Ref. No: POIL/U-III/EC-Compliance/20-21/ 040

Date: 01.06.2020

To,
Deputy Director General of Forests
(Central), West Central Zone, Regional
Office, New Secretariate Building, Opp.
VCA Ground, Civil Lines, Nagpur-440 001

Sub: Half yearly Environmental Clearance Compliance Report of M/s. Privi Organics India Ltd. Unit-III, Plot No.: A-3 MIDC area, Mahad, Dist.- Raigad.

Ref: Environment Department, MS, SEIAA Letter – SEAC 2013/CR-256/TC-2 Dated 8th Oct' 2015

Dear Sir,
With reference to the proposal for Grant of Environmental clearance for expansion of aroma chemical manufacturing in Unit-III on Plot No. A-3 MIDC area, Mahad, Dist.: Raigad by M/s Privi Organics India Ltd.; herewith submitting the six monthly compliance report for the period of **Dec-2019 to May-2020**, to fulfill EC condition dated 8.10.2015.

We will mail you the soft copies of the report to the Email id:
moefregionalofficenagpur@gmail.com

Also we are enclosing herewith CD of the documents mentioned above for your reference.

We will be sending the compliance report regularly to this office.

Thanking You,
Yours faithfully,
For Privi Organics India Limited, Unit III

Authorized Signature

Copy to: 1. Shri. T.C. Benjamin, IAS (Retd.), Chairman, SEAC
2. Additional Secretary, MoEF & CC, New Delhi.
3. Secretary, Environment Department & MS.
4. Member Secretary, 5. Regional Office, 6. Sub Regional Officer, MPCB-Raigad
7. Collector, Raigad.
8. IA-Division, Monitoring Cell, MoEF, Paryavaran Bhavan
9. Director (TC-1), Dy. Secretary (TC-2), Scientist-1, Environment Department
10) Regional Office(WCZ), MoEF & CC 11)The CCF ,Regional Office,MoEF

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

SEAC- 2013/CR-256/TC-2
Environment department
Room No. 217, 2nd floor,
Mantralaya Annex,
Mumbai- 400 032.
Dated: 8th October, 2015

To,
M/s Privi Organics Ltd
Privi House, A-71,TTC, Thane Belapur Road,
Near Kopar Khairane Railway station,
Navi Mumbai-400709

Subject: Environment clearance for Proposed Aroma chemical manufacturing in unit III on plot no A-3, MIDC, Mahad, Raigad by M/s. Privi Organics Ltd.

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification, 2006, by the State Level Expert Appraisal Committee-I. Maharashtra in its 98th meeting and decided to recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 87th meeting.

2. It is noted that the proposal is considered by SEAC-I under screening category 5(f) B1 as per EIA Notification 2006.

Brief Information of the project submitted by Project Proponent is as:

Name of Project	Environmental Clearance for the proposed aroma chemical manufacturing in Unit III of Privi Organics Ltd.Plot No A-3, MIDC area, Mahad, Dist. Raigad
Project Proponent	Mr. D.B. Rao (Executive Director) M/s Privi Organics Ltd
Consultants	M/s. Green Circle Inc.
New Project / Expansion	Expansion
If expansion/ Diversification, whether environmental clearance has been obtained for existing project	Yes, copy is enclosed
Activity schedule in the EIA Notification	5(F) Category B as per the provision of "EIA Notification No. S.O. 1533 (E)" dated 14.09.2006; amended on December 01, 2009.
Area Details	➢ Total plot area (sq. m.): 12000 ➢ Built up area (Sq. m.): 1833.34
Name of the Notified Industrial area / MIDC	Maharashtra Industrial Development Corporation (MIDC) Tal-Mahad, Dist- Raigad

<table>
<tr><td>Estimated capital cost of the Project (including cost for land, building, plant and machinery separately)</td><td>
<table>
<tr><th>Sr.no.</th><th>Description</th><th>Amount in Lacs</th></tr>
<tr><td>1</td><td>Land & Building</td><td>59.0</td></tr>
<tr><td>2</td><td>Building (Factory + Office + Warehouse)</td><td>330.0</td></tr>
<tr><td>3</td><td>Plant & Machinery</td><td>1892.0</td></tr>
<tr><td>4</td><td>Piping + Electrical + Instrumentations + Painting + Erection & Commissioning</td><td>1469.0</td></tr>
<tr><td></td><td>Total</td><td>3750.0</td></tr>
</table>
</td></tr>
<tr><td>Location details of the project :</td><td>➢ Latitude: 18°06.340`N<br>➢ Longitude: 73°28.795`E
➢ Location: MIDC, Mahad, Dist- Raigad
➢ Elevation above Mean Sea Level (metres): 20.42</td></tr>
<tr><td>Rain Water Harvesting (RWH)</td><td>➢ Level of the Ground water table: 5.0 to 6.0 m
➢ Size and no of RWH tank(s) and Quantity: 1 Tank (450 KL)
➢ Location of the RWH tank(s): At the lowest point on plot
➢ Size, nos of recharge pits and Quantity: Not Permitted
➢ Budgetary allocation (Capital cost and O&M cost)
Capital Cost (Lacs): 0.9 Lacs
Recurring Cost (Lacs): 0.4 Lacs</td></tr>
<tr><td>Total Water Requirement</td><td>Total water requirement:
• Fresh water (CMD): Existing- 276.0 + Propose - 334.19
& Source: MIDC Water Supply, Total: 610.19
• Recycled water (CMD): 43.8
Use of the water:
<table>
<tr><td>• Process (CMD)</td><td>154.19</td></tr>
<tr><td>• Cooling water (CMD):</td><td>200.0</td></tr>
<tr><td>• Drinking (CMD):</td><td>Included in domestic requirement</td></tr>
<tr><td>• Green belt (CMD):</td><td>10.0 (Recycle)</td></tr>
<tr><td>• Domestic (CMD):</td><td>40.0</td></tr>
<tr><td>• Boiler (CMD):</td><td>216.0</td></tr>
<tr><td>Total</td><td>610.19</td></tr>
</table>
</td></tr>
<tr><td>Storm water drainage</td><td>
<table>
<tr><td>• Natural water drainage pattern</td><td>The industry is located in Mahad MIDC area where all the facilities are available by MIDC. The land is having gentle slope. Runoff from surrounding areas ultimately joins to Savitri river and Kal through medium and small shallow streams.</td></tr>
</table>
• quantity of storm water: 2828.4 (generated during monsoon)
• Size of SWD: 169.6 m^2</td></tr>
<tr><td>Sewage generation and treatment</td><td>• Amount of sewage generation (CMD):20 KL
• Proposed treatment for the sewage: Soak pit and Septic tank</td></tr>
<tr><td>Effluent characteristic</td><td>
<table>
<tr><th>Sr. No.</th><th>Parameters</th><th>Inlet effluent Characteristic</th><th>Outlet effluent Characteristic</th><th>CPCB Standard</th></tr>
<tr><td>1</td><td>pH</td><td>4-6</td><td>7-7.5</td><td>5.5-9</td></tr>
</table>
</td></tr>
</table>

	2	COD	2000-4500	220	250
	3	BOD	1000-2400	25	30
	4	NH_4^+ - N	5-10	2	50
	5	Oil & Grease	15-20	Nil	10
	6	TDS	3000-4000	1300	2100

ETP details	➢ Amount of effluent generation (CMD): 122.24 (unit-1) +143.8 (unit-3) Total: 266.0 m^3 ➢ Capacity of the ETP (CMD): 300 m^3 ➢ Amount of treated effluent recycled (CMD): 5.0(unit-1)+ 38.8 (unit-3) Total: 43.8 m^3 • Amount of water send to the CETP (CMD): 221.0 • Membership of the CETP (If require): If yes then attach the letter submit the letter Attached as annexure VI
Note on ETP technology to be used	The ETP is comprise of primary, secondary & tertiary treatment units viz. equalization tank, neutralization tank, aeration tank, primary & secondary clarifiers and final collection sump. A tertiary treatment in pressure sand filter and activated carbon filter would confirm the effluent characteristics to MPCB norms.
Disposal of the ETP sludge (If applicable)	Forwarded to CHWTSDF

Solid waste Management

Sr. No	Source	Qty in (TPM) (Existing +Proposed)	Form(Sludge Dry /Slurry etc.)	Composition
	Non-Hazardous waste			
1.	Utility			
	Boiler ash	67.2	Dry & Solid	-
	Insulation	0.025	Dry & Solid	-
2.	Process & Utility			
	MS Scrap	1.50	Dry & Solid	-
3	Canteen	0.45	Dry/Slurry & Solid	
4	Office			
	(Paper, wood waste,Plastic etc.)	2.5	Dry & Solid	-

	Hazardous Waste		
S.no	Type & Category of hazardous waste		Quantity
1	Cat.no.-34.3 Chemical Sludge from ETP		15MT/M
2	Cat.no.-20.3 Residue & Hydrocarbon		10.5 MT/M
3	Cat.no.-5.1 Spent oil		0.416 MT/M
4	Cat.no.-33.3 Discarded Containers	Drums	100 Nos/M
		IBCs	30 Nos/M
		Carboys	70 Nos/M
5	Cat.no.-36.1 Sludge from MEE		15.6 MT/M
6	Battery rules,2002: Lead acid batteries		05 Nos/A
7	Cat.no.5.2-Waste or residue containing oil		0.01 MT/M

8	E-waste 2011- e-waste	0.025 MT/M
9	Cat.no.35.3 Spent Carbon	0.5 MT/M
10	Corrosive Waste	05MT/M
11	Spent Solvent	30 MT/M

- If waste(s) contain any hazardous/toxic substance/radioactive materials or heavy metals then provide quantity, disposal data and proposed precautionary measures.
  Disposal Method: Sale to authorize party or forwarded to CHWTSDF, Taloja
- What are the possibilities of recovery and recycling of wastes?
  Not Applicable
- Possible users of solid waste
  Boiler ash Sale to Brick Manufacture/Land filling and canteen waste sale to Vermiculture
- Method of disposal of solid waste
  Sale to authorize party

Atmospheric Emissions (Flue gas characteristics SPM, SO2, NOx, CO, etc.)

Sr. No	Pollutant	Source of Emission	Emission rate (kg/hr)	Concentration in flue gas (g/m3)
	SPM	Boiler 8 TPH	0.6619	126 mg/Nm^3
	SO2		0.2345	26.5 ppm
	NOx			Nil
	CO			Nil
	Others			Nil
	SPM	Boiler 16 TPH		
	SO2			
	NOx			
	CO			
	Others			
	SPM	380 KVA		96 mg/Nm^3
	SO2		0.0243	20.4 ppm
	NOx			Nil
	CO			Nil
	Others			Nil
	SPM	750 KVA		
	SO2		0.0259	
	NOx			
	CO			
	Others			

Stack emission Details: (All the stacks attached to process units, Boilers, captive power plant, D.G. Sets, Incinerator both for existing and proposed

Plant Section & units	Stack No.	Height from ground level (m)	Internal Diameter (Top)(m)	Emission Rate	Temp. of Exhaust Gases
Boiler 8TPH	1	42	0.95/1.9	SPM: SO2: NOx:	160

activity). Please indicate the specific section to which the stack is attached. e.g.: Process section, D.G. Set, Boiler, Power Plant, incinerator etc. Emission rate (kg/hr.) for each pollutant (SPM, SO2, NOx etc. should be specified					CO: Others:	
	Boiler 16 TPH (Proposed)	2	44.5	1.5/2.5	SPM: SO2: NOx: CO: Others:	160
	DG Set 380 KVA	3	11	0.15	SPM: SO2: NOx: CO: Others:	80
	DG Set 750 KVA	4	11	0.15	SPM: SO2: NOx: CO: Others:	80

Emission Standard	Pollutants	Emission Standard Limit (mg/Nm3)	Proposed Limit (mg/Nm3)	MPCB Consent (mg/Nm3)
	SPM/TPM	-	Not to exceed	150
	SO_2	-	Not to exceed	396 kg/day
	SO_2/NOx	-	Not to exceed	50 ppm
	Acid mist/HCL	-	Not to exceed	35

Ambient Air Quality Data	Pollutant	Permissible Standard	Proposed Concentration (µg/m3)	Remarks
	PM_{10}	100	94.2	
	$PM_{2.5}$	60		
	SO_2	80	21.6	
	NOx	80	18.8	
	CO	2 mg/m^3		
	Ammonia	400		
	Ozone	100		
	Lead	1.0		
	Arsenic	6.0 ng/m^3		
	Nickel	20.0 ng/m^3		
	Benzopyrene	1.0 ng/m^3		

Details of Fuel to be used:

Sr. No	Fuel	Daily Consumption (TPD/KLD)		Calorific value (Kcals /kg)	% Ash	% Sulphur
		Existing	Proposed			
1	Gas	---	---	---	---	---
2	Naphtha	---	---	---	---	---
3	HSD	70 L/hr	250L/hr	12000	0.01	0.5
4	Fuel Oil	---	---	---	---	---
5	Coal	20 TPD	72 TPD	5500-6000	7.0	1.5

- Source of fuel: local/import
- Mode of transportation of fuel to site: By Road

Energy

Power supply:
• Existing power requirement: 375 KVA
• Proposed power requirement including existing: 2575 KVA
DG sets:
• Number and capacity DG sets to be used (existing and proposed): 1 x 380 KVA (Existing) and 1 x 750 KVA (Proposed)

Green Belt Development

• Green belt area (Sq. m.): 300.0
• Number and species of trees to be planted: 100 nos

Details of Pollution Control Systems:

Sr. No.		Existing pollution control system	Proposed to be installed
1	Air	Cyclone	-
2	Water	ETP	-
3	Noise	Acoustics	-
4	Solid Waste	filter press and proper storage	On line poly dose system & filter press and proper storage

Environmental Management plan Budgetary Allocation

• Capital cost (With break up): 76.3 Lacs
• O&M cost (With break up): 237.09 Lacs

Sr. No.	Description	Recurring Cost in lacs per annum	Capital Cost in lacs
1	Air Pollution Control	10.0	08.0
2	Water Pollution Control	180.0	30.40
3	Noise Pollution Control	0.20	05.0
4	Environment Monitoring and Management	0.91	0
6	Occupational Health	35.0	4.0
7	Green Belt	0.58	3.0
8	Solid waste	10.0	15.0

		management		
	9	Others (CSR)	-	10.0
	10	Rain water harvesting	0.4	0.9
		Total	237.09	76.3

List of Raw Materials

S. No	Product	Raw Materials	Existing Consumption MTPM	Proposed Consumption MTPM	Source	Transportation	Storage Condition
1	Terpineol & Its Derivatives	A-Pinene	0.0	332.40	Self made/Import/Domestic market	Road ways	Tank
2		Acetone	0.0	332.40	Import/Domestic market	Road ways	Tank
3		35% Sulphuric acid	0.0	332.40	Domestic market	Road ways	Tank /Drum
4		20-25% Ammonia solution	0.0	144.0	Domestic market	Road ways	Drum
5		Toluene	0.0	146.20	Import/Domestic market	Road ways	Tank
6		Acid Catalyst M	0.0	0.2	Domestic market	Road ways	Drum
7		Sodium hydroxide	0.0	0.8	Domestic market	Road ways	Bag
8	Terpinyl acetate & Derivatives	A-Terpineol	0.0	96.0	Self made/Import/ Domestic market	Road ways	Tank
9		Acetic anhydride	0.0	90.0	Domestic market	Road ways	Tank
10		Acid Catalyst M	0.0	1.2	Domestic market	Road ways	Drum
11		Soda ash	0.0	2.9	Domestic market	Road ways	Bag
12	Prionyl	Ethylene dichloride	0.0	473.5	Import/ Domestic market	Road ways	Tank
13		Aluminium chloride	87.0	119.6	Domestic market	Road ways	Drum
14		Propionyl chloride	51.0	78.9	Domestic market	Road	Drum

						ways	
15		Propene	10.0	63.4	Domestic market	Road ways	Cylinder
16		Soda ash	10.0	6.0	Domestic market	Road ways	Bag
17		Triethanolamine	59.0	119.6	Import/ Domestic market	Road ways	Drum
18		Dimethyl malonate	29.0	49.3	Import/ Domestic market	Road ways	Drum
19		Sodium Methoxide	17.5.	28.9	Import/ Domestic market	Road ways	Bag
20		Methanol	8.0	13.6	Import/ Domestic market	Road ways	Tank
21		30 % Sulphuric acid	8.34	85.0	Self made/Domestic market	Road ways	Tank
22		MDC	0.0	200.7	Import/Domestic market	Road ways	Drum
23		DCDMH	19.0	28.1	Domestic market	Road ways	Box
24		Cyclohexane	0.0	25.1	Import/Domestic market	Road ways	Drum
25		Methanol	0.0	80.3	Import/Domestic market	Road ways	Tank
26		Activated Charcoal	0.0	0.69	Domestic market	Road ways	Bag
27	**Terpinolene**	Dipenetenes	0.0	107.0	Self made/Import/Domestic market	Road ways	Tank

28	**Terpene Phenol based resin**	Terpenes	0.0	46.0	Self made/Import/Domestic market	Road ways	Tank (Kg)
29		Phenol	0.0	106.65	Domestic market	Road ways	Drum
30		Xylene	0.0	61.20	Domestic market	Road ways	Drum
31		Boron trifluoride Etherate	0.0	4.5	Domestic market	Road ways	Drum
32		Soda ash	0.0	13.2	Domestic market	Road ways	Bag
33	**Polyterpene**	Terpenes	0.0	157.95	Self made/Import/ Domestic Market	Road ways	Tank
34		Xylene	0.0	126.30	Domestic market	Road ways	Drum
35		Aluminium chloride	0.0	6.30	Domestic market	Road ways	Drum
36		Soda wash	0.0	9.15	Domestic market	Road ways	Bag
37	**Para-Cymene**	Dipentene or limonene	0.0	180.59	Self made/Domestic market	Road ways	Tank
38		Catalyst	0.0	0.18	Domestic market	Road ways	Tank
39	**Camphene**	A-Pinene	0.0	331.2	Self made/Import/ Domestic market	Road ways	Tank
40		Catalyst T	0.0	6.5	Domestic market	Road ways	Drum

41		Catalyst	0.0	5.91	Domestic market	Road ways	Box
42		Sodium hydroxide	0.0	23.2	Domestic market	Road ways	Bag
43		Con.HCl	0.0	2.5	Domestic market	Road ways	Drum
44	**Isobornyl acetate (IBA)**	Camphene	0.0	168.4	Self made/Import/Domestic market	Road ways	Drum
45		Indion -140	0.0	32.3	Domestic market	Road ways	Drum
46		Acetic acid	0.0	94.3	Domestic market	Road ways	Drum/Tank

List of Products & By-products

S. No.	Product	Category	Qty in MTPM
1	Terpineol & Its derivatives like Pine oil Varieties	Aroma chemical	200
2	Terpinyl acetate & Its derivatives	Aroma chemical	100
3	Dipentene varieties a) Terpinolene 20 b) Terpinolene 40 c) Terpinolene 90	Aroma chemical	80
4	Prionyl**	Aroma chemical	30
5	Terpene–Phenol based resin like TPR-A,TPR-B,TPR-C,TPR-M & TPR-MS etc	Resin	150
6	Terpene(Polyterpene) based resins like PTR-A,PTR-B,PTR-C,PTR-M	Resin	150
7	Para-Cymene	Aroma chemical	100
8	Camphene	Aroma chemical	250
9	Isobornyl acetate	Aroma chemical	100
	Total		**1160**

** Product- Prionyl is already in existing consent to establish (CTE), but there is no production as there is no manufacturing facilities available in Unit-3.

By-Products

S.no.	Description	Existing (MT/M)	Proposed (MT/M)	Utilize
Product: Terpineol & Its derivatives				
1	Recovered acetone	0.0	320.0	Reuse or Sale to PCB registered party
2	Ammonium sulphate solution (22-30 %)	0.0	460.0	Sale to PCB registered party
3	Recovered Toluene	0.0	140.0	Reuse or Sale to PCB registered party
4	Dipentene	0.0	110.0	To make value addition

				products or Sale to PCB registered party
5	Column Tops	0.0	18.0	Sale to PCB registered party
6	Column Bottom mass	0.0	15.8	Sale to PCB registered party
Product: Terpinyl acetate & Its derivatives				
7	Acetic acid solution (23-30%)	0.0	212.0	Sale to PCB registered party
8	Sodium Acetate	0.0	120.1	Sale to PCB registered party
9	Column Tops	0.0	13.0	Sale to PCB registered party
10	Column bottom mass	0.0	4.0	Sale to PCB registered party
Product: Prionyl**				
11	Spent Aq. Aluminium chloride solution (30-38%)/Aluminium Cloride Hexahydrate	343.0	453.0	Sale to PCB registered Party
12	Spent Aq.Triethyl amine Hydrochloride (29 to 33%)	187.20	507.0	Sale to PCB registered Party
13	Recovered Triethanolamine	0.0	195	Reuse or Sale to PCB registered Party
14	Recovered EDC	0.0	471.0	Reuse or Sale to PCB registered Party
15	Column Tops	0.0	18.0	Sale to PCB registered party
16	Column Bottom mass	0.0	42.0	Sale to MPCB registered party
17	Recovered Methanol	0.0	114.0	Reuse or Sale to PCB registered Party
18	Spent (Sod.Sulphate) & Methanol solution	0.0	405.0	Sale to PCB registered Party
19	Recovered MDC	0.0	186.0	Reuse or Sale to PCB registered Party
20	Spent DMH Solution (DMH 8-10 %)	0.0	93.0	Sale to PCB registered Party
21	Recovered Cyclohexane	0.0	24.0	Reuse or Sale to PCB registered Party
22	Recovered Methanol	0.0	39.0	Reuse or Sale to PCB registered Party
23	Aq.methanol solution (15-18 %)	0.0	294.0	Sale to PCB registered Party
Product: Terpinolene				
24	Column Tops	0.0	15.6	Sale to PCB registered Party

25	Column bottom mass	0.0	1.9	Sale to PCB registered Party
26	LF (Mix of alcohols like Fenchyl alcohol , Borneol etc)	0.0	7.5	Sale to PCB registered Party
Product: Terpene-Phenol Resin				
27	Aq.fluoroboric acid (Fluoboric acid) solution	0.0	51.0	Sale to PCB registered Party
28	Recovered Xylene	0.0	55.5	Sale to PCB registered Party
Product: Polyterpene				
29	Spent Aq.Aluminium chloride solution/Aluminium Chloride Hexahydrate	0.0	39.0	Sale to PCB registered Party
30	Recovered Xylene	0.0	115.5	Sale to PCB registered Party
Product: .Para-Cymene				
31	Recovered catalyst	0.0	0.2	Sale to PCB registered Party
32	ColumnTops	0.0	63.0	Sale to PCB registered Party
33	Column Bottom mass	0.0	13.0	Sale to PCB registered Party
Product: Camphene				
34	Recovered catalyst	0.0	10 .0	Sale to PCB registered Party
35	Column Tops	0.0	60 .0	Sale to PCB registered Party
36	Column Bottom mass	0.0	12.5	Sale to PCB registered Party
Product: Isobornyl acetate (IBA)				
37	1st Aq. Layer Acetic acid solution (20-30%) OR	0.0	156.0	Sale to PCB registered Party
38	Sodium Acetate	0.0	90.4	Sale to PCB registered Party
39	Recovered Camphene	0.0	35.0	Reuse or sale to PCB registered party
40	Column Tops	0.0	55.0	Sale to PCB registered Party
41	Column Bottom mass	0.0	24.0	Sale to PCB registered Party
42	Recovered Indion catalyst	0.0	21.0	Sale to PCB registered Party

** **Product-** Prionyl is already in existing consent to establish (CTE), but there is no production as there is no manufacturing facilities available in Unit-3.

3. The proposal has been considered by SEIAA in its 87th meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions :

General Conditions for Pre- construction phase:-

(i) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.

(ii) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.

(iii) Regular monitoring of the air quality, including SPM & SO2 levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.

(iv) Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.

(v) Proper Housekeeping programmers shall be implemented.

(vi) In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.

(vii) A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set.(If applicable)

(viii) A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.

(ix) Arrangement shall be made that effluent and storm water does not get mixed.

(x) Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.

(xi) Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.

(xii) The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.

(xiii) Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.

(xiv) Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.

(xv) Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.

(xvi) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.

(xvii) The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.

(xviii) The company shall undertake following Waste Minimization Measures :

- Metering of quantities of active ingredients to minimize waste.
- Reuse of by- products from the process as raw materials or as raw material substitutes in other process.
- Maximizing Recoveries.
- Use of automated material transfer system to minimize spillage.

(xix) Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.

(xx) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.

(xxi) Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.

(xxii) Separate silos will be provided for collecting and storing bottom ash and fly ash.

(xxiii) Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department

(xxiv) The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://ec.maharashtra.gov.in

(xxv) Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.

(xxvi) A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.

(xxvii) The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM. SO_2, NOx (ambient levels as well as stack emissions) or critical sectorai parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

(xxviii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.

(xxix) The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.

4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.

5. The Environment department reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.

6. **Validity of Environment Clearance**: The environmental clearance accorded shall be valid for a period of 7 years as per MoEF&CC Notification dated 29th April, 2015 to start of production operations.

7. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

8. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.

9. Any appeal against this environmental clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D-, Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

(Malini Shankar)
Member Secretary, SEIAA.

Copy to:

1. Shri. R. C. Joshi, IAS (Retd.), Chairman, SEIAA, Flat No. 26, Belvedere, Bhulabhai desai road, Breach candy, Mumbai- 400026.

2. Shri T. C. Benjamin, IAS (Retired), Chairman, SEAC-I, 602, PECAN, Marigold, Behind Gold Adlabs, Kalyani Nagar, Pune – 411014. .

3. Additional Secretary, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.

4. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.

5. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP).

6. Regional Office, MPCB, Raigad.

7. Collector, Raigad

8. IA- Division, Monitoring Cell, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.

9. Select file (TC-3)

(EC uploaded on 15\10\2015)

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 4010437/4020781 /4037124/4035273
Fax : 24044532/4024068 /4023516
Email : enquiry@mpcb.gov.in
Visit At : http://mpcb.gov.in

Kalpataru Point, 3rd & 4th floor, Sion- Matunga Scheme Road No. 8, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai - 400 022

RED/LSI

Date:- 17/05/2019

Consent No: Format 1.0/BO/AST/UAN No. 0000045150/O/CC- 660

To,
M/s. Privi Organics India Limited (Unit-III),
Plot No- A-03, MIDC Mahad,
Tal:- Mahad, Dist- Raigad-402 309.

Sub : Amendment in Consent to Operate for Change in Product Mix in RED category.

Ref.:
1. Consent to operate granted vide no. BO/ AS(T)/EIC No.-RD-3158-13/Raigad/R/CC-2632 dtd. 23.02.2016 which is valid up to 30.09.2020.
2. Your Application: - MPCB-CONSENT-0000045150 dtd. 19.03.2018.
3. Minutes of the 5th Technical Committee Meeting for Change in Product Mix dtd. 17.01.2019.
4. Minutes of the 13th Consent Committee Meeting held dtd. 15.03.2019.

For Consent to Operate (amendment for change in product mix) 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 under Rule 5 of the Hazardous & Other Wastes (M & T M) Rules 2016 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 for period up to 30.09.2020.

2. The actual capital investment of the industry is 52.09 Cr. (As per C.A Certificate submitted by industry)

3. Consent is valid for the manufacture of –

Sr. No.	Product Name	Maximum Quantity	UOM
1.	Terpineol & Its derivaties like Pine oil varieties	655	MT/M
2.	A-Terpinyl acetate & Its derivatives	60	MT/M
3.	Dipentene Varities, Terpinolene Varieties from 20 to 99%/Cineols such as 1,4 Cineol, 1,8 Cineol (Eucalyptol), Gamma Terpinene, Limonene, Terpenes etc	80	MT/M
4.	Prionyl (Privi Moss)	30	MT/M
5.	Terpene-Phenol based resin like TPR-A,TPR-B,TPR-C,TPR-M,TPR-MS, etc.	10	MT/M
6.	Terpene (PolyTerpene) based resin like PTR-A,PTR-B,PTR-C,PTR-M,PTR-MS, etc.	10	MT/M
7.	p-Cymene	40	MT/M
8.	Camphene	200	MT/M
9.	Isobornylacetate	75	MT/M
	Total	1160	MT/M

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	123.8	As per Schedule-I	**48.8 CMD** shall be recycled & **95 CMD** shall be discharge to CETP.
2.	Domestic effluent	20.00	As per Schedule-I	

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 (8 TPH)	1	As per Schedule –II
2	DG Set (380 KVA)	1	As per Schedule –II
3	DG Set (750 KVA)	1	As per Schedule –II

6. Conditions about Non Hazardous Wastes:

Sr. No.	Type Of Waste	Quantity & UoM	Treat ment	Disposal
1.	Coal Ash	2.24 MT/Day	--	Sale to brick manufacture / landfill
2.	Canteen Waste	15 Kg/Day	--	Composting / vermicomposting
3.	Insulation Material	300 Kg/A	--	Sale to authorized party
4.	MS Scrap	1.50 MT/M	--	Sale to authorized party
5.	Others (Wood, Paper, Glass, plastic)	2.50 MT/M	--	Sale to authorized party

7. Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for treatment and disposal of hazardous waste:

Sr. No.	Type Of Waste	Catego ry	Quantity & UoM	Treatment	Disposal
1.	Spent oil	5.1	0.416 MT/M	----	Sale to authorized reprocessor
2.	Waste contaminated with oil (cotton/gaskets)	5.2	0.01 MT/M	----	CHWTSDF
3.	Spent solvents	20.2	15 MT/M	----	Sale to authorized party/CHWTSDF
4.	Distillation Residues	20.3	10.5 MT/M	----	
5.	Corrosive waste	32.2	0 MT/M	----	
6.	Discarded containers/ barrels/liners	33.1	200 Nos/M	----	Sale to authorized party after decontamination
7.	Chemical sludge from waste water treatment	35.3	15 MT/M	----	CHWTSDF

8.	Spent carbon	35.3	0.5 MT/M	----	Sale to authorized party/ CHWTSDF
9.	Sludge from concentration technique (MEE)	35.3	15.6 MT/M	----	Sale to authorized party/ CHWTSDF
10.	E Waste	---	0.025 MT/M	----	Sale to authorized party/ CHWTSDF
11.	Lead acid batteries	---	5 Nos / A	----	Sale to authorized party/ CHWTSDF
12.	Dilute Phosphoric acid (20-30%)	---	903.25 MT/M	----	Recycle/ Reuse in to the process/ Sale to authorized party*/ CHWTSDF
13.	Sodium Phosphate	---	341.91 MT/M	----	
14.	Sodium Phosphate Solution	---	1317.21 MT/M	----	
15.	Terpineol Column Tops/Light ends	36.1	62.23 MT/M	----	
16.	Dipentenes	---	347.81 MT/M	----	
17.	Terpineol Column Bottom Mass	36.1	61.57 MT/M	----	
18.	Sodium acetate	---	72.00 MT/M	----	
19.	Dilute Acetic acid solution (25 - 35%)	---	127.26 MT/M	----	
20.	Terpinyl acetate Column Tops/Light ends	36.1	8.10 MT/M	----	
21.	Terpinyl acetate Column Bottom Mass	36.1	2.70 MT/M	----	
22.	Sodium Oxalate	---	27.39 MT/M	----	
23.	Recovered MEK solvent	20.2	250.62 MT/M	----	
24.	Prionyl Column Tops/Light ends	36.1	23.94 MT/M	----	
25.	Methyl Pentenone	---	47.25 MT/M	----	
26.	Prionyl Column Bottom Mass	36.1	29.22 MT/M	----	
27.	Recovered Methanol	20.2	108 MT/M	----	
28.	Recovered EDC/Cyclohexane	20.2	56.25 MT/M	----	
29.	Dione Residue/ Distillation Residue	36.1	6.81 MT/M	----	
30.	Hydrochloric acid solution (18-22%)	---	123.27 MT/M	----	
31.	Sodium Chloride Salt	---	10.08 MT/M	----	
32.	Aqueous DMF Solution (28-35%)	---	198.12 MT/M	----	
33.	Sodium Sulphite	---	47.64 MT/M	----	
34.	Recovered Cyclohexane	20.2	128.46 MT/M	----	

35.	Recovered Charcoal	36.2	1.02 MT/M	----	Recycle/ Reuse in to the process/ Sale to authorized party*/ CHWTSDF
36.	Aqueous Methanol solution	20.2	391.83 MT/M	----	
37.	Prionyl Residue/Distillation Residue	36.1	3.12 MT/M	----	
38.	Recovered Cyclohexane	20.2	4.46 MT/M	----	
39.	Aqueous Fluoroboric acid	---	3.39 MT/M	----	
40.	Recovered Xylene /Toluene	20.2	3.71 MT/M	----	
41.	Aqueous Aluminium chloride solution /Aluminium chloride Hexahydrate	---	2.58 MT/M	----	
42.	Recovered Xylene/Toluene	20.2	7.74 MT/M	----	
43.	Recovered catalyst (Palladium)	---	0.08 MT/M	----	
44.	p-Cymene Column Tops/Light ends	36.1	25.36 MT/M	----	
45.	p-Cymene Column Bottom Mass	36.1	5.0 MT/M	----	
46.	Recovered TiO2 catalyst	---	7.4 MT/M	----	
47.	Camphene Column Tops/Light ends	36.1	48 MT/M	----	
48.	Camphene Column Bottom Mass	36.1	10 MT/M	----	
49.	Dilute Acetic acid (20-30%)	---	117 MT/M	----	
50.	IBA Column Tops/Light ends	36.1	41.33 MT/M	----	
51.	IBA Column Bottom Mass	36.1	18.3 MT/M	----	
52.	Sodium acetate	---	90 MT/M	----	
53.	Recovered Indion 140	---	8.25 MT/M	----	
54.	Camphene Recovered	---	26.25 MT/M	----	
55.	Dipentene Column Tops	36.1	15.6 MT/M	----	
56.	Dipentene Column Bottom Mass	36.1	1.92 MT/M	----	
57.	Mix of alochols like Fenchyl alcohol, Borneols, etc	---	7.52 MT/M	----	

**** Industry shall ensure disposal to the Actual user having permissions under Rule 9 of Hazardous and other Waste (M & TM) Rules, 2016***

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 consent is issued in accordance with MoEF, GoI Circular dtd. 14.12.2006 stating that in case of change in product mix, changes in the quantities or the number of products may be allowed without EC by the concerned SPCB provided such changes in the quantities of product are in the same category and are within the previously granted overall total limit.

11. **This consent is granted as per "No increase in Pollution Load" Certificate issued by M/s. Institute of Chemical Technology, dtd. 14.12.2018 and the product wise water, effluent and residue details due to change in product submitted by the industry.**

12. **Industry, by-product generator, should ensure that all the vehicles used to transport by-products to the vendor industry to be fitted with web based GPS system to record the origin to destination position and shall self-monitor the compliance and submit monthly report to the Board.**

13. **Industry shall obtain affidavit from vendors stating that the by-products purchased from PP is used as raw materials in their respective industries.**

14. **This amendment in consent is issued with overriding effect on earlier consent to operate granted by the board vide no. Format 1.0/BO/AST/UAN No. 0000045150/O/CC-1905001264 dtd. 17.05.2019 which is valid up to 30.09.2020.**

15. **Industry shall comply the conditions prescribed in environmental clearance granted by Env. Dept. GoM vide letter SEAC-2013/CR-256/TC-2 dtd. 08/10/2015.**

16. **This consent is issued pursuant to the decision of the Technical committee formed for Product Mix dtd. 17.01.2019 and 13th Consent Committee meeting held on 15.03.2019.**

For and on behalf of the
Maharashtra Pollution Control Board

17/5/19

(P. K. Mirashe)
Member Secretary

Received Consent fee of –

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	1,50,000/-	SIN01539Q0001087	10.11.2016	Standard Chartered Bank

Copy to:

1. Regional Officer Raigad, *Sub*-Regional Officer-Mahad, MPCB:
   - They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. Web site updation purposes.

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

1) A] As per your application, you have provided the Effluent Treatment Plant (ETP) with the design capacity of 300.0 CMD followed by RO =200 CMD and MEE =27 CMD.

B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr No.	Parameters	Standards prescribed by Board.
		Limiting Concentration in mg/l, except for pH
01	pH	5.5 to 9.0
02	Suspended Solids	100
03	BOD 3 days 27 deg.0	100
04	COD	250
05	Oil & Grease	10
06	Total Dissolved Solids	2100
07	Chlorides	600
08	Sulphates	1000
09	Bio assay test	90% survival of fish after first 96 hrs in 100% effluent

C) Both units M/s Privi Organics India Ltd., Plot No. A-7, MIDC Mahad, Dist. Raigad and M/s. Privi Organics India Ltd., Plot No. A-3, MIDC Mahad, Dist. Raigad are jointly and severally responsible for legal obligations, actions etc.

From Unit-I (Plot No. A-7) 122.24 CMD of effluent and Unit-3 (Plot No. A-3) 143.8 CMD i.e. total 266.02 CMD of effluent is treated in common ETP situated at Unit-3 (A-3). Out of which 48.8 CMD of treated effluent shall be totally recycled into manufacturing process and only 217.24 CMD effluent shall be discharged to CETP.

2) A] The Applicant shall operate the Sewage Treatment Plant of capacity 30.00 CMD 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	30	mg/l.

B] The treated sewage shall be soaked in a soak pit, which shall be got cleaned periodically, excess if any sewage shall be disposed on land for gardening/irrigation.

3) 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 an extension or addition thereto.

4) 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.

5) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended 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	416
2.	Domestic purpose	40
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	154.19
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	00

6) 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 install the Air pollution control (APC)system and also erected 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-I (8 TPH)	Cyclone dust collector	42	Coal	20 MT/day	0.5	200
2.	Boiler-I (16 TPH)	ESP	44.5	Coal	72 MT/day	0.5	720
3.	D.G. Set (380 KVA)	Acoustic enclosure	11*	HSD	70 Ltr/Hr.	---	---
4.	D.GH. Set (750 KVA)	Acoustic enclosure	11*	HSD	250 Ltr/Hr.	---	---

*above the roof of building in which D.G set is installed.

2. The Applicant shall provide Specific Air Pollution control equipment's as per the conditions of EP Act, 1986 and rule made there under from time to time / Environmental Clearance / CREP guidelines. (Concern section shall mention specific control equipment's)

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.
HCL/Acid Mist	Not to exceed	35 mg/Nm^3
$SO_{2(process)}$	Not to exceed	50 ppm
NOx	Not to exceed	50 ppm

4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacemenalteration 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 (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to O	5 lakh	Within 15 days	Towards O and M of PCS and compliance of consent condition	30/09/2020	31/01/2021

- **Bank Guarantee shall be submitted at MPCB Regional Office, Raigad within 15 days period.**

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) 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.
3) 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 equipment's, the production process connected to it shall be stopped.
4) 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.
5) 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.
6) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW & other waste (M & TM) Rules 2016, 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.
7) The industry should comply with the Hazardous and other Waste (M & T M) Rules, 2016 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazardous and other Waste (M & T M) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
8) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
9) **The applicant shall made an application for renewal of consent to operate well before 60 days before expiry of existing consent.**
10) Industry shall strictly comply with the Water (P & C P) Act, 1974, Air (P & C P) 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).
11) 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.
12) 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.
13) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
14) 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.
15) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel
16) **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.

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

18) 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.

19) The applicant shall maintain good housekeeping.

20) 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.

21) 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.

22) 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 equipment's 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.

23) 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.

24) The industry shall submit quarterly statement in respect of industries' obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can be downloaded from MPCB official site).

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 dt. 16.11.2009 as amended.

27) The industry shall recycle/reprocess/reuse/recover hazardous waste as per the provision contained in the Hazardous and Other Waste (M & T M) Rules 2016, which can be recycled/ processed/ reused/ recovered and only waste which has to be incinerated shall go to incineration and waste which cannot 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.

-----0000-----

Annexure-A

Compliance Report

SEAC 2013/CR-256/TC-2 dated 08.10.2015	Reporting Date: 01.06.2020

Environmental clearance *for proposed aroma chemical manufacturing in Unit-III on plot No. :A-3 MIDC area, Mahad, Dist.: Raigad by M/s Privi Organics India Ltd.*

POINT NO.	**SPECIFIC CONDITIONS**	**COMPLIANCE STATUS**
I.	No additional land shall be used/ acquired for any activity of the project without obtaining proper permission.	Utilized existing MIDC approved land for project expansion. Total Plot Area=12000 sq.mt. Area used= 10794 sq. mt.
II.	For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distance in vulnerable distances in vulnerable areas of plant shall be ensured.	During construction phase water sprinklers used to control dust emissions. Sprinklers provided at coal storage area. Internal roads are RCC or bituminous & there is no dust generation on roads. RM in Powder form was utilizing in very small quantity and hence there are no any fugitive emissions from process.
III.	Regular monitoring of air quality, including SPM & SO2 both in working zone and ambient air shall be carried out in and around power plant and records shall be maintained. The location of the monitoring station and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.	The location and frequency of AAQ monitoring was decided in consultation with MPCB. AAQ Monitoring at 3 Nos. locations and monitoring frequency Monthly /Quarterly 1. East side of Plot, Near Main Gate 2. Center of Plot Near DG set 3. West Side- Near ETP Area Avg. Concentration in March 2020 Month- PM2.5 - 27.57 µg/m3 As per NAAQS-2009 Limit 60 µg/m3 PM10- 63.29 µg/m3 As per NAAQS-2009 Limit 100 µg/m3 SO2- 18.4 µg/m3 As per NAAQS-2009 Limit 80 µg/m3 Work Zone monitoring at 2 locations i.e. at 1) Terpinol plant near PETP area 2) Boiler –crusher area and frequency of monitoring is once in a six month.
IV.	Necessary arrangement shall be made to safety & ventilation arrangement in furnace area.	Not applicable.
V.	Proper Housekeeping programmers shall be implemented.	Housekeeping maintaining at shop floor and daily checklist is maintained and implemented attached daily check list **Annexure I**
VI.	In event of the failure of any	Preventive maintenance of Pollution Control system (

	pollution control system adopted by the unit , the unit shall be immediately put out of operation and shall be restart the until desired efficacy has been achieve.	ETP, STP, DG set- acoustic enclosure) conducting on quarterly basis, Calibration of measurement devices/equipment conducting once in a six month. Power Back provision made for PCS by DG power. Daily monitoring efficiency of PCS. Preventive schedule attached as **Annexure**. **-II**
VII.	A stack of adequate height is based on DG set capacity shall be provided for control and dispersion of pollution from DG set. (If applicable)	DG set stacks 11 Mtr provided as per MPCB Consent conditions and acoustic enclosure provided to control noise. DG stacks monitoring on quarterly. Consent Copy attached as Annexure. Average Concentration- PM- 58.71 mg/nm^3 Consent Limit 150 mg/nm^3 SO2- 1.2 Kg/day
VIII.	A detailed scheme of rainwater harvesting shall be prepared and implemented to recharge ground water.	0 M^3 as there is no Rain during Dec-19 to May-20.
IX.	Arrangement shall be made for effluent and storm water does not get mix.	Separate storm and effluent drainage are provided. No mixing of both drain at any place
X.	Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.	Water requirement is supplied by MIDC through Pipeline; there is no ground water abstracted.
XI.	Noise level shall be maintained as per standard. For people working in the high noise area requisite personal Protective equipment like earplug etc shall be provided.	Identified high noise area boiler & DG Acoustic enclosure provided to DG sets and Blowers, silencer provided at high noise equipment's, displayed signage and provided & made mandatory earmuff and plug to employee working in high noise area. Monitoring done Quarterly and observed Utility area values : 69.7 dB(A)day time and 67.4 dB(A) night time (Monitoring done in month of Feb-20).
XII.	The overall noise level in and around the plant are shall be kept in well with in the standards by providing noise control measures including acoustic hoods, silencers, enclose, etc . on all sources of noise generation . the ambient noise level shall be conform to standers prescribed under Environment (Protection) Act , 1986 Rules, 1989.	Acoustic enclosure provided to DG sets and Blowers, silencer & enclosures provided at high noise area. DG Noise level monitoring on quarterly. Ambient Noise levels monitored at 10 locations and observed average levels are 65.34 dBA at night time, 68.59 dBA at day time, which conform standards prescribed under Environment (Protection) Act , 1986 Rules, 1989. (Monitoring done in the month of Feb-2020).

<table>
<tr><td></td><td></td><td>
<table>
<tr><th rowspan="2">Sr. No.</th><th rowspan="2">Test Location</th><th colspan="2">Results</th><th rowspan="2">Unit</th></tr>
<tr><th>Daytime 06:00 am. to 10:00 pm.</th><th>Night Time 10:00 pm. to 06:00 am.</th></tr>
<tr><td>01</td><td>Near main gate</td><td>67.4</td><td>65.2</td><td>dB(A)</td></tr>
<tr><td>02</td><td>Near Admin</td><td>62.2</td><td>60.4</td><td>dB(A)</td></tr>
<tr><td>03</td><td>Boiler Area</td><td>69.5</td><td>67.1</td><td>dB(A)</td></tr>
<tr><td>04</td><td>MEE Plant</td><td>68.6</td><td>65.3</td><td>dB(A)</td></tr>
<tr><td>05</td><td>Near Terpene Plant</td><td>70.1</td><td>67.3</td><td>dB(A)</td></tr>
<tr><td>06</td><td>Near ETP V-Notch</td><td>72.2</td><td>66</td><td>dB(A)</td></tr>
<tr><td>07</td><td>Fabrication Workshop</td><td>70.6</td><td>67.2</td><td>dB(A)</td></tr>
<tr><td>08</td><td>Utility Area</td><td>69.7</td><td>67.4</td><td>dB(A)</td></tr>
<tr><td>09</td><td>ETP Area</td><td>68.2</td><td>65.2</td><td>dB(A)</td></tr>
<tr><td>10</td><td>DG Area</td><td>67.4</td><td>62.3</td><td>dB(A)</td></tr>
</table>
</td></tr>
<tr><td>XIII.</td><td>Green belt shall be developed and maintain around the plant periphery. Green belt Development shall be carried out considering CPCB guideline including selection plant species and consultation with local DFO/ Agriculture Dept.</td><td>Green belt developed in and around plot premises and plant species selected in consultation with Agriculture Dept.
Green Belt developed Within Premises- 1231 sq. mtr. % of green belt- 6.4 %
Green Belt developed outside plot within MIDC- 51577 sq. mtr. % of green belt- 66 %. It includes our Unit I,II &III.  </td></tr>
<tr><td>XIV.</td><td>Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak direction shall also be installed at strategic place</td><td>We have provided certain safety measures as;
All Electrical Fittings – FLP confirming to Class C
Operations are controlled through DCS- with inbuilt safety interlocks.
Safety Relive valve, Rupture Disk, Breather Valve</td></tr>
</table>

for early direction and warning.

provided at respective tanks and reactors.

- Pressure Reducing stations – with periodical checks
- Manual Call Point provided at respective points.
- Smoke and heat detectors provided at MCC, PCC and chemical storage area for early detections and warning.

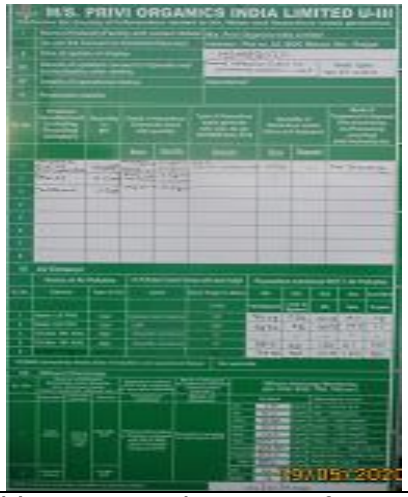
List attached as below;

ZONE NO.	DEVICE	LOCATION
1	MCP1	ADMIN OFFICE MCP 01
	MCP2	QC LAB MCP 02
	MCP3	BSR AREA MCP3
	SD05	SD05 QC LAB 105
	SD06	SD06 QC LAB 106
	SD07	SD07 CONFERENCE HALL 107
	SD08	SD08 ADMIN OFFICE 108
2	MCP4	PLANT GR FLR NEAR STAIRCASE MCP4
	MCP5	PLANT 1ST FLR NEAR STAIRCASE MCP5
	MCP6	PLANT 2ND FLR NEAR CONTROL ROOM MCP6
	MCP7	PLANT 3RD FLR NEAR STAIRCASE MCP7
	SD09	SD09 DCS PANEL 109
3	MCP9	UNDERGROUND TANK GATE
	MCP10	ETP & RO AREA MCP 10
	MCP11	BOILER AREA MCP 11
	SD01	SD01 OLD MCC ETP 101
	SD02	SD02 OLD MCC ETP 102
	SD03	SD03 OLD MCC ETP 103
	SD04	RO PANEL ETP 104
4	MCP12	UTILITY AREA MCP12
	MCP13	PCC AREA MCP13
	SD05	SD05 SMART MCC 105
	SD06	SD06 SMART MCC 106
	SD07	SD07 SMART MCC 107
	SD08	SD08 SMART MCC 108
	SD01	SD01 PCC AREA 101
	SD02	SD02 PCC AREA 102
	SD03	SD03 PCC AREA 103

<table>
<tr><td></td><td></td><td></td></tr>
<tr><td>XV.</td><td>Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per Factories Act.</td><td>Health checkup of employee conducted Month of Jan-2020 annually and employee working in hazardous chemical area, there health checks up conducting on six monthly. Records maintained in Form No. 7.</td></tr>
<tr><td>XVI.</td><td>The company shall make arrangement for protection of possible fire hazard during manufacturing process in material handling.</td><td>• All process SOP developed, implemented and trained employee.
• Adequate vent, flame arrester provided to solvent storage tanks.
• Earthing and boding provided.
• Earth integrity system provided at solvent tanker unloading area.
• Early Detection system- LEL detector, Smoke and heat detectors provided at respective locations.
• Material Compatibility maintained during storage.</td></tr>
<tr><td>XVII.</td><td>The project authorities must strictly comply with the rule and regulations with regards to handling and disposal of hazardous wastes in accordance with Hazardous waste (Management and Handling) Rule, 2003 (amended). Authorization from MPCB shall be obtain for collection/treatment/storage/disposal of hazardous wastes.</td><td>Obtained authorization from MPCB for Air, water & hazardous waste generation & disposal.
MPCB Consent No. Format 1.0/BO/AST-UAN No. 0000045150/O/CC-660; Date: 17.05.2019 ; Validity: 30/09/2020
Complied consent conditions in accordance hazardous waste handling and disposal. Annual Return (Hazardous Waste) Form 4 submitted on 22.06.2019.
HW Disposed during period Dec-19 to May-2020
<table>
<tr><th>HW Cat.</th><th>Deposed Qty. MT</th><th>Consent Limit, MT/A</th><th>Disposal</th></tr>
<tr><td>35.3</td><td>45.04</td><td>180</td><td rowspan="2">CHWTSDF-MWML</td></tr>
<tr><td>5.2</td><td>0.04</td><td>0.12</td></tr>
<tr><td>36.1</td><td>152.76</td><td>1314.84</td><td>Recycle/Reuse in process/sale to authorized party/CHWTSDF</td></tr>
<tr><td>5.1</td><td>0.319</td><td>4.99</td><td rowspan="3">Sold to MPCB authorized</td></tr>
<tr><td>37.3</td><td>73.07</td><td>187.2</td></tr>
<tr><td>Others</td><td>1.075</td><td></td></tr>
</table></td></tr>
<tr><td>XVIII.</td><td>The company shall under take following Waste Minimization Measures:
• Metering of quantities of active ingredients to minimize waste.
• Reuse of by- products from the process as raw material substitutes in other</td><td>• Waste generation & disposal quantity: refer point No. XVII.
• Automated material transfer process along with closed system provided in order to control material leakage/spillage. Early detection system provided.
• By products are sold to MPCB Authorized agency in order to convert it into product form.</td></tr>
</table>

<table>
<tr><td></td><td>process.
• Maximizing Recoveries.
• Use of automated material transfer system to minimize spillage.</td><td></td></tr>
<tr><td>XIX.</td><td>Regular Mock drills for the on-site emergency management plan shall be carried out. Implementation of changes/ improvements required, if any, in the on-site management plan shall be ensured.</td><td>Mock drills conducting on quarterly basis. From Dec-19 to May-20, 1 Nos. of mock drill conducted, and compliance report submitted to DISH.
Mock drill conducted on dated 19.03.2020.</td></tr>
<tr><td>XX.</td><td>A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.</td><td>Separate environmental cell developed having well equipped laboratory to carry out the environmental management and monitoring function
An environment management Cell is responsible for implementation of EMP
The Composition of the Environment Management Cell and responsibilities of various member are given below
Environment Staff :Executive, Officer , Operators
Total = 15 No.
<table><tr><th>Sr. No.</th><th>Designation</th><th>Responsibility</th></tr><tr><td>1</td><td>GM EHS.</td><td>Overall responsibility for Environmental Issue of the plant , Environment policy and direction</td></tr><tr><td>2</td><td>EHS. Manager</td><td>Daily monitoring of ETP operation and environmental control system connected to EHS discipline. Ensure the legal compliance communicated to regulatory authority.</td></tr><tr><td>3</td><td>EHS officer</td><td>Overall in change in operation of environment management facilities
Ensure environmental monitoring as per SOP
Ensure record of generation, handling, storage, transportation and disposal of Solid HW
Ensuring legal compliance by properly under taking activities as laid down by various regulatory agencies from time to time and arranging awareness program amog the worker</td></tr></table></td></tr>
</table>

XXI.	Transportation of ash will be through closed container and all measure should be taken to prevent spillage of the ash.	Use for Landfill and Transportation of fly ash doing through closed container. Fly ash sold to MPCB Authorized Agency (M/s. Yamuna Bricks Manufacturing. MPCB Consent No. MPCB/SROM/TB-1812000847 dated 12.12.2018 valid up to 31.08.2021, Last Disposed quantity is 7.875 MT on dated 29.05.2020.
XXII.	Separate silos will be provided for collection and storing bottom ash & fly ash.	Not applicable.
XXIII.	Separate funds shall be allocated for implementation of environmental protection measures/ EMP along with item wise brakes up. This cost shall be included as a part of the project cost. The funds earmarked for the environmental protection measures shall not be diverted for other purpose and year wise expenditure should reported to the MPCB & this department.	Yes. Separate funds of Rs. 149.6 Lacks are Earmarked for EMP. **Refer Annexure: III.**
XXIV.	The project management shall advertise at least in two local news papers widely circulated in the region of the project, one of which shall be in Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies if clearance letter are available with Maharashtra Pollution Control Board and may also be seen at Website http://ec.maharastra.gov.in	EC obtained advertisement published in Local Marathi newspaper Dainik Sagar on 24.10.2015 and in national English news paper Indian Express on 24.10.2015.
XXV.	Project Management should submit half yearly compliance report in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department on 1st June & 1st December of each calendar year.	Last half yearly compliance report submitted to MPCB and RO, MoEF, Nagpur on 01.12.2019 for period June-2019 to Nov-2019.

XXVI.	A copy of the clearance letter shall be send by proponent to the concerned municipal corporation and the local NGO, if any, from whom suggestion / representation, if any were received while processing the proposal. The clearance letter shall also put on the Website of the company by the proponent.	EC copy submitted to MPCB, DISH, MIDC, Local NGO and Grampanchayat. The clearance letter has been uploaded on the company Website.
XXVII.	The proponent shall upload the status of compliance of the stipulated EC condition including result of monitored data on their website and update the same respectively Zonal officer of CPCB and SPCB .The criteria pollution levels namely; SPM, RSPM, SO2, NOx (ambient levels as well as stack emissions)or criteria parameters, indicated for the project shall be monitored and displayed at the convenient location near the main gate of the company in the public demand.	• Six monthly compliance report submitted MPCB, MoEF and copy uploaded on Company Website. • Pollutions levels monitored and levels displayed on Environment Information Board located outside Factory Main entrance gate. Daily Board 
XVIII.	The project proponent shall also submit six monthly report on the status of compliance of the stipulated EC conditions including results of monitoring data (both in hard copies as well as by e- mail) to the respectively Zonal officer of CPCB and SPCB .	Six monthly report on the status of compliance of the stipulated EC conditions including result of monitoring data submitted to MPCB.
XXIX.	The environmental statement for each financial year ending 31st March in form –V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as	Environmental Statement (Form V) for year 2018-19 submitted online on MPCB web portal on 22.09.2019.

	amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and also be send to the respective Regional Offices of MoEF by e-mail.	
XXX.	The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project Proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Honorable court will be binding on the project Proponent. Hence this clearance does not give immunity to the project Proponent in the case filed against him.	Not Applicable.

MASTER COPY

CONTROLLED COPY

ANNEXURE – I

	PRIVI ORGANICS INDIA LIMITED,UNIT-III	Page
	Department: HUMAN RESOURCE	1 of 3
	Housekeeping Checklist - Daily Cleaning	

Month: April 2020

Sr no.	Points to be checked	Dates:																													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	**Daily Cleaning**																															
a	Roads	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
b	Tank area	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
c	Vehicle	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
d	Offices/cloak rooms	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
e	EHs office	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
f	Visitor Room	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

	Prepared by	Reviewed by		Approved by
Name	Ms. Srushti Jagtap	Mr. Makarand Deshmukh	Mr. Devendra Khanapurkar	Mrs. Vinita Mane
Designation	Executive - HR	Executive - QA	Sr. Manager – HR	Sr. Manager QA
Signature				
Date	20/03/2019	20/03/2019	20/03/2019	20/03/2019

Format No.: HR004-FN01-01

0004

Issued By QA 01/04/2020

MASTER COPY

CONTROLLED COPY

ANNEXURE – I

	PRIVI ORGANICS INDIA LIMITED,UNIT-III	Page
	Department: HUMAN RESOURCE	2 of 3
	Housekeeping Checklist - Daily Cleaning	

2	**Canteen - Daily cleaning**																															
a	Table, chairs	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
b	Floor sweeping	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
c	Floor mopping	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
d	Dustbin cleaning	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

	Prepared by	Reviewed by		Approved by
Name	Ms. Srushti Jagtap	Mr. Makarand Deshmukh	Mr. Devendra Khanapurkar	Mrs. Vinita Mane
Designation	Executive - HR	Executive - QA	Sr. Manager – HR	Sr. Manager QA
Signature	Srushti	MD	Devendra	Vinita
Date	20/03/2019	20/03/2019	20/03/2019	20/03/2019

MASTER COPY

CONTROLLED COPY

ANNEXURE – I

	PRIVI ORGANICS INDIA LIMITED,UNIT-III	Page
	Department: HUMAN RESOURCE	3 of 3
	Housekeeping Checklist - Daily Cleaning	

Checked by Housekeeping Supervisor	
Verified by Admin	

JOB ANALYSIS : **Completed** √ **Not completed** X

REMARKS :

	Prepared by	Reviewed by		Approved by
Name	Ms. Srushti Jagtap	Mr. Makarand Deshmukh	Mr. Devendra Khanapurkar	Mrs.Vinita Mane
Designation	Executive - HR	Executive - QA	Sr. Manager – HR	Sr.Manager QA
Signature				
Date	20/03/2019	20/03/2019	20/03/2019	20/03/2019

Format No. : HR004–FN01–01

Issued By QA 000
01/04/2020

PRIVI ORGANICS INDIA LIMITED UNIT-III

PREVENTIVE MAINTENANCE Schedule

Sr. No.	Tag No.	Location	Equipment Details	Frequency (+/-3 Day)	Apr-20	Apr-20
					Planned Date	Done Date
1	OFB-01	Boiler	Oil Fired Boiler	M	14	15
2	RAV-3702	Boiler	16 THP APH ECONOMIZER RAV-RAV-3702	M	1	1
3	RAV-3701	Boiler	16 TPH BANK ZONE RAV-RAV-3701	M	1	1
4	FD-3701	Boiler	16 TPH BOILER FD FAN-FD-3701	M	1	1
5	FP-3701	Boiler	16 TPH BOILER FEED WATER PUMP A-FP-3701	M	1	1
6	FP-3702	Boiler	16 TPH BOILER FEED WATER PUMP B-FP-3702	M	1	1
7	ID-3701	Boiler	16 TPH BOILER ID FAN-ID-3701	M	1	1
8	PA-3701	Boiler	16 TPH BOILER PA FAN-PA-3701	M	1	1
9	CDLPP-01	Boiler	16 TPH boiler LP chemical dosing pump	M	21	21
10	CDLPP-02	Boiler	16 TPH boiler LP chemical dosing pump	M	21	21
11	CDHPP-01	Boiler	16 TPH boiler HP chemical dosing pump	M	21	21
12	CDHPP-02	Boiler	16 TPH boiler HP chemical dosing pump	M	21	21
13	DFP-3701	Boiler	DEARATOR FEED PUMP (NEAR DEARATOR)-DFP-3701	M	23	23
14	DFP-3702	Boiler	16 TPH boiler DEARATOR FEED PUMP (DM plant building top floor)	M	23	23
15	DFP-3703	Boiler	16 TPH boiler DEARATOR FEED PUMP (DM plant building top floor)	M	23	23
16	ESPHM-01	Boiler	ESP Hammer Gear Box no-1	M	24	24
17	ESPHM-02	Boiler	ESP Hammer Gear Box no-2	M	24	24
18	ESPRAV-01	Boiler	ESP RAV- 01	M	24	24
19	ESPRAV-02	Boiler	ESP RAV- 02	M	24	24
20	BPF-3701	Boiler	16 TPH boiler Pocket feeder -1	M	1	1
21	BPF-3702	Boiler	16 TPH boiler Pocket feeder -2	M	1	1
22	BPF-3703	Boiler	16 TPH boiler Pocket feeder -3	M	1	1
23	FPGCP-3701	Boiler	FEED PUMP GLAND COOLING PUMP-FPGCP-3701	M	1	1
24	FPGCP-3702	Boiler	FEED PUMP GLAND COOLING PUMP-FPGCP-3702	M	1	1
25	CFB-3702	Boiler	COAL FIRED BOILER 16 TPH AFBC Boiler	M	1	1
26	ESP-01	Boiler	16 TPH boiler ESP	HY	1	1

PREVENTIVE MAINTENANCE Schedule

Sr.No	Tag No.	Location	Equipment Details	Frequency (+/-3 Day)	Apr-20	Apr-20
					Planned Date	Done Date
1	MBP-A	MEE	Column no. I Pump	M	1	1
2	MBP-B	MEE	Column no.II Pump	M	1	1
3	MBP-C	MEE	Column no.III Pump	M	1	1
4	P-FD-M	MEE	MEE Feed Pump	M	2	2

5	P-BW-A	ETP	Back wash pump A	M	2	2
6	P-BW-B	ETP	Back wash pump B	M	3	3
7	P-OS-A	ETP	Outlet sump pump A	M	3	3
8	P-OS-B	ETP	Outlet sump pump B	M	3	3
10	ARB-II	ETP	Air Blower no.II	M	4	4
11	ARB-III	ETP	Air Blower no.III	M	5	5
12	ARB-IV	ETP	Air Blower no.IV	M	5	5
13	ARB-V	ETP	Air Blower no.V	M	5	5
14	CFG	MEE	MEE Centrifuge	M	7	7
15	FHMP	ETP	Fire hydrant main pump	M	14	14
16	FHJP	ETP	Fire hydrant jockey pump	M	14	14
17	FHDP	ETP	Fire hydrant diesel pump	M	14	14

PREVENTIVE MAINTENANCE Schedule					
S.N.	**TAG.N0.**	**PLANT**	**Equipment**	**PLANNED DATE**	**COMPLETED DATE**
1	DG-01	DG Room	Diesel Generator set	30/12/2019	30/12/2019
2	DG-01	DG Room	Diesel Generator set	30/03/2020	31/03/2020

Annexure-III

Privi Organics India Ltd. Unit-III

Details of Funds for Environment Protection

S. No.	Pollution Control Measures	Capital Cost Per Annum (Lac)
1	Green Belt development	0.4
2	Solid waste management	7.20
3	Environment Monitoring (Monitoring charges for air, water, noise)	1.5
4	Occupational Health & Hygiene (Includes cost of medical checkup, PPE & first aid kit and PPE, first aid facility, safe drinking water plant & sanitation measures, EHS training & awareness programme)	20.0
5	Air Pollution Control Measures	30.0
6	Water Pollution Control Measures	80.0
8	Rain Water Harvesting	0.5
9	CSR /CER Activity	10
Total		**149.6**

Aavanira Biotech (P) Ltd. Kinetic Innovation Park, D-1 Block, Plot No. - 18/1 Part, MIDC Chinchwad, Pune - 411 019. Maharashtra, India.
■ Tel.: 8308805200 / 8446000118, ■ E-mail : info@aavanira.com, ■ Web : www.aavanira.com
CIN NO. U74900PN2010PTC137544

Aavanira® BIOTECH

Recognized by Ministry of Environment and Forest (MoEF), Govt. of India
ISO 9001: 2015 and OHSAS 18001: 2007Certified Company

ENalyse*

Ambient Air Quality Monitoring Report

REPORT No. AB/POL/12/2019-20/622

Name of Client & Address: **M/s. Privi Organics India Ltd., (Unit-III)** **Plot No.A-03, MIDC Mahad** **Dist-Raigad-402309** **Maharashtra, India**	**Sample Code**	**AB/POL/12/2019-20/622**
	Sample Location	**(A7) Near Main Gate**
	Sample Collected By	**Aavanira Biotech Pvt. Ltd.,**
	Sample type	**Ambient Air**
	Method of Sampling	**As per IS : 5182 Part 1 (2006)**
	Date of Sampling	**21/12/2019 to 22/12/2019**
	Time of Sampling	**12:40 pm.**
	Sampling Duration	**24 Hrs**
	Ambient Temp. (Max./Min.)	**29.5°C / 20.0°C**
	Relative Humidity(RH)	**40 %**
	Analysis Date	**23/12/2019 to 30/12/2019**
	Reporting date	**30/12/2019**
	Instrument Details	**Ambient Fine Dust Sampler, AB/Tech/Instr/120**
Sample returned /stored	**Stored at 4°C for 1 week from the date of reporting**	

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM_{10})	69.80	µg/m^3	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	31.25	µg/m^3	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	22.8	µg/m^3	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	30.4	µg/m^3	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	19.2	µg/m^3	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.12	µg/m^3	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.52	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	18.6	µg/m^3	≤ 400	AB/Tech/CHM/SOP/A/06
9	Benzene (C_6H_6)	BDL	µg/m^3	≤ 05 (Annual)	IS 5182 (Part 11) : 2006
10	Benzo(a)Pyrene (BaP)	BDL	ng/m^3	≤ 01(Annual)	IS 5182 (Part 12) :2004
11	Arsenic (As)	0.07	ng/m^3	≤ 06 (Annual)	AB/Tech/CHM/SOP/A/10
12	Nickel (Ni)	0.10	ng/m^3	≤ 20 (Annual)	AB/Tech/CHM/SOP/A/09

REMARKS / OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

Verified By – Quality Manager

Govt. Analyst

-----End of Report-----

Authorized By – Technical Manager / Dy. Technical Manager

AAVANIRA BIOTECH (P) LTD. * PUNE *

Aavanira Biotech (P) Ltd. Kinetic Innovation Park, D-1 Block, Plot No. - 18/1 Part, MIDC Chinchwad, Pune - 411 019. Maharashtra, India.
■ Tel.: 8308805200 / 8446000118, ■ E-mail : info@aavanira.com, ■ Web : www.aavanira.com
CIN NO. U74900PN2010PTC137544

Recognized by Ministry of Environment and Forest (MoEF), Govt. of India
ISO 9001: 2015 and OHSAS 18001: 2007Certified Company

ENalyse*

Ambient Air Quality Monitoring Report

REPORT No. AB/POL/12/2019-20/623

Name of Client & Address: **M/s. Privi Organics India Ltd., (Unit-III)** **Plot No.A-03, MIDC Mahad** **Dist-Raigad-402309** **Maharashtra, India**	**Sample Code**	**AB/POL/12/2019-20/623**
	Sample Location	**(A8) Near DG Set**
	Sample Collected By	**Aavanira Biotech Pvt. Ltd.,**
	Sample type	**Ambient Air**
	Method of Sampling	**As per IS : 5182 Part 1 (2006)**
	Date of Sampling	**21/12/2019 to 22/12/2019**
	Time of Sampling	**01:00 pm.**
	Sampling Duration	**24 Hrs**
	Ambient Temp. (Max./Min.)	**30.3°C / 21.5°C**
	Relative Humidity(RH)	**43 %**
	Analysis Date	**23/12/2019 to 30/12/2019**
	Reporting date	**30/12/2019**
	Instrument Details	**Ambient Fine Dust Sampler, AB/Tech/Instr/133**
Sample returned /stored	**Stored at 4°C for 1 week from the date of reporting**	

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM_{10})	67.92	$\mu g/m^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	35.17	$\mu g/m^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	22.6	$\mu g/m^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	24.7	$\mu g/m^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	13.6	$\mu g/m^3$	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.12	$\mu g/m^3$	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.95	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	14.0	$\mu g/m^3$	≤ 400	AB/Tech/CHM/SOP/A/06
9	Benzene (C_6H_6)	BDL	$\mu g/m^3$	≤ 05 (Annual)	IS 5182 (Part 11) : 2006
10	Benzo(a)Pyrene (BaP)	BDL	ng/m^3	≤ 01(Annual)	IS 5182 (Part 12) :2004
11	Arsenic (As)	0.10	ng/m^3	≤ 06 (Annual)	AB/Tech/CHM/SOP/A/10
12	Nickel (Ni)	0.14	ng/m^3	≤ 20 (Annual)	AB/Tech/CHM/SOP/A/09

REMARKS / OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

Verified By – Quality Manager

Govt. Analyst

Authorized By – Technical Manager / Dy. Technical Manager

-----End of Report-----

AAVANIRA BIOTECH (P) LTD. * PUNE *

Aavanira Biotech (P) Ltd. Kinetic Innovation Park, D-1 Block, Plot No. - 18/1 Part, MIDC Chinchwad, Pune - 411 019. Maharashtra, India.
■ Tel.: 8308805200 / 8446000118, ■ E-mail : info@aavanira.com, ■ Web : www.aavanira.com
CIN NO. U74900PN2010PTC137544

Aavanira® BIOTECH

Recognized by Ministry of Environment and Forest (MoEF), Govt. of India
ISO 9001: 2015 and OHSAS 18001: 2007Certified Company

ENalyse*

Ambient Air Quality Monitoring Report

REPORT No. AB/POL/12/2019-20/624

Name of Client & Address: **M/s. Privi Organics India Ltd., (Unit-III)** **Plot No.A-03, MIDC Mahad** **Dist-Raigad-402309** **Maharashtra, India**	**Sample Code**	**AB/POL/12/2019-20/624**
	Sample Location	**(A9) Near ETP**
	Sample Collected By	**Aavanira Biotech Pvt. Ltd.,**
	Sample type	**Ambient Air**
	Method of Sampling	**As per IS : 5182 Part 1 (2006)**
	Date of Sampling	**21/12/2019 to 22/12/2019**
	Time of Sampling	**01:25 pm.**
	Sampling Duration	**24 Hrs**
	Ambient Temp. (Max./Min.)	**30.6°C / 21.5°C**
	Relative Humidity(RH)	**42 %**
	Analysis Date	**23/12/2019 to 30/12/2019**
	Reporting date	**30/12/2019**
	Instrument Details	**Ambient Fine Dust Sampler, AB/Tech/Instr/121**
Sample returned /stored	**Stored at 4°C for 1 week from the date of reporting**	

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM_{10})	68.19	$\mu g/m^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	30.18	$\mu g/m^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	16.2	$\mu g/m^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	22.5	$\mu g/m^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	19.1	$\mu g/m^3$	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.12	$\mu g/m^3$	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.68	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	8.5	$\mu g/m^3$	≤ 400	AB/Tech/CHM/SOP/A/06
9	Benzene (C_6H_6)	BDL	$\mu g/m^3$	≤ 05 (Annual)	IS 5182 (Part 11) : 2006
10	Benzo(a)Pyrene (BaP)	BDL	ng/m^3	≤ 01(Annual)	IS 5182 (Part 12) :2004
11	Arsenic (As)	0.11	ng/m^3	≤ 06 (Annual)	AB/Tech/CHM/SOP/A/10
12	Nickel (Ni)	0.15	ng/m^3	≤ 20 (Annual)	AB/Tech/CHM/SOP/A/09

REMARKS / OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

Verified By – Quality Manager

Govt. Analyst

Authorized By – Technical Manager / Dy. Technical Manager

-----End of Report-----

AAVANIRA BIOTECH (P) LTD. * PUNE *

Aavanira Biotech (P) Ltd. Kinetic Innovation Park, D-1 Block, Plot No. - 18/1 Part,
MIDC Chinchwad, Pune - 411 019. Maharashtra, India.
■ Tel.: 8308805200 / 8446000118, ■ E-mail : info@aavanira.com, ■ Web : www.aavanira.com
CIN NO. U74900PN2010PTC137544

Aavanira® BIOTECH

Recognized by Ministry of Environment and Forest (MoEF), Govt. of India
ISO 9001: 2015 and OHSAS 18001: 2007Certified Company

Ambient Air Quality Monitoring Report

REPORT No. AB/POL/01/2019-20/666

Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-III) Plot No.A-03, MIDC Mahad Dist-Raigad-402309 Maharashtra, India		
	Sample Code	AB/POL/01/2019-20/666
	Sample Location	(A7) Near Main Gate
	Sample Collected By	Aavanira Biotech Pvt. Ltd.,
	Sample type	Ambient Air
	Method of Sampling	As per IS : 5182 Part 1 (2006)
	Date of Sampling	21/01/2020 to 22/01/2020
	Time of Sampling	01:10 pm.
	Sampling Duration	24 Hrs
	Ambient Temp. (Max./Min.)	27.9°C / 19.0°C
	Relative Humidity(RH)	42 %
	Analysis Date	23/01/2020 to 30/01/2020
	Reporting date	30/01/2020
	Instrument Details	Ambient Fine Dust Sampler, AB/Tech/Instr/120
Sample returned /stored	Stored at 4°C for 1 week from the date of reporting	

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM_{10})	57.28	$\mu g/m^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	28.90	$\mu g/m^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	17.6	$\mu g/m^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	20.8	$\mu g/m^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	15.3	$\mu g/m^3$	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.06	$\mu g/m^3$	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.49	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	12.3	$\mu g/m^3$	≤ 400	AB/Tech/CHM/SOP/A/06
9	Benzene (C_6H_6)	BDL	$\mu g/m^3$	≤ 05 (Annual)	IS 5182 (Part 11) : 2006
10	Benzo(a)Pyrene (BaP)	BDL	ng/m^3	≤ 01(Annual)	IS 5182 (Part 12) :2004
11	Arsenic (As)	0.05	ng/m^3	≤ 06 (Annual)	AB/Tech/CHM/SOP/A/10
12	Nickel (Ni)	0.09	ng/m^3	≤ 20 (Annual)	AB/Tech/CHM/SOP/A/09

REMARKS / OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

Verified By – Quality Manager

Authorized By – Technical Manager / Dy. Technical Manager

Govt. Analyst

-----End of Report-----

AAVANIRA BIOTECH (P) LTD. * PUNE *

Aavanira Biotech (P) Ltd. Kinetic Innovation Park, D-1 Block, Plot No. - 18/1 Part,
MIDC Chinchwad, Pune - 411 019. Maharashtra, India.
■ Tel.: 8308805200 / 8446000118, ■ E-mail : info@aavanira.com, ■ Web : www.aavanira.com
CIN NO. U74900PN2010PTC137544

Aavanira® BIOTECH

Recognized by Ministry of Environment and Forest (MoEF), Govt. of India
ISO 9001: 2015 and OHSAS 18001: 2007Certified Company

Ambient Air Quality Monitoring Report

REPORT No. AB/POL/01/2019-20/667

Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-III) Plot No.A-03, MIDC Mahad Dist-Raigad-402309 Maharashtra, India	Sample Code	AB/POL/01/2019-20/667
	Sample Location	(A8) Near DG Set
	Sample Collected By	Aavanira Biotech Pvt. Ltd.,
	Sample type	Ambient Air
	Method of Sampling	As per IS : 5182 Part 1 (2006)
	Date of Sampling	21/01/2020 to 22/01/2020
	Time of Sampling	01:25 pm.
	Sampling Duration	24 Hrs
	Ambient Temp. (Max./Min.)	28.3°C / 19.9°C
	Relative Humidity(RH)	46 %
	Analysis Date	23/01/2020 to 30/01/2020
	Reporting date	30/01/2020
	Instrument Details	Ambient Fine Dust Sampler, AB/Tech/Instr/133
Sample returned /stored	Stored at 4°C for 1 week from the date of reporting	

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM_{10})	71.92	$\mu g/m^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	37.03	$\mu g/m^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	19.2	$\mu g/m^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	22.8	$\mu g/m^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	13.3	$\mu g/m^3$	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.06	$\mu g/m^3$	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.52	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	12.1	$\mu g/m^3$	≤ 400	AB/Tech/CHM/SOP/A/06
9	Benzene (C_6H_6)	BDL	$\mu g/m^3$	≤ 05 (Annual)	IS 5182 (Part 11) : 2006
10	Benzo(a)Pyrene (BaP)	BDL	ng/m^3	≤ 01(Annual)	IS 5182 (Part 12) :2004
11	Arsenic (As)	0.12	ng/m^3	≤ 06 (Annual)	AB/Tech/CHM/SOP/A/10
12	Nickel (Ni)	0.16	ng/m^3	≤ 20 (Annual)	AB/Tech/CHM/SOP/A/09

REMARKS / OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

Verified By – Quality Manager

Authorized By – Technical Manager / Dy. Technical Manager

Govt. Analyst

-----End of Report-----

AAVANIRA BIOTECH (P) LTD. * PUNE *

Aavanira Biotech (P) Ltd. Kinetic Innovation Park, D-1 Block, Plot No. - 18/1 Part,
MIDC Chinchwad, Pune - 411 019. Maharashtra, India.
■ Tel.: 8308805200 / 8446000118, ■ E-mail : info@aavanira.com, ■ Web : www.aavanira.com
CIN NO. U74900PN2010PTC137544

Aavanira® BIOTECH

Recognized by Ministry of Environment and Forest (MoEF), Govt. of India
ISO 9001: 2015 and OHSAS 18001: 2007Certified Company

Ambient Air Quality Monitoring Report

REPORT No. AB/POL/01/2019-20/668

Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-III) Plot No.A-03, MIDC Mahad Dist-Raigad-402309 Maharashtra, India		
	Sample Code	AB/POL/01/2019-20/668
	Sample Location	(A9) Near ETP
	Sample Collected By	Aavanira Biotech Pvt. Ltd.,
	Sample type	Ambient Air
	Method of Sampling	As per IS : 5182 Part 1 (2006)
	Date of Sampling	21/01/2020 to 22/01/2020
	Time of Sampling	01:50 pm.
	Sampling Duration	24 Hrs
	Ambient Temp. (Max./Min.)	28.3°C / 19.9°C
	Relative Humidity(RH)	46 %
	Analysis Date	23/01/2020 to 30/01/2020
	Reporting date	30/01/2020
	Instrument Details	Ambient Fine Dust Sampler, AB/Tech/Instr/121
Sample returned /stored	Stored at 4°C for 1 week from the date of reporting	

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM_{10})	55.94	$\mu g/m^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	27.26	$\mu g/m^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	15.0	$\mu g/m^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	18.9	$\mu g/m^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	15.0	$\mu g/m^3$	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.06	$\mu g/m^3$	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.55	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	22.3	$\mu g/m^3$	≤ 400	AB/Tech/CHM/SOP/A/06
9	Benzene (C_6H_6)	BDL	$\mu g/m^3$	≤ 05 (Annual)	IS 5182 (Part 11) : 2006
10	Benzo(a)Pyrene (BaP)	BDL	ng/m^3	≤ 01(Annual)	IS 5182 (Part 12) :2004
11	Arsenic (As)	0.04	ng/m^3	≤ 06 (Annual)	AB/Tech/CHM/SOP/A/10
12	Nickel (Ni)	0.07	ng/m^3	≤ 20 (Annual)	AB/Tech/CHM/SOP/A/09

REMARKS / OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

Verified By – Quality Manager

Authorized By – Technical Manager / Dy. Technical Manager

Govt. Analyst

-----End of Report-----

AAVANIRA BIOTECH (P) LTD. * PUNE *

Aavanira Biotech (P) Ltd. Kinetic Innovation Park, D-1 Block, Plot No. - 18/1 Part,
MIDC Chinchwad, Pune - 411 019. Maharashtra, India.
■ Tel.: 8308805200 / 8446000118, ■ E-mail : info@aavanira.com, ■ Web : www.aavanira.com
CIN NO. U74900PN2010PTC137544

Aavanira® BIOTECH

Recognized by Ministry of Environment and Forest (MoEF), Govt. of India
ISO 9001: 2015 and OHSAS 18001: 2007Certified Company

ENalyse*

Ambient Air Quality Monitoring Report

REPORT No. AB/POL/02/2019-20/525

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-III) Plot No.A-03, MIDC Mahad Dist-Raigad-402309 Maharashtra, India	Sample Code	AB/POL/02/2019-20/525
	Sample Location	(A7) Near Main Gate
	Sample Collected By	Aavanira Biotech Pvt. Ltd.,
	Sample type	Ambient Air
	Method of Sampling	As per IS : 5182 Part 1 (2006)
	Date of Sampling	18/02/2020 to 19/02/2020
	Time of Sampling	10:00 am.
	Sampling Duration	24 Hrs
	Ambient Temp. (Max./Min.)	29.3°C / 21.0°C
	Relative Humidity(RH)	39 %
	Analysis Date	21/02/2020 to 28/02/2020
	Reporting date	28/02/2020
	Instrument Details	Ambient Fine Dust Sampler, AB/Tech/Instr/120
Sample returned /stored	Stored at 4°C for 1 week from the date of reporting	

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM_{10})	73.90	$\mu g/m^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	28.26	$\mu g/m^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	13.8	$\mu g/m^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	18.0	$\mu g/m^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	10.8	$\mu g/m^3$	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.14	$\mu g/m^3$	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.29	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	15.0	$\mu g/m^3$	≤ 400	AB/Tech/CHM/SOP/A/06
9	Benzene (C_6H_6)	BDL	$\mu g/m^3$	≤ 05 (Annual)	IS 5182 (Part 11) : 2006
10	Benzo(a)Pyrene (BaP)	BDL	ng/m^3	≤ 01(Annual)	IS 5182 (Part 12) :2004
11	Arsenic (As)	0.11	ng/m^3	≤ 06 (Annual)	AB/Tech/CHM/SOP/A/10
12	Nickel (Ni)	0.14	ng/m^3	≤ 20 (Annual)	AB/Tech/CHM/SOP/A/09

REMARKS / OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

Verified By – Quality Manager

Authorized By – Technical Manager / Dy. Technical Manager

Govt. Analyst

-----End of Report-----

AAVANIRA BIOTECH (P) LTD. * PUNE *

Aavanira Biotech (P) Ltd. Kinetic Innovation Park, D-1 Block, Plot No. - 18/1 Part,
MIDC Chinchwad, Pune - 411 019. Maharashtra, India.
■ Tel.: 8308805200 / 8446000118, ■ E-mail : info@aavanira.com, ■ Web : www.aavanira.com
CIN NO. U74900PN2010PTC137544

Aavanira® BIOTECH

Recognized by Ministry of Environment and Forest (MoEF), Govt. of India
ISO 9001: 2015 and OHSAS 18001: 2007Certified Company

ENalyse*

Ambient Air Quality Monitoring Report

REPORT No. AB/POL/02/2019-20/526

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-III) Plot No.A-03, MIDC Mahad Dist-Raigad-402309 Maharashtra, India	Sample Code	AB/POL/02/2019-20/526
	Sample Location	(A8) Near DG Set
	Sample Collected By	Aavanira Biotech Pvt. Ltd.,
	Sample type	Ambient Air
	Method of Sampling	As per IS : 5182 Part 1 (2006)
	Date of Sampling	18/02/2020 to 19/02/2020
	Time of Sampling	10:10 am.
	Sampling Duration	24 Hrs
	Ambient Temp. (Max./Min.)	29.0°C / 20.3°C
	Relative Humidity(RH)	56 %
	Analysis Date	21/02/2020 to 28/02/2020
	Reporting date	28/02/2020
	Instrument Details	Ambient Fine Dust Sampler, AB/Tech/Instr/121
Sample returned /stored	Stored at 4°C for 1 week from the date of reporting	

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM_{10})	75.71	$\mu g/m^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	32.18	$\mu g/m^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	13.5	$\mu g/m^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	19.5	$\mu g/m^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	12.0	$\mu g/m^3$	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.08	$\mu g/m^3$	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.55	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	10.1	$\mu g/m^3$	≤ 400	AB/Tech/CHM/SOP/A/06
9	Benzene (C_6H_6)	BDL	$\mu g/m^3$	≤ 05 (Annual)	IS 5182 (Part 11) : 2006
10	Benzo(a)Pyrene (BaP)	BDL	ng/m^3	≤ 01(Annual)	IS 5182 (Part 12) :2004
11	Arsenic (As)	0.05	ng/m^3	≤ 06 (Annual)	AB/Tech/CHM/SOP/A/10
12	Nickel (Ni)	0.08	ng/m^3	≤ 20 (Annual)	AB/Tech/CHM/SOP/A/09

REMARKS / OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

Verified By – Quality Manager

Authorized By – Technical Manager / Dy. Technical Manager

Govt. Analyst

-----End of Report-----

AAVANIRA BIOTECH (P) LTD. * PUNE *

Aavanira Biotech (P) Ltd. Kinetic Innovation Park, D-1 Block, Plot No. - 18/1 Part,
MIDC Chinchwad, Pune - 411 019. Maharashtra, India.
■ Tel.: 8308805200 / 8446000118, ■ E-mail : info@aavanira.com, ■ Web : www.aavanira.com
CIN NO. U74900PN2010PTC137544

Aavanira® BIOTECH

Recognized by Ministry of Environment and Forest (MoEF), Govt. of India
ISO 9001: 2015 and OHSAS 18001: 2007Certified Company

Ambient Air Quality Monitoring Report

REPORT No. AB/POL/02/2019-20/527

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-III) Plot No.A-03, MIDC Mahad Dist-Raigad-402309 Maharashtra, India	Sample Code	AB/POL/02/2019-20/527
	Sample Location	(A9) Near ETP
	Sample Collected By	Aavanira Biotech Pvt. Ltd.,
	Sample type	Ambient Air
	Method of Sampling	As per IS : 5182 Part 1 (2006)
	Date of Sampling	18/02/2020 to 19/02/2020
	Time of Sampling	10:30 am.
	Sampling Duration	24 Hrs
	Ambient Temp. (Max./Min.)	29.0°C / 20.3°C
	Relative Humidity(RH)	56 %
	Analysis Date	21/02/2020 to 28/02/2020
	Reporting date	28/02/2020
	Instrument Details	Ambient Fine Dust Sampler, AB/Tech/Instr/133
Sample returned /stored	Stored at 4°C for 1 week from the date of reporting	

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM_{10})	66.28	$\mu g/m^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	26.92	$\mu g/m^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	14.3	$\mu g/m^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	19.5	$\mu g/m^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	12.6	$\mu g/m^3$	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.07	$\mu g/m^3$	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.46	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	9.2	$\mu g/m^3$	≤ 400	AB/Tech/CHM/SOP/A/06
9	Benzene (C_6H_6)	BDL	$\mu g/m^3$	≤ 05 (Annual)	IS 5182 (Part 11) : 2006
10	Benzo(a)Pyrene (BaP)	BDL	ng/m^3	≤ 01(Annual)	IS 5182 (Part 12) :2004
11	Arsenic (As)	BDL	ng/m^3	≤ 06 (Annual)	AB/Tech/CHM/SOP/A/10
12	Nickel (Ni)	BDL	ng/m^3	≤ 20 (Annual)	AB/Tech/CHM/SOP/A/09

REMARKS / OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

Verified By – Quality Manager

Authorized By – Technical Manager / Dy. Technical Manager

Govt. Analyst

-----End of Report-----

AAVANIRA BIOTECH (P) LTD. * PUNE *

Aavanira Biotech (P) Ltd. Kinetic Innovation Park, D-1 Block, Plot No. - 18/1 Part,
MIDC Chinchwad, Pune - 411 019. Maharashtra, India.
■ Tel.: 8308805200 / 8446000118, ■ E-mail : info@aavanira.com, ■ Web : www.aavanira.com
CIN NO. U74900PN2010PTC137544

Aavanira® BIOTECH

Recognized by Ministry of Environment and Forest (MoEF), Govt. of India
ISO 9001: 2015 and OHSAS 18001: 2007Certified Company

ENalyse*

Source Emission Monitoring Report REPORT NO. AB/POL/02/2019-20/528

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-III) Plot No.A-03, MIDC Mahad Dist-Raigad-402309 Maharashtra, India	Sample Code	AB/POL/02/2019-20/528
	Sample Location/Attached To	S-1 Boiler 8TPH
	Sample Collected By	Aavanira Biotech Pvt. Ltd.,
	Sample type	Stack
	Method of Sampling	As per IS : 11255 (Part – 1) : 1985
	Date of Sampling	18/02/2020
	Time of Sampling	12:35 pm.
	Analysis Date	21/02/2020 to 28/02/2020
	Reporting date	28/02/2020
	Instrument Details	Stack Monitoring Kit , AB/Tech/Instr/93
Sample returned /stored	Stored at 4°C for 1 week from the date of reporting	

STACK DETAILS

Sr. No.	Particulars	Details	Unit
1	Material of Stack	MS	--
2	Stack Height from G.L.	42	mtr.
3	Type of Stack	Round	--
4	Fuel Type	Coal	--
5	Flue Gas Temperature	412	°K
6	Differential Pressure	2.1	mmWG
7	Velocity	5.98	m/s
8	Dimension of Stack	0.9	mtr.
9	Stack Area	0.6358	m^2
10	Gas Volume	10252.16	Nm^3/Hr

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB Consent	Standard Method
1	Total Particulate Matter (TPM)	99.79	mg/Nm^3	≤ 150	IS:11255 (Part -1)-1985
2	Sulphur Dioxide(SO_2)	14.3	ppm	≤ 50	IS:11255 (Part -2)-1985
		26.12	Kg/day	≤ 200	
3	Oxides of Nitrogen(NOx)	19.7	ppm	≤ 50	IS:11255 (Part -7)-2005
4	HCL	0.26	mg/Nm^3	<35	US EPA Method 8 A
5	Acid Mist	0.8	ppm	<35	US EPA Method 8 A

REMARK / OBSERVATIONS:

- All above results are within MPCB Limits.

Verified By – Quality Manager

Authorized By – Technical Manager / Dy. Technical Manager

Govt. Analyst

-----End of Report-----

AAVANIRA BIOTECH (P) LTD. * PUNE *

Aavanira Biotech (P) Ltd. Kinetic Innovation Park, D-1 Block, Plot No. - 18/1 Part,
MIDC Chinchwad, Pune - 411 019. Maharashtra, India.
■ Tel.: 8308805200 / 8446000118, ■ E-mail : info@aavanira.com, ■ Web : www.aavanira.com
CIN NO. U74900PN2010PTC137544

Aavanira® BIOTECH

Recognized by Ministry of Environment and Forest (MoEF), Govt. of India
ISO 9001: 2015 and OHSAS 18001: 2007Certified Company

ENalyse*

Source Emission Monitoring Report REPORT NO. AB/POL/02/2019-20/529

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-III) Plot No.A-03, MIDC Mahad Dist-Raigad-402309 Maharashtra, India	Sample Code	AB/POL/02/2019-20/529
	Sample Location/Attached To	S-2 DG Set 750 KVA
	Sample Collected By	Aavanira Biotech Pvt. Ltd.,
	Sample type	Stack
	Method of Sampling	As per IS : 11255 (Part – 1) : 1985
	Date of Sampling	18/02/2020
	Time of Sampling	01:00 pm.
	Analysis Date	21/02/2020 to 28/02/2020
	Reporting date	28/02/2020
	Instrument Details	Stack Monitoring Kit , AB/Tech/Instr/93
Sample returned /stored	Stored at 4°C for 1 week from the date of reporting	

STACK DETAILS

Sr. No.	Particulars	Details	Unit
1	Material of Stack	MS	--
2	Stack Height from G.L.	13	mtr.
3	Type of Stack	Round	--
4	Fuel Type	HSD	--
5	Flue Gas Temperature	402	°K
6	Differential Pressure	7.5	mmWG
7	Velocity	11.22	m/s
8	Dimension of Stack	0.2032	mtr.
9	Stack Area	0.0324	m^2
10	Gas Volume	970.54	Nm^3/Hr

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB Consent	Standard Method
1	Total Particulate Matter (TPM)	58.71	mg/Nm^3	≤ 150	IS:11255 (Part -1)-1985
2	Sulphur Dioxide(SO_2)	19.36	ppm	≤ 50	IS:11255 (Part -2)-1985
		1.20	Kg/day	--	
3	Oxides of Nitrogen(NOx)	6.1	ppm	≤ 50	IS:11255 (Part -7)-2005
4	HCL	N.D.	mg/Nm^3	< 35	US EPA Method 8 A
5	Acid Mist	N.D.	ppm	< 35	US EPA Method 8 A

REMARK / OBSERVATIONS:

- All above results are within MPCB Limits.
- N.D.: Not Detectable

Verified By – Quality Manager

Authorized By – Technical Manager / Dy. Technical Manager

Govt. Analyst

-----End of Report-----

AAVANIRA BIOTECH (P) LTD. PUNE

Aavanira Biotech (P) Ltd. Kinetic Innovation Park, D-1 Block, Plot No. - 18/1 Part,
MIDC Chinchwad, Pune - 411 019. Maharashtra, India.
■ Tel.: 8308805200 / 8446000118, ■ E-mail : info@aavanira.com, ■ Web : www.aavanira.com
CIN NO. U74900PN2010PTC137544

Aavanira® BIOTECH

Recognized by Ministry of Environment and Forest (MoEF), Govt. of India
ISO 9001: 2015 and OHSAS 18001: 2007Certified Company

ENalyse*

Source Emission Monitoring Report REPORT NO. AB/POL/02/2019-20/530

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-III) Plot No.A-03, MIDC Mahad Dist-Raigad-402309 Maharashtra, India	Sample Code	AB/POL/02/2019-20/530
	Sample Location/Attached To	S-3 Diesel Engine Fire Pump
	Sample Collected By	Aavanira Biotech Pvt. Ltd.,
	Sample type	Stack
	Method of Sampling	As per IS : 11255 (Part – 1) : 1985
	Date of Sampling	18/02/2020
	Time of Sampling	01:20 pm.
	Analysis Date	21/02/2020 to 28/02/2020
	Reporting date	28/02/2020
	Instrument Details	Stack Monitoring Kit , AB/Tech/Instr/93
Sample returned /stored	Stored at 4°C for 1 week from the date of reporting	

STACK DETAILS

Sr. No.	Particulars	Details	Unit
1	Material of Stack	MS	--
2	Stack Height from G.L.	12	mtr.
3	Type of Stack	Round	--
4	Fuel Type	HSD	--
5	Flue Gas Temperature	362	°K
6	Differential Pressure	4.6	mmWG
7	Velocity	8.11	m/s
8	Dimension of Stack	0.1	mtr.
9	Stack Area	0.0078	m^2
10	Gas Volume	192.23	Nm^3/Hr

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB Consent	Standard Method
1	Total Particulate Matter (TPM)	39.72	mg/Nm^3	≤ 150	IS:11255 (Part -1)-1985
2	Sulphur Dioxide(SO_2)	25.28	mg/Nm^3	--	IS:11255 (Part -2)-1985
		0.10	Kg/day	--	
3	Oxides of Nitrogen(NOx)	1.33	ppm	--	IS:11255 (Part -7)-2005
4	HCL	N.D.	mg/Nm^3	<35	US EPA Method 8 A
5	Acid Mist	N.D.	ppm	<35	US EPA Method 8 A

REMARK / OBSERVATIONS:

- All above results are within MPCB Limits.
- N.D.: Not Detectable

Verified By – Quality Manager

Authorized By – Technical Manager / Dy. Technical Manager

Govt. Analyst

-----End of Report-----

Aavanira Biotech (P) Ltd. Kinetic Innovation Park, D-1 Block, Plot No. - 18/1 Part,
MIDC Chinchwad, Pune - 411 019. Maharashtra, India.
■ Tel.: 8308805200 / 8446000118, ■ E-mail : info@aavanira.com, ■ Web : www.aavanira.com
CIN NO. U74900PN2010PTC137544

Aavanira® BIOTECH

Recognized by Ministry of Environment and Forest (MoEF), Govt. of India
ISO 9001: 2015 and OHSAS 18001: 2007Certified Company

Source Emission Monitoring Report REPORT NO. AB/POL/02/2019-20/531

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-III) Plot No.A-03, MIDC Mahad Dist-Raigad-402309 Maharashtra, India	Sample Code	AB/POL/02/2019-20/531
	Sample Location/Attached To	Boiler 16TPH
	Sample Collected By	Aavanira Biotech Pvt. Ltd.,
	Sample type	Stack
	Method of Sampling	As per IS : 11255 (Part – 1) : 1985
	Date of Sampling	18/02/2020
	Time of Sampling	01:35 pm.
	Analysis Date	21/02/2020 to 28/02/2020
	Reporting date	28/02/2020
	Instrument Details	Stack Monitoring Kit , AB/Tech/Instr/93
Sample returned /stored	Stored at 4°C for 1 week from the date of reporting	

STACK DETAILS

Sr. No.	Particulars	Details	Unit
1	Material of Stack	MS	--
2	Stack Height from G.L.	42	mtr.
3	Type of Stack	Round	--
4	Fuel Type	Coal	--
5	Flue Gas Temperature	515	°K
6	Differential Pressure	1.6	mmWG
7	Velocity	5.87	m/s
8	Dimension of Stack	1.7	mtr.
9	Stack Area	2.2687	m^2
10	Gas Volume	27732.19	Nm^3/Hr

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB Consent	Standard Method
1	Total Particulate Matter (TPM)	68.92	mg/Nm^3	≤ 150	IS:11255 (Part -1)-1985
2	Sulphur Dioxide(SO_2)	24.10	ppm	≤ 50	IS:11255 (Part -2)-1985
		40.95	Kg/day	≤ 720	
3	Oxides of Nitrogen(NOx)	29.5	ppm	≤ 50	IS:11255 (Part -7)-2005
4	HCL	0.8	mg/Nm^3	<35	US EPA Method 8 A
5	Acid Mist	1.1	ppm	<35	US EPA Method 8 A

REMARK / OBSERVATIONS:

- All above results are within MPCB Limits.

Verified By – Quality Manager

Authorized By – Technical Manager / Dy. Technical Manager

Govt. Analyst

-----End of Report-----

AAVANIRA BIOTECH (P) LTD. * PUNE *

Aavanira Biotech (P) Ltd. Kinetic Innovation Park, D-1 Block, Plot No. - 18/1 Part,
MIDC Chinchwad, Pune - 411 019. Maharashtra, India.
■ Tel.: 8308805200 / 8446000118, ■ E-mail : info@aavanira.com, ■ Web : www.aavanira.com
CIN NO. U74900PN2010PTC137544

Aavanira® BIOTECH

Recognized by Ministry of Environment and Forest (MoEF), Govt. of India
ISO 9001: 2015 and OHSAS 18001: 2007Certified Company

Personal Air Monitoring Analysis Report

REPORT No. AB/POL/02/2019-20/532

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-III) Plot No.A-03, MIDC Mahad Dist-Raigad-402309,Maharashtra, India	Sample Code	AB/POL/02/2019-20/532
	Sample Location	Terpinol Plant- Near ATOL Reaction
	Sample Collected By	Aavanira Biotech Pvt. Ltd.,
	Sample type	Personal Air
	Method of Sampling	As per IS : 5182 Part 1 (2006)
	Date of Sampling	19/02/2020
	Time of Sampling	05:00 pm.
	Sampling Duration	08 Hrs.
	Ambient Temp. (Max./Min.)	28.6°C /20.3°C
	Relative Humidity(RH)	39 %
	Analysis Date	21/02/2020 to 28/02/2020
	Reporting date	28/02/2020

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	The Factories Act 1948 standards	Standard Method
1	Hydrocarbon	1.33	mg/M^3	N.S.	NIOSH Manual
2	Acid Mist	0.4	mg/ M^3	<1.0	NIOSH Manual
3	VOCs (B-T-X)	BDL	ppm	N.S.	GC Method

N.S. = Not Specified

REMARKS / OBSERVATIONS:

- All above results are well within The Factories Act, 1948 Standards.

Verified By – Quality Manager

Authorized By – Technical Manager / Dy. Technical Manager

Govt. Analyst

-----End of Report-----

AAVANIRA BIOTECH (P) LTD. * PUNE *

Aavanira Biotech (P) Ltd. Kinetic Innovation Park, D-1 Block, Plot No. - 18/1 Part,
MIDC Chinchwad, Pune - 411 019. Maharashtra, India.
■ Tel.: 8308805200 / 8446000118, ■ E-mail : info@aavanira.com, ■ Web : www.aavanira.com
CIN NO. U74900PN2010PTC137544

Aavanira® BIOTECH

Recognized by Ministry of Environment and Forest (MoEF), Govt. of India
ISO 9001: 2015 and OHSAS 18001: 2007Certified Company

Personal Air Monitoring Analysis Report

REPORT No. AB/POL/02/2019-20/533

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-III) Plot No.A-03, MIDC Mahad Dist-Raigad-402309,Maharashtra, India	Sample Code	AB/POL/02/2019-20/533
	Sample Location	Boiler- Ground Floor
	Sample Collected By	Aavanira Biotech Pvt. Ltd.,
	Sample type	Personal Air
	Method of Sampling	As per IS : 5182 Part 1 (2006)
	Date of Sampling	19/02/2020
	Time of Sampling	05:15 pm.
	Sampling Duration	08 Hrs.
	Ambient Temp. (Max./Min.)	28.9°C /21.2°C
	Relative Humidity(RH)	38 %
	Analysis Date	21/02/2020 to 28/02/2020
	Reporting date	28/02/2020

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	The Factories Act 1948 standards	Standard Method
1	Coal Dust	1.29	mg/M^3	N.S.	NIOSH Manual
2	Acid Mist	0.90	mg/M^3	<1.0	NIOSH Manual

N.S. = Not Specified

REMARKS / OBSERVATIONS:

- All above results are well within The Factories Act, 1948 Standards.

Verified By – Quality Manager

Authorized By – Technical Manager / Dy. Technical Manager

Govt. Analyst

-----End of Report-----

AAVANIRA BIOTECH (P) LTD. * PUNE *

Aavanira Biotech (P) Ltd. Kinetic Innovation Park, D-1 Block, Plot No. - 18/1 Part,
MIDC Chinchwad, Pune - 411 019. Maharashtra, India.
■ Tel.: 8308805200 / 8446000118, ■ E-mail : info@aavanira.com, ■ Web : www.aavanira.com
CIN NO. U74900PN2010PTC137544

Aavanira® BIOTECH

Recognized by Ministry of Environment and Forest (MoEF), Govt. of India
ISO 9001: 2015 and OHSAS 18001: 2007Certified Company

ENalyse*

Workzone Air Monitoring Analysis Report

REPORT No. AB/POL/02/2019-20/534

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-III) Plot No.A-03, MIDC Mahad Dist-Raigad-402309,Maharashtra, India	Sample Code	AB/POL/02/2019-20/534
	Sample Location	Terpinol Plant- Near PETP Area
	Sample Collected By	Aavanira Biotech Pvt. Ltd.,
	Sample type	Workzone Air
	Method of Sampling	As per IS : 5182 Part 1 (2006)
	Date of Sampling	19/02/2020
	Time of Sampling	04:00 pm.
	Sampling Duration	08 Hrs.
	Ambient Temp. (Max./Min.)	29.3°C /20.2°C
	Relative Humidity(RH)	40 %
	Analysis Date	21/02/2020 to 28/02/2020
	Reporting date	28/02/2020

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	The Factories Act 1948 standards	Standard Method
1	Acid Mist	0.23	mg/M^3	<1.0	NIOSH Manual
2	Hydrocarbon	1.47	mg/M^3	N.S.	NIOSH Manual

N.S. = Not Specified

REMARKS / OBSERVATIONS:

- All above results are well within The Factories Act, 1948 Standards.

Verified By – Quality Manager

Authorized By – Technical Manager / Dy. Technical Manager

Govt. Analyst

-----End of Report-----

AAVANIRA BIOTECH (P) LTD. PUNE

Aavanira Biotech (P) Ltd. Kinetic Innovation Park, D-1 Block, Plot No. - 18/1 Part,
MIDC Chinchwad, Pune - 411 019. Maharashtra, India.
■ Tel.: 8308805200 / 8446000118, ■ E-mail : info@aavanira.com, ■ Web : www.aavanira.com
CIN NO. U74900PN2010PTC137544

Aavanira® BIOTECH

Recognized by Ministry of Environment and Forest (MoEF), Govt. of India
ISO 9001: 2015 and OHSAS 18001: 2007Certified Company

Workzone Air Monitoring Analysis Report

REPORT No. AB/POL/02/2019-20/535

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-III) Plot No.A-03, MIDC Mahad Dist-Raigad-402309,Maharashtra, India	Sample Code	AB/POL/02/2019-20/535
	Sample Location	Boiler- Crusher Area
	Sample Collected By	Aavanira Biotech Pvt. Ltd.,
	Sample type	Workzone Air
	Method of Sampling	As per IS : 5182 Part 1 (2006)
	Date of Sampling	19/02/2020
	Time of Sampling	04:25 pm.
	Sampling Duration	08 Hrs.
	Ambient Temp. (Max./Min.)	32.6°C /22.6°C
	Relative Humidity(RH)	46 %
	Analysis Date	21/02/2020 to 28/02/2020
	Reporting date	28/02/2020

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	The Factories Act 1948 standards	Standard Method
1	Coal Dust	4.18	mg/M^3	N.S.	NIOSH Manual
2	Acid Mist	0.86	mg/M^3	<1.0	NIOSH Manual

REMARKS / OBSERVATIONS:

- All above results are well within The Factories Act, 1948 Standards.

Verified By – Quality Manager

Authorized By – Technical Manager / Dy. Technical Manager

Govt. Analyst

-----End of Report----

AAVANIRA BIOTECH (P) LTD. * PUNE *

Aavanira Biotech (P) Ltd. Kinetic Innovation Park, D-1 Block, Plot No. - 18/1 Part,
MIDC Chinchwad, Pune - 411 019. Maharashtra, India.
■ Tel.: 8308805200 / 8446000118, ■ E-mail : info@aavanira.com, ■ Web : www.aavanira.com
CIN NO. U74900PN2010PTC137544

Aavanira® BIOTECH

Recognized by Ministry of Environment and Forest (MoEF), Govt. of India
ISO 9001: 2015 and OHSAS 18001: 2007Certified Company

Ambient Noise Monitoring Report

REPORT No. AB/POL/02/2019-20/536

Name of Client & Address:		
M/s. Privi Organics Ltd., (Unit-III) Plot No.A-03, MIDC Mahad Dist-Raigad-402309 Maharashtra, India	Sample Code	AB/POL/02/2019-20/536
	Sample Collected By	Aavanira Biotech Pvt. Ltd.,
	Sample type	Noise
	Method of Sampling	As per IS : 4758
	Date of Sampling	18/02/2020
	Reporting date	28/02/2020
	Instrument Details	Sound Level Meter, AB/TECH/INSTR/200

Sr. No.	Test Location	Day Time		Night Time		Unit
		Time in Hrs.	Readings	Time in Hrs.	Readings	
01	Near Main Gate	12:00	67.4	22:15	65.2	dB(A)
02	Near Admin Department	12:03	62.2	22:20	60.4	dB(A)
03	Boiler Area	12:05	69.5	22:23	67.1	dB(A)
04	MEE Plant	12:08	68.6	22:25	65.3	dB(A)
05	Near Terpinrt plant	12:10	70.1	22:30	67.3	dB(A)
06	Near ETP V-Notch	12:13	72.2	22:32	66.0	dB(A)
07	Fabrication Work Shop	12:17	70.6	22:40	67.2	dB(A)
08	UTILITY AREA	12:20	69.7	22:45	67.4	dB(A)
09	ETP Area	12:22	68.2	22:42	65.2	dB(A)
10	DG Area	12:30	67.4	22:45	62.3	dB(A)

REMARKS / OBSERVATIONS:

- **Limits:** Maharashtra Pollution Control Board has prescribed 75 dB (A) as an upper limit of Noise Level during day time and 70 dB (A) during night time.

Verified By – Quality Manager

Authorized By – Technical Manager / Dy. Technical Manager

Govt. Analyst

-----End of Report-----

AAVANIRA BIOTECH (P) LTD. * PUNE *

Aavanira Biotech (P) Ltd. Kinetic Innovation Park, D-1 Block, Plot No. - 18/1 Part,
MIDC Chinchwad, Pune - 411 019. Maharashtra, India.
■ Tel.: 8308805200 / 8446000118, ■ E-mail : info@aavanira.com, ■ Web : www.aavanira.com
CIN NO. U74900PN2010PTC137544

Aavanira® BIOTECH

Recognized by Ministry of Environment and Forest (MoEF), Govt. of India
ISO 9001: 2015 and OHSAS 18001: 2007Certified Company

ENalyse*

Ambient Air Quality Monitoring Report

REPORT No. AB/POL/03/2019-20/584

Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-III) Plot No.A-03, MIDC Mahad Dist-Raigad-402309 Maharashtra, India	Sample Code	AB/POL/03/2019-20/584
	Sample Location	(A7) Near Main Gate
	Sample Collected By	Aavanira Biotech Pvt. Ltd.,
	Sample type	Ambient Air
	Method of Sampling	As per IS : 5182 Part 1 (2006)
	Date of Sampling	18/03/2020 to 19/03/2020
	Time of Sampling	01:00 pm.
	Sampling Duration	24 Hrs
	Ambient Temp. (Max./Min.)	32.4°C / 25.6°C
	Relative Humidity(RH)	62 %
	Analysis Date	19/03/2020 to 21/03/2020
	Reporting date	21/03/2020
	Instrument Details	Ambient Fine Dust Sampler, AB/Tech/Instr/133
Sample returned /stored	Stored at 4°C for 1 week from the date of reporting	

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM_{10})	61.50	µg/m^3	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	25.02	µg/m^3	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	18.6	µg/m^3	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	22.3	µg/m^3	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	18.0	µg/m^3	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.11	µg/m^3	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.68	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	16.0	µg/m^3	≤ 400	AB/Tech/CHM/SOP/A/06
9	Benzene (C_6H_6)	BDL	µg/m^3	≤ 05 (Annual)	IS 5182 (Part 11) : 2006
10	Benzo(a)Pyrene (BaP)	BDL	ng/m^3	≤ 01(Annual)	IS 5182 (Part 12) :2004
11	Arsenic (As)	0.08	ng/m^3	≤ 06 (Annual)	AB/Tech/CHM/SOP/A/10
12	Nickel (Ni)	0.11	ng/m^3	≤ 20 (Annual)	AB/Tech/CHM/SOP/A/09

REMARKS / OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

Verified By – Quality Manager

Govt. Analyst

Authorized By – Technical Manager / Dy. Technical Manager

-----End of Report-----

AAVANIRA BIOTECH (P) LTD. PUNE

Aavanira Biotech (P) Ltd. Kinetic Innovation Park, D-1 Block, Plot No. - 18/1 Part,
MIDC Chinchwad, Pune - 411 019. Maharashtra, India.
■ Tel.: 8308805200 / 8446000118, ■ E-mail : info@aavanira.com, ■ Web : www.aavanira.com
CIN NO. U74900PN2010PTC137544

Aavanira® BIOTECH

Recognized by Ministry of Environment and Forest (MoEF), Govt. of India
ISO 9001: 2015 and OHSAS 18001: 2007Certified Company

ENalyse*

Ambient Air Quality Monitoring Report

REPORT No. AB/POL/03/2019-20/585

Name of Client & Address: **M/s. Privi Organics India Ltd., (Unit-III)** **Plot No.A-03, MIDC Mahad** **Dist-Raigad-402309** **Maharashtra, India**	**Sample Code**	**AB/POL/03/2019-20/585**
	Sample Location	**(A8) Near DG Set**
	Sample Collected By	**Aavanira Biotech Pvt. Ltd.,**
	Sample type	**Ambient Air**
	Method of Sampling	**As per IS : 5182 Part 1 (2006)**
	Date of Sampling	**18/03/2020 to 19/03/2020**
	Time of Sampling	**01:25 pm.**
	Sampling Duration	**24 Hrs**
	Ambient Temp. (Max./Min.)	**32.3°C / 25.2°C**
	Relative Humidity(RH)	**61 %**
	Analysis Date	**19/03/2020 to 21/03/2020**
	Reporting date	**21/03/2020**
	Instrument Details	**Ambient Fine Dust Sampler, AB/Tech/Instr/120**
Sample returned /stored	**Stored at 4°C for 1 week from the date of reporting**	

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM_{10})	69.28	$\mu g/m^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	34.10	$\mu g/m^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	20.2	$\mu g/m^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	26.3	$\mu g/m^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	14.1	$\mu g/m^3$	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.08	$\mu g/m^3$	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.72	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	16.2	$\mu g/m^3$	≤ 400	AB/Tech/CHM/SOP/A/06
9	Benzene (C_6H_6)	BDL	$\mu g/m^3$	≤ 05 (Annual)	IS 5182 (Part 11) : 2006
10	Benzo(a)Pyrene (BaP)	BDL	ng/m^3	≤ 01(Annual)	IS 5182 (Part 12) :2004
11	Arsenic (As)	0.10	ng/m^3	≤ 06 (Annual)	AB/Tech/CHM/SOP/A/10
12	Nickel (Ni)	0.14	ng/m^3	≤ 20 (Annual)	AB/Tech/CHM/SOP/A/09

REMARKS / OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

Verified By – Quality Manager

Govt. Analyst

Authorized By – Technical Manager / Dy. Technical Manager

-----End of Report-----

AAVANIRA BIOTECH (P) LTD. PUNE

Aavanira Biotech (P) Ltd. Kinetic Innovation Park, D-1 Block, Plot No. - 18/1 Part, MIDC Chinchwad, Pune - 411 019. Maharashtra, India.
■ Tel.: 8308805200 / 8446000118, ■ E-mail : info@aavanira.com, ■ Web : www.aavanira.com
CIN NO. U74900PN2010PTC137544

Aavanira® BIOTECH

Recognized by Ministry of Environment and Forest (MoEF), Govt. of India
ISO 9001: 2015 and OHSAS 18001: 2007Certified Company

ENalyse*

Ambient Air Quality Monitoring Report

REPORT No. AB/POL/03/2019-20/586

Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-III) Plot No.A-03, MIDC Mahad Dist-Raigad-402309 Maharashtra, India	Sample Code	AB/POL/03/2019-20/586
	Sample Location	(A9) Near ETP
	Sample Collected By	Aavanira Biotech Pvt. Ltd.,
	Sample type	Ambient Air
	Method of Sampling	As per IS : 5182 Part 1 (2006)
	Date of Sampling	18/03/2020 to 19/03/2020
	Time of Sampling	01:25 pm.
	Sampling Duration	24 Hrs
	Ambient Temp. (Max./Min.)	31.0°C / 25.0°C
	Relative Humidity(RH)	60%
	Analysis Date	19/03/2020 to 21/03/2020
	Reporting date	21/03/2020
	Instrument Details	Ambient Fine Dust Sampler, AB/Tech/Instr/121
Sample returned /stored	Stored at 4°C for 1 week from the date of reporting	

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM_{10})	59.11	µg/m^3	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	23.60	µg/m^3	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	16.4	µg/m^3	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	20.0	µg/m^3	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	12.6	µg/m^3	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.05	µg/m^3	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.75	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	21.0	µg/m^3	≤ 400	AB/Tech/CHM/SOP/A/06
9	Benzene (C_6H_6)	BDL	µg/m^3	≤ 05 (Annual)	IS 5182 (Part 11) : 2006
10	Benzo(a)Pyrene (BaP)	BDL	ng/m^3	≤ 01(Annual)	IS 5182 (Part 12) :2004
11	Arsenic (As)	BDL	ng/m^3	≤ 06 (Annual)	AB/Tech/CHM/SOP/A/10
12	Nickel (Ni)	0.05	ng/m^3	≤ 20 (Annual)	AB/Tech/CHM/SOP/A/09

REMARKS / OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

Verified By – Quality Manager

Govt. Analyst

Authorized By – Technical Manager / Dy. Technical Manager

-----End of Report-----

AAVANIRA BIOTECH (P) LTD. PUNE

Aavanira Biotech (P) Ltd. Kinetic Innovation Park, D-1 Block, Plot No. - 18/1 Part,
MIDC Chinchwad, Pune - 411 019. Maharashtra, India.
■ Tel.: 8308805200 / 8446000118, ■ E-mail : info@aavanira.com, ■ Web : www.aavanira.com
CIN NO. U74900PN2010PTC137544

Aavanira® BIOTECH

Recognized by Ministry of Environment and Forest (MoEF), Govt. of India
ISO 9001: 2015 and OHSAS 18001: 2007Certified Company

ENalyse*

Test Report

REPORT NO. AB/POI/01/2019-20/588

Client Details Name & Address **M/s. Privi Organics India Ltd., (Unit-III)** **Plot No.A-03, MIDC Mahad,** **Dist-Raigad-402 309,** **Maharashtra, India**	**Sample Code**	**AB/POI/01/2019-20/588**
	Sample Name	**Unit III ETP Outlet**
	Sample Collected By	**Aavanira Biotech Pvt. Ltd.**
	Method for Sampling	**IS:3025 Part 1**
	Sample Type	**Effluent**
	Sample Collected On	**17/03/2020**
	Sample Received on Date	**18/03/2020**
	Analysis Date	**18/03/2020 to 21/03/2020**
	Reporting Date	**21/03/2020**
Sample returned /stored	**Stored at 4°C for 1 week from the date of reporting**	

Sr. No.	Parameter	Results	MPCB Limits	Units	Standard Method
Physical Parameter					
1	TSS (Total Suspended Solids)	<10.0	<100.0	mg/lit	IS: 3025 Part-17 (R.A : 2006)
2	TDS (Total Dissolved Solids)	1528.0	<2100.0	mg/lit	IS: 3025 Part-16 (R.A : 2006)
Chemical Parameter					
1	pH (at 25°C)	7.82	5.5-9.0	--	IS: 3025 Part-11 (R.A : 2002)
2	BOD (Biochemical Oxygen Demand) (3day at 27°C)	22.0	<100.0	mg/lit	IS: 3025 Part-44 (R.A : 2003)
3	COD (Chemical Oxygen Demand)	72.60	<250.0	mg/lit	IS: 3025 Part-58 (R.A : 2006)
4	Oil and Grease	<2.0	<10.0	mg/lit	IS: 3025 Part-39 (R.A : 2003)
5	Chloride(as Cl^-)	163.55	<600.0	mg/lit	IS: 3025 Part-32 (R.A : 2003)
6	Sulphate (as SO_4^{-2})	188.0	<1000.0	mg/lit	APHA :23rd edition -(4500- SO_4^{2-} E)
7	Total Phosphates (as PO_4^{-3})	2.6	<5.0	mg/lit	IS: 3025 Part-02 (2004), USEPA
8	Ammonical Nitrogen as N	BDL	<50.0	mg/lit	APHA :23rd edition -(4500-NH_3 B and C)
9	Phenol	BDL	<1.0	mg/lit	IS: 3025 Part-43 (R.A : 2003)
10	Bioassay Test	91	90% for 96 Hrs	%	APHA 8010

BDL – Below Detection Level

REMARKS / OBSERVATIONS: All above parameters are within MPCB Limits.

Verified By – Quality Manager

Govt. Analyst

Authorized By – Technical Manager / Dy. Technical Manager

-----End of Report-----

AAVANIRA BIOTECH (P) LTD. PUNE