient capacity scrubber, cyclone, ESP should be provided whenever necessary should be operated and maintained properly.
- 4) There shall not be any secondary (fugitive) emissions.

7. Standards for Stack Emissions:-

- (i) Standards for Emissions of Air Pollutants:

(i) SPM/TPM	Not to exceed	150 mg/Nm ³
(ii) SO ₂	Not to exceed	1488 Kg/day
(iii) SO ₂ Process	Not to exceed	50 ppm

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

Sr. No.	Type Of Fuel	Quantity	UOM
1	Coal (Boiler A & B)	130.00	MT /Day
2	BIO-GAS (Boiler C & E)	51000.00	m ³ /day
3	LDO (Dowtherm Vaporizer)	5.00	KL/Day
4	Coal (Boiler F)	310.00	MT /Day
5	Furnace Oil	714.00	Kg/Hr
	OR		
	Producer GAS	5833.00	m ³ /hr
	OR		
	Bio Gas	1555.00	m ³ /hr

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Boiler A & B	60.00
2	Boiler-C & E	50.00 Each
3	Boiler-D (standby)	40.00
4	Dowtherm Vaporizer	20.00
5	Ethylene Vent	30.00
6	Vam Vent	30.00
7	CO ₂ Vent	25.00
8	D.G Set(380KVA)-2Nos	4.00 *
9	Boiler F	55.00
10	Furnace -AC20II Plant	48.00
11	D.G Set(600KVA) *	4.00

* Above the roof of the bldg in which it 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.

8. 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. The 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.
- d. 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.
- e. Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
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
- g. D.G. Set shall be operated only in case of power failure.
- h. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.

9. 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	1.1 Tarry residues	9551.00	Kg/M	CHWTSDF for incineration
2	20.1 Contaminated aromatic, aliphatic or naphthenic solvents not fit for originally intended use	5297.00	Kg/M	

3	5.1 Used /spent oil	943.00	Ltr/M	Send to authorized recycler
4	17.2 Spent Catalyst	80.10	Kg/Day	CHWTSDF

(ii) Treatment: - NIL

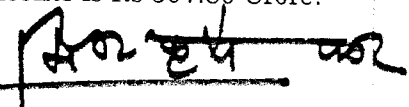
10. Whenever due to any accident or gas leakage or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Collector, Directorate of Industry, Safety and Health, Police Station, Fire Brigade, Directorate of Health Services, Department of Explosives, Board and Local Body and the production process should be stopped by taking all necessary safety measures. The industry shall also monitor the emission 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 organization as require under the law.

11. 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 30th day of September every year, the Environmental Statement Report for the financial year ending 31st 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.
12. This consent shall not be construed as any exemption from obtaining necessary No Objection Certificate from other Government agencies as may deemed fit necessary.
13. The industry shall comply the Environmental Clearance conditions obtained from MoEF, dated 23/12/2008 and amended dated 21/12/2010.
14. This consent is granted has an overriding effect to the consent vide No BO/PAMS/R/EIC No. PN-11444-11 dated 09/03/2012 valid up to 31/12/2012.
15. This consent is issued as per the decision taken in the meeting of the Consent Appraisal Committee of the Board held on 29/05/2012.
16. The Total Capital investment of the industry five (5) consents is Rs 307.80 Crore.


(Milind Mhaiskar)
Member Secretary

To,
M/s Jubilant Life Sciences Ltd
Village Nimbut-Nira, Rly Station Nira
Tal-Baramati, Dist-Pune

Copy to:

Regional Officer, MPCB, Pune / SRO, Pune I

-They are directed to ensure the compliance of consent conditions.

Chief Accounts Officer, Cess Branch, MPCB / Master file.

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	75000/-	046140	17/12/ 2011	Bank of Maharashtra
2	100/-	046141	17/12/ 2011	Bank of Maharashtra
3	25000/-	126952	27/01/2012	State Bank of India
4	25000/-	126931	24/01/2012	State Bank of India