Ref. No: POIL/U-II/EC-Compliance/20-21/039

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-II, Plot No.:C-3,4,5,6,6/1,7,8,9,33/1 & X-9,10,11 MIDC area, Mahad, Dist.- Raigad.

Ref: Environment Department, MS, SEIAA Letter – SEAC 2012/CR. 43/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-II on plot No.:C-3,4,5,6,6/1,7,8,9,33/1 & X-9, 10, 11 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 conditions dated 08.10.2015

We will mail you the soft copies of the report to the Email:
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 II

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

PRIVI ORGANICS INDIA LIMITED

Unit - II (EOU) : C-3, 4, 5, 6, 7, 8, 9, 6/1, C-33/1, X-9, X-10, X-11 M.I.D.C., Mahad-402309. Dist. Raigad, (Mah.), India. Tel.: +91 8879228856-60

Knowledge Centre & Regd. Office : Privi House, A-71, TTC, Thane Belapur Road, Near Kopar Khairane Railway Station, Navi Mumbai-400709. India | Tel.: +91 22 27783040 / 27783041 / 27783045 / 66023500 | Fax: +91 22 27783049
Email: enquiry@privi.co.in | Web: www.privi.com | CIN: U24220MH2016PLC283393 | (Formerly: Adi Aromatic Ltd.)

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

SEAC- 2012/CR-43/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 II on Plot No. C-3/4/5/6, 7, 6/1,8,9,33/1 & X-9,10,11 MIDC area, Mahad, Dist 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 of Privi Organics Ltd, Plot No. C-3/4/5/6, 7, 6/1,8,9,33/1 & X-9,10,11 MIDC area, Mahad, Dist. Raigad.
Project Proponent	Mr. D.B. Rao Designation: Executive Director M/s Privi Organics Ltd
Consultants	M/s. Green Circle Inc.
New Project / Expansion	Expansion
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.): 50675.0 (Plot no.C-3/4/5/6, 6/1,7,8,9) 5081.0 (Plot no. C-33/1, X-9,10,11) Built up area (Sq. m.): 24154.0 (Plot no.C-3/4/5/6, 6/1,7,8,9) 1536.0 (Plot no. C-33/1, X-9,10,11)
Name of the Notified Industrial area / MIDC Area	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>0.0</td></tr>
<tr><td>2</td><td>Building (Factory + Office + Warehouse)</td><td>80.0</td></tr>
<tr><td>3</td><td>Plant & Machinery</td><td>5342.0</td></tr>
<tr><td>4</td><td>Piping + Electrical + Instrumentations + Painting + Erection & Commissioning</td><td>1370.0</td></tr>
<tr><td></td><td>Total</td><td>6792.0</td></tr>
</table>
</td></tr>
<tr><td>Location details of the project :</td><td>➢ Latitude: 18°06.397'N
➢ Longitude: 73°29.321'E
➢ Location: MIDC, Mahad, Dist- Raigad
➢ Elevation above Mean Sea Level (metres): 17.06</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: One tank (350 KL) & 150 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): 6.0 Lacs
Recurring Cost (Lacs): 0.5 Lacs</td></tr>
<tr><td>Total Water Requirement</td><td>Total water requirement:
• Fresh water (CMD): Existing- 722.0 + Propose- 240.2 & Source: MIDC Water Supply. Total: 927.2
• Recycled water (CMD): 35.0
Use of the water:
<table>
<tr><td>• Process (CMD)</td><td>192.0</td></tr>
<tr><td>• Cooling water (CMD)</td><td>398.2</td></tr>
<tr><td>• Drinking (CMD)</td><td>Included in domestic requirement</td></tr>
<tr><td>• Green belt (CMD)</td><td>35.0 (Recycle)</td></tr>
<tr><td>• Domestic (CMD)</td><td>49.0</td></tr>
<tr><td>• Boiler (CMD)</td><td>288.0</td></tr>
<tr><td>Total (CMD)</td><td>927.2</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: 8268 m^3 (generated during monsoon)
• Size of SWD: 10.5 M x 15.0 M x 2.25 M</td></tr>
<tr><td>Effluent generation and treatment</td><td>• Amount of sewage generation (CMD): 35 m3/day
• Proposed treatment for the sewage: Soak pit and Septic tank followed by STP.
• Capacity of the STP (CMD) (If applicable): Yes,40 m3/day</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>
</table>
</td></tr>
</table>

	1	pH	5.0	7.2	5.5-9
	2	COD	3560	201	250
	3	BOD	746	40	30
	4	NH_4^+ - N	30	8	50
	5	Oil & Grease	25	5	10
	6	TDS	2560	1260	2100

ETP details	• Amount of trade influent generation (CMD): 140.0 • Capacity of the ETP (CMD): 160.0 • Amount of treated effluent recycled (CMD): 35.0 • Amount of water send to the CETP (CMD): 98.0 • Membership of the CETP (If require): If yes then attach the letter submit the letter Attached as annexure VII
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	288	Dry & Solid	
	Insulation	0.3	Dry & Solid	
2.	Process & Utility			
	MS Scrap	15.0	Dry & Solid	
	Thermopack ash	5.5	Dry & Solid	
3	Canteen	1.055	Dry/Slurry & Solid	
4	Office			
	(Paper, wood waste,Plastic etc.)	0.9	Dry & Solid	

	Hazardous Waste		
S.no	Type & Category of hazardous waste		Quantity
1	Cat.no.-34.3 Chemical Sludge from ETP		40 MT/M
2	Cat.no.- 5.1 Spent oil		0.5MT/M
3	Cat.no.-33.3 Discarded Containers	Drums	201 Nos/M
		IBCs	25 Nos/M
		Carboys	50 Nos/M
4	Cat.no.- 36.1 Sludge from MEE		20.4 MT/M
5	Batteries rules,2002- Lead acid batteries		30 Nos/A
6	Cat.no.-15.2 Discarded Asbestos		8.3 Kg/M
7	Cat.no.- 35.2 Spent Catalyst		0.5 MT/M

8	Cat.no.- 5.2 Waste residue containing oil (oil soaked gaskets and cotton waste)	150 Kg/M
9	E-Waste rules, 2011- e-waste	57 Kg/M
10	Cat.no.- 35.3 Carbon/Charcoal	2.2 MT/M
11	Silica	2.2 MT/M
12	Resin	0.1 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?
  Yes, recovery of (27%) spent Sulphuric acid from Multiple effect evaporation system to make it 70% concentrated sulfuric acid. For the reuse in process.
- 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 18 TPH	5510 m3/hr	114 mg/Nm3
	SO2		5510 m3/hr	15.2 PPM
	NOx			
	CO			
	Others			
	SPM	Boiler 8 TPH	5510 m3/hr	114 mg/Nm3
	SO2		5510 m3/hr	15.2 PPM
	NOx			
	CO			
	Others			
	SPM	Boiler 6 TPH	5598 m3/hr	111 mg/Nm3
	SO2		5598 m3/hr	15.1PPM
	NOx			
	CO			
	Others			
	SPM	Boiler 6 TPH	5598 m3/hr	111 mg/Nm3
	SO2		5598 m3/hr	15.1PPM
	NOx			
	CO			
	Others			
	SPM	Boiler 30 TPH	Proposed	
	SO2			
	NOx			

	CO			
	Others			
	SPM	DG Set 1000 KVA	618 m3/hr	112 mg/Nm3
	SO2		618 m3/hr	14.1 PPM
	NOx			
	CO			
	Others			
	SPM	DG Set 750 KVA	625 m3/hr	112 mg/Nm3
	SO2		625 m3/hr	12.9 PPM
	NOx			
	CO			
	Others			
	SPM	DG Set 380 KVA	6223 m3/hr	116 mg/Nm3
	SO2		6223 m3/hr	16.2 PPM
	NOx			
	CO			
	Others			
	SPM	Incinerator 75 Kg/h	3914 m3/hr	51.8 mg/Nm3
	SO2		3914 m3/hr	1.02 kg/day
	NOx			
	CO			
	Others			
	SPM	Thermic Fluid Heater	965 m3/hr	112 mg/Nm3
	SO2		965 m3/hr	14.2 ppm
	NOx			
	CO			
	Others			
	SPM	Coal fired Thermic Fluid Heater	Proposed	
	SO2			
	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 activity). Please indicate the specific section to which the stack is attached. e.g.: Process section,	Plant Section & units	Stack No.	Height from ground level (m)	Internal Diameter (Top)(m)	Emission Rate	Temp. of Exhaust Gases
	Boiler 18 TPH	1	42.0	1.3	SPM: SO2: NOx: CO: Others 5510 m3/hr	136
	Boiler	2	42.0	1.3	SPM:	136

D.G. Set, Boiler, Power Plant, incinerator etc. Emission rate (kg/hr.) for each pollutant (SPM, SO2, NOx etc. should be specified	8 TPH				SO2: NOx: CO: Others 5510 m3 /hr	
	Boiler 6TPH	3	30.0	0.55	SPM: SO2: NOx: CO: Others 5598 m3 /hr	140
	Boiler 6 TPH	4	30.0	0.55	SPM: SO2: NOx: CO: Others 5598 m3 /hr	140
	Boiler 30 TPH (Proposed)	5	46.0	2.0	SPM: SO2: NOx: CO: Others	160
	DG set 1000KVA	6	12.0	0.1778	SPM: SO2: NOx: CO: Others 618 m3/hr	185
	DG set 750KVA	7	12.0	0.1778	SPM: SO2: NOx: CO: Others 625 m3/hr	185
	DG set 380KVA	8	10.0	0.1778	SPM: SO2: NOx: CO: Others 6223 m3/hr	141
	Incinerator 75 Kg/h	9	30	0.25	SPM: SO2: NOx: CO: Others	93.5

					3914 m3/hr	
	Thermic Fluid Heater	10	30	0.25	SPM: SO2: NOx: CO: Others 965 m3/hr	158
	Thermic Fluid Heater (Proposed Coal Fired)	11	30	0.55	SPM: SO2: NOx: CO: Others	

Emission Standard

Pollutants	Emission Standard Limit (mg/Nm3)	Proposed Limit (mg/Nm3)	MPCB Consent (mg/Nm3)
SPM/TPM	-	Not to exceed	150.0
SO_2 (from boiler)	-	Not to exceed	389 Kg/d
SO_2/NOx	-	Not to exceed	50 ppm
Acid mist	-	Not to exceed	35.0
HCL	-	Not to exceed	50.0

Ambient Air Quality Data

Pollutant	Permissible Standard	Remarks
PM_{10}	100 µg/m3	
$PM_{2.5}$	60 µg/m3	
SO_2	80 µg/m3	
NOx	80 µg/m3	
CO	2 mg/m^3	
Ammonia	400 µg/m3	
Ozone	100 µg/m3	
Lead	1.0 µg/m3	
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	250 L/hr	-	12000		
4	Fuel Oil	4.1 KLD	4.75 KLD	10200	0.01	0.5

	5	Coal	90.0	123.624	5800	7	1.5
	6	Lignite	-	-			
	7	Biofuel	-	5.9 KLD	9627	0.52	0.31

- Source of fuel:Coal: Imported
  FO : M/s IOCL
  HSD:M/s IOCL
- Mode of transportation of fuel to site:By Road

Energy	Power supply: • Existing power requirement: 1700 KVA • Proposed power requirement: 1595 KVA DG sets: Total:3295 KVA • Number and capacity of DG sets to be used (existing and proposed): 1x1000KVA, 1x750KVA, 1x380 KVA.1x625 KVA (Existing) Details of the non-conventional renewable energy proposed to be used : Not Applicable
Green Belt Development	• Green belt area (Sq. m.): 2286 • Number and species of trees to be planted: 500 nos.

Details of Pollution Control Systems:

Sr. No.	Aspects	Existing pollution control system	Proposed to be installed
1	Air	For Fugitive emissions: Venturi Scrubber & Packed bed Scrubber	For Flue gas emission: ESP will be installed for 30 TPH boiler
2	Water	Effluent treatment Plant along with RO and MEE	-
3	Noise	The Boiler and thermic fluid heater would be kept in an isolated area with propoer aucoustic treatment to have the ambient noise level as per CPCB standards. The workers would be provided with proper personal protective equipment (PPE) such as ear plugs,ear muffs etc. The DG sets would be enclosed in canopy as well as silencer.	-

		4	Solid Waste	The Soild waste generated would be disposed off by giving back to the suppliers/sale to scrap collectors.	-	

Environmental Management plan Budgetary Allocation

- Capital cost (With break up): 783.45 Lakhs (Const.+Op)
- O&M cost (With break up): 612.41 Lakhs

Sr. No.	Description	Recurring Cost in lacs per annum	Capital Cost in lacs
1	Air Pollution Control	18.80	242.0
2	Water Pollution Control	540.55	478.0
3	Noise Pollution Control	0.5	0.0
4	Environment Monitoring and Management	2.05	0.0
5	Rain Water Harvesting	0.5	6.0
6	Occupational Health	39.69	9 .0
7	Green Belt	8.82	1.5
8	Solid waste management	1.5	32.0
9	Others (Pl. Specify)	Nil	10 Lacs (CSR activity)
	Total	612.41	778.5

List of Raw Materials

S. No	Product	Raw Materials	Consumption (MT /M)	Source	Transportation	Storage Condition
	Isobornyl cyclohexanol (IBCH)					
1		Camphene	52.71	Self made/Import/Domestic market	Road ways	Tank/Drum
2		Toluene	135.66	Import/Domestic market	Road ways	Tank
3		BF3 etherate	6.2	Domestic market	Road ways	Drum
4		Catechol / Guiacol	72.87	Import/Domestic market	Road ways	Drum/Bag
5		Sodium hydroxide	2.52	Domestic market	Road ways	Bag
6		Salt	23.64	Domestic market	Road ways	Bag
7		Isopropyl alcohol	3.88	Domestic market	Road ways	Drum

8		Catalyst	1.94	Domestic market	Road ways	Box
9		Hydrogen	52.71	Domestic market	Road ways	Cylinder
				:		
10	L-Carvone	D-Limonene	107.09	Import/Domestic market	Road ways	Tank
11		Cyclohexane	32.13	Import/Domestic market	Road ways	Tank
12		Hydrogen peroxide 50%	54.62	Domestic market	Road ways	Tank
13		PTC	4.28	Import/Domestic market	Road ways	Drum
14		Catalyst ST	3.21	Domestic market	Road ways	Bag
15		Phosphoric acid	1.07	Import/Domestic market	Road ways	Drum
16		Sodium Hydroxide	1.07	Domestic market	Road ways	Bag
17		CATALYST PBS	2.86	Domestic market	Road ways	Bag
18		Sodium Sulphite	10.71	Domestic market	Road ways	Bag
19		AP catalyst	5.19	Domestic market	Road ways	Bag
20		Catalyst ZO	5.19	Import/Domestic market	Road ways	Box
21		Aluminium Isopropoxide	22.32	Import/Domestic market	Road ways	Drum/Tank
22		MEK	135.0	Import/Domestic market	Road ways	Drum/Tank
23		30 % Sulphuric Acid	38.41	Domestic market	Road ways	Bag
24		Salt	2.0	Domestic market	Road ways	Tank
25	Orange oil & D-Limonene	Orange oil	138.12	Import/Domestic market	Road ways	Tank
26	Myrcene	Beta -Pinene	402.8	Self made/Import/ Domestic market	Road ways	Tank
27	Floreol	Isovaleraldehyde	59.81	Import/Domestic market	Road ways	Drum
28		Sulphuric acid	1.79	Domestic market	Road ways	Tank

29		Isoprenol	65.79	Import/Domestic market	Road ways	Drum
30		EDC	23.93	Import/Domestic market	Road ways	Drum
31		Sodium hydroxide	2.33	Domestic market	Road ways	Bag
33	A-Camphole nic aldehyde (ACA)	alpha pinene	57.80	Self made/Import/Domestic Market	Road ways	Tank
34		Hydrogen peroxide (50%)	38.61	Domestic market	Road ways	Tank
35		Catalyst ST	3.76	Domestic market	Road ways	Tank
36		Phenyl phosphonic acid	0.91	Import/Domestic market	Road ways	Drum
37		PTC	4.62	Import/Domestic market	Road ways	Bag
38		Catalyst PBS	1.40	Import/Domestic market	Road ways	Drum
39		Sodium sulphate anhydrous	1.45	Domestic market	Road ways	Bag
40		Sodium sulphite	0.29	Domestic market	Road ways	Bag
41		Salt	113.7	Domestic market	Road ways	Bag
42		Toluene	1.13	Domestic market	Road ways	Tank
43		Zinc Bromide	0.91	Domestic market	Road ways	Bag
44	D-Carvone	L-Limonene	10.7	Self made /Domestic market	Road ways	Tank
45		Cyclohexane	3.2	Domestic market	Road ways	Tank
46		Hydrogen peroxide 50%	5.5	Domestic market	Road ways	Tank
47		PTC	0.4	Domestic market	Road ways	Drum
48		Catalyst ST	0.3	Domestic market	Road ways	Bag
49		Phosphoric acid	0.1	Domestic market	Road ways	Drum
50		Sodium Hydroxide	0.1	Domestic market	Road ways	Bag
51		Catalyst PBS	0.3	Domestic market	Road ways	Bag

52		Sodium Sulphite	1.1	Domestic market	Road ways	Bag
53		AP catalyst	0.5	Domestic market	Road ways	Bag
54		Catalyst ZO	0.5	Import/ Domestic market	Road ways	Drum
55		Aluminium Isopropoxide	2.2	Import/ Domestic market	Road ways	Box
56		Methyl ethyl ketone	13.5	Import/ Domestic market	Road ways	Drum/Tank
57		30 % Sulphuric Acid	3.8	Domestic market	Road ways	Drum/Tank
58		Salt	0.2	Domestic market	Road ways	Bag
59	Dihydro carvone	D-Limonene	10.4	Self made/Import/ Domestic market	Road ways	Tank
60		Cyclohexane	2.7	Domestic market	Road ways	Tank
61		Hydrogen peroxide 50%	4.5	Domestic market	Road ways	Tank
62		PTC	0.4	Domestic market	Road ways	Drum
63		Catalyst ST	0.3	Domestic market	Road ways	Bag
64		Phosphoric acid	0.1	Domestic market	Road ways	Drum
65		Sodium Hydroxide	0.2	Domestic market	Road ways	Bag
66		Catalyst PBS	0.2	Domestic market	Road ways	Bag
67		Sodium Sulphite	0.9	Domestic market	Road ways	Bag
68		Perchloric acid	0.01	Domestic market	Road ways	Drum
69		EDC	18.3	Domestic market	Road ways	Drum/Tank
70		Salt	0.1	Domestic market	Road ways	Bag
71	Carvomen thone	Limonene	10.82	Self made/ Domestic market	Road ways	Tank
72		Isopropyl alcohol	5.41	Domestic market	Road ways	Drum

73		Catalyst	0.05	Domestic market	Road ways	Drum
74		Hydrogen	0.16	Domestic market	Road ways	Cylinder
75		Cyclohexane	1.39	Domestic market	Road ways	Tank
76		Hydrogen peroxide 50%	6.49	Domestic market	Road ways	Tank
77		PTC	0.37	Domestic market	Road ways	Drum
78		Catalyst ST	0.28	Domestic market	Road ways	Bag
79		Phosphoric acid	0.09	Domestic market	Road ways	Drum
80		Sodium Hydroxide	0.1	Domestic market	Road ways	Bag
81		Catalyst PBS	0.19	Domestic market	Road ways	Bag
82		Sodium Sulphite	0.19	Domestic market	Road ways	Bag
83		Perchloric acid	0.08	Domestic market	Road ways	Drum
84		Cyclohexane	14.24	Domestic market	Road ways	Drum
85		Caustic solution	0.2	Domestic market	Road ways	Tank/Drum
86		Salt	0.03	Domestic market	Road ways	Box
87	Nimberol	Citronellal	1.81	Self made/ Domestic market	Road ways	Drum
88		Acetic anhydride	2.39	Domestic market	Road ways	Drum
89		Triethylamine	1.18	Domestic market	Road ways	Drum
90		Sodium acetate	0.18	Domestic market	Road ways	Bag
91		Toluene	0.18	Domestic market	Road ways	Tank
92		soda ash	0.05	Domestic market	Road ways	Bag
93		Salt	0.25	Domestic market	Road ways	Bag
94		Ortho Phosphoric acid	0.45	Domestic market	Road ways	Tank
95		MPK	0.67	Domestic market	Road ways	Drum
96		Sodium methoxide	0.13	Domestic market	Road ways	Bag
97		Acetic acid	0.13	Domestic	Road ways	Drum

				market		
98		Hydrogen	0.03	Domestic market	Road ways	Cylinder
99		Catalyst	0.01	Domestic market	Road ways	Bag
100	Dihydrom yr-cene	Alpha-Pinene	202.1	Self made/Import/ Domestic market	Road ways	Tank
101		Hydrogen	2.96	Domestic market	Road ways	Tank
102		Catalyst	0.13	Domestic market	Road ways	Drum
103	Sandal fleur & derivative	A-Campholenic aldehyde	22.72	Self made/Import/ Domestic market	Road ways	Drum
104		Butyraldehyde	15.76	Import/ Domestic market	Road ways	Drum
105		Cyclohexane	0.99	Domestic market	Road ways	Drum
106		Catalyst A	2.98	Domestic market	Road ways	Bag
107		Acetic acid	5.42	Domestic market	Road ways	Drum
108		30 % HCl	2.39	Domestic market	Road ways	Drum
109		Soda ash	0.33	Domestic market	Road ways	Bag
110		Sodium borohydride	1.51	Import/ Domestic market	Road ways	Bag
111		Sodium hydroxide	0.19	Domestic market	Road ways	Bag
112		Methanol	2.65	Domestic market	Road ways	Tank
113	Sandal Touch	A-Campholenic aldehyde	6.70	Self made/Import/ Domestic market	Road ways	Drum
114		MEK	2.11	Import/ Domestic market	Road ways	Tank
115		Methanol	1.13	Domestic market	Road ways	Tank
116		Soda ash	0.07	Domestic market	Road ways	Bag
117		Salt	0.34	Domestic market	Road ways	Bag
118		Acetic acid	1.61	Domestic	Road ways	Drum

				market		
119		Potassium Hydroxide	1.34	Domestic market	Road ways	Bag
120		2-butanol	0.20	Self made/ Domestic market	Road ways	Drum
121		Copper chromite	0.20	Import/ Domestic market	Road ways	Bag
122		Hydrogen	0.16	Domestic market	Road ways	Tank
123	Citral extra pure	Citral	30.03	Import/ Domestic market	Road ways	Tank
124	Citronellal	Citral	27.59	Import/ Domestic market	Road ways	Tank
125		Catalyst	0.22	Domestic market	Road ways	Bag
126		Hydrogen	0.47	Domestic market	Road ways	Cyclinder
127		Methanol	0.19	Domestic market	Road ways	Tank
128		soda ash	0.03	Domestic market	Road ways	Bag
129	Cyclocitral (A& B mixture)	Citral	3.39	Import/ Domestic market	Road ways	Tank
130		Aniline	0.61	Domestic market	Road ways	Tank
131		Cyclohexane	15.76	Domestic market	Road ways	Drum
132		Sulphuric acid	11.9	Domestic market	Road ways	Drum/Tank
134		soda ash	0.5	Domestic market	Road ways	Bag
135		Liq Ammonia	17.5	Domestic market	Road ways	Tank
136	Isocitronell-ylene & Isomer	DHMOL tops	15.46	Self made	Road ways	Tank
137		DHM tops	13.95	Self made	Road ways	Tank
138		DHM bottom mass	24.45	Self made	Road ways	Drum
139	Citronellyl nitrile	Citral	39.13	Import/ Domestic market	Road ways	Tank
140		Hydroxyl amine sulphate	22.83	Domestic market	Road ways	Bag
141		Soda ash	22.83	Domestic market	Road ways	Bag

142		Sodium chloride	1.47	Domestic market	Road ways	Bag
143		Caustic Soda	0.65	Domestic market	Road ways	Bag
144		White oil	2.77	Domestic market	Road ways	Drum
145	A-Pinene from CST & B-Pinene from CST & Limonene from CST & Mixed terpenes or DDTO/Carene 60/90/98 terpene biofuel	Crude Sulphate turpentine (CST Crude)	3050.78	Domestic market	Road ways	Tank
146		Lime	98.79	Domestic market	Road ways	Bag
147		Sodium hydroxide	111.12	Domestic market	Road ways	Bag
148		Silica	2.2	Domestic market	Road ways	Bag
149		Charcoal	2.2	Domestic market	Road ways	Bag
150		Hydrogen peroxide	67.18	Domestic market	Road ways	Carbouy / Tank
151		Caustic solution	5.55	Domestic market	Road ways	Tank
152		Nitrogen	320 M^3	Domestic market	Road ways	Cyclinder/ Tank
153	A-Pinene & B-Pinene	Gum turpentine crude	1032.6	Import/ Domestic market	Road ways	Tank
154	Amberfleur	Myrcene	367.5	Self made/Import/ Domestic market	Road ways	Tank
155		MPO	269	Self made/ Domestic market	Road ways	Tank
156		Boron trifluoride etherate	23	Domestic market	Road ways	Drum
157		Sodium chloride (Salt)	3.9	Domestic market	Road ways	Bag
158		Antioxidant	0.8	Domestic market	Road ways	Bag
159		Toluene	115.9	Domestic market	Road ways	Tank
160		Phosphoric acid	42	Domestic market	Road ways	Tank
161		Caustic soda	4.5	Domestic market	Road ways	Bag
162	Methyl Ionone for Soap	NMI crude	5.0	Self made/ Domestic market	Road ways	Drum

163	Violetone core	GMI crude	40.0	Self made/ Domestic market	Road ways	Drum
164	Timber touch or Timber Forte	Citral	5.76	Import/ Domestic market	Road ways	Tank
165		MPK	14.40	Import/ Domestic market	Road ways	Drum
166		Barium hydroxide	0.69	Import/ Domestic market	Road ways	Bag
167		Acetic acid	0.2	Domestic market	Road ways	Drum
168		Salt	0.1	Domestic market	Road ways	Bag
169		Orthophospho ric acid	2.27	Domestic market	Road ways	Tank
170		Toluene	3.60	Domestic market	Road ways	Tank
171		Soda ash	0.08	Domestic market	Road ways	Bag
172		Hydrogen	0.17	Self made/ Domestic market	Road ways	Cyclider
173		Catalyst	0.04	Import/ Domestic market	Road ways	Box

List of Products & By-products

No	Product	Category	Existing Qty MTPM	Proposed Qty MTPM	Total Qty MTPM
01	Isobornyl cyclohexanol (IBCH)	Aroma chemical	1.0	50.0	51.0
02	L-Carvone	Aroma chemical	-	50.0	50.0
03	Orange oil folds	Aroma chemical	-	12.0	12.0
04	D-Limonene	Aroma chemical	-	125.0	125.0
05	Myrcene	Aroma chemical	-	400.0	400.0
06	Alpha-Campholenic aldehyde	Aroma chemical	-	50.0	50.0
07	Floreol	Aroma chemical	-	80.0	80.0
08	D-Carvone	Aroma chemical	-	5.0	5.0
09	Dihydrocarvone	Aroma chemical	-	5.0	5.0
10	Carvomenthone	Aroma	-	5.0	5.0

		chemical			
11	Nimberol	Aroma chemical	-	1.0	1.0
12	Dihydromyrcene	Aroma chemical	-	150.0	150.0
13	Sandal fleur & derivatives	Aroma chemical	-	20.0	20.0
14	Sandal touch	Aroma chemical	-	5.0	5.0
15	Citral extra pure	Aroma chemical	-	30.0	30.0
16	Citronellal	Aroma chemical	-	20.0	20.0
17	Cyclocitral (Alpha & Beta mixture)	Aroma chemical	-	2.0	2.0
18	Isocitronellene & Isomer	Aroma chemical	-	30.0	30.0
19	Citronellyl nitrile	Aroma chemical	-	30.0	30.0
20	A-Pinene from CST	Aroma chemical	666.66	945.0	1611.66
21	B-Pinene from CST	Aroma chemical	216.66	288.2	504.86
22	Limonene from CST	Aroma chemical	83.33	-42.01	41.32
23	Mixed Terpenes/Terpene biofuel from CST or	Aroma chemical	-	744.0	744.0
	DDTO/Carene varities 60,90,98/ Terpene bio fuel	Aroma chemical	-	679.15	679.15
24	A-Pinene from GTO	Aroma chemical	-	537.0	537.0
25	B-Pinene from GTO	Aroma chemical	-	334.0	334.0
26	Amberfleur	Aroma chemical	-	400.0	400.0
27	MI for soap	Aroma chemical	-	1.0	1.0
28	Violetone Coeur	Aroma chemical	-	2.0	2.0
29	Timber Touch/Timber forte	Aroma chemical	2.0	3.0	5.0
1	Electricity Generation	--	--	4 MW	4 MW
2	Recovery of Concentrated Sulphuric acid				
Esters					
	Para Tertiary Butyl Cyclo Hexyl Acetate/PTBCH	Aroma chemical	297.0	-	297.0
	Ortho Tertiary Butyl Cyclo Hexyl Acetate	Aroma chemical			
	Styrallyl Acetate (SA)	Aroma chemical			

	Terpinyl Acetate (TA)	Aroma chemical			
	Citronellyl Acetate (COLA)	Aroma chemical			
	Geranyl Acetate(GOLA)	Aroma chemical			
	Dimethyl Octonol A	Aroma chemical			
	Nerol A	Aroma chemical			
	ISO Boronyl Acetate	Aroma chemical			
	Longifolene Acetate	Aroma chemical			
Alcohols					
	Citronellol (Col)	Aroma chemical	445.0	-	445.0
	Geraniol (Gol)	Aroma chemical			
	Damascone (DMO)	Aroma chemical			
	Nerol	Aroma chemical			
	Terpineol	Aroma chemical			
	Dihydromyrcenol	Aroma chemical			
	Rose Oxide	Aroma chemical	3.0	-	3.0
	Nitriles – Geranyl Nitrile/Citronellyl Nitrile	Aroma chemical	10.0	-	10.0
	Ionones - GMI,NMI,AI,BI-Gammanolene	Aroma chemical	50.0	-	50.0
	Geraniol Formate	Aroma chemical	05.0	-	05.0
	Citronellol Formate	Aroma chemical	05.0	-	05.0
	Camphene	Aroma chemical	01.0	-	01.0
	ISO Longifoline Ketone	Aroma chemical	01.0	-	01.0
	Prionyl	Aroma chemical	01.0	-	01.0
	Rosaxanol	Aroma chemical	10.0	-	10.0
	Muganol	Aroma chemical	6.0	-	6.0
	Polysantol (Super Sandal Core)	Aroma chemical	2.0	-	2.0
	Hydrogen		15.0	-	15.0
			1805.65	4961.34	6766.99

By-Products

Sl.No.	Products	By-Products	Proposed Quantity (MT/M)	Utilization
1.	Isobornyl Cyclohexanol	Aqueous fluoroboric acid (Fluoboric acid)	43.34	Sale to PCB registered party
2.		Recovered Toluene	128.3	Reuse or Sale to PCB registered party
3.		Recovered catalyst	3.9	Reuse or Sale to PCB registered party
4.		Recovered IPA	22.1	Reuse or Sale to PCB registered
5.		Recovered Methanol	5.0	Reuse or Sale to PCB registered
6.		Column tops	34.9	Sale to PCB registered party
7.		Column bottom mass	41.9	Sale to PCB registered party
8.	L-Carvone	Recovered cyclohexane	30.0	Reuse or Sale to PCB registered party
9.		Recovered D-Limonene	20.6	Reuse or Sale to PCB
10.		Spent Aq Layer (Aluminium Sulphate +IPA)	94.6	Reuse or Sale to PCB registered party
11.		MEK+Butanol recovered	133.0	Separate mixture and Reuse or Sale to PCB registered party
12.		Column tops	20.1	Sale to PCB registered party
13.		Column bottom mass	22.8	Sale to PCB registered party
14		2-Butanol (Separated from MEK + Butanol mixture)	29.0	Reuse or Sale to PCB registered party
15	Floreol	Recovered EDC	22.73	Reuse or Sale to PCB registered Party
16		DHP	28.05	Reuse or Sale to PCB registered Party
17		Column Tops	8.64	Reuse or Sale to PCB registered Party
18		Column Bottom mass	7.45	Reuse or Sale to PCB registered Party
19	A-Campholenic Aldehyde	Recovered Toluene	110.3	Reuse or Sale to PCB registered party
20		Column tops	4.2	Sale to PCB registered party
21.		Column bottom mass	19.7	Sale to PCB registered

				party
22.		Zinc bromide solution (16-20%)	8.2	Sale to PCB registered party
23.		Sodium Sulphate decahydrate	25.5	Sale to PCB registered party
24	D-Carvone	Recovered cyclohexane	3.0	Reuse or Sale to PCB registered party
25		Recovered L-Limonene	2.1	Reuse or Sale to PCB registered party
26		Spent Aq.layer (Aluminium sulphate +IPA)	9.5	Reuse or Sale to PCB registered party
27		MEK+Butanol rec	13.3	Separate mixture and Reuse or Sale to PCB registered party
28		Column tops	2.0	Sale to PCB registered party
29		Column bottom mass	3.1	Sale to PCB registered party
30		2-Butanol (recovered from MEK+Butanol mixture)	2.9	Reuse or Sale to PCB registered party
31	Dihydrocarvone	Recovered cyclohexane	2.5	Reuse or Sale to PCB registered party
32		Recovered EDC	17.4	Reuse or Sale to PCB registered party
33		Column Tops	1.3	Reuse or Sale to PCB registered party
34		Column Bottom mass	2.9	Separate mixture and Reuse or Sale to PCB registered party
35	Carvomenthone	Catalyst recovered	0.05	Reuse or Sale to PCB registered party
36		IPA recovered	5.19	Reuse or Sale to PCB registered party
37		Recovered cyclohexane	13.88	Reuse or Sale to PCB registered party
38		Column Tops	4.14	Sale to PCB registered party
39		Column Bottom mass	2.69	Sale to PCB registered party
40	Myrcene	Column Bottom mass	1.80	Reuse or Sale to PCB registered party
41	Nimberol	Spent Acetic acid	3.85	Sale to PCB registered party
42		Recovered Toluene	3.44	Reuse / Sale to PCB registered party
43		Spent acid layer solution	0.48	Reuse or Sale to PCB registered party
44		Acetic acid solution (50-60%)	3.79	Sale to PCB registered party

45		Recovered MPK	2.51	Reuse or Sale to PCB registered party
46		recovered catalyst	0.01	Sale to PCB registered party
47		Column Tops	0.61	Sale to PCB registered party
48		Column bottom mass	0.48	Sale to PCB registered party
49	Dihydromyrcene	Column Tops	19.5	Reuse / Sale to PCB registered party
50		Column Bottom mass	32.3	Reuse / Sale to PCB registered party
51	Sandal fleur & derivatives	Recovered Cyclohexane	28.8	Reuse / Sale to PCB registered party
52		Recovered methanol	43.0	Reuse / Sale to PCB registered party
53		Sodium acetate	5.0	Sale to PCB registered party
54		Sodium Borate solution	15.0	Sale to PCB registered party
55		Column Tops	11.3	Sale to PCB registered party
56		Column Bottom mass	4.7	Sale to PCB registered party
57	Sandal Touch	Recovered MEK÷Methanol	45.7	Reuse / Sale to PCB registered party
58		Potassium acetate Solution	6.5	Sale to PCB registered party
59		Recovered Catalyst	0.2	Reuse / Sale to PCB registered party
60		Column Tops	2.2	Sale to PCB registered party
61		Column Bottom mass	1.4	Sale to PCB registered party
62		Recovered 2 -butanol	3.4	Reuse / Sale to PCB registered party
63	Citronellal	Column Tops	5.9	Reuse / Sale to PCB registered party
64		Column bottom mass	1.8	Sale to PCB registered party
65		Recovered catalyst	0.22	Sale to PCB registered party
66	Cyclocitral (A&B Mixture)	Aniline recovered	2.0	Reuse / Sale to PCB registered party
67		Recovered cyclohexane	30.6	Reuse / Sale to PCB registered party
68		Ammonium sulphate solution (30-35 %)	47.3	Sale to PCB registered party
69		Column Tops	0.5	Sale to PCB registered party
70		Column bottom mass	0.9	Sale to PCB registered

				party
71	Isocitronellene & Isomer	Column Tops	1.77	Sale to PCB registered party
72		Column bottom mass	1.24	Sale toMPCB registered party
73	Citronellyl nitrile	Ammonium Sulphate Solution/Sodium sulphate solution	87.5	Sale to PCB registered party
74		Column Tops	1.3	Sale to PCB registered party
75		Column bottom mass	1.6	Sale to PCB registered party
76		White oil residue	8.1	Sale to PCB registered party
77	A-Pinene from CST &B-Pinene from CST & Limonene from CST & Mixed terpenes from CST OR DDTO/Carene 60/ 90/98 Terpene bio fuel	Calcium Sulphate OR	181.56	Sale to PCB registered party
78		Sodium Sulphate OR	189.57	Sale to PCB registered party
79		CST DMS/DMDS/Mixed sulphurs compounds OR	85.44	Sale to PCB registered party
80		Sodium Sulphide & Sodium Hydrogen sulphide solution	250.8	Sale to PCB registered party
81		Heavy Fractions	105.93	Sale to PCB registered party
82		Zinc Chloride solution	336.43	Sale to PCB registered party
83	A-Pinene & B-Pinene (From GTO)	Dipnetene / Terpene bio fuel	95.0	Reuse or Sale to PCB registered party
84		Pine tar	51.0	Sale to PCB registered party
85	Amberfleur	Aqueous fluoroboric acid (Fluoboric acid)	109.34	Sale to PCB registered party
86		Spent Phosphoric acid Layer/Sodium Phosphate	42.29	Sale to PCB registered party
87		Recovered Toluene	111.51	Reuse or Sale to PCB registered party
88		Column Tops	128.68	Sale to PCB registered party
89		Column Bottom mass	86.5	Sale to PCB registered party
90	MI for Soap	Column Tops	0.31	Sale to PCB registered party
91		Column bottom mass	0.34	Sale to PCB registered party
92	Violetone couer	Column Tops	1.20	Sale to PCB registered party

93		Column bottom mass	2.32	Sale to PCB registered party
94	Timber touch/Timber forte	Recovered MPK	11.04	Reuse/Sale to PCB registered party
95		Spent Phosphoric acid	2.32	Reuse/Sale to PCB registered party
96		Barium hydroxide	1.0	Reuse/Sale to PCB registered party
97		Recovered Toluene	3.43	Reuse/Sale to PCB registered party
98		Column tops	1.51	Sale to PCB registered party
99		Column bottom mass	1.64	Sale to PCB registered party
100		Recovered Catalyst	0.04	Sale to PCB registered party

S.No.	By-Products	Existing (MT/M)	Proposed (MT/M)	Utilization
1	Spent Phosphoric Acid Product- Ionones	2.0	38.2	Sale to PCB registered party
2.	Tops and bottom Product- Di hydro myrcenol	12.0	17.0	Sale to PCB registered party
3.	Tops and residue Products- A. Ionone B.Di hydro myrcenol C. Para Tertiary Butyl Cyclo Hexyl Acetate(PTBCHA) D.Ortho Tertiary Butyl Cyclo Hexyl Acetate(OTBCHA) E. Terpinyl Acetate F.Citronellol G.Geraniol H. Geranyl Acetate I. Citronellyl Acetate J.Timber Touch	10.0	147.3	Sale to PCB registered party
4.	ISO Longifolene product –Longifolene Ketone	3.0	41.3	Sale to PCB registered party
5.	Spent Sulphuric Acid product – Dihydromyrcenol	100.0	100.0	Sale to PCB registered party
6.	Calcium Sulphate Products- A. Alpha Pinene, B. Beta Pinene, C. Limonene	75.0	0.0	Sale to PCB registered party
7.	Heavy Fractions products – A. Alpha Pinene B. Beta Pinene C. Limonene	116.66	116.66	Sale to PCB registered party

7.	Heavy Fractions products – A. Alpha Pinene B. Beta Pinene C. Limonene	116.66	116.66	Sale to PCB registered party
8.	Spent Chromium Sulphate product – Damascone	0.0	75.0	Sale to PCB registered party
9.	Potassium Sulphate product – Damascone	0.0	20.0	Sale to PCB registered party
10	MgCl2/Mg(OH)Cl/Mg SO4 solution	0.0	90	Sale to PCB registered party
11.	20%-30 % Ammonium Sulphate product – Damascone	0.0	165.0	Sale to PCB registered party
12.	Potassium Acetate product – GPMI	0.0	16.0	Sale to PCB registered party
13	spent acetic Acid product – A. PTBCHA B. OTBCHA	0.0	200.0	Sale to PCB registered party
14	Sodium Acetate product – A. PTBCHA B. OTBCHA C. Geranyl Acetate D. Citronellyl Acetate E. Terpinyl Acetate F. Isobornyl acetate	0.0	50.0	Sale to PCB registered party

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

Consent order No :- Formate 1.0/BO/CAC-Cell/UAN No 19444 /4th CAC/ 1711000858
Date- 24/11/2017

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

Subject: Consent to 1st Operate (remaining) for expansion and renewal of existing consent under RED category.

Ref : 1. Existing consent granted vide no *Formate 1.0/BO/CAC-Cell/EICNoRD-3160-15 /11th CAC/2633* dated 23.02.2016 which is valid upto 28.02.2017.
2. Consent to establish granted vide no Format 1.0/BO/CAC-Cell/EIC No RD-2728-14/8th CAC-6672 dated 16.07.2014.
3. Your application approved in CAC meeting held on 23.08.2017.

Your application:19444
Dated: 16.01.2017
For: Consent to 1st Operate (remaining) for expansion and renewal of existing consent
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) 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 from date of issue of consent from 01.03.2017 upto 28.02.2022.
2. The actual capital investment of the industry is Rs.252.88 Crs. (As per C.A.Certificate submitted by the Industry)

3. The Consent is valid for the manufacture of –

Sr. No.	Product Name	Maximum Quantity
1	Isobornyl cyclohexanol (IBCH)	51.0 MT/M
2	L-Carvone/Carvacrol	50.0 MT/M
3	Orange oil folds	12.0 MT/M
4	D-Limonene	125.0 MT/M
5	Myrcene	400.0 MT/M
6	Alpha-Campholenic aldehyde	50.0 MT/M
7	Floreol	80.0 MT/M
8	D-Carvone	5.0 MT/M
9	Dihydrocarvone	5.0 MT/M
10	Carvomenthone/Menthone	5.0 MT/M
11	Nimberol	1.0 MT/M

12	Dihydromyrcene	150.0 MT/M
13	Sandal fleur & derivatives	20.0 MT/M
14	Sandal touch	5.0 MT/M
15	Citral extra pure	30.0 MT/M
16	Citronellal	20.0 MT/M
17	Cyclocitral (Alpha & Beta mixture)	2.0 MT/M
18	Isocitronellene & Isomer	30.0 MT/M
19	Citronellyl nitrile	30.0 MT/M
20	A-Pinene from CST	1611.66 MT/M
21	B-Pinene from CST	504.86 MT/M
22	Limonene from CST	41.32 MT/M
23	Mixed Terpenes/Terpene biofuel from CST or DDTO/Carene varities 60,90,98/ Terpene bio fuel	774 MT/M 679.15 MT/M
24	A-Pinene from GTO	537 MT/M
25	B-Pinene from GTO	334 MT/M
26	Amberfleur	400.0 MT/M
27	MI for soap	1.0MT/M
28	Violetone Coeur	2.0 MT/M
29	Timber Touch/Timber forte	5.0 MT/M
1	Electricity Generation	4 MW
2	Recovery of Concentrated Sulphuric acid	48 TPD
30	Esters -Para Tertiary Butyl Cyclo Hexyl Acetate/PTBCH, Ortho Tertiary Butyl Cyclo Hexyl Acetate, Styrallyl Acetate (SA), Terpinyl Acetate (TA), Citronellyl Acetate (COLA), Geranyl Acetate(GOLA), Dimethyl Octonol A, Nerol A, ISO Boronyl Acetate, Longifolene Acetate	297.0 MT/M
31	Alcohols - Citronellol (Col), Geraniol (Gol), Damascone (DMO), THMOL,Nerol, Terpineol, Dihydromyrcenol	445.0 MT/M
32	Rose Oxide	3.0 MT/M
33	Nitriles – Geranyl Nitrile/Citronellyl Nitrile	10.0 MT/M
34	Lonones-GMI,NMI,AI,BI-Gammanolene	50.0 MT/M
35	Geraniol Formate	5.0 MT/M
36	Citronellol Formate	5.0 MT/M
37	Camphene	1.0 MT/M
38	ISO Longifoline Ketone	1.0 MT/M
39	Rosaxanol	10.0 MT/M
40	Evernyl or Prionyl	10.0 MT/M
41	Muganol	6.0 MT/M
42	Polysantol (Super Sandal Core)	2.0MT/M
43	Hydrogen	15.0 MT/M

Byproducts:

Sl.No	Products	By-Products	Maximum Quantity (MT/M)
1.0	Isobornyl Cyclohexanol	Aqueous fluoroboric acid (Fluoboric acid)	43.34
2.0		Recovered Toluene	128.3
3.0		Recovered catalyst	3.9
4.0		Recovered IPA	22.1
5.0		Recovered Methanol	5.0
6.0		Column tops	34.9
7.0		Column bottom mass	41.9
8.0	L-Carvone/Carvacrol	Recovered cyclohexane	30.0
9.0		Recovered D-Limonene	20.6
10.		Spent Aq Layer (Aluminium Sulphate +IPA)	94.6
11.0		MEK+Butanol recovered	133.0
12.0		Column tops	20.1
13.0		Column bottom mass	22.8
14.0		2-Butanol (Separated from MEK + Butanol mixture)	29.0
15	Floreol	Recovered EDC	22.73
16		DHP	28.05
17		Column Tops	8.64
18		Column Bottom mass	7.45
19	A-Campholenic Aldehyde	Recovered Toluene	110.3
20		Column tops	4.2
21.		Column bottom mass	19.7
22.		Zinc bromide solution (16-20%)	8.2
23.		Sodium Sulphate decahydrate	25.5
24	D-Carvone	Recovered cyclohexane	3.0
25		Recovered L-Limonene	2.1
26		Spent Aq.layer (Aluminium sulphate +IPA)	9.5
27		MEK+Butanol rec	13.3
28		Column tops	2.0
29		Column bottom mass	3.1
30		2-Butanol (recovered from MEK+Butanol mixture)	2.9
31	Dihydrocarvone	Recovered cyclohexane	2.5
32		Recovered EDC	17.4
33		Column Tops	1.3
34		Column Bottom mass	2.9
35	Carvomenthone /Menthone	Catalyst recovered	0.05
36		IPA recovered	5.19
37		Recovered cyclohexane	13.88
38		Column Tops	4.14
39		Column Bottom mass	2.69
40	Myrcene	Column Bottom mass	1.80
41	Nimberol	Spent Acetic acid	3.85
42		Recovered Toluene	3.44
43		Spent acid layer solution	0.48
44		Acetic acid solution (50-60%)	3.79

45		Recovered MPK	2.51
46		Recovered catalyst	0.01
47		Column Tops	0.61
48		Column bottom mass	0.48
49	Dihydromyrcene	Column Tops	19.5
50		Column Bottom mass	32.3
51	Sandal fleur & derivatives	Recovered Cyclohexane	28.8
52		Recovered methanol	43.0
53		Sodium acetate	5.0
54		Sodium Borate solution	15.0
55		Column Tops	11.3
56		Column Bottom mass	4.7
57	Sandal Touch	Recovered MEK+Methanol	45.7
58		Potassium acetate Solution	6.5
59		Recovered Catalyst	0.2
60		Column Tops	2.2
61		Column Bottom mass	1.4
62		Recovered 2 -butanol	3.4
63	Citronellal	Column Tops	5.9
64		Column bottom mass	1.8
65		Recovered catalyst	0.22
66	Cyclocitral (A&B Mixture)	Aniline recovered	2.0
67		Recovered cyclohexane	30.6
68		Ammonium sulphate solution (30-35 %)	47.3
69		Column Tops	0.5
70		Column bottom mass	0.9
71	Isocitronellene & Isomer	Column Tops	1.77
72		Column bottom mass	1.24
73	Citronellyl nitrile	Ammonium Sulphate Solution/Sodium sulphate solution	87.5
74		Column Tops	1.3
75		Column bottom mass	1.6
76		White oil residue	8.1

77	A-Pinene from CST &B-Pinene from CST & Limonene from CST & Mixed terpenes from CST OR DDTO/Carene 60/ 90/98 Terpene bio fuel	Calcium Sulphate OR	181.56
78		Sodium Sulphate OR	189.57
79		CST DMS/DMDS/MSM/Mixed sulphurs compounds OR	85.44
80		Sodium Sulphide /SMM/& Sodium Hydrogen sulphide solution	250.8
81		Heavy Fractions	105.93
82		Zinc Chloride solution	336.43
83	A-Pinene & B-Pinene (From GTO)	Dipnetene / Terpene bio fuel	95.0
84		Pine tar	51.0
85	Amberfleur	Aqueous fluoroboric acid (Fluoboric acid)	109.34
86		Spent Phosphoric acid Layer/Sodium Phosphate	42.29
87		Recovered Toluene	111.51
88		Column Tops	128.68
89		Column Bottom mass	86.5
90	MI for Soap	Column Tops	0.31
91		Column bottom mass	0.34
92	Violetone couer	Column Tops	1.20
93		Column bottom mass	2.32
94	Timber touch/Timber forte	Recovered MPK	11.04
95		Spent Phosphoric acid	2.32
96		Barium hydroxide	1.0
97		Recovered Toluene	3.43
98		Column tops	1.51
99		Column bottom mass	1.64
100		Recovered Catalyst	0.04

101	Spent Phosphoric Acid Product- Ionones	38.2
102	Tops and bottom Product- Di hydro myrcenol	17.0

103	Tops and residue Products- A. Ionone B.Di hydro myrcenol C. Para Tertiary Butyl Cyclo Hexyl Acetate(PTBCHA) /PTBCH D.Ortho Tertiary Butyl Cyclo Hexyl Acetate(OTBCHA) E. Terpinyl Acetate F.Citronellol G.Geraniol H. Geranyl Acetate I. Citronellyl Acetate J.Timber Touch	147.3
104.	ISO Longifolene product –Longifolene Ketone	41.3
105.	Spent Sulphuric Acid product – Dihydromyrcenol	100.0
106.	Heavy Fractions products – A. Alpha Pinene B. Beta Pinene C. Limonene	116.66
107.	Spent Chromium Sulphate product – Damascone	75.0
108.	Potassium Sulphate product – Damascone	20.0
109.	Magnesium Chloride ($MgCl_2$)/Magnesium Hydroxide/Chloride (Mg(OH)Cl)/Magnesium Sulphate (Mg SO4) solution	90
110.	20%-30 % Ammonium Sulphate product – Damascone	165.0
111.	Potassium Acetate product – GPMI	16.0
112.	spent acetic Acid product – A. PTBCHA B. OTBCHA	200.0
113.	Sodium Acetate product – A. PTBCHA B. OTBCHA C. Geranyl Acetate D. Citronellyl Acetate E. Terpinyl Acetate F. Isobornyl acetate	50.0

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	160	As per Schedule –I	Out of 160 CMD of trade effluent, 55 CMD from the CST plant is directly recycled back in the process. Effluent of 105 CMD of effluent goes to ETP & 35 CMD Domestic effluent to STP. Out of total 140 CMD effluent (domestic + trade), 42 CMD goes to RO for recycling & and remaining 98 CMD is discharged to CETP.
2.	Domestic effluent	35	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 (5 nos)	3 Nos.	As per Schedule -II
2.	DG sets (750 KVA, 1000 KVA, 380 KVA,625KVA & 125KVA)	5 Nos	As per Schedule -II
3.	Incinerator	1 No	As per Schedule -II
4.	TFH	1 No	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1.0	Boiler ash	288 MT/M	---	Sale to brick Mfg/Land filling
2.0	Insulation	0.3MT/M	---	Sale to auth. party
3.0	MS Scrap	15MT/M	---	Sale to auth. party
4.0	Thermopack ash	5.5MT/M	---	Sale to brick Mfg/Land filling
5.0	Canteen	1.055 MT/M	---	Sent to vermiculture
6.0	Paper, wood waste,Plastic etc.	0.9MT/M	---	Sale to auth. party

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

Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
1	ETP Sludge	34.3	40	MT/M	--	CHWTSDF
2	Spent oil	5.1	0.5	MT/M	--	Sale to Auth.Party
3	Discarded Barrels/ Drums		201.0	Nos/M	--	Sale to Auth.Party
	IBCs		25.0	Nos/M	--	Sale to Auth.Party
	Carboys		50.0	Nos/M	--	Sale to Auth.Party
4	Sludge from MEE	36.1	47.4	MT/M	--	Sale/CHWTSDF
5	Lead acid batteries	Batteries rule 2002	30.0	Nos/M	--	Sale to Auth.Party
6	Discarded Asbestos	15.2	8.3	Kg/M	--	Sale to Auth.Party
7	Spent Catalyst	35.2	0.5	MT/M	--	Sale to Auth.Party
8	Waste residue containing oil (oil soaked gaskets and cotton waste)	5.2	150	Kg/M	--	Sale to Auth.Party
9	E-Waste	E-Waste rules, 2011	57	Kg/M	--	Sale to Auth.Party
10	Carbon/Charcoal	35.3	2.2	MT/M	--	Sale to Auth.Party
11	Silica		2.2	MT/M	--	Sale to Auth.Party
12	Resin		0.1	MT/M	--	Sale to Auth.Party

8. **The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.**
9. **This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.**
10. **The applicant shall comply with the conditions stipulated in Environmental Clearance granted by GoM vide No. SEAC-2012/CR-43/TC-2 dtd 08.10.2015.**
11. **Industry, the byproduct generator, should ensure that all the vehicles used to transport by-product 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.**
12. **Industry shall obtain affidavit from vendors stating that the by-product purchased from PP is used as raw materials in their respective industries.**

13. **Industry shall install flow meter to monitor the quantity of treated water recycled back in the process/utilizes and flow meter to the outlet of ETP to monitor the discharge to CETP.**
14. **Industry shall install online monitoring system to monitor the parameters such as COD, BOD,SS, pH and also install online flow meter within 3 months period.**

For and on behalf of the
Maharashtra Pollution Control Board

(Dr. P. Anbalagan, IAS)
Member Secretary

Received Consent fee of –

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	The balance fees of Rs 3,00,000/- as per the consent no ***Formate 1.0/BO/CAC-Cell/EICNoRD-3160-15 /11th CAC/2633*** **dated 23.02.2016** is considered at the time of this renewal of consent.			
2	918869	TXN1710001414	23-10-2017	
3	1517311	0194721	31.01.2017	State Bank Of India

Copy to:

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

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

1) A] As per your application, you have provided the Effluent Treatment Plant (ETP) with the design capacity of 160 CMD with RO of 300 CMD & MEE of 72 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 (If any)
		Limiting Concentration in mg/l, except for pH
01	pH	5.5-9.0
02	Oil & Grease	10
03	BOD (3 days 27°C)	100
04	Total Dissolved Solids	2100
05	Bioassay Test	90% survival of fish after first 96 hrs in 100% effluent
06	Phenolics (C6H5OH)	1.0
07	Phosphate(as P)	5.0
08	Suspended Solids	100
09	COD	250
10	Chloride	600
11	Sulphate	1000
12	TAN	50

C) Out of 140 CMD of treated effluent (domestic & trade), 42 CMD goes to RO for recycling and remaining 98 CMD shall be discharged to the CETP. RO permeate of 35.8 CMD is used on land for gardening and in utilities. The RO reject of 6.2 CMD goes to MEE of 72 CMD. In no case, trade effluent should find its way to local nalla.

2) A.] As per your consent application, you have provided STP of capacity 40 CMD. The treated sewage is mixed with treated trade effluent before going to RO.

B] In case the treatment system is combined for trade effluent and sewage then the standards and disposal path prescribed at sr. no.1 B & C of schedule I shall be applicable.

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 and 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) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said act.

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	686.2
2.	Domestic purpose	49
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	192
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0

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 provided 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 II (6 TPH)	Cyclone Separator	30	Coal	22.5 TPD	1.5	675
3	Boiler III (08 TPH)	Cyclone Separator	42	Coal	22.5 TPD	1.5	675
3	Boiler III (18 TPH)	Cyclone Separator	46	Coal	50 TPD	1.5	1500
4 5	Boiler 15 TPH Boiler I(6 TPH)	ESP Cyclone Separator		Coal FO/Biofuel	40 TPD 4200 lits/D/ 5.09 KLPD	1.5 2.5	1200 210
6	D.G.Set (750 & 1000 KVA)	Stack	12	HSD	60 & 80 Ltr/Hr	0.25	7.2
7	D.G.Set (625 & 125 KVA)	Stack	12	HSD	60 Ltr/Hr	0.25	9.6
8	D.G.Set (380 KVA)	Stack	12	HSD	45 Ltr/Hr	0.25	5.4
9	Incinerator	Scrubber	30	HSD	240 Ltr/Day	0.25	45*
10	Thermic Fluid Heater-1	Stack	30	FO/Biofuel	550 Ltrs/Day/ 0.81 KLD	2.5	27.5

***Incinerator is used for burning and oxidation of sulphur gas generated in Crude Sulphated Turpentine (CST) plant process.**

Industry has not installed 30TPH Coal fired Boiler and TFH as per the consent to establish granted on 16.07.2014.

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

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

Particulate matter	Not to exceed	150 mg/Nm^3.
HCL	Not to exceed	35 mg/Nm^3
NOx	Not to exceed	50 ppm
Acid mist	Not to exceed	35 ppm

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

Schedule-III
Details of Bank Guarantees

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to R	Rs 5 lakh	Submitted	O & M of Pollution Control System	28.02.2022	30.06.2022
2	C to R	Rs 2 lakh	Within 15 days from the date of issue of consent	Industry, the byproduct generator, should ensure that all the vehicles used to transport by-product 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. Industry shall obtain affidavit from vendors stating that the by-product purchased from PP is used as raw materials in their respective industries.	28.02.2022	30.06.2022

Schedule-IV

General Conditions:

1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
2) If the MIDC pipeline is broken/ overflowing chamber, in such cases industry shall not discharge their treated effluent into MIDC drain, it shall be sent to CETP by tanker.
3) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
4) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
5) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
6) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
7) The firm shall submit to this office, the 30th day of September every year , the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
8) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous & Other Waste (M & T) 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.
9) The industry should comply with the Hazardous & Other Waste (M & T) Rules, 2016 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazardous & Other Waste (M & T) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
10) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
11) **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.**
12) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act,1981 and Environmental Protection Act,1986 and industry specific standard under EP Rules 1986 which are available on MPCB website(www.mpcb.gov.in).
13) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
14) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.

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

16) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.

17) Conditions for D.G. Set

a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.

b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.

c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper sitting and control measures.

d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.

e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use

f) D.G. Set shall be operated only in case of power failure.

g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.

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

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

19) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.

20) The applicant shall maintain good housekeeping.

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

22) The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.

23) The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.

24) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.

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

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

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Annexure-A

Compliance Report

SEAC 2012/CR-43/TC-2 dated 08.10.2015	Reporting Date: 01.06.2020

Environmental clearance compliance Report for proposed aroma chemical manufacturing in Unit-II on plot No.:C-3,4,5,6,6/1,7,8,9,33/1 & X-9,10 & 11 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=59416 sq.mt. Area used= 57440 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. RM in Powder form was utilizing in very small quantity and hence there are no any fugitive emissions from process/there is no dust generation on roads
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 repot accordingly to MPCB.	The location and frequency of AAQ monitoring was decided in consultation with MPCB. AAQ Monitoring at 4 Nos. locations and frequency of monitoring is twice in a week 1. Near CST gate 2. Near Minar Gate 3. Near main gate 4. U-IV main gate Avg. Concentration in Month of March 2020- PM2.5 – 31.10 µg/m3 As Per NAAQS -2009 limit = 60 µg/m3 PM10 – 69.78 µg/m3 As Per NAAQS -2009 limit =100 µg/m3 SO2- 18.37 µg/m3 As Per NAAQS -2009 Limit 80 µg/m3 Work Zone monitoring at 8 locations and frequency of monitoring is once in a six month; 1) Pilot Plant 2) BSR/Blending 3) Incinerator plant 4) Damascone plant 5) Sustainability plant 6) Sustainability plant Ground floor, 7) DHMOL Plant, 8) R& D KG Lab
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 monitored. Refer

<table>
<tr><td></td><td></td><td>Annexure –I for daily check list.</td></tr>
<tr><td>VI.</td><td>In event of the failure of any 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.</td><td>Preventive maintenance of Pollution Control system (ETP, STP, ESP, Incineration, DG set-acoustic enclosure) conducting on quarterly basis, Calibration of measurement devices/equipment conducting once in a six month. Interlocks provided to incinerator plant. Power Backup provision made for PCS by DG power. Daily monitoring efficiency of PCS. Preventive Maintenance Schedule attached as Annexure. -II</td></tr>
<tr><td>VII.</td><td>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)</td><td>DG set stacks provided at height 12 Mtr as per MPCB Consent conditions and acoustic enclosure provided to control noise, enclosed MPCB consent. DG stacks monitored on quarterly. Average Concentration-
TPM- 61.01 mg/nm^3 Consent Limit- 150 mg/nm^3
SO2- 1.03 Kg/day Consent Limit-7.4 kg/day.</td></tr>
<tr><td>VIII.</td><td>A detailed scheme of rain water harvesting shall be prepared and implemented to recharge ground water.</td><td>0 M^3 as there is no Rain during Dec-19 to May-20.</td></tr>
<tr><td>IX.</td><td>Arrangement shall be made for effluent and storm water does not get mix.</td><td>Separate storm and effluent drainage are provided. No mixing of both drain at any place.</td></tr>
<tr><td>X.</td><td>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.</td><td>Water requirement is supplied by MIDC through Pipeline; there is no ground water abstracted.</td></tr>
<tr><td>XI.</td><td>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.</td><td>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 to use ear muff and plug to employee working in high noise area. Monitoring done Quarterly and observed average value 69.8 dB(A) day time and 67.6 dB(A) Night time in Feb-2020 Month.</td></tr>
<tr><td>XII.</td><td>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 standards prescribed under Environment (Protection) Act , 1986 Rules, 1989.</td><td>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 20 locations and observed average levels are 61.81 dBA night time, 65.53 dBA day time, which conform standards prescribed under Environment (Protection) Act , 1986 Rules, 1989.
<table>
<tr><th>Sr. No.</th><th>Test Location</th><th>Results</th><th>Unit</th></tr>
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<td></td>
<td>
<table>
<tr><th></th><th></th><th>Daytime</th><th>Night Time</th><th></th></tr>
<tr><td>01</td><td>Near Main Gate</td><td>57.4</td><td>55.4</td><td>dB(A)</td></tr>
<tr><td>02</td><td>Near ETP</td><td>65.4</td><td>56.4</td><td>dB(A)</td></tr>
<tr><td>03</td><td>Near Minar Gate</td><td>63.2</td><td>60.2</td><td>dB(A)</td></tr>
<tr><td>04</td><td>Near Material Gate</td><td>60.2</td><td>67.1</td><td>dB(A)</td></tr>
<tr><td>05</td><td>H.W. Area</td><td>60.1</td><td>58.1</td><td>dB(A)</td></tr>
<tr><td>06</td><td>Near Damascone Plant Entrance</td><td>65.4</td><td>60.1</td><td>dB(A)</td></tr>
<tr><td>07</td><td>Vira Gate</td><td>62.4</td><td>60.9</td><td>dB(A)</td></tr>
<tr><td>08</td><td>Chamundi Gate</td><td>64.4</td><td>62.4</td><td>dB(A)</td></tr>
<tr><td>09</td><td>CST East Side</td><td>60.1</td><td>56.4</td><td>dB(A)</td></tr>
<tr><td>10</td><td>Near CST Sprinkler</td><td>65.5</td><td>61.7</td><td>dB(A)</td></tr>
<tr><td>11</td><td>Near Work Shop</td><td>67.9</td><td>52.1</td><td>dB(A)</td></tr>
<tr><td>12</td><td>Near OHC</td><td>69.4</td><td>64.4</td><td>dB(A)</td></tr>
<tr><td>13</td><td>Near Production Office</td><td>62.8</td><td>60.1</td><td>dB(A)</td></tr>
<tr><td>14</td><td>Near Second Sprinkler</td><td>67.4</td><td>62.9</td><td>dB(A)</td></tr>
<tr><td>15</td><td>Near Main Gate</td><td>65.4</td><td>63.1</td><td>dB(A)</td></tr>
<tr><td>16</td><td>Near DM Plant</td><td>69.7</td><td>63.4</td><td>dB(A)</td></tr>
<tr><td>17</td><td>Coal Store</td><td>70.1</td><td>66.2</td><td>dB(A)</td></tr>
<tr><td>18</td><td>Crusher Area</td><td>71.6</td><td>70</td><td>dB(A)</td></tr>
<tr><td>19</td><td>Boiler East Side</td><td>72.4</td><td>67.7</td><td>dB(A)</td></tr>
<tr><td>20</td><td>Near DG</td><td>69.8</td><td>67.6</td><td>dB(A)</td></tr>
</table>
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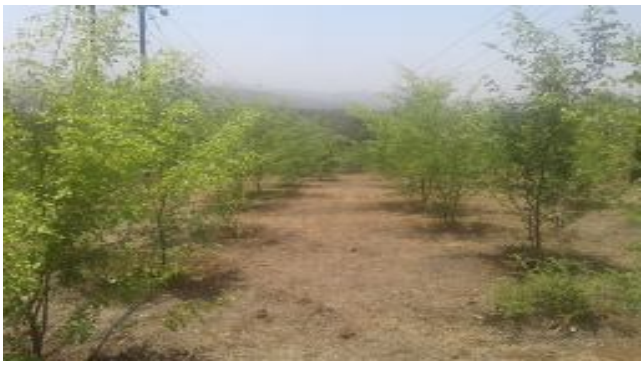
<tr>
<td>XIII.</td>
<td>Green belt shall be developed and maintain around the plant periphery. Green belt Development shall be carried out considering CPCB guideline including selection of plant species and consultation with local DFO/ Agriculture Dept.</td>
<td>Green belt developed in and around plot premises and plant species selected in consultation with Agriculture Dept.
• Green Belt developed Within Premises- 3821 sq. mtr. (10.33%)
• Green Belt developed outside plot within MIDC- 51577 sq. mtr. (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 detection shall also be installed at strategic place for early detection and warning.</td>
<td>We have provided certain safety measures as;
• All Electrical Fittings – FLP confirming to Class C
• Hydrogen & Hydrocarbon Gas Detectors provided at Cascade, trolley shed, CST storage tanks, MA Cylinder storage area etc. for early detection and warning.
• Operations are controlled through DCS- with inbuilt safety interlocks.
• Flame Detectors – installed near the</td>
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</table>

hydrogen vent, also Nitrogen & steam snuffing arrangement made near flame arrestor.

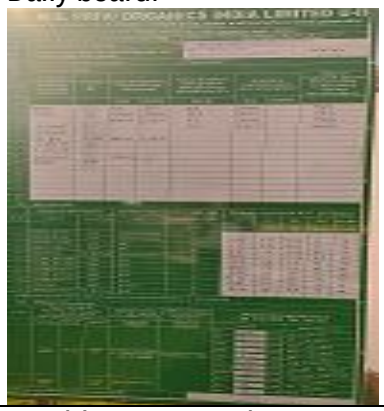
- Safety Relive valve, Rupture Disk, Breather Valve provided at respective tanks and reactors.
- Pressure Reducing stations – with periodical checks
- Manual Call Point provided at respective points.
- Smoke and heat detectors provided at MCC, PCC and chemical storage area for early detections and warning.

S.N.	Zone	Location	Smoke/Heat Detector No.
1.	2	UNIT-2 PCC ROOM	U2PCC JB
2.	2	UNIT-2 PCC 1	SD-U2PCC1
3.	2	UNIT-2 PCC 2	SD-U2PCC2
4.	2	UNIT-2 HT BREAKER SIEMENS	SD-BRK1 SIEMENS
5.	2	UNIT-2 HT ROOM RMU ABB	SD-BRK2 ABB
6.	2	CST MCC B TOP	SD-1101 CST MCC
7.	2	CST MCC C TOP	SD-1102 CST MCC
8.	2	CST 1st.FLOOR MCC	SD-1103 CST MCC
9.	2	DHMOL MCC1	SD-101 DHMOL MCC
10.	2	DHMOL MCC2	SD-102 DHMOL MCC
11.	2	DHMOL MCC3	SD-103 DHMOL MCC
12.	2	H2 GENERATION MCC	SD-301 H2 GEN.
13.	2	PILOT MCC-1	SD-901 PILOT MCC1
14.	2	PILOT MCC-2	SD-902 PILOT MCC2
15.	2	ORANGE MCC	SD-801 ORANGE
16.	2	DAMASCON MCC1	SD-701 DAMAS MCC
17.	2	DAMASCON MCC2	SD-702 DAMAS MCC
18.	2	DAMASCON MCC3	SD-703 DAMAS MCC
19.	2	HYDROGENATION MCC1	SD-201 H2 PLANT
20.	2	HYDROGENATION MCC2	SD-202 H2 PLANT
21.	6	JBF Gr.floor-1	SD-U2JBF01
22.	6	JBF Gr.floor-2	SD-U2JBF02
23.	6	JBF Gr.floor-3	SD-U2JBF03

			24.	6	JBF Gr.floor-4	SD-U2JBF04
			25.	6	JBF Gr.floor-5	SD-U2JBF05
			26.	6	JBF Gr.floor-6	SD-U2JBF06
			27.	6	JBF Gr.floor-7	SD-U2JBF07
			28.	6	JBF Gr.floor-8	SD-U2JBF08
			29.	6	JBF Gr.floor-9	SD-U2JBF09
			30.	6	Prod. record room	SD-U2JBF010
			31.	6	JBF Raw material-1	SD-JBFRM01
			32.	6	JBF Raw material-2	SD-JBFRM02
			33.	6	JBF 1st floor-1	SD-U2JBF11
			34.	6	JBF 1st floor-2	SD-U2JBF12
			35.	6	JBF 1st floor-3	SD-U2JBF13
			36.	6	JBF 1st floor-4	SD-U2JBF14
			37.	6	JBF 1st floor-5	SD-U2JBF15
			38.	6	JBF 1st floor-6	SD-U2JBF16
			39.	6	JBF 1st floor-7	SD-U2JBF17
			40.	6	JBF 1st floor-8	SD-U2JBF18
			41.	6	Training hall-1	SD-U2TRN11
			42.	6	Training hall-2	SD-U2TRN12
			43.	6	JBF Relay Module for Hooter near Engineering dept.	U2JBFJB
			44.	2	Pilot MCC expansion	SD-903PILOTMCC3
			45.	5	Xerox machine office-1	SD-R&DBL11
			46.	5	Xerox machine office-2	SD-R&DBL12
			47.	5	QA Stability Room	SD-R&DBL13
			48.	5	QC Sulpher analyzer Room	SD-R&DBL14
			49.	5	QC Sample store Room	SD-R&DBL15
			50.	5	QA Top floor store Room	SD-R&DBL16
			51	5	SERVER ROOM R & D BLOCK	SD-U2SRM1 R&D
XV.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per Factories Act.	Health checkup of employee conducted Jan 2020 annually and employee working in hazardous chemical area, there health checks up conducting on six monthly. Records maintained in Form No. 7.				
XVI.	The company shall make arrangement for protection of possible fire hazard during manufacturing process in material handling.	• All process SOP developed, implemented and employee trained. • Adequate vent, flame arrester provided to solvent storage tanks. • Earthing and boding provided. • Breather valve provided to CST storage tanks. • Earth integrity system provided at solvent tanker unloading area.				

<table>
<tr><td></td><td></td><td>• Early Detection system- Hydrogen, MA, DMS gas detectors, Smoke and heat detectors provided at respective locations.
• Material Compatibility maintained during storage.
• Sprinkler system provided to CST storage tanks, H2 cascade and trolley shed, MA Tonner Storage area.</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/ CAC-Cell/ UAN No.19444/4th CAC/1711000858, dt.-24.11.2017 valid up to 28.02.2022. Complied consent conditions in accordance hazardous waste handling and disposal. Annual Return (Hazardous Waste) Form 4 submitted on 19.06.2019. Hazardous waste Disposal Membership (No. MWML-HzW-MHD-408- Validity up to 31.03.2020). HW Disposed during period Dec-19. to May 2020.
<table>
<tr><th>HW Cat.</th><th>Disposed Qty. MT</th><th>Consent Limit, MT/ A</th><th>Disposal</th></tr>
<tr><td>35.3</td><td>89.32</td><td>480</td><td rowspan="3">CHWTSDF-MWML</td></tr>
<tr><td>36.1</td><td>277.95</td><td>564</td></tr>
<tr><td>5.2</td><td>0.54</td><td>1.8</td></tr>
<tr><td>5.1</td><td>0.4</td><td>6.0</td><td rowspan="3">Sold to MPCB authorized</td></tr>
<tr><td>33.3</td><td>187</td><td>3312 Nos.</td></tr>
<tr><td>Others</td><td>1.69</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 process.
• Maximizing Recoveries.
• Use of automated material transfer system to minimize spillage.</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>
<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- 2019 to May-2020- 1 Nos. of mock drill conducted and compliance report submitted to DISH. Mock drill conducted on 02.02.2020.</td></tr>
<tr><td>XX.</td><td>A separate environment management cell with qualified staff shall be set up for implementation of the stipulated</td><td>Separate environmental cell developed having well equipped laboratory to carry out the environmental management and monitoring function</td></tr>
</table>

<table>
<tr><td></td><td>environmental safeguards.</td><td>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: Manager, Executive, Officer, Operator,. Total = 26 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>
<tr><td>XXI.</td><td>Transportation of ash will be through closed container and all measure should be taken to prevent spillage of the ash.</td><td>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 11.330 MT on dated 23.05.2020.</td></tr>
<tr><td>XXII.</td><td>Separate silos will be provided for collection and storing bottom ash & fly ash.</td><td>Not applicable.</td></tr>
<tr><td>XXIII.</td><td>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.</td><td>Yes. Separate funds of Rs. 331.5 Lacks are Earmarked for EMP.
Refer Annexure: III.</td></tr>
</table>

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 Dayanik Sagar on 24.10.2015 and in national English newspaper 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 Jun-19 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 Gram panchayat. 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 sectorai 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	Six monthly report on the status of compliance of the stipulated EC conditions including result of monitoring data submitted to MPCB.

	results of monitoring data (both in hard copies as well as by e- mail) to the respectively Zonal officer of CPCB and 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 also be send to the respective Regional Offices of MoEF by e-mail.	Environmental Statement (Form V) for year 2018-19 submitted online on MPCB web portal on 26.09.2019.
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 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.	Not Applicable.

PRIVI ORGANICS INDIA LIMITED, Unit-I & II
M.I.D.C.Mahad. Raigad -402309

DEPARTMENT: Administration

TITLE: Housekeeping Checklist - Daily Cleaning

Housekeeping Checklist - Daily Cleaning

Sr No	Points to be checked	Month :- April - 2020														
		Dates														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	**Daily Cleaning**															
a	Roads	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
b	Tank area	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
c	Vehicle	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
d	Offices	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
e	Health Centre	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
f	Worker room	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
g	Visitor Room	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	**Canteen - Daily cleaning**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
a	Table, chairs	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
b	Floor sweeping	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
c	Floor mopping	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
d	Dustbin cleaning	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
e	kitchen Tiles	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Checked by Housekeeping Supervisor		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Verified by Admin		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

	Prepared by	Reviewed by		Approved by
Name	Milind Gurav	G. D. Salunkhe	Vinita Mane	Jaychandra Mourya
Designation	Dy. Manager - Admin	AGM – IR & Admin	Manager QA	Sr. G.M. Quality System
Signature				
Date				

PRIVI ORGANICS INDIA LIMITED, Unit-I & II
M.I.D.C.Mahad. Raigad -402309

DEPARTMENT: Administration

TITLE: Housekeeping Checklist - Daily Cleaning

Housekeeping Checklist - Daily Cleaning

Month : - April - 2020

Sr No	Points to be checked	Dates													
		16	17	18	19	20	21	22	23	24	25	26	27	28	29	3
1	**Daily Cleaning**															
a	Roads	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
b	Tank area	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
c	Vehicle	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
d	Offices	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
e	Health Centre	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
f	Worker room	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
g	Visitor Room	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	**Canteen - Daily cleaning**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
a	Table, chairs	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
b	Floor sweeping	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
c	Floor mopping	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
d	Dustbin cleaning	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
e	kitchen Tiles	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Checked by Housekeeping Supervisor		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Verified by Admin		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

	Prepared by	Reviewed by		Approved by
Name	Milind Gurav	G. D. Salunkhe	Vinita Mane	Jaychandra Mourya
Designation	Dy. Manager - Admin	AGM – IR & Admin	Manager QA	Sr. G.M. Quality System
Signature				
Date				

PRIVI ORGANICS INDIA LIMITED UNIT-II

Doc No: M/FO/M17A

PREVENTIVE MAINTENACE SCHEDULE OF BOILER CLEANING

Boiler No.		Planned PM Schedule	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20
Dust Collector	PLANNED	Bimonthly	30-Dec-19	30-Jan-20	27-Feb-20	30-Mar-20	30-Apr-20	30-May-20
	ACTUAL		30-Dec-19	30-Jan-20	04-Feb-20	30-Mar-20	19-Apr-20	19-May-20
ESP	PLANNED	Bimonthly	15-Dec-19	15-Jan-20	15-Feb-20	15-Mar-20	15-Apr-20	15-May-20
	ACTUAL		24-Dec-19	15-Jan-20	16-Feb-20	03-Mar-20	23-Apr-20	15-May-20

DG set PM Schedule -

DG set Details	Nov-19		Jan-20		Mar-20		May-20	
	Planned Date	Actual Date	Planned Date	Actual Date	Planned Date	Actual Date	Planned Date	Actual Date
1010 KVA	22.11.2019	09.12.2019	16.01.2020	23.02.2020	17.03.2020	17.03.2020	03.05.2020	03.05.2020
725 KVA	22.11.2019	09.12.2019	16.01.2020	23.02.2020	17.03.2020	17.03.2020	03.05.2020	03.05.2020
625 KVA	02.11.2019	20.10.2019	02.01.2020	07.01.2020	02.03.2020	12.03.2020	02.05.2020	02.05.2020

Sr. No	Plant	Location	Description	Tag No.	Date	Done date
1	EHS	GR. FLOOR	DIESEL PUMP P-FHST-102A	P-FHST-102A	04-Apr-2020	05-04-2020
2	ETP	GR. FLOOR	AIR BLOWER FOR NEW AERATION TANK NO.-1	BL-13402A	06-Apr-2020	05-04-2020
3	ETP	GR. FLOOR	AIR BLOWER FOR NEW AERATION TANK NO.-2	BL-13402B	06-Apr-2020	05-04-2020
4	NEW ETP	GR. FLOOR	EQUI. AIR BLOWER-AB-13101A	AB-13101A	06-Apr-2020	05-04-2020

5	NEW ETP	GR. FLOOR	EQUI. AIR BLOWER-AB-13101B	AB-13101B	06-Apr-2020	05-04-2020
6	EHS	GR. FLOOR	JOCKY PUMP P-FHST-102C	P-FHST-102C	12-Apr-2020	10-04-2020
7	EHS	GR. FLOOR	MAIN PUMP P-FHST-102B	P-FHST-102B	12-Apr-2020	10-04-2020
8	STP	GR. FLOOR	Air Blower-01-AB-01	AB-01	15-Apr-2020	12-04-2020
9	STP	GR. FLOOR	Air Blower-02-AB-02	AB-02	15-Apr-2020	12-04-2020
10	EHS/ETP	GR. FLOOR	JOKEY PUMP-P-02 JP	P-02 JP	16-Apr-2020	18-04-2020
11	EHS/ETP	GR. FLOOR	MAIN PUMP-P-01HP	P-01 HP	16-Apr-2020	18-04-2020
12	MEE	GR. FLOOR	ReCIRCU. pump-RP-1	RP-1	30-Apr-2020	26-04-2020
13	MEE	GR. FLOOR	ReCIRCU. pump-RP-2	RP-2	30-Apr-2020	26-04-2020
14	MEE	GR. FLOOR	ReCIRCU. pump-RP-3	RP-3	30-Apr-2020	26-04-2020

Annexure-III

Privi Organics India Ltd, Unit-II

Details of Funds for Environment Protection

S. No.	Pollution Control Measures	Capital Cost Per Annum (Lac)
2	Green Belt development	6.0
3	Solid waste management	30.0
4	Environment Monitoring (Monitoring charges for air, water, noise)	3.5
5	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,	65.0
6	Air Pollution Control Measures	55.0
7	Water Pollution Control Measures	144
8	Rain Water Harvesting	3.0
9	CSR/CER Activity	25.0
Total		**331.5**

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

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ENalyse*

Ambient Air Quality Monitoring Report

REPORT No. AB/POL/12/2019-20/615

Name of Client & Address: **M/s. Privi Organics India Ltd., (Unit-II)** **Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309,Maharashtra, India**	**Sample Code**	**AB/POL/12/2019-20/615**
	Sample Location	**(A1) Near CST 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	**20/12/2019 to 21/12/2019**
	Time of Sampling	**11:25 am.**
	Sampling Duration	**24 Hrs**
	Ambient Temp. (Max./Min.)	**29.7°C / 19.0°C**
	Relative Humidity(RH)	**41 %**
	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})	68.87	$\mu g/m^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	31.22	$\mu g/m^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	18.7	$\mu g/m^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	25.1	$\mu g/m^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	16.3	$\mu g/m^3$	≤ 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)	1.88	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	16.1	$\mu g/m^3$	≤ 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)	0.10	ng/m^3	≤ 06 (Annual)	AB/Tech/CHM/SOP/A/10
12	Nickel (Ni)	0.13	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

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Ambient Air Quality Monitoring Report

REPORT No. AB/POL/12/2019-20/616

Name of Client & Address: **M/s. Privi Organics India Ltd., (Unit-II)** **Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309,Maharashtra, India**	**Sample Code**	**AB/POL/12/2019-20/616**
	Sample Location	**(A2) Near Minar 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	**20/12/2019 to 21/12/2019**
	Time of Sampling	**11:45 am.**
	Sampling Duration	**24 Hrs**
	Ambient Temp. (Max./Min.)	**29.8°C / 19.5°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/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})	65.67	$\mu g/m^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	30.12	$\mu g/m^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	15.8	$\mu g/m^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	21.4	$\mu g/m^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	12.7	$\mu g/m^3$	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.10	$\mu g/m^3$	≤ 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)	16.4	$\mu g/m^3$	≤ 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)	0.07	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

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

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Ambient Air Quality Monitoring Report

REPORT No. AB/POL/12/2019-20/617

Name of Client & Address: **M/s. Privi Organics India Ltd., (Unit-II)** **Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309,Maharashtra, India**	**Sample Code**	**AB/POL/12/2019-20/617**
	Sample Location	**(A3) 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	**20/12/2019 to 21/12/2019**
	Time of Sampling	**12:00 pm.**
	Sampling Duration	**24 Hrs**
	Ambient Temp. (Max./Min.)	**29.3°C / 19.8°C**
	Relative Humidity(RH)	**39 %**
	Analysis Date	**23/12/2019 to 30/12/2019**
	Reporting date	**30/12/2019**
	Instrument Details	**Ambient Fine Dust Sampler, AB/Tech/Instr/132**
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})	72.83	$\mu g/m^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	26.62	$\mu g/m^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	19.1	$\mu g/m^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	22.7	$\mu g/m^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	18.0	$\mu g/m^3$	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.11	$\mu g/m^3$	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.65	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	22.5	$\mu g/m^3$	≤ 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)	0.13	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
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Ambient Air Quality Monitoring Report

REPORT No. AB/POL/12/2019-20/618

Name of Client & Address: **M/s. Privi Organics India Ltd., (Unit-IV)** **Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309,Maharashtra, India**	**Sample Code**	**AB/POL/12/2019-20/618**
	Sample Location	**(A10) 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	**20/12/2019 to 21/12/2019**
	Time of Sampling	**11:45 am.**
	Sampling Duration	**24 Hrs**
	Ambient Temp. (Max./Min.)	**29.5°C / 20.0°C**
	Relative Humidity(RH)	**39 %**
	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})	62.89	$\mu g/m^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	23.26	$\mu g/m^3$	≤ 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)	21.7	$\mu g/m^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	18.2	$\mu g/m^3$	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.10	$\mu g/m^3$	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.85	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	12.4	$\mu g/m^3$	≤ 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)	0.13	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

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Ambient Air Quality Monitoring Report REPORT No. AB/POL/01/2019-20/659

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-II) Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309,Maharashtra, India	Sample Code	AB/POL/01/2019-20/659
	Sample Location	(A1) Near CST 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	20/01/2020 to 21/01/2020
	Time of Sampling	10:30 am.
	Sampling Duration	24 Hrs
	Ambient Temp. (Max./Min.)	28.0°C / 18.6°C
	Relative Humidity(RH)	41 %
	Analysis Date	23/01/2020 to 30/01/2020
	Reporting date	30/01/2020
	Instrument Details	Ambient Fine Dust Sampler, AB/Tech/Instr/132
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 ($PM_{2.5}$)	30.36	$\mu g/m^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	20.6	$\mu g/m^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	26.7	$\mu g/m^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	10.3	$\mu g/m^3$	≤ 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)	1.69	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	9.0	$\mu g/m^3$	≤ 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)	0.12	ng/m^3	≤ 06 (Annual)	AB/Tech/CHM/SOP/A/10
12	Nickel (Ni)	0.03	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

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Ambient Air Quality Monitoring Report

REPORT No. AB/POL/01/2019-20/660

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-II) Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309,Maharashtra, India	Sample Code	AB/POL/01/2019-20/660
	Sample Location	(A2) Near Minar 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	20/01/2020 to 21/01/2020
	Time of Sampling	10:55 am.
	Sampling Duration	24 Hrs
	Ambient Temp. (Max./Min.)	28.3°C / 18.8°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/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})	69.27	$\mu g/m^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	30.96	$\mu g/m^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_7)	18.2	$\mu g/m^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	22.7	$\mu g/m^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	13.0	$\mu g/m^3$	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.17	$\mu g/m^3$	≤ 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)	10.6	$\mu g/m^3$	≤ 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)	0.11	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

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

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Ambient Air Quality Monitoring Report REPORT No. AB/POL/01/2019-20/661

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-II) Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309,Maharashtra, India	Sample Code	AB/POL/01/2019-20/661
	Sample Location	(A3) 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	20/01/2020 to 21/01/2020
	Time of Sampling	11:20 am.
	Sampling Duration	24 Hrs
	Ambient Temp. (Max./Min.)	28.5°C / 19.0°C
	Relative Humidity(RH)	45 %
	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})	71.28	$\mu g/m^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	39.92	$\mu g/m^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	25.0	$\mu g/m^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	27.9	$\mu g/m^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	16.5	$\mu g/m^3$	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.15	$\mu g/m^3$	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.98	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	21.0	$\mu g/m^3$	≤ 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)	0.12	ng/m^3	≤ 06 (Annual)	AB/Tech/CHM/SOP/A/10
12	Nickel (Ni)	0.18	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

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Ambient Air Quality Monitoring Report REPORT No. AB/POL/01/2019-20/662

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-IV) Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309,Maharashtra, India	Sample Code	AB/POL/01/2019-20/662
	Sample Location	(A10) 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	20/01/2020 to 21/01/2020
	Time of Sampling	11:45 am.
	Sampling Duration	24 Hrs
	Ambient Temp. (Max./Min.)	28.1°C / 19.6°C
	Relative Humidity(RH)	48 %
	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})	76.28	$\mu g/m^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	37.15	$\mu g/m^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	16.7	$\mu g/m^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	20.2	$\mu g/m^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	15.2	$\mu g/m^3$	≤ 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)	1.67	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	15.2	$\mu g/m^3$	≤ 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)	0.12	ng/m^3	≤ 06 (Annual)	AB/Tech/CHM/SOP/A/10
12	Nickel (Ni)	0.20	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

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Ambient Air Quality Monitoring Report

REPORT No. AB/POL/02/2019-20/485

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-II) Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309,Maharashtra, India	Sample Code	AB/POL/02/2019-20/485
	Sample Location	(A1) Near GST 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	17/02/2020 to 18/02/2020
	Time of Sampling	11:00 am.
	Sampling Duration	24 Hrs
	Ambient Temp. (Max./Min.)	29.7°C / 21.0°C
	Relative Humidity(RH)	52 %
	Analysis Date	20/02/2020 to 26/02/2020
	Reporting date	26/02/2020
	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})	63.91	$\mu g/m^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	28.76	$\mu g/m^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	16.9	$\mu g/m^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	22.4	$\mu g/m^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	12.9	$\mu g/m^3$	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.18	$\mu g/m^3$	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.42	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	10.9	$\mu g/m^3$	≤ 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)	0.18	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

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Ambient Air Quality Monitoring Report REPORT No. AB/POL/02/2019-20/486

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-II) Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309,Maharashtra, India	Sample Code	AB/POL/02/2019-20/486
	Sample Location	(A2) Near Minar 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	17/02/2020 to 18/02/2020
	Time of Sampling	11:15 am.
	Sampling Duration	24 Hrs
	Ambient Temp. (Max./Min.)	29.5°C / 20.7°C
	Relative Humidity(RH)	53 %
	Analysis Date	20/02/2020 to 26/02/2020
	Reporting date	26/02/2020
	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})	70.88	µg/m³	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	24.70	µg/m³	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	20.8	µg/m³	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	27.7	µg/m³	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	15.8	µg/m³	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.11	µg/m³	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.75	mg/m³	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	12.6	µg/m³	≤ 400	AB/Tech/CHM/SOP/A/06
9	Benzene (C_6H_6)	BDL	µg/m³	≤ 05 (Annual)	IS 5182 (Part 11) : 2006
10	Benzo(a)Pyrene (BaP)	BDL	ng/m³	≤ 01(Annual)	IS 5182 (Part 12) :2004
11	Arsenic (As)	BDL	ng/m³	≤ 06 (Annual)	AB/Tech/CHM/SOP/A/10
12	Nickel (Ni)	0.08	ng/m³	≤ 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

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ISO 9001: 2015 and OHSAS 18001: 2007 Certified Company

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Ambient Air Quality Monitoring Report REPORT No. AB/POL/02/2019-20/487

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-II) Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309,Maharashtra, India	Sample Code	AB/POL/02/2019-20/487
	Sample Location	(A3) 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	17/02/2020 to 18/02/2020
	Time of Sampling	11:45 am.
	Sampling Duration	24 Hrs
	Ambient Temp. (Max./Min.)	29.8°C / 21.3°C
	Relative Humidity(RH)	49 %
	Analysis Date	20/02/2020 to 26/02/2020
	Reporting date	26/02/2020
	Instrument Details	Ambient Fine Dust Sampler, AB/Tech/Instr/132
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})	76.84	$\mu g/m^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	30.50	$\mu g/m^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	17.4	$\mu g/m^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	21.7	$\mu g/m^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	11.0	$\mu g/m^3$	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.17	$\mu g/m^3$	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.50	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	12.8	$\mu g/m^3$	≤ 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)	0.07	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

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

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ISO 9001: 2015 and OHSAS 18001: 2007 Certified Company

Ambient Air Quality Monitoring Report REPORT No. AB/POL/02/2019-20/488

Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-IV) Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309,Maharashtra, India	Sample Code	AB/POL/02/2019-20/488
	Sample Location	(A10) 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	17/02/2020 to 18/02/2020
	Time of Sampling	10:15 am.
	Sampling Duration	24 Hrs
	Ambient Temp. (Max./Min.)	29.0°C / 20.4°C
	Relative Humidity(RH)	52 %
	Analysis Date	20/02/2020 to 26/02/2020
	Reporting date	26/02/2020
	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})	62.27	$\mu g/m^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	23.76	$\mu g/m^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	16.7	$\mu g/m^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	21.0	$\mu g/m^3$	≤ 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)	0.17	$\mu g/m^3$	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.80	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	16.0	$\mu g/m^3$	≤ 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)	0.04	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

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

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Ambient Air Quality Monitoring Report REPORT No. AB/POL/03/2019-20/577

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-II) Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309,Maharashtra, India	Sample Code	AB/POL/03/2019-20/577
	Sample Location	(A1) Near CST 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	16/03/2020 to 17/03/2020
	Time of Sampling	11:10 am.
	Sampling Duration	24 Hrs
	Ambient Temp. (Max./Min.)	32.0°C / 25.2°C
	Relative Humidity(RH)	60 %
	Analysis Date	18/03/2020 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})	69.25	$\mu g/m^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	29.41	$\mu g/m^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	20.5	$\mu g/m^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	21.3	$\mu g/m^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	12.5	$\mu g/m^3$	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.10	$\mu g/m^3$	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.44	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	11.2	$\mu g/m^3$	≤ 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: 2007 Certified Company

ENalyse*

Ambient Air Quality Monitoring Report REPORT No. AB/POL/03/2019-20/578

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-II) Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309,Maharashtra, India	Sample Code	AB/POL/03/2019-20/578
	Sample Location	(A2) Near Minar 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	16/03/2020 to 17/03/2020
	Time of Sampling	11:35 am.
	Sampling Duration	24 Hrs
	Ambient Temp. (Max./Min.)	32.3°C / 25.5°C
	Relative Humidity(RH)	61 %
	Analysis Date	18/03/2020 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})	71.55	$\mu g/m^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	33.60	$\mu g/m^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	19.6	$\mu g/m^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	25.2	$\mu g/m^3$	≤ 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)	0.16	$\mu g/m^3$	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.84	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	12.2	$\mu g/m^3$	≤ 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)	0.09	ng/m^3	≤ 06 (Annual)	AB/Tech/CHM/SOP/A/10
12	Nickel (Ni)	0.13	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

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ENalyse*

Ambient Air Quality Monitoring Report REPORT No. AB/POL/03/2019-20/579

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-II) Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309,Maharashtra, India	Sample Code	AB/POL/03/2019-20/579
	Sample Location	(A3) 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	16/03/2020 to 17/03/2020
	Time of Sampling	11:50 am.
	Sampling Duration	24 Hrs
	Ambient Temp. (Max./Min.)	32.2°C / 25.3°C
	Relative Humidity(RH)	60 %
	Analysis Date	18/03/2020 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})	70.19	$\mu g/m^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	32.05	$\mu g/m^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	21.4	$\mu g/m^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	25.0	$\mu g/m^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	14.8	$\mu g/m^3$	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.16	$\mu g/m^3$	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.70	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	19.0	$\mu g/m^3$	≤ 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)	0.20	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

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ENalyse*

Ambient Air Quality Monitoring Report REPORT No. AB/POL/03/2019-20/580

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-IV) Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309,Maharashtra, India	Sample Code	AB/POL/03/2019-20/580
	Sample Location	(A10) 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	16/03/2020 to 17/03/2020
	Time of Sampling	12:10 pm.
	Sampling Duration	24 Hrs
	Ambient Temp. (Max./Min.)	32.3°C / 25.6°C
	Relative Humidity(RH)	62 %
	Analysis Date	18/03/2020 to 21/03/2020
	Reporting date	21/03/2020
	Instrument Details	Ambient Fine Dust Sampler, AB/Tech/Instr/132
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})	68.15	$\mu g/m^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter ($PM_{2.5}$)	29.36	$\mu g/m^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part 50
3	Sulphur Dioxide (SO_2)	12.0	$\mu g/m^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	15.6	$\mu g/m^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O_3)	12.3	$\mu g/m^3$	≤ 180 (1 Hr.)	IS : 5182 (Part 9)-1974
6	Lead (Pb)	0.10	$\mu g/m^3$	≤ 1.0	AB/Tech/CHM/SOP/A/07
7	Carbon Monoxide (CO)	1.25	mg/m^3	≤ 04 (1 Hr.)	Manual Instruction
8	Ammonia (NH_3)	14.3	$\mu g/m^3$	≤ 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)	0.10	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

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Ambient Noise Monitoring Report REPORT No. AB/POL/02/2019-20/514

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-IV) Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309,Maharashtra, India	Sample Code	AB/POL/02/2019-20/514
	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	26/02/2020
	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	14:30	65.4	22:10	63.1	dB(A)
02	Near DM Plant	14:35	69.7	22:12	63.4	dB(A)
03	Coal Store	14:40	70.1	22:15	66.2	dB(A)
04	Crusher Area	14:45	71.6	22:17	70.0	dB(A)
05	Boiler East Side	14:50	72.4	22:19	67.7	dB(A)
06	Near DG Set	14:53	69.8	22:25	67.6	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

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Ambient Noise Monitoring Report REPORT No. AB/POL/02/2019-20/513

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-II) Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309,Maharashtra, India	Sample Code	AB/POL/02/2019-20/513
	Sample Collected By	Aavanira Biotech Pvt. Ltd.,
	Sample type	Noise
	Method of Sampling	As per IS : 4758
	Date of Sampling	17/02/2020
	Reporting date	26/02/2020
	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	57.4	22:05	55.4	dB(A)
02	Near ETP	01:00	65.4	22:06	56.4	dB(A)
03	Near Minar Gate	01:10	63.2	22:08	60.2	dB(A)
04	Near Material Gate	01:15	60.2	22:10	67.1	dB(A)
05	H.W. Area	01:20	60.1	22:12	58.1	dB(A)
06	Near Demaccon Plant	01:25	65.4	22:15	60.1	dB(A)
07	Vira Gate	01:30	62.4	22:17	60.9	dB(A)
08	Chamundi Gate	02:00	64.4	22:19	62.4	dB(A)
09	CST East Side	02:15	60.1	22:22	56.4	dB(A)
10	Near CST Sprinkler	02:17	65.5	22:25	61.7	dB(A)
11	Near Work Shop	02:20	67.9	22:27	52.1	dB(A)
12	Near OHC	02:21	69.4	22:28	64.4	dB(A)
13	Near Production Office	03:00	62.8	22:30	60.1	dB(A)
14	Near Second Sprinkler	03:10	67.4	22:35	62.9	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

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ENalyse*

Source Emission Monitoring Report REPORT NO. AB/POL/02/2019-20/498

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-IV) Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309 Maharashtra, India	Sample Code	AB/POL/02/2019-20/498
	Sample Location/Attached To	S-2 Boiler (18 /08 TPH)
	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	04:40 pm.
	Analysis Date	20/02/2020 to 26/02/2020
	Reporting date	26/02/2020
	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	479	°K
6	Differential Pressure	2.5	mmWG
7	Velocity	7.19	m/s
8	Dimension of Stack	1.3	mtr.
9	Stack Area	1.32	m^2
10	Gas Volume	21203.80	Nm^3/Hr

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB Consent	Standard Method
1	Total Particulate Matter (TPM)	110.52	mg/Nm^3	≤ 150	IS:11255 (Part -1)-1985
2	Sulphur Dioxide(SO_2)	98.25	mg/Nm^3	--	IS:11255 (Part -2)-1985
		53.65	Kg/day	≤ 1500	
3	Oxides of Nitrogen(NOx)	32.0	ppm	<50	IS:11255 (Part -7)-2005
4	HCL	0.26	mg/Nm^3	<35	US EPA Method 8 A
5	Acid Mist	1.5	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. 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

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ISO 9001: 2015 and OHSAS 18001: 2007 Certified Company

Source Emission Monitoring Report REPORT NO. AB/POL/02/2019-20/489

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-II) Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309 Maharashtra, India	Sample Code	AB/POL/02/2019-20/489
	Sample Location/Attached To	S-3 DG Set 1010 KVA
	Sample Collected By	Aavanira Biotech Pvt. Ltd.,
	Sample type	Stack
	Method of Sampling	As per IS : 11255 (Part – 1) : 1985
	Date of Sampling	17/02/2020
	Time of Sampling	11:30 am.
	Analysis Date	20/02/2020 to 26/02/2020
	Reporting date	26/02/2020
	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.	12.0	mtr.
3	Type of Stack	Round	--
4	Fuel Type	HSD	--
5	Flue Gas Temperature	468	°K
6	Differential Pressure	9.0	mmWG
7	Velocity	11.72	m/s
8	Dimension of Stack	0.177	mtr.
9	Stack Area	0.0245	m^2
10	Gas Volume	710.90	Nm^3/Hr

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB Consent	Standard Method
1	Total Particulate Matter (TPM)	62.77	mg/Nm^3	≤ 150	IS:11255 (Part -1)-1985
2	Sulphur Dioxide(SO_2)	81.20	mg/Nm^3	--	IS:11255 (Part -2)-1985
		1.24	Kg/day	<7.2	
3	Oxides of Nitrogen(NOx)	4.7	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: 2007 Certified Company

ENalyse*

Source Emission Monitoring Report REPORT NO. AB/POL/02/2019-20/490

Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-II) Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309,Maharashtra, India	Sample Code	AB/POL/02/2019-20/490
	Sample Location/Attached To	S-4 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	17/02/2020
	Time of Sampling	11:50 am.
	Analysis Date	20/02/2020 to 26/02/2020
	Reporting date	26/02/2020
	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.	12.0	mtr.
3	Type of Stack	Round	--
4	Fuel Type	HSD	--
5	Flue Gas Temperature	444	°K
6	Differential Pressure	8.7	mmWG
7	Velocity	11.97	m/s
8	Dimension of Stack	0.177	mtr.
9	Stack Area	0.0245	m^2
10	Gas Volume	746.92	Nm^3/Hr

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB Consent	Standard Method
1	Total Particulate Matter (TPM)	66.93	mg/Nm^3	≤ 150	IS:11255 (Part -1)-1985
2	Sulphur Dioxide(SO_2)	72.40	mg/Nm^3	--	IS:11255 (Part -2)-1985
		1.34	Kg/day	<7.2	
3	Oxides of Nitrogen(NOx)	2.8	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: 2007 Certified Company

ENalyse*

Source Emission Monitoring Report REPORT NO. AB/POL/02/2019-20/491

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-IV) Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309,Maharashtra, India	Sample Code	AB/POL/02/2019-20/491
	Sample Location/Attached To	S-5 DG Set 380 KVA
	Sample Collected By	Aavanira Biotech Pvt. Ltd.,
	Sample type	Stack
	Method of Sampling	As per IS : 11255 (Part – 1) : 1985
	Date of Sampling	17/02/2020
	Time of Sampling	11:35 am.
	Analysis Date	20/02/2020 to 26/02/2020
	Reporting date	26/02/2020
	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.	12.0	mtr.
3	Type of Stack	Round	--
4	Fuel Type	HSD	--
5	Flue Gas Temperature	422	°K
6	Differential Pressure	6.6	mmWG
7	Velocity	10.75	m/s
8	Dimension of Stack	0.15	mtr.
9	Stack Area	0.0176	m^2
10	Gas Volume	488.25	Nm^3/Hr

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB Consent	Standard Method
1	Total Particulate Matter (TPM)	60.92	mg/Nm^3	≤ 150	IS:11255 (Part -1)-1985
2	Sulphur Dioxide(SO_2)	52.71	mg/Nm^3	--	IS:11255 (Part -2)-1985
		0.64	Kg/day	<5.4	
3	Oxides of Nitrogen(NOx)	1.4	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

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Source Emission Monitoring Report REPORT NO. AB/POL/02/2019-20/499

Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-IV) Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309,Maharashtra, India	Sample Code	AB/POL/02/2019-20/499
	Sample Location/Attached To	S-6 Boiler 15 TPH
	Sample Collected By	Aavanira Biotech Pvt. Ltd.,
	Sample type	Stack
	Method of Sampling	As per IS : 11255 (Part – 1) : 1985
	Date of Sampling	17/02/2020
	Time of Sampling	05:10 pm.
	Analysis Date	20/02/2020 to 26/02/2020
	Reporting date	26/02/2020
	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.	46	mtr.
3	Type of Stack	Round	--
4	Fuel Type	Coal	--
5	Flue Gas Temperature	455	°K
6	Differential Pressure	2.2	mmWG
7	Velocity	6.18	m/s
8	Dimension of Stack	2.0	mtr.
9	Stack Area	3.14	m^2
10	Gas Volume	44182.46	Nm^3/Hr

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB Consent	Standard Method
1	Total Particulate Matter (TPM)	93.25	mg/Nm^3	≤ 150	IS:11255 (Part -1)-1985
2	Sulphur Dioxide(SO_2)	101.74	mg/Nm^3	--	IS:11255 (Part -2)-1985
		110.28	Kg/day	<1200	
3	Oxides of Nitrogen(NOx)	30.7	ppm	<50	IS:11255 (Part -7)-2005
4	HCL	1.2	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.
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ENalyse*

Source Emission Monitoring Report REPORT NO. AB/POL/02/2019-20/492

Name of Client & Address:		
M/s. Privi Organics India Ltd., (Unit-II) Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309,Maharashtra, India	Sample Code	AB/POL/02/2019-20/492
	Sample Location/Attached To	S-8 Incinerator
	Sample Collected By	Aavanira Biotech Pvt. Ltd.,
	Sample type	Stack
	Method of Sampling	As per IS : 11255 (Part – 1) : 1985
	Date of Sampling	17/02/2020
	Time of Sampling	01:15 pm.
	Analysis Date	20/02/2020 to 26/02/2020
	Reporting date	26/02/2020
	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.	30.0	mtr.
3	Type of Stack	Round	--
4	Fuel Type	HSD	--
5	Flue Gas Temperature	448	°K
6	Differential Pressure	2.3	mmWG
7	Velocity	7.51	m/s
8	Dimension of Stack	0.5	mtr.
9	Stack Area	0.1962	m^2
10	Gas Volume	35250.72	Nm^3/Hr

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB Consent	Standard Method
1	Total Particulate Matter (TPM)	80.92	mg/Nm^3	≤ 150	IS:11255 (Part -1)-1985
2	Sulphur Dioxide(SO_2)	70.77	mg/Nm^3	--	IS:11255 (Part -2)-1985
		4.92	Kg/day	<45	
3	Oxides of Nitrogen(NOx)	3.8	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.
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CIN NO. U74900PN2010PTC137544

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ENalyse*

Source Emission Monitoring Report REPORT NO. AB/POL/02/2019-20/494

Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-II) Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X- 9,10,11, MIDC Mahad Dist-Raigad-402309,Maharashtra, India		
	Sample Code	AB/POL/02/2019-20/494
	Sample Location/Attached To	S-10 DG Set 625 KVA(New)DG#03
	Sample Collected By	Aavanira Biotech Pvt. Ltd.,
	Sample type	Stack
	Method of Sampling	As per IS : 11255 (Part – 1) : 1985
	Date of Sampling	17/02/2020
	Time of Sampling	03:00 pm.
	Analysis Date	20/02/2020 to 26/02/2020
	Reporting date	26/02/2020
	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.	12.0	mtr.
3	Type of Stack	Round	--
4	Fuel Type	HSD	--
5	Flue Gas Temperature	452	°K
6	Differential Pressure	6.7	mmWG
7	Velocity	11.36	m/s
8	Dimension of Stack	0.177	mtr.
9	Stack Area	0.0245	m^2
10	Gas Volume	619.52	Nm^3/Hr

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB Consent	Standard Method
1	Total Particulate Matter (TPM)	53.44	mg/Nm^3	≤ 150	IS:11255 (Part -1)-1985
2	Sulphur Dioxide(SO_2)	57.20	mg/Nm^3	--	IS:11255 (Part -2)-1985
		0.91	Kg/day	<9.6	
3	Oxides of Nitrogen(NOx)	1.8	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.
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CIN NO. U74900PN2010PTC137544

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Test Report

REPORT NO.AB/POI/02/2019-20/720

Client Details Name & Address M/s. Privi Organics India Ltd., (Unit-II) Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X-9,10,11, MIDC Mahad Dist-Raigad-402 309, Maharashtra, India	Sample Code	AB/POI/02/2019-20/720
	Sample Name	Unit II ETP Outlet
	Sample Collected By	Client
	Method for Sampling	--
	Sample Type	Effluent
	Sample Collected On	20/02/2020
	Sample Received on Date	22/02/2020
	Analysis Date	22/02/2020 to 27/02/2020
	Reporting Date	27/02/2020
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)	1981.0	<2100.0	mg/lit	IS: 3025 Part-16 (R.A : 2006)
	Chemical Parameter				
1	pH (at 25°C)	7.74	5.5-9.0	--	IS: 3025 Part-11 (R.A : 2002)
2	BOD (Biochemical Oxygen Demand) (3day at 27°C)	13.0	<100.0	mg/lit	IS: 3025 Part-44 (R.A : 2003)
3	COD (Chemical Oxygen Demand)	48.46	<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^-)	249.92	<600	mg/lit	IS: 3025 Part-32 (R.A : 2003)
6	Sulphate (as SO_4^{-2})	615.0	<1000	mg/lit	APHA :23rd edition -(4500- SO_4^{2-} E)
7	Total Phosphates (as PO_4^{-3})	0.94	<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	90	90% for 96 Hrs	%	APHA 8010

REMARKS / OBSERVATIONS: All above parameters 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

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ENalyse*

Test Report

REPORT NO.AB/POI/03/2019-20/587

Client Details Name & Address M/s. Privi Organics India Ltd., (Unit-II) Plot No.C-3, 4,5,6,6/1,8,9,33/1 & X-9,10,11, MIDC Mahad Dist-Raigad-402 309, Maharashtra, India	Sample Code	AB/POI/03/2019-20/587
	Sample Name	Unit II 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)	1956.0	<2100.0	mg/lit	IS: 3025 Part-16 (R.A : 2006)
Chemical Parameter					
1	pH (at 25°C)	7.13	5.5-9.0	--	IS: 3025 Part-11 (R.A : 2002)
2	BOD (Biochemical Oxygen Demand) (3day at 27°C)	36.0	<100.0	mg/lit	IS: 3025 Part-44 (R.A : 2003)
3	COD (Chemical Oxygen Demand)	101.52	<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^-)	256.50	<600	mg/lit	IS: 3025 Part-32 (R.A : 2003)
6	Sulphate (as SO_4^{-2})	801.0	<1000	mg/lit	APHA :23rd edition -(4500- SO_4^{2-} E)
7	Total Phosphates (as PO_4^{-3})	3.90	<5.0	mg/lit	IS: 3025 Part-02 (2004), USEPA
8	Ammonical Nitrogen as N	<0.5	<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 *