MAHARASHTRA POLLUTION CONTROL BOARD

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Consent order No :- Format1.0/ BO/CAC-Cell/ EIC NoRD-2728-14 /8th CAC - 6672
Date- 16/07/2014

To.
M/s Privi Organics Ltd.
Plot No.C-3,4,5,6,6/1,
7,8,9,33/1 & X-9,10,11
M.I.D.C. Mahad,
Dist.-Raigad

Subject: Consent to Establish for expansion under RED category.
Ref : 1. Existing consent no Format 1.0/BO/CAC-Cell/EIC No RD-2693-13/5th CAC-5854 dated 06.05.2014
2. Minutes of CAC meeting held on 30.06.2014.

Your application:CE1403000022
Dated: 07.02.2014
For: Consent to Establish for expansion
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 under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II ,III & IV annexed to this order:

1. The consent is granted upto commissioning of the unit or 5 years whichever, is earlier.
2. The actual capital investment of the industry is Rs. 67.92 Crs. (As per C.A.Certificate submitted by industry). The total capital investment of the industry is Rs 181.59 crs (existing= Rs 113.6732 + proposed =Rs 67.92 crs)
3. The Consent is valid for the manufacture of –

Sr. No.	Product Name	Maximum Quantity in MT/M
01	Isobornyl cyclohexanol (IBCH)	50.0
02	L-Carvone	50.0
03	Orange oil folds	12.0
04	D-Limonene	125.0
05	Myrcene	400.0
06	Alpha-Campholenic aldehyde	50.0
07	Floreol	80.0
08	D-Carvone	5.0
09	Dihydrocarvone	5.0
10	Carvomenthone	5.0
11	Nimberol	1.0
12	Dihydromyrcene	150.0
13	Sandal fleur & derivatives	20.0
14	Sandal touch	5.0
15	Citral extra pure	30.0
16	Citronellal	20.0

17	Cyclocitral (Alpha & Beta mixture)	2.0
18	Isocitronellene & Isomer	30.0
19	Citronellyl nitrile	30.0
20	A-Pinene from CST	945.0
21	B-Pinene from CST	288.2
22	Limonene from CST	-42.01
23	Mixed Terpenes/Terpene biofuel from CST or	744.0
	DDTO/Carene varities 60,90,98/ Terpene bio fuel	679.15
24	A-Pinene from GTO	537.0
25	B-Pinene from GTO	334.0
26	Amberfleur	400.0
27	MI for soap	1.0
28	Violetone Coeur	2.0
29	Timber Touch/Timber forte	3.0
	Total	4961.34
1	Electricity generation	4 MW
2	Recovery of Concentrated sulphuric acid	

Sr. No.	By-Product Name	Maximum Quantity in MT/M
1	**From Isobornyl Cyclohexanol**	
	Aqueous fluoroboric acid (Fluoboric acid)	43.34
	Recovered Toluene	128.3
	Recovered catalyst	3.9
	Recovered IPA	22.1
	Recovered Methanol	5.0
	Column tops	34.9
	Column bottom mass	41.9
2	**From L-Carvone**	
	Recovered cyclohexane	30.0
	Recovered D-Limonene	20.6
	Spent Aq Layer (Aluminium Sulphate +IPA)	94.6
	MEK+Butanol recovered	133.0
	Column tops	20.1
	Column bottom mass	22.8
	2-Butanol (Separated from MEK + Butanol mixture)	29.0
3	**From Floreol**	
	Recovered EDC	22.73
	DHP	28.05
	Column Tops	8.64
	Column Bottom mass	7.45
4	**From A-Campholenic Aldehyde**	
	Recovered Toluene	110.3
	Column tops	4.2
	Column bottom mass	19.7

	Zinc bromide solution (16-20%)	8.2
	Sodium Sulphate decahydrate	25.5
5	**From D-Carvone**	
	Recovered cyclohexane	3.0
	Recovered L-Limonene	2.1
	Spent Aq.layer (Aluminium sulphate +IPA)	9.5
	MEK+Butanol rec	13.3
	Column tops	2.0
	Column bottom mass	3.1
	2-Butanol (recovered from MEK+Butanol mixture)	2.9
6	**From Dihydrocarvone**	
	Recovered cyclohexane	2.5
	Recovered EDC	17.4
	Column Tops	1.3
	Column Bottom mass	2.9
7	**From Carvomenthone**	
	Catalyst recovered	0.05
	IPA recovered	5.19
	Recovered cyclohexane	13.88
	Column Tops	4.14
	Column Bottom mass	2.69
8	**From Myrcene**	
	Column Bottom mass	1.80
9	**From Nimberol**	
	Spent Aq.Layer (27% Acid)	3.85
	Recovered Toluene	3.44
	Spent acid layer solution	0.48
	Acetic acid solution (50-60%)	3.79
	Recovered MPK	2.51
	recovered catalyst	0.01
	Column Tops	0.61
	Column bottom mass	0.48
10	**From Dihydromyrcene**	
	Column Tops	19.5
	Column Bottom mass	32.3
11	**From Sandal fleur & derivatives**	
	Recovered Cyclohexane	28.8
	Recovered methanol	43.0
	Sodium Borate solution	15.0
	Column Tops	11.3
	Column Bottom mass	4.7
12	**From Sandal Touch**	
	Recovered MEK+Methanol	45.7
	Spent Aq.Layer (Pot.acetate)	6.5
	Recovered Catalyst	0.2
	Column Tops	2.2
	Column Bottom mass	1.4
	Recovered 2 -butanol	3.4

13	**From Citronellal**	
	Column Tops	5.9
	Column bottom mass	1.8
	Recovered catalyst	0.22
14	**From Cyclocitral (A&B Mixture)**	
	Aniline recovered	2.0
	Recovered cyclohexane	30.6
	Ammonium sulphate solution (30-35 %)	47.3
	Column Tops	0.5
	Column bottom mass	0.9
15	**From Isocitronellene & Isomer**	
	Column Tops	1.77
	Column bottom mass	1.24
16	**From Citronellyl nitrile**	
	Ammonium Sulphate Solution/Sodium sulphate solution (18-28 %)	87.5
	Column Tops	1.3
	Column bottom mass	1.6
	White oil residue	8.1
17	**From A-Pinene from CST &B-Pinene from CST & Limonene from CST & Mixed terpenes from CST OR DDTO/Carene 60/ 90/98 Terpene bio fuel**	
	Calcium Sulphate OR	181.56
	Sodium Sulphate OR	189.57
	CST DMS/DMDS/Mixed sulphurs compounds OR	85.44
	Sodium Sulphide & Sodium Hydrogen sulphide solution	250.8
	Heavy Fractions	105.93
	Zinc Chloride solution	336.43
18	**From A-Pinene & B-Pinene (From GTO)**	
	Dipnetene / Terpene bio fuel	95.0
	Pine tar	51.0
19	**From Amberfleur**	
	Aqueous fluoroboric acid (Fluoboric acid)	109.34
	Spent Phosphoric acid Layer	42.29
	Recovered Toluene	111.51
	Column Tops	128.68
	Column Bottom mass	86.5
20	**From MI for Soap**	
	Column Tops	0.31
	Column bottom mass	0.34

21	**Violetone couer**	
	Column Tops	1.20
	Column bottom mass	2.32
22	**From Timber touch/Timber forte**	
	Recovered MPK	11.04
	Spent Phosphoric acid	2.32
	Barium hydroxide	1.0
	Recovered Toluene	3.43
	Column tops	1.51
	Column bottom mass	1.64
	Recovered Catalyst	0.04
23	**Spent Phosphoric Acid** Product- Ionones	38.2
24	**Tops and bottom** Product- Di hydro myrcenol	17.0
25	**Tops and residue** Products- A. Ionone B.Di hydro myrcenol C. Para Tertiary Butyl Cyclo Hexyl Acetate(PTBCHA) D.Ortho Tertiary Butyl Cyclo Hexyl Acetate(OTBCHA) E. Terpinyl Acetate F.Citronellol G.Geraniol H. Geranyl Acetate I. Citronellyl Acetate J.Timber Touch	147.3
25	**ISO Longifolene** product –Longifolene Ketone	41.3
26	**Spent Chromium Sulphate** product – Damascone	75.0
27	Potassium Sulphate product – Damascone	20.0
28	MgCl2/Mg(OH)Cl/Mg SO4 solution	90
29	**20%-30 % Ammonium Sulphate** product – Damascone	165.0
30	**Potassium Acetate** product – GPMI	16.0
31	**spent acetic Acid** product – A. PTBCHA B. OTBCHA	200.0
32	**Sodium Acetate** product – A. PTBCHA B. OTBCHA C. Geranyl Acetate D. Citronellyl Acetate	50.0

	E. Terpinyl Acetate F. Isobornyl acetate	

4. Conditions under Water (P&CP) 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	Nil	N.A	N.A
2.	Domestic effluent	7	As per Schedule –I	CETP

5. Conditions under Air (P& CP) Act, 1981 for air emissions:

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	Boiler	01	As per Schedule -II
2.	Thermic Fluid heater	01	As per Schedule -II

6. Conditions about Non Hazardous Wastes

Sr. No.	Source	Quantity & UoM	Disposal
1	Other Waste (Wooden waste, paper & Decontaminated plastic	390.0 kgs/M	Sale to authorised party
2	Boiler Ash	202.5 MT/ M	Brick manufacturer/Land filling
3	Thermo pack ash	5.5 MT/ M	Brick manufacturer/Land filling
4	Canteen Waste	905 kgs/M	Sale to Vermiculture

7. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatmer	Disposal
1	Discarded containers/ MS/HDPE Drums IBCs	33.3	118 25 50	Nos/M	--	Sale to authorized party
2	Used/spent oil	5.1	0.10	MT/M	--	Sale to authorized party
3	Sludge from concentration techniques (MEE)	36.1	20.4	MT/M	--	CHWTSDF/ Sale to authorized party

4	Batteries Rules, 2002	NIL	30	Nos/A	--	Sale to authorized party
5	Spent Catalyst	35.2	0.3	MT/M	--	Sale to authorized party
6	Waste or residue containing oil (oil soaked gaskets and cotton waste)	5.2	150	Kg/M	--	CHWTSDF
7	E-waste Rules, 201	NIL	57	Kg/M	--	Sale to authorized party
8	Spent carbon/ Charcoal	35.3	2.2	MT/M	--	Incineration in boiler
9	Silica	NIL	2.2	MT/M	-	Sale to authorized party
10	Resin	NIL	0.1	MT/M	-	CHWTSDF
11	Chemical sludge from waste water treatment	34.3	32.0	MT/M	-	CHWTSDF

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
10. The applicant should not take any effective steps for implementation of the project before obtaining Environmental Clearance as per EIA Notification 2006 and amendments thereto.
    As per Para 2 of EIA notification dated-14/09/2006, the effective steps include starting of any construction work or preparation of land by the project management. However as clarified by the MoEF vide office memorandum no. J-1103/41/2006-IA.II(I); Dated-19/8/2010,fencing of the site to protect it from getting encroached & construction of temporary shed(s) for the guard(s) & acquisition of land shall not be treated as an effective steps.

For and on behalf of the
Maharashtra Pollution Control Board

(Rajeev Kumar Mittal, IAS)
Member Secretary

Received Consent fee of –

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	100000/-	246020	23/12/2013	S.B.I.

Copy to:

1. Regional Officer – Raigad and Sub-Regional Officer-Mahad., MPCB, They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updation purposes.

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

1) A.] As per your consent application, you have proposed to install septic tank.

B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

(1) Suspended Solids. Not to exceed 100 mg/l.
(2) BOD 3 days 27°C. Not to exceed 100 mg/l.

C] The treated sewage shall be discharged to CETP.

2) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or and extension or addition thereto.

3) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.

4) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said act.

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	218.2
2.	Domestic purpose	9.0
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	2.0
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	------

5) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act,1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.

Schedule-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have proposed to install the Air pollution control (APC)system and also proposed to erect following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity UoM	S %	SO_2 Kg/Day
1	Boiler (30 TPH) (Captive power plant)	ESP	46	Coal	120 TPD (existing 90.0 TPD + Proposed 30.0 TPD)	0.5	1200
2	Thermic Fluid Heater	Cyclone dust collector/ wet scrubber	30	Coal	3.624 TPD	0.5	36.24

After commissioning of 30 TPH Boiler & TFH, all existing boilers will remain stand-by and only new 30 TPH Boiler and TFH will be operational.

2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time / Environmental Clearance / CREP guidelines.

3. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Particulate matter	Not to exceed	150 mg/Nm^3.

4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement alteration well before its life come to an end or erection of new pollution control equipment.
5. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

Schedule-III
Details of Bank Guarantees

Sr. No.	Consent (E)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to E	Rs 10 lakhs	Within 15 days from the date of issue of consent	Industry shall not take any effective steps before obtaining EC	15.07.2019	15.11.2019

Schedule-IV

General Conditions:

1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
2) If the MIDC pipeline is broken/ overflowing chamber, in such cases industry shall not discharge their treated effluent into MIDC drain, it shall be sent to CETP by tanker.
3) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
4) 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.
5) 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.
6) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed 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 and conditions of this consent.
7) 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 per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
8) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW(MH&TM) Rules 2008, which can be recycled/processed/reused/recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
9) The industry should comply with the Hazardous Waste (M,H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazardous Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
10) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
11) **The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before actual commencement of the production.**
12) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act,1981 and Environmental Protection Act,1986 and industry specific standard under EP Rules 1986 which are available on MPCB website(www.mpcb.gov.in).
13) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
14) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.

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

16) 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.

17) 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 sitting 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.

h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel

18) The industry should not cause any nuisance in surrounding area.

19) 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.

20) The applicant shall maintain good housekeeping.

21) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a statement on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end, with the Environment Statement.

22) 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 of solid waste.

23) The applicant shall not change or alter the 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. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.

24) 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.

25) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.

26) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dtd. 16.11.2009 as amended.

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