



Ref. No: POIL/U-I/EC-Compliance/20-21/038

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 for proposed aroma chemical production capacity in Unit-I on Plot No.: A-07, MIDC area, Mahad, Dist. Raigad by M/s Privi Organics India Ltd.

Ref: Environment Department, MS, SEIAA Letter – SEAC 2013/CR. 242/TC-2 Dated 8th Oct' 2015

Dear Sir,


With reference to the proposal for Grant of Environmental clearance for expansion of aroma chemical production capacity in Unit-I on Plot No. A-07, MIDC area, Mahad, Dist. Raigad by M/s Privi Organics India Ltd; herewith submitting the six monthly compliance report for the **period of Dec-2019 to May -2020**, to fulfill EC condition dated 8.10.2015.

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


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 I : A-7, M.I.D.C., Mahad-402309. Dist. Raigad, Maharashtra, India | Tel.: +91 8879228864-65

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- 2013/CR-242/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 production capacity in Unit I on Plot No. A-7, 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:

| | | |
|----|--|--|
| 1. | Name of Project | Expansion of Aroma Chemical Production Capacity in Unit I of Privi Organics Ltd, Plot No A-7, MIDC Area, Mahad. Dist. Raigad |
| 2. | Project Proponent | Mr. D.B. Rao Designation: Executive Director M/s Privi Organics Ltd |
| 3. | Consultants | M/s. Green Circle Inc. |
| 5. | New Project / Expansion in existing project/ Modernization/ Diversification in exiting project | Expansion |
| 6. | If expansion/ Diversification, whether environmental clearance | - |

| | has been obtained for existing project (If yes, enclose a copy with compliance table) | | | | | | | | | | | | | | | | | | | |
|-------|---|---|--|---|---|--|--|------------------------|---|---|-------|---|-------------------|--------|---|--|------|-------|--|--------|
| 7. | 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. | | | | | | | | | | | | | | | | | | |
| 8. | Area Details | <ul style="list-style-type: none"> ➤ Total plot area (sq. m.): 6525 ➤ Built up area (Sq. m.): 2823 | | | | | | | | | | | | | | | | | | |
| 9. | Name of the Notified Industrial area / MIDC area | Maharashtra Industrial Development Corporation (MIDC) Tal-Mahad, Dist- Raigad | | | | | | | | | | | | | | | | | | |
| 10. | TOR given by SEAC? (If yeas then specify the meeting) | No | | | | | | | | | | | | | | | | | | |
| 11. | Estimated capital cost of the Project (including cost for land, building, plant and machinery separately) | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Sr.no.</th> <th style="width: 70%;">Description</th> <th style="width: 20%;">Amount in Lacs</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Land & Building</td> <td>5.82</td> </tr> <tr> <td>2</td> <td>Building (Factory + Office + Warehouse)</td> <td>40.32</td> </tr> <tr> <td>3</td> <td>Plant & Machinery</td> <td>340.46</td> </tr> <tr> <td>4</td> <td>Piping + Electrical + Instrumentations + Painting + Erection & Commissioning</td> <td>69.3</td> </tr> <tr> <td colspan="2" style="text-align: center;">Total</td> <td>455.90</td> </tr> </tbody> </table> | Sr.no. | Description | Amount in Lacs | 1 | Land & Building | 5.82 | 2 | Building (Factory + Office + Warehouse) | 40.32 | 3 | Plant & Machinery | 340.46 | 4 | Piping + Electrical + Instrumentations + Painting + Erection & Commissioning | 69.3 | Total | | 455.90 |
| | | Sr.no. | Description | Amount in Lacs | | | | | | | | | | | | | | | | |
| | | 1 | Land & Building | 5.82 | | | | | | | | | | | | | | | | |
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| | | 3 | Plant & Machinery | 340.46 | | | | | | | | | | | | | | | | |
| 4 | Piping + Electrical + Instrumentations + Painting + Erection & Commissioning | 69.3 | | | | | | | | | | | | | | | | | | |
| Total | | 455.90 | | | | | | | | | | | | | | | | | | |
| 12. | Location details of the project : | <ul style="list-style-type: none"> ➤ Latitude: 18°06.509'N ➤ Longitude: 73°28.864' E ➤ Location: MIDC, Mahad, Dist- Raigad ➤ Elevation above Mean Sea Level (m): 22.86 | | | | | | | | | | | | | | | | | | |
| 13. | Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas / inter-State boundaries | No, Protected areas/ Critically polluted areas/ Eco- Sensitive areas/ inter- state boundaries present in an around the study area of Project. | | | | | | | | | | | | | | | | | | |
| 14. | Raw materials (including process chemicals, Catalysts & additives). | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">List of raw materials to be used</th> <th style="width: 15%;">Physical and chemical nature of raw material</th> <th style="width: 15%;">Quantity (tonnes/year) full production capacity</th> <th style="width: 15%;">Source of materials</th> <th style="width: 40%;">Means of transportat ion (Source to storage site) with justification</th> </tr> </thead> <tbody> <tr> <td colspan="5" style="text-align: center;">Attached as Annexure I</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | List of raw materials to be used | Physical and chemical nature of raw material | Quantity (tonnes/year) full production capacity | Source of materials | Means of transportat ion (Source to storage site) with justification | Attached as Annexure I | | | | | | | | | | | | |
| | | List of raw materials to be used | Physical and chemical nature of raw material | Quantity (tonnes/year) full production capacity | Source of materials | Means of transportat ion (Source to storage site) with justification | | | | | | | | | | | | | | |
| | | Attached as Annexure I | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 15. | Production details | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Name of Products, By products and</th> <th style="width: 25%;">Existing (T/Year)</th> <th style="width: 25%;">Proposed activity (new/modernization)</th> <th style="width: 25%;">Total (T/Year)</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | Name of Products, By products and | Existing (T/Year) | Proposed activity (new/modernization) | Total (T/Year) | | | | | | | | | | | | | | |
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|------------------------|----------------------------------|--|--|-------------------------------|--------------------------------|---------------|-------|---------------------|--------|----------------|---|------------------------|---|----------------|----------------------------------|------------------|---------------|--------------------|---|----------------|------|--------------|-------|--------------|---|-------|--------|
| | | Intermediate Products | | / expansion) (T/Year) | | | | | | | | | | | | | | | | | | | | | | | |
| | | Main Products | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | By-Products | Attached as Annexure II | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Intermediate Products | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16. | Rain Water Harvesting (RWH) | <ul style="list-style-type: none"> ➤ Level of the Ground water table: 5.0 to 6.0 m ➤ Size and no of RWH tank(s) and Quantity: One tank (145 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): 2.5 Lacs Recurring Cost (Lacs): 0.25 Lacs | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17. | Total Water Requirement | <p>Total water requirement:</p> <ul style="list-style-type: none"> • Fresh water (CMD): Existing- 277.5 + Propose- 43.47 & Source: MIDC Water Supply, Total: 320.97 • Recycled water (CMD): 5.0 <p>Use of the water</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Process (CMD)</td> <td>88.82</td> </tr> <tr> <td>Cooling water (CMD)</td> <td>170.69</td> </tr> <tr> <td>DM Water (CMD)</td> <td>-</td> </tr> <tr> <td>Dust Suppression (CMD)</td> <td>-</td> </tr> <tr> <td>Drinking (CMD)</td> <td>Included in domestic requirement</td> </tr> <tr> <td>Green belt (CMD)</td> <td>5.0 (Recycle)</td> </tr> <tr> <td>Fire service (CMD)</td> <td>-</td> </tr> <tr> <td>Domestic (CMD)</td> <td>12.5</td> </tr> <tr> <td>Boiler (CMD)</td> <td>48.96</td> </tr> <tr> <td>Others (CMD)</td> <td>-</td> </tr> <tr> <td>Total</td> <td>320.97</td> </tr> </table> | | | | Process (CMD) | 88.82 | Cooling water (CMD) | 170.69 | DM Water (CMD) | - | Dust Suppression (CMD) | - | Drinking (CMD) | Included in domestic requirement | Green belt (CMD) | 5.0 (Recycle) | Fire service (CMD) | - | Domestic (CMD) | 12.5 | Boiler (CMD) | 48.96 | Others (CMD) | - | Total | 320.97 |
| Process (CMD) | 88.82 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cooling water (CMD) | 170.69 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DM Water (CMD) | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dust Suppression (CMD) | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Drinking (CMD) | Included in domestic requirement | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Green belt (CMD) | 5.0 (Recycle) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fire service (CMD) | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Domestic (CMD) | 12.5 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Boiler (CMD) | 48.96 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Others (CMD) | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | 320.97 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18. | Storm water drainage | <ul style="list-style-type: none"> • Natural water drainage pattern | <p>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.</p> | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <ul style="list-style-type: none"> • quantity of storm water: 1984.3 (generated during monsoon) • Size of SWD: 160m² | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19. | Sweage generation and treatment | <ul style="list-style-type: none"> • Amount of Sweage generation (CMD): 10 CMD • Proposed treatment for the Sweage: Soak pit and Septic tank • Capacity of the STP (CMD) (If applicable): N/A | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20. | Effluent characteristic | Sr. No. | Parameters | Inlet effluent Characteristic | Outlet effluent Characteristic | MPCB Standard | | | | | | | | | | | | | | | | | | | | | |

| | | 1 | pH | 4-6 | 7-7.5 | 5.5-9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--|---|----------------------------------|-------------|-------|-------|--------|--------|------------------------------------|---------------------------------|-------------|---------------------|--|--|--|--|---|---------|--|--|--|--|------------|-----|-------------|---|--|------------|-------|-------------|---|---|-------------------|--|--|--|--|----------|-------|-------------|---|---|---------|------|--------------------|---|---|--------|--|--|--|--|---------------------|------|-------------|---|
| | | 2 | COD | 2000-3500 | 220 | 250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 3 | BOD | 900-1800 | 25 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 4 | NH ₄ ⁺ - N | 5-10 | 2 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 5 | Oil & Grease | 15-20 | Nil | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 6 | TDS | 3000-4000 | 1300 | 2100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. | ETP details | <ul style="list-style-type: none"> Amount of effluent generation (CMD): 122.24 (unit-1) + 143.8 (unit-3) Total: 266.0 m³ Capacity of the ETP (CMD): 300 m³ Amount of treated effluent recycled (CMD): 5.0 (unit-1) + 38.8 (unit-3) Total: 43.8 m³ Amount of water send to the CETP (CMD): 221.0 Membership of the CETP (If require): If yes then attach the letter submit the letter Attached as Annexure VI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. | Note on ETP technology to be used | The ETP is comprise of oil & grease trap chamber and equalization cum neutralization chamber in unit-1 and then forwarded to unit-3 in 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. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. | Disposal of the ETP sludge (If applicable) | Forwarded to CHWTSDF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24. | Solid waste Management | <table border="1"> <thead> <tr> <th>Sr. No</th> <th>Source</th> <th>Qty in TPM (Existing+ Proposed)</th> <th>Form(Sludge / Dry /Slurry etc.)</th> <th>Composition</th> </tr> </thead> <tbody> <tr> <td colspan="5" style="text-align: center;">Non-Hazardous Waste</td> </tr> <tr> <td>1</td> <td>Utility</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Boiler ash</td> <td>135</td> <td>Dry & Solid</td> <td>-</td> </tr> <tr> <td></td> <td>Insulation</td> <td>0.054</td> <td>Dry & Solid</td> <td>-</td> </tr> <tr> <td>2</td> <td>Process & Utility</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>MS Scrap</td> <td>15.50</td> <td>Dry & Solid</td> <td>-</td> </tr> <tr> <td>3</td> <td>Canteen</td> <td>0.45</td> <td>Dry/Slurry & Solid</td> <td>-</td> </tr> <tr> <td>4</td> <td>Office</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>(Paper, wood waste,</td> <td>4.20</td> <td>Dry & Solid</td> <td>-</td> </tr> </tbody> </table> | | | | | Sr. No | Source | Qty in TPM (Existing+ Proposed) | Form(Sludge / Dry /Slurry etc.) | Composition | Non-Hazardous Waste | | | | | 1 | Utility | | | | | Boiler ash | 135 | Dry & Solid | - | | Insulation | 0.054 | Dry & Solid | - | 2 | Process & Utility | | | | | MS Scrap | 15.50 | Dry & Solid | - | 3 | Canteen | 0.45 | Dry/Slurry & Solid | - | 4 | Office | | | | | (Paper, wood waste, | 4.20 | Dry & Solid | - |
| Sr. No | Source | Qty in TPM (Existing+ Proposed) | Form(Sludge / Dry /Slurry etc.) | Composition | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Non-Hazardous Waste | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Utility | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Boiler ash | 135 | Dry & Solid | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Insulation | 0.054 | Dry & Solid | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Process & Utility | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MS Scrap | 15.50 | Dry & Solid | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Canteen | 0.45 | Dry/Slurry & Solid | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Office | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (Paper, wood waste, | 4.20 | Dry & Solid | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | |
|-----------------|---|----------|----------|--|
| | Plastic etc.) | | | |
| Hazardous Waste | | | | |
| S. no | Type & Category of hazardous waste | Quantity | | |
| 1 | Cat.no.-34.3 ETP Sludge | 10MT/M | | |
| 2 | Cat.no.-20.1 Residue and hydrocarbon | 0.72MT/M | | |
| 3 | Cat.no.-33.3 Discarded Containers | Drums | 200nos/M | |
| | | IBCs | 10nos/M | |
| | | Carboys | 50nos/M | |
| 4 | Cat.no.- 5.1 Spent oil | 0.6 MT/M | | |
| 5 | Cat.no.- 36.1 Sludge from MEE | 0.9MT/M | | |
| 6 | Battery rules,2002: Lead acid batteries | 05Nos/A | | |
| 7 | Cat.no.-5.2 Waste or residue containing oil | 50Kg/M | | |
| 8 | E-waste 2011- e-waste | 30Kg/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

- 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

| | | | | | | |
|-----|--|--------|-----------------|--------------------|-----------------------|----------------------------------|
| 25. | Atmospheric Emissions (Flue gas characteristics SPM, SO ₂ , NO _x , CO, etc.) | Sr. No | Pollutant | Source of Emission | Emission rate (kg/hr) | Concentration in flue gas (Unit) |
| | | | SPM | Boiler 8TPH | 0.6619 | 126 mg/Nm ³ |
| | | | SO ₂ | | 0.2345 | 26.5 ppm |
| | | | NO _x | | | Nil |
| | | | CO | | | Nil |
| | | | Others | | | Nil |
| | | | SPM | Boiler 3TPH | 0.5313 | 124 mg/Nm ³ |
| | | | SO ₂ | | 0.2105 | 19.5 ppm |
| | | | NO _x | | | Nil |
| | | | CO | | | Nil |
| | | | Others | | | Nil |

| | | | | | | | |
|-----|--|---------------------------|---|--------------------------------------|------------------------------------|--|-----------------------------|
| | | | | | | | |
| | | | SPM | DG set | 0.0506 | 106 mg/Nm ³ | |
| | | | SO ₂ | 380 KVA | 0.0173 | 12.8 ppm | |
| | | | NO _x | | | Nil | |
| | | | CO | | | Nil | |
| | | | | | | | |
| | | | SPM | DG set | 0.0529 | 110 mg/Nm ³ | |
| | | | SO ₂ | 380 KVA | 0.0195 | 14.1 ppm | |
| | | | NO _x | | | Nil | |
| | | | CO | | | Nil | |
| 26. | <p>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, D.G. Set, Boiler, Power Plant, incinerator etc. Emission rate (kg/hr.) for each pollutant (SPM, SO₂, NO_x etc. should be specified</p> | Plant Section & units | Stack No. | Height from ground level (m) | Internal Diameter (Top)(m) | Emission Rate Kg/hr | Temp. of Exhaust Gases (°C) |
| | | Boiler 8 TPH (Coal fired) | 1 | 42.0 | 0.950 | SPM:0.6619 SO ₂ :0.2345 NO _x : CO: Others: | 160 |
| | | Boiler 3TPH (Oil Fired) | 2 | 13.0 | 0.550 | SPM:0.5313 SO ₂ :0.2105 NO _x : CO: Others: | 160 |
| | | DG set 380 KVA | 3 | 4.0 | 0.15 | SPM:0.0506 SO ₂ :0.0173 NO _x : CO: Others: | 150 |
| | | DG set 380 KVA | 4 | 4.0 | 0.15 | SPM:0.0529 SO ₂ :0.0195 NO _x : CO: Others: | 150 |
| 27. | Emission Standard | Pollutants | Emission Standard Limit (mg/Nm ³) | Proposed Limit (mg/Nm ³) | MPCB Consent (mg/Nm ³) | | |
| | | SPM/TPM | - | Not to exceed | 150 | | |

| | | | | | | |
|-----|---|---|---|----------------------------------|-----------------------------------|--------------------------|
| 31. | Green Belt Development | <ul style="list-style-type: none"> • Green belt area (Sq. m.): 21.0 • Number and species of trees to be planted: 85 nos • Number, size, age and species of trees to be cut, trees to be transplanted: No tree to Cut | | | | |
| 32 | Details of Pollution Control Systems: | | Sr. No. | | Existing pollution control system | Proposed to be installed |
| | | | 1 | Air | Stack | - |
| | | | 2 | Water | ETP | - |
| | | | 3 | Noise | Acoustic | Acoustic |
| | | | 4 | Solid Waste | Proper storage | Proper storage |
| | | | | | | |
| 33 | Environmental Management plan Budgetary Allocation | <ul style="list-style-type: none"> • Capital cost (With break up): 34.7 Lakhs (Opera+ Const) • O&M cost (With break up): 38.09 Lakhs (Operation) | | | | |
| | | Sr. No. | Description | Recurring Cost in lacs per annum | Capital Cost in lacs | |
| | | 1 | Air Pollution Control | 5.0 | 5.0 | |
| | | 2 | Water Pollution Control | 25.0 | 2.0 | |
| | | 3 | Noise Pollution Control | 0.25 | - | |
| | | 4 | Environment Monitoring and Management | 1.56 | 3.0 | |
| | | 5 | Reclamation borrow/mined area (If applicable) | - | - | |
| | | 6 | Occupational Health | 3.45 | 4.0 | |
| | | 7 | Green Belt | 0.58 | 1.0 | |
| | | 8 | Solid waste management | 2.0 | 5.0 | |
| | | 9 | Rain water harvesting | 0.25 | 2.5 | |
| | | 9 | Others | 0.0 | 10.0 | |
| | | | Total | 38.09 | 32.5 | |
| | | Construction | | | | |
| | | Sr. No. | Description | Recurring Cost per annum | Capital Cost | |
| | | 1 | Dust Suppression during | - | 0.2 | |

| | | | | | |
|-----|--|--|------------------------|--|------|
| | | | costruction | | |
| | | 2 | Green Belt development | - | 0.25 |
| | | 3 | Solid waste management | - | 1.0 |
| | | 4 | Environment Monitoring | - | 0.25 |
| | | 5 | Occupational Health | - | 0.5 |
| | | | Total | | 2.2 |
| 34. | EIA Submitted (If yes then submit the salient features) | <ul style="list-style-type: none"> •Period of data collected | | March 2013 to May 2013 | |
| | | <ul style="list-style-type: none"> •Details of the primary data collection (i.e. location of the sample collection, number of visit, etc) | | | |
| | | <ul style="list-style-type: none"> •Details of the secondary data collection (i.e. Source and year of data) | | India Meteorological Department, Pune National remote sensing centre, Hyderabad Geological Survey of India, Pune (Year- 2011) Directorate of Census Operations, Maharashtra (Year- 2001 & 2011) | |
| 35 | Public hearing report (If public hearing conducted then submit the salient features) | <ul style="list-style-type: none"> •Date of the public hearing | | Not applicable, project site is located in MIDC Mahad. | |
| | | <ul style="list-style-type: none"> •Name of the news paper in which the advertisement appeared (Please attach the copy) | | | |
| | | <ul style="list-style-type: none"> •Location of the public hearing | | | |
| | | <ul style="list-style-type: none"> •Number of people attended the hearing | | | |
| | | <ul style="list-style-type: none"> •Objection(s) / Suggestion(s) if any | | | |
| 36 | Air pollution, water pollution issues in the project area, If any | Not, applicable Proposed project site is located in MIDC Mahad area | | | |

List of Raw Materials

| S. No | Product | Raw Materials | Consumption (MT /M) | Source | Type of Hazard | Transportation | Storage Condition |
|-------|---------------------------|----------------------------|---------------------|------------------------------------|----------------|----------------|-------------------|
| 1 | Amber fleur & Derivatives | Myrcene | 367.60 | Self made/Import / Domestic Market | Flammable | Road ways | Tank |
| 2 | | MPO | 268.80 | Domestic Market | Flammable | Road ways | Tank |
| 3 | | Boron trifluoride etherate | 22.80 | Domestic Market | Corrosive | Road ways | Drum |
| 4 | | Sodium chloride (Salt) | 2.40 | Domestic Market | - | Road ways | Bag |
| 5 | | Antioxidant | 0.80 | Domestic Market | Flammable | Road ways | Bag |
| 6 | | Toluene | 116.0 | Domestic Market | High Flammable | Road ways | Tank |
| 7 | | Phosphoric acid | 42.0 | Domestic Market | Corrosive | Road ways | Tank |
| 8 | | Caustic soda | 4.5 | Domestic Market | Corrosive | Road ways | Bag |
| 9 | | Sodium chloride (Salt) | 1.60 | Domestic Market | -- | Road ways | Bag |
| 10 | Amber gamma | Myrcene | 51.75 | Self made/Import / Domestic Market | Flammable | Road ways | Tank |
| 11 | | MPO | 37.85 | Domestic Market | Flammable | Road ways | Tank |
| 12 | | Boron trifluoride etherate | 3.25 | Domestic Market | Corrosive | Road ways | Drum |
| 13 | | Sodium chloride (Salt) | 0.30 | Domestic Market | - | Road ways | Bag |
| 14 | | Antioxidant | 0.10 | Domestic Market | Flammable | Road ways | Bag |
| 15 | | Toluene | 61.90 | Domestic Market | High Flammable | Road ways | Tank |
| 16 | | Phosphoric acid | 24.25 | Domestic Market | Corrosive | Road ways | Tank |
| 17 | | Caustic soda | 0.11 | Domestic Market | Corrosive | Road ways | Bag |
| 18 | | Salt | 0.05 | Domestic | Flammable | Road ways | Bag |

| | | | | | | | |
|----|--------------------------|------------------|-------|------------------------------------|-----------|-----------|------|
| | | | | Market | le | | |
| 19 | Myrcene 90/Myrcene Supra | Myrcene | 73.55 | Self made/Import / Domestic Market | Flammable | Road ways | Tank |
| 20 | L-Limonene | PCM tops | 100.0 | Self made | Flammable | Road ways | Tank |
| 21 | Aldehyde C 11 | Undecylenic acid | 21.66 | Domestic Market | - | Road ways | Drum |
| 22 | | Formic acid | 11.35 | Domestic Market | Corrosive | Road ways | Drum |
| 23 | | Methanol | 7.56 | Domestic Market | Flammable | Road ways | Tank |
| 24 | | Paraffin | 2.58 | Domestic Market | - | Road ways | Drum |
| 25 | | Catalyst MC | 1.24 | Domestic Market | - | Road ways | Drum |
| 26 | | Soda ash | 0.21 | Domestic Market | Corrosive | Road ways | Bag |
| 27 | | Salt | 1.03 | Domestic Market | - | Road ways | Bag |
| 28 | Citral extra pure | Citral | 30.03 | Domestic Market | Irritant | Road ways | Tank |

List of Products & By-products
Products

| S.N | Product | Category | Qty in MT/M | | |
|-----|---------------------------------|---------------|-------------------|-------------------|----------------|
| | | | Existing Qty MTPM | Proposed Qty MTPM | Total Qty MTPM |
| 1 | Amber Fluer and its derivatives | Aroma Product | 237.0 | 163 | 400.0 |
| 2 | Amber gamma | Aroma Product | 0.0 | 50.0 | 50.0 |
| 3 | Myrcene 90 /Myrcene Supra | Aroma Product | 0.0 | 50 | 50.0 |
| 4 | L-Limonene | Aroma Product | 0.0 | 25.0 | 25.0 |
| 5 | Aldehyde C11 | Aroma Product | 0.0 | 12.0 | 12.0 |
| 6 | Citral extra Pure | Aroma Product | 0.0 | 30.0 | 30.0 |
| 7 | Citronellol | Aroma Product | 10 | 0 | 10 |
| 8 | Geraniol | Aroma Product | 0.5 | 0 | 0.5 |
| 9 | PTBCHA | Aroma Product | 0.5 | 0 | 0.5 |

| | | | | | |
|----|--|---------------|--------------|------------|--------------|
| 10 | Styrallyl Acetate | Aroma Product | 0.5 | 0 | 0.5 |
| 11 | Geranyl nitrile | Aroma Product | 0.5 | 0 | 0.5 |
| 12 | Citronellal Acetate | Aroma Product | 0.4 | 0 | 0.4 |
| 13 | Geranyl Acetate | Aroma Product | 0.5 | 0 | 0.5 |
| 14 | Ionones | Aroma Product | 1 | 0 | 1 |
| 15 | Dihydro Myrcenol | Aroma Product | 1 | 0 | 1 |
| 16 | Alpha Camphenelic Aldehyde Derivatives | Aroma Product | 1 | 0 | 1 |
| 18 | Rose Oxide | Aroma Product | 0.5 | 0 | 0.5 |
| 19 | Indian Sandle Fluer | Aroma Product | 1 | 0 | 1 |
| 20 | Indian Sandle Core | Aroma Product | 9 | 0 | 9 |
| 21 | Indian Sandle Touch | Aroma Product | 0.5 | 0 | 0.5 |
| 22 | GMI, NMI, AI, BI. | Aroma Product | 6 | 0 | 6 |
| | | TOTAL | 269.9 | 330 | 599.9 |

By-Products

| S.No. | Products | By-Products | Existing Quantity (MT/M) | Proposed Quantity (MT/M) | Total Qty in (MT/M) | Utilization |
|-------|-------------------------------------|---|--------------------------|--------------------------|---------------------|---------------------------------------|
| 1. | Amberfleur & Derivatives | Aqueous Fluoboric acid (Fluoroboric acid) | 0.0 | 115.88 | 115.88 | Sale to PCB registered party |
| 2. | | Spent Acid Layer (Spent phosphoric Acid)/Sodium Phosphate | 40.0 | 40.0 | 80.0 | Sale to PCB registered party |
| 3. | | Recovered Toluene | 0.0 | 111.51 | 111.51 | Reuse or Sale to PCB registered party |
| 4. | | Column Tops | 0.0 | 120.41 | 120.41 | Sale to PCB registered party |
| 5. | | Column | 0.0 | 86.50 | 86.50 | Sale to PCB registered party |

| | | | | | | |
|-----|---------------------------------|---|-------|-------|-------|---------------------------------------|
| | | Bottom mass | | | | |
| 6. | Amber Gamma | Aqueous Fluoboric acid (Fluoroboric acid) | 0.0 | 16.30 | 16.30 | Sale to PCB registered party |
| 7. | | Spent Acid Layer (Spent phosphoric acid)/Sodium Phosphate | 0.0 | 24.30 | 24.30 | Sale to PCB registered party |
| 8. | | Recovered Toluene | 0.0 | 60.15 | 60.15 | Reuse or Sale to PCB registered party |
| 9. | | Column Tops | 0.0 | 20.25 | 20.25 | Sale to PCB registered party |
| 10. | | Column Bottom mass | 0.0 | 15.65 | 15.65 | Sale to PCB registered party |
| 11. | Myrcene 90/Myrcene Supra | Column Tops | 0.0 | 13.8 | 13.8 | Sale to PCB registered party |
| 12. | | Column Bottom mass | 0.0 | 8.30 | 8.30 | Sale to PCB registered party |
| 13. | L-Limonene | Column Tops | 0.0 | 61.6 | 61.6 | Sale to PCB registered party |
| 14. | | Column Bottom mass | 0.0 | 11.50 | 11.50 | Sale to PCB registered part |
| | Aldehyde C11 | Column tops | 0.0 | 1.8 | 1.8 | sale to PCB registered party |
| | | Column bottom mass | 0.0 | 6.7 | 6.7 | sale to PCB registered party |
| | | Reaction bottom mass | 0.0 | 4.0 | 4.0 | sale to PCB registered party |
| 1. | Existing Byproducts | Rose Dial | 2.2 | 0.0 | 2.2 | Sale to PCB registered party |
| 2. | | Spent Sulphuric Acid | 475.0 | 0.0 | 475.0 | Sale to PCB registered party |
| 3 | | Tops and Residues | 20.0 | 0.0 | 20. | 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 :

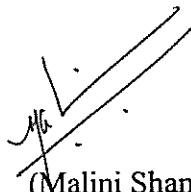
General Conditions for Pre- construction phase:-

- (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, SO₂, NO_x (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)



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MAHARASHTRA POLLUTION CONTROL BOARD

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



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

RED/LSI

Consent order No: MPCB/AST/ UAN No.-0000045117/CC- 0659

Date-17/05/2019

To,
M/s. Privi Organics India Ltd. (Unit I)
Plot No-A-7, MIDC Mahad,
Dist-Raigad-402309

- Sub : Amendment in Consent to Operate for Change in Product Mix.
Ref: 1. Consent to operate granted vide no. BO/ AS(T)/EIC No.-RD-3113-15/E/CC-2638 dtd. 23.02.2016 which is valid up to 31.08.2020.
2. Environmental clearance granted by Env. Dept. GoM vide letter SEAC-2013/CR-242/TC-2 dtd. 08/10/2015
3. Your Application: - MPCB-CONSENT-0000045117 dtd. 19.03.2018.
4. Minutes of the 5th Technical Committee Meeting for Change in Product Mix dtd. 17.01.2019.
5. Minutes of the 14th Consent Committee Meeting held dtd. 29.03.2019.

For Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

- The consent is granted for period from 31/08/2020.
- The actual capital investment of the industry is 55.63 Cr. (As per C.A Certificate and letter submitted by industry)
- Consent is valid for the manufacture of -

| Sr. No. | Product Name | Maximum Quantity | UOM |
|---------|--|------------------|------|
| 1. | Citronellol | 5 | MT/M |
| 2. | Styrallyl Acetate | 0.5 | MT/M |
| 3. | Citronellal Acetate | 0.5 | MT/M |
| 4. | Geranyl Acetate | 0.5 | MT/M |
| 5. | Dihydro Myrcenol | 1.0 | MT/M |
| 6. | Alpha Camphenelic Aldehyde Derivaties | 1.0 | MT/M |
| 7. | Amber Fluer and its derivatives Like Amber gamma, Cedarketol | 470 | MT/M |
| 8. | Rose Oxide | 0.5 | MT/M |
| 9. | Indian Sandle Flure | 1.0 | MT/M |
| 10. | Indian Sandle Core | 25 | MT/M |
| 11. | Indian Sandle Touch | 0.5 | MT/M |
| 12. | Ionones -Gamma Methyl Ionone (GMI), Normal Methyl Ionone (NMI), Alpha Ionone (AI) & Ionone 100%, Beta Ionone (BI) Technical / PG | 3.0 | MT/M |
| 13. | Geraniol/ Nerol Extra Pure | 0.5 | MT/M |
| 14. | Para-Tertiary Butyl Cyclohexyl Acetate (PTBCHA) | 0.5 | MT/M |
| 15. | Myrcene 90/Myrcene Supra | 33 | MT/M |
| 16. | L-Limonene | 25 | MT/M |

Privi

| | | | |
|-----|-------------------|--------------|-------------|
| 17. | Citral Extra Pure | 20 | MT/M |
| 18. | Aldehyde C11 | 12 | MT/M |
| | Total | 599.9 | MT/M |

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

| Sr. no. | Description | Permitted quantity of discharge (CMD) | Standards to be achieved | Disposal |
|---------|-------------------|---------------------------------------|--------------------------|---|
| 1. | Trade effluent | 112.24 | As per Schedule-I | To Common ETP of sister plant at A-3, MIDC Mahad for treatment. |
| 2. | Domestic effluent | 10.00 | As per Schedule-I | |

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

| Sr. no. | Description of stack / source | Number of Stack | Standards to be achieved |
|---------|-------------------------------|-----------------|--------------------------|
| 1 | Boiler-I (3 TPH) | 1 | As per Schedule -II |
| 2 | DG Set-I (380 KVA) | 1 | As per Schedule -II |
| 3 | DG Set-II(380 KVA) | 1 | As per Schedule -II |

6. Conditions about Non Hazardous Wastes:

| Sr. No. | Type Of Waste | Quantity & UoM | Treatment | Disposal |
|---------|--|----------------|-------------------------|----------------|
| 1 | Insulation Material | 650.00 Kg/A | --- | Sale |
| 2 | MS Scrap | 15.50 MT/M | --- | Sale |
| 3 | Other waste (Wood, paper, glass, decontaminated plastic) | 4.20 MT/M | --- | Sale |
| 4 | Boiler Ash | 4.50 MT/D | --- | Sale/landfill |
| 5 | Canteen waste | 15 Kg/D | Composting/vermiculture | Used as manure |

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

| Sr. No | Type Of Waste | Category | Quantity & UoM | Treatment | Disposal |
|--------|---|----------|----------------|-----------------|--|
| 1. | Spent Oil | 5.1 | 0.6 MT/M | --- | Sale to authorized reprocessor |
| 2. | Waste contaminated with oil (Cotton/gasketts) | 5.2 | 50 Kg/M | --- | CHWTSDF |
| 3. | Residues & Hydrocarbon | 20.1 | 0.72 MT/M | --- | Sale to authorized party/ CHWTSDF |
| 4. | Discarded containers / barrels / liners | 33.3 | 260 Nos/M | Decontamination | Sale to authorized party after decontamination |
| 5. | Chemical sludge from waste water treatment | 34.3 | 10 MT/M | -- | CHWTSDF |
| 6. | Sludge from concentration technique (MEE) | 36.1 | 0.9 MT/M | --- | CHWTSDF or sale to authorized party |
| 7. | E waste | -- | 30 KG/M | -- | Sale to authorized party |
| 8. | Lead acid batteries | -- | 5 Nos/A | --- | Sale to authorized party |
| 9. | Citronellol Column Tops / Light ends | 36.1 | 0.15 MT/M | --- | Sale to authorized party* / CHWTSDF |

| | | | | | |
|-----|---|------|-------------|-----|---|
| 10. | Citronellol Column Bottom Mass | 36.1 | 0.07 MT/M | --- | Recycle/Reuse into the process/ Sale to authorized party* / CHWTSDF |
| 11. | Styrallyl acetate Column Tops / Light ends | 36.1 | 0.02 MT/M | --- | |
| 12. | Styrallyl acetate Column Bottom Mass | 36.1 | 0.03 MT/M | --- | |
| 13. | Citronellol acetate Column Tops / Light ends | 36.1 | 0.02 MT/M | --- | |
| 14. | Citronellol acetate Column Bottom Mass | 36.1 | 0.02 MT/M | --- | |
| 15. | Geranyl /Neryl Acetate Column Tops / Light ends | 36.1 | 0.02 MT/M | --- | |
| 16. | Geranyl /Neryl Acetate Column Bottom Mass | 36.1 | 0.03 MT/M | --- | |
| 17. | Dilute Sulphuric acid (30-40 %) | 36.1 | 2.61 MT/M | --- | |
| 18. | DHMOL Column Tops / Light ends | 36.1 | 0.16 MT/M | --- | |
| 19. | DHMOL Column Bottom Mass | 36.1 | 0.08 MT/M | --- | |
| 20. | Alpha Camphenelic Aldehyde Column Tops | 36.1 | 0.07 MT/M | --- | |
| 21. | Alpha Camphenelic Aldehyde Column Bottom Mass | 36.1 | 0.12 MT/M | --- | |
| 22. | Aqueous Fluoroboric acid (Fluoroboric acid) | 36.1 | 94.94 MT/M | --- | |
| 23. | Spent Phosphoric acid Layer/Sodium Phosphate | 36.1 | 125.02 MT/M | --- | |
| 24. | Sodium Phosphate wet | 36.1 | 54.52 MT/M | --- | |
| 25. | Sodium Phosphate Solution | 36.1 | 152.28 MT/M | --- | |
| 26. | Recovered Toluene | 36.1 | 53.11 MT/M | --- | |
| 27. | Amberfleur / Amber gamma Column Tops/ PCM Tops / Light ends | 36.1 | 159.33 MT/M | --- | |
| 28. | Amberfleur / Amber gamma Column Bottom Mass | 36.1 | 101.99 MT/M | --- | |
| 29. | Rose Oxide Column Tops / Light ends | 36.1 | 0.04 MT/M | --- | |
| 30. | Rose Oxide Column Bottom Mass | 36.1 | 0.11 MT/M | --- | |
| 31. | Catalyst A recovered (recycled) (Dibutylamine) | 36.1 | 0.09 MT/M | --- | |
| 32. | Recovered cyclohexane | 36.1 | 0.24 MT/M | --- | |
| 33. | Indian sandal Fleur Column Tops / Light ends | 36.1 | 0.41 MT/M | --- | |
| 34. | Indian sandal Fleur Column Bottom Mass | 36.1 | 0.26 MT/M | --- | |

| | | | | | |
|-----|--|------|-------------|-----|---|
| 35. | Recovered Methanol | 36.1 | 1.08 MT/M | --- | Recycle/Reuse into the process/ Sale to authorized party* / CHWTSDF |
| 36. | Sodium acetate Solution | 36.1 | 0.69 MT/M | --- | |
| 37. | Sodium acetate Solution | 36.1 | 14.83 MT/M | --- | |
| 38. | Catalyst A recovered (recycled) (Dibutylamine) | 36.1 | 2.33 MT/M | --- | |
| 39. | Recovered cyclohexane | 36.1 | 8.48 MT/M | --- | |
| 40. | Recovered Methanol | 36.1 | 26.88 MT/M | --- | |
| 41. | Indian sandal Core Column Tops / Light ends | 36.1 | 9.4 MT/M | --- | |
| 42. | Indian sandal Core Column Bottom Mass | 36.1 | 5.83 MT/M | --- | |
| 43. | Indian sandal Touch Column Tops / Light ends | 36.1 | 0.10 MT/M | --- | |
| 44. | Indian sandal Touch Column Bottom Mass | 36.1 | 0.14 MT/M | --- | |
| 45. | Gamma Methyl Ionone Column Tops / Light ends | 36.1 | 0.24 MT/M | --- | |
| 46. | Gamma Methyl Ionone Column Bottom Mass | 36.1 | 0.45 MT/M | --- | |
| 47. | Normal Methyl Ionone Column Tops / Light ends | 36.1 | 0.26 MT/M | --- | |
| 48. | Normal Methyl Ionone Column Bottom Mass | 36.1 | 0.35 MT/M | --- | |
| 49. | A-Ionone Column Tops / Light ends | 36.1 | 0.10 MT/M | --- | |
| 50. | A-Ionone Column Bottom Mass | 36.1 | 0.17 MT/M | --- | |
| 51. | Dilute Sulphuric acid | 36.1 | 7.67 MT/M | --- | |
| 52. | Recovered Toluene | 36.1 | 0.92 MT/M | --- | |
| 53. | B-Ionone Column Tops / Light ends | 36.1 | 0.14 MT/M | --- | |
| 54. | B-Ionone Column Bottom Mass | 36.1 | 0.21 MT/M | --- | |
| 55. | Geraniol/Nerol Column Tops / Light ends | 36.1 | 0.01 MT/M | --- | |
| 56. | Geraniol/Nerol Column Bottom Mass | 36.1 | 0.01 MT/M | --- | |
| 57. | PTBCHA Column Tops / Light ends | 36.1 | 0.04 MT/M | --- | |
| 58. | PTBCHA Column Bottom Mass | 36.1 | 0.0115 MT/M | --- | |
| 59. | Myrcene/Supra Column Tops / Light ends | 36.1 | 9.108 MT/M | --- | |
| 60. | Myrcene/Supra Column Bottom Mass | 36.1 | 5.478 MT/M | --- | |
| 61. | Limonene Column Tops / Light ends | 36.1 | 61.6 MT/M | --- | |

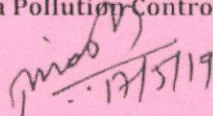
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| | | | | | |
|-----|---------------------------------------|------|------------|-----|---|
| 62. | Limonene Column Bottom Mass | 36.1 | 11.5 MT/M | --- | Recycle/Reuse into the process/ Sale to authorized party* / CHWTSDF |
| 63. | Aldehyde C11 Column Tops / Light ends | 36.1 | 1.752 MT/M | --- | |
| 64. | Aldehyde C11 Column Bottom Mass | 36.1 | 6.672 MT/M | --- | |
| 65. | Aldehyde C11 Reaction Bottom mass | 36.1 | 4.02 MT/M | --- | |
| 66. | Dilute Sulphuric acid | 36.1 | 155 MT/M | --- | |
| 67. | Tops & Residue | 36.1 | 20 MT/M | --- | |

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

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
10. The consent is issued in accordance with MoEF, GoI Circular dtd. 14.12.2006 stating that in case of change in product mix, changes in the quantities or the number of products may be allowed without EC by the concerned SPCB provided such changes in the quantities of product are in the same category and are within the previously granted overall total limit.
11. This consent is granted as per "No increase in Pollution Load" Certificate issued by M/s. Institute of Chemical Technology, dtd. 14.12.2018 and the product wise water, effluent and residue details due to change in product submitted by the industry.
12. Industry, by-product generator, should ensure that all the vehicles used to transport by-products to the vendor industry to be fitted with web based GPS system to record the origin to destination position and shall self-monitor the compliance and submit monthly report to the Board.
13. Industry shall obtain affidavit from vendors stating that the by-products purchased from PP is used as raw materials in their respective industries.
14. This amendment in consent is issued with overriding effect on earlier consent to operate granted by the board vide no. MPCB/AST/ UAN No.-0000045117/CC- 1905001263 dtd. 17.05.2019 which is valid up to 31.08.2020.
15. Industry shall comply the conditions prescribed in environmental clearance granted by Env. Dept. GoM vide letter SEAC-2013/CR-242/TC-2 dtd. 08/10/2015.
16. This consent is issued pursuant to the decision of the Technical committee formed for Product Mix dtd. 17.01.2019 and 14th Consent Committee meeting held on 29.03.2019.

For and on behalf of the
Maharashtra Pollution Control Board


(P. K. Mirashe)
Member Secretary

Received Consent fee of -

| Sr. No. | Amount(Rs.) | DD. No. | Date | Drawn On |
|---------|-------------|------------------|------------|-----------|
| 1 | 1,50,000/- | N099180516073360 | 09.04.2018 | HDFC Bank |

Copy to:

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

Schedule-I
Terms & conditions for compliance of Water Pollution Control:

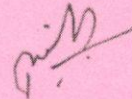
- 1) A] As per your application, you have installed Effluent Treatment Plant (ETP) common for trade & sewage effluent with design capacity of 300 CMD. ETP comprising Primary, Secondary and Tertiary treatment facility followed by RO and MEE is installed in unit-III located at Plot No. A-3.
- B] The Applicant 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) |
|--------|--------------------------|---|
| | I. Compulsory Parameters | Limiting Concentration in mg/l, except for pH |
| 01 | pH | 5.5 to 9.0 |
| 02 | BOD 3days 27 deg.C | 100 mg/l |
| 03 | COD | 250 mg/l |
| 04 | Oil & Grease | 10 mg/l |
| 05 | Suspended Solids | 100 mg/l |
| 06 | Total Dissolved Solids | 2100 mg/l |
| 07 | Sulphate | 1000 mg/l |
| 08 | Chlorides | 600 mg/l |
| 09 | % Sodium | 60% |
| 10 | Phenolic compound | 5.0 mg/l |
| 11 | Total Amonical Nitrogen | 50 mg/l |
| 12 | Mercury | 0.01 mg/l |
| 13 | Arsenic | 0.20 mg/l |
| 14 | Chromium(Cr+6) | 0.10 mg/l |
| 15 | Lead | 0.10 mg/l |
| 16 | Cyanide | 0.10 mg/l |
| 17 | Phenoliocs | 1.00 mg/l |
| 18 | Sulphides | 2.00 mg/l |
| 19 | Phosphate | 5.00 mg/l |

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

Total 122.24 CMD of effluent generated from Unit-I (Plot No. A-7) shall send to further treatment and dispose to Common ETP at sister plant Unit-III (A-3). There shall be no discharge outside industry premises.

- 2) A] As per your application, you are treating the sewage in existing ETP with the design capacity of 300 CMD.
- 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 an extension or addition thereto.
- 4) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
- 5) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters 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 | 219.65 |
| 2. | Domestic purpose | 12.50 |
| 3. | Processing whereby water gets polluted & pollutants are easily biodegradable | 88.82 |
| 4. | Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic | --- |

- 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.

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Schedule-II
Terms & conditions for compliance of Air Pollution Control:

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

| Sr. No. | Stack Attached To | APC System | Height in Mtrs. | Type of Fuel | Quantity & UoM | S % | SO ₂ Kg/Day |
|---------|--------------------|---------------------|-----------------|--------------|------------------|-----|------------------------|
| 1 | Boiler -I (3 TPH) | --- | 32.00 | FO/Bio Fuel | 4.4 KL/D/1.5 KLD | 4.5 | 396 |
| 2 | D.G. Set (380 KVA) | Acoustic enclosures | 4.0* | HSD | 100 Lit/Hr | --- | --- |
| 3 | D.G. Set (380 KVA) | Acoustic enclosures | 4.0* | HSD | 100 Lit/Hr | --- | --- |

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

(Coal fired 8 TPH capacity boiler installed in M/s. Privi Organics India Ltd. Unit-III at Plot No. A-3 is used for steam requirement for manufacturing activities)

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. (Concern section shall mention specific control equipments)
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:

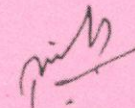
| | | |
|---------------------------|---------------|--------------------------|
| TPM | Not to exceed | 150 mg/Nm ³ . |
| NO _x (Process) | Not to exceed | 50 ppm |
| Acid Mist/HCL | Not to exceed | 35 mg/Nm ³ |

4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement 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
Bank Gurantee

| 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 | 5.0 lakh | 1Month | Towards Operation & Maintenance of Pollution control systems | 31/08/2020 | 31/12/2020 |

- Above Bank Guarantee shall be submitted at MPCB Regional Office, Raigad within one month's period.

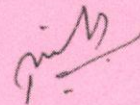


Schedule-IV
General Conditions:

- 1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) If the MIDC pipeline is broken/ overflowing chamber, in such cases industry shall not discharge their treated effluent into MIDC drain, it shall be sent to CETP by tanker.
- 3) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 4) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 5) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
- 6) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- 7) The firm shall submit to this office, the 30th day of September every year , the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- 8) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW(MH&TM) Rules 2008, which can be recycled
- 9) /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.
- 10) The industry should comply with the Hazardous Waste (M, H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazardous Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 11) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 12) The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before actual commencement of the Unit/ Activity (in case of Consent to establish).
- 13) **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent (in case of Renewal of consent).**
- 14) 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).
- 15) 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.
- 16) **Conditions for D.G. Set :-**
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.

- c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel.
- 17) 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.
- 18) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 19) 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.
- 20) The industry should not cause any nuisance in surrounding area.
- 21) 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.
- 22) The applicant shall maintain good housekeeping.
- 23) 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.
- 24) 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.
- 25) 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.
- 26) 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.
- 27) The industry shall submit quarterly statement in respect of industries' obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can be downloaded from MPCB official site).
- 28) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 29) 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

| Compliance Report | | |
|---|--|---|
| SEAC-2013/CR-242/TC-2 dated 08.10.2015 | | Reporting Date:01.06.2020 |
| <i>Environmental clearance compliance Report for proposed aroma chemical production capacity in Unit-I on plot No.:A-07,MIDC area, Mahad, Dist. :Raigad, by M/s Privi Organics India Ltd.</i> | | |
| 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=6525 sq.mt. Area used= 6492 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. Internal roads are RCC& there is no dust generation on roads. RM in Powder form was utilizing in very small quantity and hence there are no any fugitive emissions from process. |
| III. | Regular monitoring of air quality, including SPM & SO ₂ both in working zone and ambient air shall be carried out in and around power plant and records shall be maintained. The location of the monitoring station and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB. | The location and frequency of AAQ monitoring was decided in consultation with MPCB. AAQ Monitoring at 3 Nos. locations and monitoring frequency Quarterly <ol style="list-style-type: none"> 1. Near Main Gate 2. Center of Plot near N₂ Plant North side 3. Near UG Solvent Storage area Avg. Concentration in Mar-2020 was- PM _{2.5} -29.18 µg/m ³ as per NAAQ stds. 2009 is 60 µg/m ³ PM ₁₀ -69.81 µg/m ³ as per NAAQ stds. 2009 is 100 µg/m ³ SO ₂ - 17.1 µg/m ³ as per NAAQ stds. 2009 is 80 µg/m ³ Work Zone monitoring done at 2 locations i.e. at 1) Blending Area-Ground floor2) Main Plant ground floor and frequency of monitoring is once in a six month. |
| IV. | Necessary arrangement shall be made to safety & ventilation arrangement in furnace area. | Not applicable. |
| V. | Proper Housekeeping programmes shall be implemented. | Housekeeping maintaining at shop floor and daily checklist is maintained and implemented, attached daily check list. Annexure I |
| VI. | In event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall be restart the until desired efficiency has been achieve. | Preventive maintenance of Pollution Control system (ETP, STP, DG set-acoustic enclosure) conducting on quarterly basis, Calibration of measurement devices/equipment conducting once in a six month. Power Back provision made for PCS by DG power. Daily monitoring efficiency of PCS. Preventive schedule attached as Annexure.-II |
| VII. | A stack of adequate height is based | DG set stacks 4Mtr above the roof of building in which |


| | | |
|-------|---|--|
| | on DG set capacity shall be provided for control and dispersion of pollution from DG set. (If applicable) | DG set is installed provided as per MPCB Consent conditions and acoustic enclosure provided to control noise. DG stacks monitoring on quarterly. Consent Copy attached Average Concentration- PM- 57.5 mg/nm ³ , Consent Limit 150 mg/nm ³ So ₂ - 0.74 kg/day, Consent Limit 7.4 kg/day |
| VIII. | A detailed scheme of rainwater harvesting shall be prepared and implemented to recharge ground water. | 0 M ³ as there is no Rain during Dec-19 to May-20. |
| IX. | Arrangement shall be made for effluent and storm water does not get mix. | Separate storm and effluent drainage are provided. No mixing of both drains at any place. |
| X. | Periodic monitoring of ground water shall be undertaken, and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board. | Water requirement is supplied by MIDC through Pipeline; there is no ground water abstracted. |
| XI. | Noise level shall be maintained as per standard. For people working in the high noise area requisite personal Protective equipment like earplug etc shall be provided. | Identified high noise area DG, Compressors Acoustic enclosure provided to DG sets and silencer provided at high noise equipment's, displayed signage, earmuff and plug provided & made mandatory to employees working in high noise area. Monitoring done on quarterly and observed average value 65.3 dB(A) daytime and 64.7 dB(A) nighttime (Monitoring done in month Feb-2020). |
| XII. | The overall noise level in and around the plant are shall be kept in well with in the standards by providing noise control measures including acoustic hoods, silencers, enclose, etc. on all sources of noise generation the ambient noise level shall be conform to standers prescribed under Environment (Protection) Act , 1986 Rules, 1989. | Acoustic enclosure provided to DG sets and silencer & enclosures provided at high noise area. DG Noise level monitoring on quarterly. Ambient Noise levels monitored at 10 locations and observed average levels are 65.05 dBA at nighttime, 67.87 dBA at daytime, which conform standards prescribed under Environment (Protection) Act, 1986 Rules, 1989. (Monitoring done in month Feb-2020). |

| | | Sr. No. | Test Location | Results | | Unit |
|-------|---|--|---------------------|---|---|-------|
| | | | | Daytime 06:00 am. to 10:00 pm. | Night Time 10:00 pm. to 06:00 am. | |
| | | 01 | BSR | 68.4 | 65.4 | dB(A) |
| | | 02 | Main Plant | 62.8 | 60.2 | dB(A) |
| | | 03 | UTILITY AREA | 71.6 | 65.9 | dB(A) |
| | | 04 | Tower & ISC plant | 72.4 | 67.8 | dB(A) |
| | | 05 | DG Area | 65.3 | 64.7 | dB(A) |
| | | 06 | AF plant area | 69.1 | 64.4 | dB(A) |
| | | 07 | Garbage area | 68.8 | 67.8 | dB(A) |
| | | 08 | Near Main gate | 62.4 | 60.4 | dB(A) |
| | | 09 | Near N2 Plant north | 70.6 | 68.1 | dB(A) |
| | | 10 | Solvent Tank farm | 67.3 | 65.8 | dB(A) |
| XIII. | Green belt shall be developed and maintain around the plant periphery. Green belt Development shall be carried out considering CPCB guideline including selection pf plant species and consultation with local DFO/ Agriculture Dept. | <p>Green belt developed in and around plot premises and plant species selected in consultation with Agriculture Dept.</p> <ul style="list-style-type: none"> • Green Belt developed Within Premises- 149 sq. mtr. % of green belt- 2.3 % • Green Belt developed outside plot within MIDC-51577 sq. mtr.% of green belt- 66 %. It includes our Unit I, II&III.  | | | | |
| XIV. | Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak direction shall also be installed at strategic place for early direction and warning. | <ul style="list-style-type: none"> • All Electrical Fittings – FLP confirming to Class C • Operations are controlled through DCS- with inbuilt safety interlocks. • 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. <p>List attached as below;</p> | | | | |

| | | MCP | Location |
|-------|--|---|-----------------------|
| | | 1 | RM store |
| | | 2 | BSR |
| | | 3 | Tank farm |
| | | 4 | Main pl.first Floor |
| | | 5 | Tower Pl. Forth floor |
| | | 6 | AF pl first floor |
| | | 7 | AF pl 23 mtr |
| | | 8 | Myrcene tank farm |
| | | 9 | Spare |
| | | 10 | RM store |
| | | SD /HD | Location |
| | | 1 | RM stores |
| | | 2 | Engg stores |
| | | 3 | QC lab |
| | | 4 | ACB room |
| | | 5 | PCC |
| | | 6 | DG |
| | | 7 | Main pl MCC |
| | | 8 | Main pl MCC |
| | | 9 | Tower MCC |
| | | 10 | AF pl MCC |
| | | 11 | Ionone pl MCC |
| | | 12 | Ionone pl MCC |
| | | 13 | AF control room |
| | | 14 | Office-1 |
| | | 15 | Office-2 |
| | | 16 | Excise Office |
| XV. | Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per Factories Act. | Annual health checkup of employee conducted in the month of Jan-2020 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. | <ul style="list-style-type: none"> • All process SOP developed, implemented, and trained employee. • Adequate vent, flame arrester provided to solvent storage tanks. • Earthling and boding provided. • Earth integrity system provided at solvent tanker unloading area. • Early Detection system- LEL detector, Smoke and heat detectors provided at respective locations. • Material Compatibility maintained during storage. | |
| XVII. | 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 | Obtained authorization from MPCB for Air, water & hazardous waste generation & disposal. MPCB Consent No. MPCB/AST/UAN No. 0000045117/cc-0659 valid up to 31.08.2020. Complied consent conditions in accordance hazardous waste handling and disposal. Annual Return (Hazardous Waste) Form 4 submitted on 22.06.2019. | |

| | MPCB shall be obtain for collection/treatment/storage/disposal of hazardous wastes. | <p>Hazardous waste Disposal Membership (No. MWML-HzW-MHD-409- Validity up to 31.03.2020). HW Disposed during period Dec-19 to May 2020 is as below;</p> <table border="1" data-bbox="794 304 1503 689"> <thead> <tr> <th>Cat No</th> <th>Disposed Qty. in MT</th> <th>Consented Qty MT/A</th> <th>Disposal</th> </tr> </thead> <tbody> <tr> <td>35.3</td> <td>33.97</td> <td>120</td> <td>CHWTSDF</td> </tr> <tr> <td>5.2</td> <td>0.2</td> <td>0.6</td> <td>CHWTSDF</td> </tr> <tr> <td>37.3</td> <td>9.35</td> <td>10.8</td> <td>CHWTSDF</td> </tr> <tr> <td>36.1</td> <td>585.28</td> <td>3558.6</td> <td>Recycle/Reuse into process/sale to authorized party/CHWTSDF Disposal</td> </tr> </tbody> </table> | Cat No | Disposed Qty. in MT | Consented Qty MT/A | Disposal | 35.3 | 33.97 | 120 | CHWTSDF | 5.2 | 0.2 | 0.6 | CHWTSDF | 37.3 | 9.35 | 10.8 | CHWTSDF | 36.1 | 585.28 | 3558.6 | Recycle/Reuse into process/sale to authorized party/CHWTSDF Disposal |
|--------|--|--|--|---------------------|--------------------|----------|------|-------|-----|---------|-----|-----|-----|---------|------|------|------|---------|------|--------|--------|--|
| Cat No | Disposed Qty. in MT | Consented Qty MT/A | Disposal | | | | | | | | | | | | | | | | | | | |
| 35.3 | 33.97 | 120 | CHWTSDF | | | | | | | | | | | | | | | | | | | |
| 5.2 | 0.2 | 0.6 | CHWTSDF | | | | | | | | | | | | | | | | | | | |
| 37.3 | 9.35 | 10.8 | CHWTSDF | | | | | | | | | | | | | | | | | | | |
| 36.1 | 585.28 | 3558.6 | Recycle/Reuse into process/sale to authorized party/CHWTSDF Disposal | | | | | | | | | | | | | | | | | | | |
| KVIII. | <p>The company shall undertake following Waste Minimization Measures:</p> <ul style="list-style-type: none"> • 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. | <ul style="list-style-type: none"> • 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. • Process & distillation residue are sold to MPCB Authorized agency in order to convert it into product form. | | | | | | | | | | | | | | | | | | | | |
| 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. | Mock drills conducting on quarterly basis. From Dec-19 to May-20: 1 Nos. of mock drill conducted, and compliance report submitted to DISH. Mock drill conducted on dated 20.03.2020. | | | | | | | | | | | | | | | | | | | | |
| XX. | A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards. | <p>Separate environmental cell developed having well equipped laboratory to carry out the environmental management and monitoring function</p> <p>An environment management Cell is responsible for implementation of EMP</p> <p>The Composition of the Environment Management Cell and responsibilities of various member are given below</p> <p>Environment Staff:Executive, Officer, Operators Total = 15 Nos.</p> | | | | | | | | | | | | | | | | | | | | |

| | | Sr. No. | Designation | Responsibility |
|--------|--|---|--------------|---|
| | | 1 | GM EHS. | Overall responsibility for Environmental Issue of the plant, Environment policy and direction |
| | | 2 | EHS. Manager | Daily monitoring of ETP operation and environmental control system connected to EHS discipline. Ensure the legal compliance communicated to regulatory authority. |
| | | 3 | EHS officer | Overall in charge 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 undertaking activities as laid down by various regulatory agencies from time to time and arranging awareness program among the worker |
| XXI. | Transportation of ash will be through closed container and all measure should be taken to prevent spillage of the ash. | No ash generated from this unit. | | |
| XXII. | Separate silos will be provided for collection and storing bottom ash & fly ash. | Not applicable. | | |
| XXIII. | Separate funds shall be allocated for implementation of environmental protection measures/ EMP along with item wise breaks up. This cost shall be included as a part of the project cost. The funds earmarked for the environmental protection measures shall not be diverted for other purpose and year wise expenditure should reported to the MPCB & this department. | Yes. Separate funds of Rs. 63.0 Lacks are Earmarked for the EMP. Refer Annexure: III. | | |
| XXIV. | The project management shall advertise at least in two local news papers widely circulated in the region of the project, one of which shall be in Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies | EC obtained advertisement published in Local Marathi newspaper Dainik Sagar on 24.10.2015 and in national English newspaper Indian Express on 24.10.2015. | | |

| | | |
|---------|---|--|
| | if clearance letter are available with Maharashtra Pollution Control Board and may also be seen at Website http://ec.maharashtra.gov.in | |
| 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 1 st June & 1 st December of each calendar year. | Last half yearly compliance report submitted to MPCB and RO, MoEF, Nagpur on 01.12.2019 for period June -2019 to Nov-2019. |
| XXVI. | A copy of the clearance letter shall be send by proponent to the concerned municipal corporation and the local NGO, if any, from whom suggestion / representation, if any were received while processing the proposal. The clearance letter shall also put on the Website of the company by the proponent. | EC copy submitted to MPCB, DISH, MIDC, Local NGO and 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 sector 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. | <ul style="list-style-type: none"> • 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.  |
| XXVIII. | The project proponent shall also submit six monthly report on the status of compliance of the stipulated EC conditions including results of monitoring data (both in hard copies as well as by e- mail) to the respectively Zonal officer of CPCB and SPCB. | Six monthly report on the status of compliance of the stipulated EC conditions including result of monitoring data submitted to MPCB. |
| XXIX. | The environmental statement for | Environmental Statement (Form V) for year 2019-20 |

| | | |
|------|--|---|
| | <p>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.</p> | <p>submitted online on MPCB web portal on 26.09.2019.</p> |
| XXX. | <p>The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project Proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Honorable court will be binding on the project Proponent. Hence this clearance does not give immunity to the project Proponent in the case filed against him.</p> | <p>Not Applicable.</p> |

PRIVI ORGANICS INDIA LIMITED UNIT-I

PREVENTIVE MAINTENANCE PLAN FOR ELECTRICAL EQUIPMENT OF ETP & DG SET {Dec-2019-May 2020}

| S.N. | TAG.NO. | PLANT | Equipment | Frequency |
|------|---------|---------|--------------------|-----------|
| 1 | DG-1 | Utility | Diesel Generator-1 | Monthly |
| 2 | PETP-1 | ETP | PETP Inlet pump-A | Monthly |
| 3 | DG-2 | Utility | Diesel Generator-2 | Monthly |
| 4 | PETP-2 | ETP | PETP Inlet pump-B | Monthly |
| 5 | PETP-3 | ETP | PETP outlet pump-A | Monthly |
| 6 | PETP-4 | ETP | PETP outlet pump-B | Monthly |
| 7 | PETP-5 | ETP | Domestic tank pump | Monthly |

PRIVI ORGANICS INDIA LIMITED UNIT I

Prevaptive Maintenance schedule

| S.N. | Eqipment | Tag no. | Frequency |
|------|----------------------|---------|-----------|
| 1 | PETP inlet pump – A | ETP—1 | Quarterly |
| 2 | PETP inlet pump – B | ETP—2 | Quarterly |
| 3 | PETP outlet pump – A | ETP—3 | Quarterly |
| 4 | PETP outlet pump – B | ETP—4 | Quarterly |
| 5 | Domestic tank pump | ETP—5 | Quarterly |
| 6 | PETP Air Blower | ETP—AB | Quarterly |

ANNEXURE-III

Privi Organics India Ltd, Unit-I

Details of Funds for Environment Protection

| Sr. No. | Pollution Control Measures | Capital Cost Per Annum (Lac) |
|--------------|---|------------------------------|
| 1 | Green Belt development | 0.5 |
| 2 | Solid waste management | 3.0 |
| 3 | Environment Monitoring (Monitoring charges for air, water, noise) | 2.0 |
| 4 | Occupational Health & Hygiene (Includes cost of medical checkup, PPE & first aid kit and PPE, first aid facility, safe drinking water plant & sanitation measures, EHS training and Awareness Programme) | 6.5 |
| 5 | Air Pollution Control Measures | 0.5 |
| 6 | Water Pollution Control Measures | 40 |
| 7 | Rain Water Harvesting | 0.5 |
| 8 | CSR /CER Activity | 10 |
| Total | | 63.0 |

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ISO 9001: 2015 and OHSAS 18001: 2007 Certified Company

ENalyze*

Ambient Air Quality Monitoring Report REPORT No. AB/POL/12/2019-20/619

| | | |
|---|---|--|
| Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-I) Plot No.A-07, MIDC Mahad Dist-Raigad-402309, Maharashtra, India | Sample Code | AB/POL/12/2019-20/619 |
| | Sample Location | (A4) Near Main Gate |
| | Sample Collected By | Aavanira Biotech Pvt. Ltd., |
| | Sample type | Ambient Air |
| | Method of Sampling | As per IS : 5182 Part 1 (2006) |
| | Date of Sampling | 21/12/2019 to 22/12/2019 |
| | Time of Sampling | 12:15 pm. |
| | Sampling Duration | 24 Hrs |
| | Ambient Temp. (Max./Min.) | 28.7°C / 20.0°C |
| | Relative Humidity(RH) | 38 % |
| | 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) | 63.27 | µg/m ³ | ≤ 100 | IS : 5182 (Part 23)-2006 |
| 2 | Particulate Matter (PM _{2.5}) | 25.18 | µg/m ³ | ≤ 60 | USEPA (40 CFR Ch.-1)Appendix L to Part 50 |
| 3 | Sulphur Dioxide (SO ₂) | 17.6 | µg/m ³ | ≤ 80 | IS : 5182 (Part 2)-2001 |
| 4 | Oxides of Nitrogen (NOx) | 26.8 | µg/m ³ | ≤ 80 | IS : 5182 (Part 6)-2006 |
| 5 | Ozone (O ₃) | 6.5 | µg/m ³ | ≤ 180 (1 Hr.) | IS : 5182 (Part 9)-1974 |
| 6 | Lead (Pb) | 0.08 | µg/m ³ | ≤ 1.0 | AB/Tech/CHM/SOP/A/07 |
| 7 | Carbon Monoxide (CO) | 1.71 | mg/m ³ | ≤ 04 (1 Hr.) | Manual Instruction |
| 8 | Ammonia (NH ₃) | 13.0 | µg/m ³ | ≤ 400 | AB/Tech/CHM/SOP/A/06 |
| 9 | Benzene (C ₆ H ₆) | BDL | µg/m ³ | ≤ 05 (Annual) | IS 5182 (Part 11) : 2006 |
| 10 | Benzo(a)Pyrene (BaP) | BDL | ng/m ³ | ≤ 01(Annual) | IS 5182 (Part 12) :2004 |
| 11 | Arsenic (As) | 0.05 | ng/m ³ | ≤ 06 (Annual) | AB/Tech/CHM/SOP/A/10 |
| 12 | Nickel (Ni) | 0.07 | ng/m ³ | ≤ 20 (Annual) | AB/Tech/CHM/SOP/A/09 |

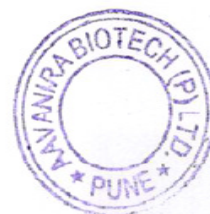
REMARKS / OBSERVATIONS:

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

Verified By  Quality Manager


Govt. Analyst
-----End of Report-----


Authorized By – Technical Manager /
Dy. Technical Manager



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ISO 9001: 2015 and OHSAS 18001: 2007 Certified Company

ENalyze*

Ambient Air Quality Monitoring Report REPORT No. AB/POL/12/2019-20/620

| | | |
|---|---|--|
| Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-I) Plot No.A-07, MIDC Mahad Dist-Raigad-402309, Maharashtra, India | Sample Code | AB/POL/12/2019-20/620 |
| | Sample Location | (A5) Near N ₂ Plant North Side |
| | Sample Collected By | Aavanira Biotech Pvt. Ltd., |
| | Sample type | Ambient Air |
| | Method of Sampling | As per IS : 5182 Part 1 (2006) |
| | Date of Sampling | 21/12/2019 to 22/12/2019 |
| | Time of Sampling | 12:40 pm. |
| | Sampling Duration | 24 Hrs |
| | Ambient Temp. (Max./Min.) | 28.7°C / 20.0°C |
| | Relative Humidity(RH) | 38 % |
| | 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) | 57.90 | µg/m ³ | ≤ 100 | IS : 5182 (Part 23)-2006 |
| 2 | Particulate Matter (PM _{2.5}) | 18.75 | µg/m ³ | ≤ 60 | USEPA (40 CFR Ch.-1)Appendix L to Part 50 |
| 3 | Sulphur Dioxide (SO ₂) | 14.2 | µg/m ³ | ≤ 80 | IS : 5182 (Part 2)-2001 |
| 4 | Oxides of Nitrogen (NOx) | 20.8 | µg/m ³ | ≤ 80 | IS : 5182 (Part 6)-2006 |
| 5 | Ozone (O ₃) | 11.0 | µg/m ³ | ≤ 180 (1 Hr.) | IS : 5182 (Part 9)-1974 |
| 6 | Lead (Pb) | 0.09 | µg/m ³ | ≤ 1.0 | AB/Tech/CHM/SOP/A/07 |
| 7 | Carbon Monoxide (CO) | 1.52 | mg/m ³ | ≤ 04 (1 Hr.) | Manual Instruction |
| 8 | Ammonia (NH ₃) | 11.0 | µg/m ³ | ≤ 400 | AB/Tech/CHM/SOP/A/06 |
| 9 | Benzene (C ₆ H ₆) | BDL | µg/m ³ | ≤ 05 (Annual) | IS 5182 (Part 11) : 2006 |
| 10 | Benzo(a)Pyrene (BaP) | BDL | ng/m ³ | ≤ 01(Annual) | IS 5182 (Part 12) :2004 |
| 11 | Arsenic (As) | 0.07 | ng/m ³ | ≤ 06 (Annual) | AB/Tech/CHM/SOP/A/10 |
| 12 | Nickel (Ni) | 0.11 | ng/m ³ | ≤ 20 (Annual) | AB/Tech/CHM/SOP/A/09 |

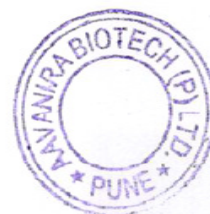
REMARKS / OBSERVATIONS:

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

Verified By  Quality Manager


Govt. Analyst
-----End of Report-----


Authorized By – Technical Manager /
Dy. Technical Manager



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ENalyze*

| Ambient Air Quality Monitoring Report | | REPORT No. AB/POL/12/2019-20/621 |
|---|---|--|
| Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-I) Plot No.A-07, MIDC Mahad Dist-Raigad-402309, Maharashtra, India | Sample Code | AB/POL/12/2019-20/621 |
| | Sample Location | (A6) Solvent Tank Farm |
| | Sample Collected By | Aavanira Biotech Pvt. Ltd., |
| | Sample type | Ambient Air |
| | Method of Sampling | As per IS : 5182 Part 1 (2006) |
| | Date of Sampling | 21/12/2019 to 22/12/2019 |
| | Time of Sampling | 01:00 pm. |
| | Sampling Duration | 24 Hrs |
| | Ambient Temp. (Max./Min.) | 29.0°C /19.8°C |
| | Relative Humidity(RH) | 40 % |
| | Analysis Date | 23/12/2019 to 30/12/2019 |
| | Reporting date | 30/12/2019 |
| | Instrument Details | Ambient Fine Dust Sampler, AB/Tech/Instr/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) | 57.80 | µg/m ³ | ≤ 100 | IS : 5182 (Part 23)-2006 |
| 2 | Particulate Matter (PM _{2.5}) | 19.62 | µg/m ³ | ≤ 60 | USEPA (40 CFR Ch.-1)Appendix L to Part 50 |
| 3 | Sulphur Dioxide (SO ₂) | 12.3 | µg/m ³ | ≤ 80 | IS : 5182 (Part 2)-2001 |
| 4 | Oxides of Nitrogen (NOx) | 16.7 | µg/m ³ | ≤ 80 | IS : 5182 (Part 6)-2006 |
| 5 | Ozone (O ₃) | 15.0 | µg/m ³ | ≤ 180 (1 Hr.) | IS : 5182 (Part 9)-1974 |
| 6 | Lead (Pb) | 0.15 | µg/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) | 13.0 | µg/m ³ | ≤ 400 | AB/Tech/CHM/SOP/A/06 |
| 9 | Benzene (C ₆ H ₆) | BDL | µg/m ³ | ≤ 05 (Annual) | IS 5182 (Part 11) : 2006 |
| 10 | Benzo(a)Pyrene (BaP) | BDL | ng/m ³ | ≤ 01(Annual) | IS 5182 (Part 12) :2004 |
| 11 | Arsenic (As) | 0.07 | ng/m ³ | ≤ 06 (Annual) | AB/Tech/CHM/SOP/A/10 |
| 12 | Nickel (Ni) | 0.09 | ng/m ³ | ≤ 20 (Annual) | AB/Tech/CHM/SOP/A/09 |

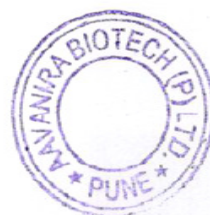
REMARKS / OBSERVATIONS:

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

Verified By  Quality Manager


Govt. Analyst
-----End of Report-----


Authorized By – Technical Manager /
Dy. Technical Manager



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ENalyze*

Ambient Air Quality Monitoring Report REPORT No. AB/POL/01/2019-20/663

| | | |
|---|---|--|
| Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-I) Plot No.A-07, MIDC Mahad Dist-Raigad-402309, Maharashtra, India | Sample Code | AB/POL/01/2019-20/663 |
| | Sample Location | (A4) Near Main Gate |
| | Sample Collected By | Aavanira Biotech Pvt. Ltd., |
| | Sample type | Ambient Air |
| | Method of Sampling | As per IS : 5182 Part 1 (2006) |
| | Date of Sampling | 21/01/2020 to 22/01/2020 |
| | Time of Sampling | 12:30 pm. |
| | Sampling Duration | 24 Hrs |
| | Ambient Temp. (Max./Min.) | 28.0°C /19.6°C |
| | Relative Humidity(RH) | 40 % |
| | 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) | 78.29 | µg/m ³ | ≤ 100 | IS : 5182 (Part 23)-2006 |
| 2 | Particulate Matter (PM _{2.5}) | 40.14 | µg/m ³ | ≤ 60 | USEPA (40 CFR Ch.-1)Appendix L to Part 50 |
| 3 | Sulphur Dioxide (SO ₂) | 20.5 | µg/m ³ | ≤ 80 | IS : 5182 (Part 2)-2001 |
| 4 | Oxides of Nitrogen (NOx) | 23.4 | µg/m ³ | ≤ 80 | IS : 5182 (Part 6)-2006 |
| 5 | Ozone (O ₃) | 8.5 | µg/m ³ | ≤ 180 (1 Hr.) | IS : 5182 (Part 9)-1974 |
| 6 | Lead (Pb) | 0.15 | µg/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) | 7.6 | µg/m ³ | ≤ 400 | AB/Tech/CHM/SOP/A/06 |
| 9 | Benzene (C ₆ H ₆) | BDL | µg/m ³ | ≤ 05 (Annual) | IS 5182 (Part 11) : 2006 |
| 10 | Benzo(a)Pyrene (BaP) | BDL | ng/m ³ | ≤ 01(Annual) | IS 5182 (Part 12) :2004 |
| 11 | Arsenic (As) | 0.13 | ng/m ³ | ≤ 06 (Annual) | AB/Tech/CHM/SOP/A/10 |
| 12 | Nickel (Ni) | 0.19 | ng/m ³ | ≤ 20 (Annual) | AB/Tech/CHM/SOP/A/09 |

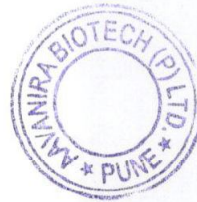
REMARKS / OBSERVATIONS:

- 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-----



ENalyse*

Ambient Air Quality Monitoring Report REPORT No. AB/POL/01/2019-20/664.

| | | |
|---|---|--|
| Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-I) Plot No.A-07, MIDC Mahad Dist-Raigad-402309, Maharashtra, India | Sample Code | AB/POL/01/2019-20/664 |
| | Sample Location | (A5) Near N ₂ Plant North Side |
| | Sample Collected By | Aavanira Biotech Pvt. Ltd., |
| | Sample type | Ambient Air |
| | Method of Sampling | As per IS : 5182 Part 1 (2006) |
| | Date of Sampling | 21/01/2020 to 22/01/2020 |
| | Time of Sampling | 12:45 pm. |
| | Sampling Duration | 24 Hrs |
| | Ambient Temp. (Max./Min.) | 28.2°C /19.6°C |
| | Relative Humidity(RH) | 42 % |
| | Analysis Date | 23/01/2020 to 30/01/2020 |
| | Reporting date | 30/01/2020 |
| | Instrument Details | Ambient Fine Dust Sampler, AB/Tech/Instr/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) | 60.23 | µg/m ³ | < 100 | IS : 5182 (Part 23)-2006 |
| 2 | Particulate Matter (PM _{2.5}) | 13.96 | µg/m ³ | ≤ 60 | USEPA (40 CFR Ch.-1)Appendix L to Part 50 |
| 3 | Sulphur Dioxide (SO ₂) | 13.8 | µg/m ³ | ≤ 80 | IS : 5182 (Part 2)-2001 |
| 4 | Oxides of Nitrogen (NOx) | 19.2 | µg/m ³ | ≤ 80 | IS : 5182 (Part 6)-2006 |
| 5 | Ozone (O ₃) | 15.6 | µg/m ³ | ≤ 180 (1 Hr.) | IS : 5182 (Part 9)-1974 |
| 6 | Lead (Pb) | 0.18 | µg/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) | 10.6 | µg/m ³ | ≤ 400 | AB/Tech/CHM/SOP/A/06 |
| 9 | Benzene (C ₆ H ₆) | BDL | µg/m ³ | ≤ 05 (Annual) | IS 5182 (Part 11) : 2006 |
| 10 | Benzo(a)Pyrene (BaP) | BDL | ng/m ³ | ≤ 01(Annual) | IS 5182 (Part 12) :2004 |
| 11 | Arsenic (As) | 0.11 | ng/m ³ | ≤ 06 (Annual) | AB/Tech/CHM/SOP/A/10 |
| 12 | Nickel (Ni) | 0.16 | ng/m ³ | ≤ 20 (Annual) | AB/Tech/CHM/SOP/A/09 |

REMARKS / OBSERVATIONS:

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

Verified By – Quality Manager

Authorized By – Technical Manager /
Dy. Technical Manager

Govt. Analyst

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



ENalyse*

| Ambient Air Quality Monitoring Report | | REPORT No. AB/POL/01/2019-20/665 |
|---|---|--|
| Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-I) Plot No.A-07, MIDC Mahad Dist-Raigad-402309, Maharashtra, India | Sample Code | AB/POL/01/2019-20/665 |
| | Sample Location | (A6) Solvent Tank Farm |
| | Sample Collected By | Aavanira Biotech Pvt. Ltd., |
| | Sample type | Ambient Air |
| | Method of Sampling | As per IS : 5182 Part 1 (2006) |
| | Date of Sampling | 21/01/2020 to 22/01/2020 |
| | Time of Sampling | 01:10 pm. |
| | Sampling Duration | 24 Hrs |
| | Ambient Temp. (Max./Min.) | 28.3°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/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) | 58.16 | µg/m ³ | ≤ 100 | IS : 5182 (Part 23)-2006 |
| 2 | Particulate Matter (PM _{2.5}) | 18.26 | µg/m ³ | ≤ 60 | USEPA (40 CFR Ch.-1)Appendix L to Part 50 |
| 3 | Sulphur Dioxide (SO ₂) | 12.9 | µg/m ³ | ≤ 80 | IS : 5182 (Part 2)-2001 |
| 4 | Oxides of Nitrogen (NOx) | 15.8 | µg/m ³ | ≤ 80 | IS : 5182 (Part 6)-2006 |
| 5 | Ozone (O ₃) | 10.3 | µg/m ³ | ≤ 180 (1 Hr.) | IS : 5182 (Part 9)-1974 |
| 6 | Lead (Pb) | 0.08 | µg/m ³ | ≤ 1.0 | AB/Tech/CHM/SOP/A/07 |
| 7 | Carbon Monoxide (CO) | 0.97 | mg/m ³ | ≤ 04 (1 Hr.) | Manual Instruction |
| 8 | Ammonia (NH ₃) | 23.0 | µg/m ³ | ≤ 400 | AB/Tech/CHM/SOP/A/06 |
| 9 | Benzene (C ₆ H ₆) | BDL | µg/m ³ | ≤ 05 (Annual) | IS 5182 (Part 11) : 2006 |
| 10 | Benzo(a)Pyrene (BaP) | BDL | ng/m ³ | ≤ 01(Annual) | IS 5182 (Part 12) :2004 |
| 11 | Arsenic (As) | 0.05 | ng/m ³ | ≤ 06 (Annual) | AB/Tech/CHM/SOP/A/10 |
| 12 | Nickel (Ni) | BDL | ng/m ³ | ≤ 20 (Annual) | AB/Tech/CHM/SOP/A/09 |

REMARKS / OBSERVATIONS:

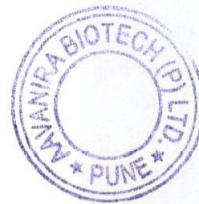
- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

Verified By – Quality Manager

Authorized By – Technical Manager /
Dy. Technical Manager

Govt. Analyst

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



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ENalyze*

Ambient Air Quality Monitoring Report

REPORT No. AB/POL/02/2019-20/515

| | | |
|---|--|--|
| Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-I) Plot No.A-07, MIDC Mahad Dist-Raigad-402309, Maharashtra, India | Sample Code | AB/POL/02/2019-20/515 |
| | Sample Location | (A4) Near Main Gate |
| | Sample Collected By | Aavanira Biotech Pvt. Ltd., |
| | Sample type | Ambient Air |
| | Method of Sampling | As per IS : 5182 Part 1 (2006) |
| | Date of Sampling | 18/02/2019 to 19/02/2020 |
| | Time of Sampling | 12:35 pm. |
| | Sampling Duration | 24 Hrs |
| | Ambient Temp. (Max./Min.) | 29.1 ^o C /20.0 ^o C |
| | Relative Humidity(RH) | 48 % |
| | Analysis Date | 21/02/2019 to 27/02/2020 |
| | Reporting date | 27/02/2020 |
| | Instrument Details | Ambient Fine Dust Sampler, AB/Tech/Instr/121 |
| Sample returned /stored | Stored at 4 ^o 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) | 68.90 | µg/m ³ | ≤ 100 | IS : 5182 (Part 23)-2006 |
| 2 | Particulate Matter (PM _{2.5}) | 23.46 | µg/m ³ | ≤ 60 | USEPA (40 CFR Ch.-1)Appendix L to Part 50 |
| 3 | Sulphur Dioxide (SO ₂) | 12.6 | µg/m ³ | ≤ 80 | IS : 5182 (Part 2)-2001 |
| 4 | Oxides of Nitrogen (NOx) | 18.1 | µg/m ³ | ≤ 80 | IS : 5182 (Part 6)-2006 |
| 5 | Ozone (O ₃) | 13.0 | µg/m ³ | ≤ 180 (1 Hr.) | IS : 5182 (Part 9)-1974 |
| 6 | Lead (Pb) | 0.14 | µg/m ³ | ≤ 1.0 | AB/Tech/CHM/SOP/A/07 |
| 7 | Carbon Monoxide (CO) | 2.01 | mg/m ³ | ≤ 04 (1 Hr.) | Manual Instruction |
| 8 | Ammonia (NH ₃) | 12.6 | µg/m ³ | ≤ 400 | AB/Tech/CHM/SOP/A/06 |
| 9 | Benzene (C ₆ H ₆) | BDL | µg/m ³ | ≤ 05 (Annual) | IS 5182 (Part 11) : 2006 |
| 10 | Benzo(a)Pyrene (BaP) | BDL | ng/m ³ | ≤ 01(Annual) | IS 5182 (Part 12) :2004 |
| 11 | Arsenic (As) | 0.06 | 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.

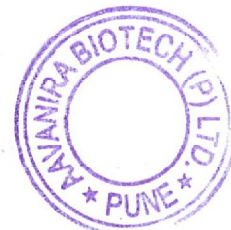
Verified By – Quality Manager

Authorized By – Technical Manager /
Dy. Technical Manager

Govt. Analyst

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

Page 1 of 1



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Ambient Air Quality Monitoring Report REPORT No. AB/POL/02/2019-20/516

| | | |
|---|---|--|
| Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-I) Plot No.A-07, MIDC Mahad Dist-Raigad-402309, Maharashtra, India | Sample Code | AB/POL/02/2019-20/516 |
| | Sample Location | (A5) Near N ₂ Plant North Side |
| | Sample Collected By | Aavanira Biotech Pvt. Ltd., |
| | Sample type | Ambient Air |
| | Method of Sampling | As per IS : 5182 Part 1 (2006) |
| | Date of Sampling | 19/02/2019 to 20/02/2020 |
| | Time of Sampling | 10:50 am. |
| | Sampling Duration | 24 Hrs |
| | Ambient Temp. (Max./Min.) | 28.9°C / 20.0°C |
| | Relative Humidity(RH) | 46 % |
| | Analysis Date | 21/02/2019 to 27/02/2020 |
| | Reporting date | 27/02/2020 |
| | 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) | 63.11 | µg/m ³ | ≤ 100 | IS : 5182 (Part 23)-2006 |
| 2 | Particulate Matter (PM _{2.5}) | 24.28 | µg/m ³ | ≤ 60 | USEPA (40 CFR Ch.-1)Appendix L to Part 50 |
| 3 | Sulphur Dioxide (SO ₂) | 16.9 | µg/m ³ | ≤ 80 | IS : 5182 (Part 2)-2001 |
| 4 | Oxides of Nitrogen (NOx) | 21.8 | µg/m ³ | ≤ 80 | IS : 5182 (Part 6)-2006 |
| 5 | Ozone (O ₃) | 15.0 | µg/m ³ | ≤ 180 (1 Hr.) | IS : 5182 (Part 9)-1974 |
| 6 | Lead (Pb) | 0.08 | µg/m ³ | ≤ 1.0 | AB/Tech/CHM/SOP/A/07 |
| 7 | Carbon Monoxide (CO) | 1.87 | mg/m ³ | ≤ 04 (1 Hr.) | Manual Instruction |
| 8 | Ammonia (NH ₃) | 9.0 | µg/m ³ | ≤ 400 | AB/Tech/CHM/SOP/A/06 |
| 9 | Benzene (C ₆ H ₆) | BDL | µg/m ³ | ≤ 05 (Annual) | IS 5182 (Part 11) : 2006 |
| 10 | Benzo(a)Pyrene (BaP) | BDL | ng/m ³ | ≤ 01(Annual) | IS 5182 (Part 12) :2004 |
| 11 | Arsenic (As) | BDL | ng/m ³ | ≤ 06 (Annual) | AB/Tech/CHM/SOP/A/10 |
| 12 | Nickel (Ni) | 0.05 | ng/m ³ | ≤ 20 (Annual) | AB/Tech/CHM/SOP/A/09 |

REMARKS / OBSERVATIONS:

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

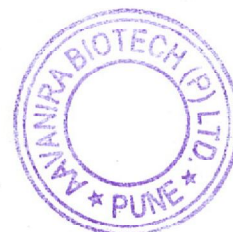
Verified By – Quality Manager

Authorized By – Technical Manager /
 Dy. Technical Manager

Govt. Analyst

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

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Ambient Air Quality Monitoring Report REPORT No. AB/POL/02/2019-20/517

| | | |
|---|---|--|
| Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-I) Plot No.A-07, MIDC Mahad Dist-Raigad-402309, Maharashtra, India | Sample Code | AB/POL/02/2019-20/517 |
| | Sample Location | (A6) Solvent Tank Farm |
| | Sample Collected By | Aavanira Biotech Pvt. Ltd., |
| | Sample type | Ambient Air |
| | Method of Sampling | As per IS : 5182 Part 1 (2006) |
| | Date of Sampling | 19/02/2019 to 20/02/2020 |
| | Time of Sampling | 11:15 am. |
| | Sampling Duration | 24 Hrs |
| | Ambient Temp. (Max./Min.) | 29.5°C /20.7°C |
| | Relative Humidity(RH) | 48 % |
| | Analysis Date | 21/02/2019 to 27/02/2020 |
| | Reporting date | 27/02/2020 |
| | 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) | 61.18 | µg/m ³ | ≤ 100 | IS : 5182 (Part 23)-2006 |
| 2 | Particulate Matter (PM _{2.5}) | 25.74 | µg/m ³ | ≤ 60 | USEPA (40 CFR Ch.-1)Appendix L to Part 50 |
| 3 | Sulphur Dioxide (SO ₂) | 12.5 | µg/m ³ | ≤ 80 | IS : 5182 (Part 2)-2001 |
| 4 | Oxides of Nitrogen (NOx) | 19.2 | µg/m ³ | ≤ 80 | IS : 5182 (Part 6)-2006 |
| 5 | Ozone (O ₃) | 9.0 | µg/m ³ | ≤ 180 (1 Hr.) | IS : 5182 (Part 9)-1974 |
| 6 | Lead (Pb) | 0.17 | µg/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) | 15.9 | µg/m ³ | ≤ 400 | AB/Tech/CHM/SOP/A/06 |
| 9 | Benzene (C ₆ H ₆) | BDL | µg/m ³ | ≤ 05 (Annual) | IS 5182 (Part 11) : 2006 |
| 10 | Benzo(a)Pyrene (BaP) | BDL | ng/m ³ | ≤ 01(Annual) | IS 5182 (Part 12) :2004 |
| 11 | Arsenic (As) | BDL | ng/m ³ | ≤ 06 (Annual) | AB/Tech/CHM/SOP/A/10 |
| 12 | Nickel (Ni) | 0.14 | ng/m ³ | ≤ 20 (Annual) | AB/Tech/CHM/SOP/A/09 |

REMARKS / OBSERVATIONS:

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

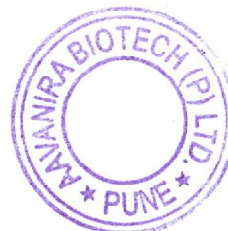
Verified By – Quality Manager

Authorized By – Technical Manager /
 Dy. Technical Manager

Govt. Analyst

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

Page 1 of 1



ENalyze*

Source Emission Monitoring Report REPORT NO.AB/POL/02/2019-20/518

| | | |
|--|------------------------------------|---|
| Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-I) Plot No.A-07, MIDC Mahad Dist-Raigad-402309 Maharashtra, India | Sample Code | AB/POL/02/2019-20/518 |
| | Sample Location/Attached To | S-2 DG Set 380 KVA -1 |
| | Sample Collected By | Aavanira Biotech Pvt. Ltd., |
| | Sample type | Stack |
| | Method of Sampling | As per IS : 11255 (Part – 1) : 1985 |
| | Date of Sampling | 19/02/2020 |
| | Time of Sampling | 03:50 pm. |
| | Analysis Date | 21/02/2019 to 27/02/2020 |
| | Reporting date | 27/02/2020 |
| | 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. | 4.0 | mtr. |
| 3 | Type of Stack | Round | -- |
| 4 | Fuel Type | HSD | -- |
| 5 | Flue Gas Temperature | 419 | °K |
| 6 | Differential Pressure | 6.8 | mmWG |
| 7 | Velocity | 10.91 | m/s |
| 8 | Dimension of Stack | 0.4 | mtr. |
| 9 | Stack Area | 0.0176 | m ² |
| 10 | Gas Volume | 491.71 | Nm ³ /Hr |

TEST PARAMETERS

| Sr. No. | Parameter | Result | Unit | Limits As Per MPCB Consent | Standard Method |
|---------|-----------------------------------|--------|--------------------|----------------------------|-------------------------|
| 1 | Total Particulate Matter (TPM) | 59.84 | mg/Nm ³ | ≤ 150 | IS:11255 (Part -1)-1985 |
| 2 | Sulphur Dioxide(SO ₂) | 61.25 | mg/Nm ³ | -- | IS:11255 (Part -2)-1985 |
| | | 0.72 | Kg/day | N.S. | |
| 3 | Oxides of Nitrogen(NOx) | 1.7 | ppm | -- | IS:11255 (Part -7)-2005 |
| 4 | HCL | N.D. | mg/Nm ³ | <35 | US EPA Method 8 A |
| 5 | Acid Mist | N.D. | ppm | <35 | US EPA Method 8 A |

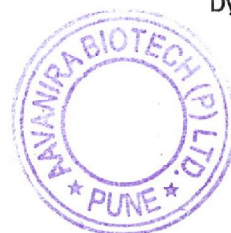
REMARK / OBSERVATIONS:

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


Verified By – Quality Manager


Authorized By – Technical Manager /
Dy. Technical Manager


Govt. Analyst
-----End of Report-----



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Source Emission Monitoring Report REPORT NO.AB/POL/02/2019-20/519

| | | |
|--|---|---|
| Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-I) Plot No.A-07, MIDC Mahad Dist-Raigad-402309 Maharashtra, India | Sample Code | AB/POL/02/2019-20/519 |
| | Sample Location/Attached To | S-3 DG Set 380 KVA -2 |
| | Sample Collected By | Aavanira Biotech Pvt. Ltd., |
| | Sample type | Stack |
| | Method of Sampling | As per IS : 11255 (Part – 1) : 1985 |
| | Date of Sampling | 19/02/2020 |
| | Time of Sampling | 04:00 pm. |
| | Analysis Date | 21/02/2019 to 27/02/2020 |
| | Reporting date | 27/02/2020 |
| | 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. | 4.0 | mtr. |
| 3 | Type of Stack | Round | -- |
| 4 | Fuel Type | HSD | -- |
| 5 | Flue Gas Temperature | 418 | °K |
| 6 | Differential Pressure | 6.1 | mmWG |
| 7 | Velocity | 10.23 | m/s |
| 8 | Dimension of Stack | 0.4 | mtr. |
| 9 | Stack Area | 0.0176 | m ² |
| 10 | Gas Volume | 475.19 | Nm ³ /Hr |

TEST PARAMETERS

| Sr. No. | Parameter | Result | Unit | Limits As Per MPCB Consent | Standard Method |
|---------|-----------------------------------|--------|--------------------|----------------------------|-------------------------|
| 1 | Total Particulate Matter (TPM) | 55.17 | mg/Nm ³ | ≤ 150 | IS:11255 (Part -1)-1985 |
| 2 | Sulphur Dioxide(SO ₂) | 69.70 | mg/Nm ³ | -- | IS:11255 (Part -2)-1985 |
| | | 0.76 | Kg/day | N.S. | |
| 3 | Oxides of Nitrogen(NOx) | 1.50 | ppm | -- | IS:11255 (Part -7)-2005 |
| 4 | HCL | N.D. | mg/Nm ³ | <35 | US EPA Method 8 A |
| 5 | Acid Mist | N.D. | ppm | <35 | US EPA Method 8 A |

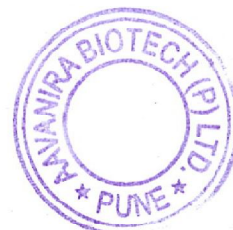
REMARK / OBSERVATIONS:

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

Verified By – Quality Manager

Authorized By – Technical Manager /
 Dy. Technical Manager

Govt. Analyst
 -----End of Report-----



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Personal Air Monitoring Analysis Report REPORT No. AB/POL/02/2019-20/520

| | | |
|--|----------------------------------|---------------------------------------|
| Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-I) Plot No.A-07, MIDC Mahad Dist-Raigad-402309, Maharashtra, India | Sample Code | AB/POL/02/2019-20/520 |
| | Sample Location | Amber Fluer Plant-First Floor-R-11/13 |
| | Sample Collected By | Aavanira Biotech Pvt. Ltd., |
| | Sample type | Personal Air |
| | Method of Sampling | As per IS : 5182 Part 1 (2006) |
| | Date of Sampling | 19/02/2020 |
| | Time of Sampling | 10:30 am. |
| | Sampling Duration | 08 Hrs. |
| | Ambient Temp. (Max./Min.) | 29.2°C /20.6°C |
| | Relative Humidity(RH) | 38 % |
| | Analysis Date | 21/02/2020 to 27/02/2020 |
| | Reporting date | 27/02/2020 |


TEST PARAMETERS


| Sr. No. | Parameter | Result | Unit | The Factories Act 1948 standards | Standard Method |
|---------|------------------|--------|--------------------|----------------------------------|-----------------|
| 1 | Hydrocarbon (HC) | 1.72 | mg/M ³ | N.S. | NIOSH Manual |
| 2 | Myrcene | BDL | mg/ M ³ | N.S. | NIOSH Manual |
| 3 | Acid Mist | 0.65 | mg/ M ³ | <1.0 | NIOSH Manual |
| 4 | VOCs (B-T-X) | BDL | ppm | N.S. | GC Method |

N.S. = Not Specified

REMARKS / OBSERVATIONS:

- All above results are well within The Factories Act, 1948 Standards.
- BDL : Below Detectable Limit

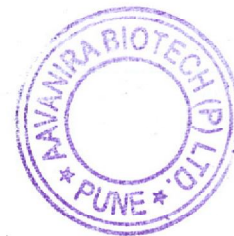

Verified By – Quality Manager


Authorized By – Technical Manager /
Dy. Technical Manager


Govt. Analyst

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

Page 1 of 1



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ENalyze*

Personal Air Monitoring Analysis Report REPORT No. AB/POL/02/2019-20/521

| | | |
|--|---------------------------|--------------------------------|
| Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-I) Plot No.A-07, MIDC Mahad Dist-Raigad-402309, Maharashtra, India | Sample Code | AB/POL/02/2019-20/521 |
| | Sample Location | ISC Plant-Ground Floor |
| | Sample Collected By | Aavanira Biotech Pvt. Ltd., |
| | Sample type | Personal Air |
| | Method of Sampling | As per IS : 5182 Part 1 (2006) |
| | Date of Sampling | 19/02/2020 |
| | Time of Sampling | 11:00 am. |
| | Sampling Duration | 08 Hrs. |
| | Ambient Temp. (Max./Min.) | 28.3°C / 20.0°C |
| | Relative Humidity(RH) | 36 % |
| | Analysis Date | 21/02/2020 to 27/02/2020 |
| | Reporting date | 27/02/2020 |

TEST PARAMETERS

| Sr. No. | Parameter | Result | Unit | The Factories Act 1948 standards | Standard Method |
|---------|-----------------|--------|--------------------|----------------------------------|-----------------|
| 1 | Hydrocarbon(HC) | 2.18 | mg/ M ³ | N.S. | NIOSH Manual |
| 2 | Methanol | 0.85 | mg/ M ³ | <260 | NIOSH Manual |
| 3 | Acid Mist | BDL | mg/ M ³ | <1.0 | NIOSH Manual |
| 4 | VOCs (B-T-X) | BDL | ppm | N.S. | GC Method |

N.S. = Not Specified

REMARKS / OBSERVATIONS:

- All above results are well within The Factories Act, 1948 Standards.
- BDL : Below Detectable Limit

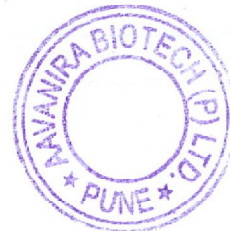
Verified By – Quality Manager

Authorized By – Technical Manager /
Dy. Technical Manager

Govt. Analyst

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

Page 1 of 1



Workzone Air Monitoring Analysis Report REPORT No. AB/POL/02/2019-20/522

| | | |
|--|----------------------------------|--------------------------------|
| Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-I) Plot No.A-07, MIDC Mahad Dist-Raigad-402309, Maharashtra, India | Sample Code | AB/POL/02/2019-20/522 |
| | Sample Location | Blending Area-Ground Floor |
| | Sample Collected By | Aavanira Biotech Pvt. Ltd., |
| | Sample type | Workzone Air |
| | Method of Sampling | As per IS : 5182 Part 1 (2006) |
| | Date of Sampling | 19/02/2020 |
| | Time of Sampling | 09:00 am. |
| | Sampling Duration | 08 Hrs. |
| | Ambient Temp. (Max./Min.) | 27.6°C /21.0°C |
| | Relative Humidity(RH) | 38 % |
| | Analysis Date | 21/02/2020 to 27/02/2020 |
| | Reporting date | 27/02/2020 |

TEST PARAMETERS

| Sr. No. | Parameter | Result | Unit | The Factories Act 1948 standards | Standard Method |
|---------|-----------------|--------|--------------------|----------------------------------|-----------------|
| 1 | Hydrocarbon(HC) | 1.16 | mg/ M ³ | N.S. | NIOSH Manual |
| 2 | Toluene | 1.30 | mg/ M ³ | <375 | NIOSH Manual |
| 3 | Acid Mist | BDL | mg/ M ³ | <1.0 | NIOSH Manual |
| 4 | VOCs (B-T-X) | BDL | ppm | N.S. | GC Method |

N.S. = Not Specified

REMARKS / OBSERVATIONS:

- All above results are well within The Factories Act, 1948 Standards.
- BDL : Below Detectable Limit

Verified By – Quality Manager

Authorized By – Technical Manager /
Dy. Technical Manager

Govt. Analyst

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

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ENalyze*

Workzone Air Monitoring Analysis Report REPORT No. AB/POL/02/2019-20/523

| | | |
|---|---------------------------|--------------------------------|
| Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-I) Plot No.A-07, MIDC Mahad Dist-Raigad-402309, Maharashtra, India | Sample Code | AB/POL/02/2019-20/523 |
| | Sample Location | Main Plant-Ground Floor |
| | Sample Collected By | Aavanira Biotech Pvt. Ltd., |
| | Sample type | Workzone Air |
| | Method of Sampling | As per IS : 5182 Part 1 (2006) |
| | Date of Sampling | 19/02/2020 |
| | Time of Sampling | 09:15 am. |
| | Sampling Duration | 08 Hrs. |
| | Ambient Temp. (Max./Min.) | 28.4°C /22.3°C |
| | Relative Humidity(RH) | 35 % |
| | Analysis Date | 21/02/2020 to 27/02/2020 |
| | Reporting date | 27/02/2020 |

TEST PARAMETERS

| Sr. No. | Parameter | Result | Unit | The Factories Act 1948 standards | Standard Method |
|---------|-----------------|--------|--------------------|----------------------------------|-----------------|
| 1 | Hydrocarbon(HC) | 0.89 | mg/ M ³ | N.S. | NIOSH Manual |
| 2 | Toluene | 1.12 | mg/ M ³ | <375 | NIOSH Manual |
| 3 | Acid Mist | BDL | mg/ M ³ | <1.0 | NIOSH Manual |
| 4 | VOCs (B-T-X) | BDL | ppm | N.S. | GC Method |

N.S. = Not Specified

REMARKS / OBSERVATIONS:

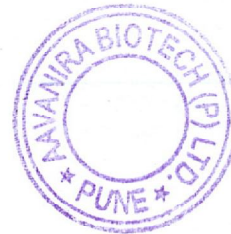
- All above results are well within The Factories Act, 1948 Standards.
- BDL : Below Detectable Limit

Verified By – Quality Manager

Authorized By – Technical Manager /
Dy. Technical Manager

Govt. Analyst

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



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ENalyze*


Ambient Noise Monitoring Report REPORT No. AB/POL/02/2019-20/524

| | | |
|--|----------------------------|--------------------------------------|
| Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-I) Plot No.A-07, MIDC Mahad Dist-Raigad-402309 Maharashtra, India | Sample Code | AB/POL/02/2019-20/524 |
| | Sample Collected By | Aavanira Biotech Pvt. Ltd., |
| | Sample type | Noise |
| | Method of Sampling | As per IS : 4758 |
| | Date of Sampling | 19/02/2020 |
| | Reporting date | 27/02/2020 |
| | 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 | BSR Area | 11:50 | 68.4 | 22:20 | 65.4 | dB(A) |
| 02 | Main Plant | 11:40 | 62.8 | 22:15 | 60.2 | dB(A) |
| 03 | Utility Area | 12:04 | 71.6 | 22:22 | 65.9 | dB(A) |
| 04 | ISC | 11:30 | 72.4 | 22:25 | 67.8 | dB(A) |
| 05 | DG Set | 11:35 | 65.3 | 22:26 | 64.7 | dB(A) |
| 06 | AF Plant Area | 11:25 | 69.1 | 22:30 | 64.4 | dB(A) |
| 07 | Garbage Area | 12:02 | 68.8 | 22:35 | 67.8 | dB(A) |
| 08 | Near Main Gate | 11:48 | 62.4 | 22:40 | 60.4 | dB(A) |
| 09 | Near N2 Plant North Side | 12:00 | 70.6 | 22:37 | 68.1 | dB(A) |
| 10 | Solvent Tank Farm | 12:20 | 67.3 | 22:38 | 65.8 | 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


Govt. Analyst
-----End of Report-----


Authorized By – Technical Manager /
Dy. Technical Manager



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ENalyze*

Ambient Air Quality Monitoring Report REPORT No. AB/POL/03/2019-20/581

| | | |
|--|---|--|
| Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-I) Plot No.A-07, MIDC Mahad Dist-Raigad-402309,Maharashtra, India | Sample Code | AB/POL/03/2019-20/581 |
| | Sample Location | (A4) 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 | 17/03/2020 to 18/03/2020 |
| | Time of Sampling | 11:30 am. |
| | Sampling Duration | 24 Hrs |
| | Ambient Temp. (Max./Min.) | 31.0°C /25.0°C |
| | Relative Humidity(RH) | 59 % |
| | Analysis Date | 19/03/2020 to 21/03/2020 |
| | Reporting date | 21/03/2020 |
| | Instrument Details | Ambient Fine Dust Sampler, AB/Tech/Instr/121 |
| Sample returned /stored | Stored at 4°C for 1 week from the date of reporting | |

TEST PARAMETERS

| Sr. No. | Parameter | Result | Unit | NAAQ Standards | Standard Method |
|---------|--|--------|-------------------|----------------|---|
| 1 | Particulate Matter (PM ₁₀) | 70.85 | µg/m ³ | ≤ 100 | IS : 5182 (Part 23)-2006 |
| 2 | Particulate Matter (PM _{2.5}) | 36.10 | µg/m ³ | ≤ 60 | USEPA (40 CFR Ch.-1)Appendix L to Part 50 |
| 3 | Sulphur Dioxide (SO ₂) | 19.7 | µg/m ³ | ≤ 80 | IS : 5182 (Part 2)-2001 |
| 4 | Oxides of Nitrogen (NO _x) | 20.3 | µg/m ³ | ≤ 80 | IS : 5182 (Part 6)-2006 |
| 5 | Ozone (O ₃) | 8.0 | µg/m ³ | ≤ 180 (1 Hr.) | IS : 5182 (Part 9)-1974 |
| 6 | Lead (Pb) | 0.13 | µg/m ³ | ≤ 1.0 | AB/Tech/CHM/SOP/A/07 |
| 7 | Carbon Monoxide (CO) | 2.02 | mg/m ³ | ≤ 04 (1 Hr.) | Manual Instruction |
| 8 | Ammonia (NH ₃) | 11.0 | µg/m ³ | ≤ 400 | AB/Tech/CHM/SOP/A/06 |
| 9 | Benzene (C ₆ H ₆) | BDL | µg/m ³ | ≤ 05 (Annual) | IS 5182 (Part 11) : 2006 |
| 10 | Benzo(a)Pyrene (BaP) | BDL | ng/m ³ | ≤ 01(Annual) | IS 5182 (Part 12) :2004 |
| 11 | Arsenic (As) | 0.12 | ng/m ³ | ≤ 06 (Annual) | AB/Tech/CHM/SOP/A/10 |
| 12 | Nickel (Ni) | 0.15 | ng/m ³ | ≤ 20 (Annual) | AB/Tech/CHM/SOP/A/09 |

REMARKS / OBSERVATIONS:

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

Verified By – Quality Manager

Govt. Analyst

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

Authorized By – Technical Manager /
Dy. Technical Manager



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ENalyze*

Ambient Air Quality Monitoring Report REPORT No. AB/POL/03/2019-20/582

| | | |
|--|---|--|
| Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-I) Plot No.A-07, MIDC Mahad Dist-Raigad-402309,Maharashtra, India | Sample Code | AB/POL/03/2019-20/582 |
| | Sample Location | (A5) Near N ₂ Plant North Side |
| | Sample Collected By | Aavanira Biotech Pvt. Ltd., |
| | Sample type | Ambient Air |
| | Method of Sampling | As per IS : 5182 Part 1 (2006) |
| | Date of Sampling | 17/03/2020 to 18/03/2020 |
| | Time of Sampling | 11:45 am. |
| | Sampling Duration | 24 Hrs |
| | Ambient Temp. (Max./Min.) | 31.6°C /25.2°C |
| | Relative Humidity(RH) | 61 % |
| | Analysis Date | 19/03/2020 to 21/03/2020 |
| | Reporting date | 21/03/2020 |
| | Instrument Details | Ambient Fine Dust Sampler, AB/Tech/Instr/120 |
| Sample returned /stored | Stored at 4°C for 1 week from the date of reporting | |

TEST PARAMETERS

| Sr. No. | Parameter | Result | Unit | NAAQ Standards | Standard Method |
|---------|--|--------|-------------------|----------------|---|
| 1 | Particulate Matter (PM ₁₀) | 67.36 | µg/m ³ | ≤ 100 | IS : 5182 (Part 23)-2006 |
| 2 | Particulate Matter (PM _{2.5}) | 22.52 | µg/m ³ | ≤ 60 | USEPA (40 CFR Ch.-1)Appendix L to Part 50 |
| 3 | Sulphur Dioxide (SO ₂) | 15.6 | µg/m ³ | ≤ 80 | IS : 5182 (Part 2)-2001 |
| 4 | Oxides of Nitrogen (NO _x) | 21.0 | µg/m ³ | ≤ 80 | IS : 5182 (Part 6)-2006 |
| 5 | Ozone (O ₃) | 16.0 | µg/m ³ | ≤ 180 (1 Hr.) | IS : 5182 (Part 9)-1974 |
| 6 | Lead (Pb) | 0.15 | µg/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) | 12.5 | µg/m ³ | ≤ 400 | AB/Tech/CHM/SOP/A/06 |
| 9 | Benzene (C ₆ H ₆) | BDL | µg/m ³ | ≤ 05 (Annual) | IS 5182 (Part 11) : 2006 |
| 10 | Benzo(a)Pyrene (BaP) | BDL | ng/m ³ | ≤ 01(Annual) | IS 5182 (Part 12) :2004 |
| 11 | Arsenic (As) | 0.10 | ng/m ³ | ≤ 06 (Annual) | AB/Tech/CHM/SOP/A/10 |
| 12 | Nickel (Ni) | 0.12 | 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



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ENalyze*

Ambient Air Quality Monitoring Report REPORT No. AB/POL/03/2019-20/583

| | | |
|--|---|--|
| Name of Client & Address: M/s. Privi Organics India Ltd., (Unit-I) Plot No.A-07, MIDC Mahad Dist-Raigad-402309,Maharashtra, India | Sample Code | AB/POL/03/2019-20/583 |
| | Sample Location | (A6) Solvent Tank Farm |
| | Sample Collected By | Aavanira Biotech Pvt. Ltd., |
| | Sample type | Ambient Air |
| | Method of Sampling | As per IS : 5182 Part 1 (2006) |
| | Date of Sampling | 17/03/2020 to 18/03/2020 |
| | Time of Sampling | 12:20 pm. |
| | Sampling Duration | 24 Hrs |
| | Ambient Temp. (Max./Min.) | 32.2°C /25.6°C |
| | Relative Humidity(RH) | 63 % |
| | Analysis Date | 19/03/2020 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) | 71.22 | µg/m ³ | ≤ 100 | IS : 5182 (Part 23)-2006 |
| 2 | Particulate Matter (PM _{2.5}) | 28.92 | µg/m ³ | ≤ 60 | USEPA (40 CFR Ch.-1)Appendix L to Part 50 |
| 3 | Sulphur Dioxide (SO ₂) | 16.0 | µg/m ³ | ≤ 80 | IS : 5182 (Part 2)-2001 |
| 4 | Oxides of Nitrogen (NO _x) | 20.3 | µg/m ³ | ≤ 80 | IS : 5182 (Part 6)-2006 |
| 5 | Ozone (O ₃) | 14.5 | µg/m ³ | ≤ 180 (1 Hr.) | IS : 5182 (Part 9)-1974 |
| 6 | Lead (Pb) | 0.10 | µg/m ³ | ≤ 1.0 | AB/Tech/CHM/SOP/A/07 |
| 7 | Carbon Monoxide (CO) | 1.59 | mg/m ³ | ≤ 04 (1 Hr.) | Manual Instruction |
| 8 | Ammonia (NH ₃) | 20.0 | µg/m ³ | ≤ 400 | AB/Tech/CHM/SOP/A/06 |
| 9 | Benzene (C ₆ H ₆) | BDL | µg/m ³ | ≤ 05 (Annual) | IS 5182 (Part 11) : 2006 |
| 10 | Benzo(a)Pyrene (BaP) | BDL | ng/m ³ | ≤ 01(Annual) | IS 5182 (Part 12) :2004 |
| 11 | Arsenic (As) | 0.09 | ng/m ³ | ≤ 06 (Annual) | AB/Tech/CHM/SOP/A/10 |
| 12 | Nickel (Ni) | BDL | ng/m ³ | ≤ 20 (Annual) | AB/Tech/CHM/SOP/A/09 |

REMARKS / OBSERVATIONS:

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

Verified By – Quality Manager

Govt. Analyst

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

Authorized By – Technical Manager /
Dy. Technical Manager

