

18.1.2023

Environment Department
Room no.217, 2nd Floor,
Mantralaya Annex,
Mumbai 400032.

Dear Sir,

Subject: Compliance report of Environment Clearance

Ref : SEIAA Letter No.: SEAC-2212/CR-494/TC-2 dated 08.04.2015 and
Subsequent amendment in Environment clearance vide letter no. SEIAA-
2016/CR 05/TC 3 dated 19.05.2016 and SEIAA letter no.: SEAC-
2010/CR.448/TC.2

Please find attached half yearly compliance report for the period from July 2022 to December 2022, in compliance of Condition No.26 and 29 of our Environment Clearance letter dated 08.04.2015 and condition no.23 of our Environment Clearance letter dated 03.12.2010.

Kindly acknowledge receipt of this letter with its enclosure.

Thanking you,
Cordially yours,

For Galaxy Surfactants Limited



Shamsundar Gawade
Senior Manager- Corporate Governance

Encl: As above

- CC** : 1. Maharashtra Pollution Control Board
Raigad Bhavan, 7th Floor, Sector-11,
CBD Belapur, Navi Mumbai
2. Ministry of Environment and Forest, Climate Change
Regional Office (WCZ), Ground Floor,
East Wing, New Secretariat Building, Civil Line, Nagpur-440001
3. Central Pollution Control Board
Parivesh Bhavan, Opp. VMC Ward Office No.10, Subhanpura
Vadodara – 390023, Gujarat

Factory Address:
Plot No. V-23 MIDC, Taloja
& Plot No. 1, Village: Chal
Near Taloja Ind. Area,
Tal : Panvel, Dist. Raigad.
Ph: +91-22-39215300 / 39545100
Fax: +91-22-27411701 / 27411702

Regd. Office:
C-49/2, TTC Industrial Area, Pawne,
Navi Mumbai – 400 703, India.
CIN No. U39877MH1986PLC039877
Ph : +91-22-65134444 / 27616666
Fax : +91-22-27615883 / 27615886
E-mail : galaxy@galaxysurfactants.com
Website : www.galaxysurfactants.com

COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE
(Period: July 2022 – December 2022)

Project : Galaxy Surfactants Ltd., Project of Manufacturing of Surfactants and Specialty Chemicals at Plot No.V-23, MIDC Taloja and Plot No. 1, Village Chal, Tal. Panvel, District Raigad by Modernisation with no increment in pollution load.

Reference: SEIAA Letter No.: SEAC-2212/CR-494/TC-2 dated 08.04.2015 and subsequent amendment in Environment clearance vide letter no.SEIAA-2016/CR 05/TC 3 dated 19.05.2016 and SEIAA Letter No.: SEAC-2010/CR-448/TC-2 dated 03.10.2010.

Products :

| Sr. No. | Name of the product | Total Production Quantity (MT/Month) |
|---------|---|--------------------------------------|
| 1 | Anionic surfactants (on 100% AM basis) such as Fatty Alcohol Sulphate, Fatty Alcohol ether sulphates etc. | 7140 |
| 2 | Ethylene Oxide Condensate | 5000 |
| 3 | Cationic Surfactants (on 100% AM basis) such as Betains, Quaternary Ammonium Salts etc. | 1520 |
| 4 | Sulphosuccinates | 60 |
| 5 | Surfactant blends (on 100% AM basis) such as Syndet Soap-Granules/ Noodles, Sparkle series etc. | 1320 |
| 6 | Fatty Acid Esters, Fatty alkanol amides and esterquats. | 1700 |
| 7 | Conc. Sulphuric Acid (By Product) | 132 |
| 8 | Sodium Sulphate 20-25 % solution, Solids 37.5 MT/ M (By Product) | 180 |
| | Total | 17052 |

Status of compliance of the Conditions stipulated in our Environment Clearance dated 08.04.2015 subsequently amended vide letter dated 19.05.2016 and Environment Clearance dated 03.12.2010.

| Sr. No. | Conditions | Compliance Status |
|---------|--|---|
| 1 | The Environment Clearance is issued subject to condition that PP shall be responsible for end disposal of Hazardous Waste to authorized dealer (b) PP to abide by the submitted specific effluent characteristics after treatment. | Complied. We shall be responsible for end disposal of Hazardous Waste to Authorized dealer. We will abide by the specific effluent characteristics after treatment. |
| 2 | No additional land shall be used / acquired for any activity of the project without obtaining proper permission. | Complied. The project is implemented at existing plot. |



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| 3 | For controlling fugitive natural dust, regular sprinkling of water and wind shields at appropriate distances in vulnerable areas of Plant shall be ensured. | Complied. |
| 4 | Regular monitoring of the air quality, including SPM and 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) and submit report accordingly to MPCB. | Complied. Please refer enclosed Annexure A for latest work zone and ambient air quality report. |
| 5 | Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area. | Complied. |
| 6 | Proper Housekeeping programs shall be implemented. | Complied. We are maintaining proper housekeeping within premises. |
| 7 | In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of the operation and shall not be restarted until the desired efficiency has been achieve. | In case of failure of pollution control Equipment, the complete unit is being shut down and resumed only after the said equipment is rectified. We assure that the same practice will be followed in future also. |
| 8 | A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollution from DG Set (If applicable). | Complied. |
| 9 | A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water. | Rainwater collected and reused in process. No ground water recharged through harvesting. |
| 10 | Arrangement shall be made that effluent and storm water does not get mixed. | Complied. Separate arrangements are made for effluent and storm water. |

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| 11 | 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. | Our unit is ZLD and hence not discharging any effluent to CETP. Entire effluent is reused by recycling through RO, MBR, MEE. We are not using any ground water in our process. |
| 12 | Leq of 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. | Complied. Noise level maintained as per standards and monitored on regular basis. The operating personnel use protective equipment like earmuff and earplug wherever required. |
| 13 | The overall noise levels in and around the plant 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 conform to the standards prescribed under Environment (Protection) Act, 1986 Rules 1989. | The overall noise levels in and around the plant kept well within the standards. Proper noise barriers, acoustic enclosures are provided on noise generating equipment like DG Set, blowers etc. to minimize noise. |
| 14 | Green belt shall be developed and 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. | Green belt area of 4080 sq. mtrs. Developed. Total 1165 numbers of trees and shrubs are planted around the plant periphery. |
| 15 | 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. | Complied. Adequate safety measures taken within plant boundary. Leak detection devices installed at strategic places. |
| 16 | Occupational health surveillance of the workers shall be done on a regular | We have dedicated OHC and full time Factory Medical Officer along with round the clock male nurse to take care of safety and health of the workers. We conduct monthly safety and contractors meeting for |



| | | |
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| | basis and the record shall be maintained as per Factories Act. | health and safety of the workers. Half yearly health checkup of workers being done periodically (last health checkup done on September, 2022) and the records are maintained as per Factories Act. |
| 17 | The Company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. | Complied. Fire prevention and life safety measures are installed in the premises. Fire alarm and sprinklers, Fire Extinguishers, Fire Hydrant System installed and maintained. We are conducting periodical inspection of all firefighting system. |
| 18 | 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 MPCB shall be obtained for collections / treatment / storage / disposal of hazardous waste. | We are complied with the rules and regulations with regard to handling and disposal of Hazardous Wastes in accordance with the rules and MPCB has authorized us for treatment/storage/disposal of Hazardous Waste to authorized vendors. We have obtained membership of Mumbai Waste Management Limited (MWML) for the disposal of Wastes / Residue Containing Oil (1 MT/A). Empty barrels/containers / liner contaminated with Hazardous chemicals /waste (24 MT/A), Flue Gas Cleaning Residue (98.4 MT/A), Chemical Sludge from waste water treatment (108 MT/A) by incineration and Spent Catalyst and molecular sieves (6 MT/A) by landfill. Used or Spent oil (6 MT/A), Contaminated Cotton ragas or other cleaning materials 1MT/A will be given for Recycle/incineration to MWML/ MPCB Authorized Vendor. MEE solid waste 180MT/A by landfill. We maintain the record for hazardous waste generation in form 3 & disposal in Form 10 and submit the Annual return in Form 4 to MPCB and having dedicated storage area for Hazardous Waste. By products viz Sulphuric & Sodium Sulphate , are being disposed off as per the Consent to operate and as per the Hazardous & Other Wastes (M&TM) Rules 2016 |
| 19 | The Company shall undertake following Waste Minimization Measures : <ul style="list-style-type: none"> • Metering of quantities of active ingredients to minimize waste. • Reuse of by-products from the process as raw materials or as raw material | Use of level transmitters in storage tank and adjustment vessel to avoid spillages. Automated transfer of most of intermediate, raw materials and finished goods used for avoiding spillages. We have implemented level switch (high level protection) for filling of tankers, containers of finished goods to eliminate spillages. It will eliminate environment incidence and reduce load on ETP and Hazardous Waste. By-products are recycled into process to the extent possible. |

| | <p>substitutes in other process.</p> <ul style="list-style-type: none"> • Maximizing recoveries. • Use of automated transfer system to minimize spillage. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|--|---|-------------|-------|------|-------------|---|----------------|---------------------|----------|---|---------------|-----|--------|---|-------------|-----|--------|---|-----------------------|----|--------|---|---------------|------------|--------|---|-------------|-----------------|--------|---|-------------|-----------------|--------|---|--------------|-----------------|--------|---|-------------|--------------------------------|--------|----|----------|-------------------|--------|----|----------------|------------------------|--------|----|---------------|--------|--------|----|---------------|-----------|--------|----|--------------------|-------|--------|----|-----------------|------------------------|--------|----|-------------|-------------------|--------|
| 20 | Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvement required, if any, in the on-site management plan shall be ensured. | On-site emergency management plan prepared. Total evacuation mock drill conducted on 18.11.2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards. | <p>Complied.</p> <p>Environment management cell is set up with total 16 members of various Departments. Meeting held on 16.12.2022 to review the environment related compliances.</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Names</th> <th>Dept</th> <th>Designation</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Avinash Shinde</td> <td>SHE and Instruments</td> <td>Chairman</td> </tr> <tr> <td>2</td> <td>Pradeep Kadam</td> <td>SHE</td> <td>Member</td> </tr> <tr> <td>3</td> <td>Suraj Rathi</td> <td>SHE</td> <td>Member</td> </tr> <tr> <td>4</td> <td>Sham/Swapnil Kulkarni</td> <td>CG</td> <td>Member</td> </tr> <tr> <td>5</td> <td>Deepak Divate</td> <td>Conversion</td> <td>Member</td> </tr> <tr> <td>6</td> <td>Vinod Mante</td> <td>MIC, Conversion</td> <td>Member</td> </tr> <tr> <td>7</td> <td>Pravin Bhor</td> <td>SIC, Conversion</td> <td>Member</td> </tr> <tr> <td>8</td> <td>Hemant Patil</td> <td>SIC, Conversion</td> <td>Member</td> </tr> <tr> <td>9</td> <td>Amit Kakkar</td> <td>Mech, Elec., Civil maintenance</td> <td>Member</td> </tr> <tr> <td>10</td> <td>Praful A</td> <td>Mech. Maintenance</td> <td>Member</td> </tr> <tr> <td>11</td> <td>Kunal Waghmare</td> <td>Electrical Maintenance</td> <td>Member</td> </tr> <tr> <td>12</td> <td>Narendra Dali</td> <td>Stores</td> <td>Member</td> </tr> <tr> <td>13</td> <td>Sujit Khakale</td> <td>Warehouse</td> <td>Member</td> </tr> <tr> <td>14</td> <td>Ashok Lad/Taranath</td> <td>Admin</td> <td>Member</td> </tr> <tr> <td>15</td> <td>Nilesh Kavankar</td> <td>Instrument Maintenance</td> <td>Member</td> </tr> <tr> <td>16</td> <td>Omkar Patil</td> <td>Civil Maintenance</td> <td>Member</td> </tr> </tbody> </table> | Sr. No. | Names | Dept | Designation | 1 | Avinash Shinde | SHE and Instruments | Chairman | 2 | Pradeep Kadam | SHE | Member | 3 | Suraj Rathi | SHE | Member | 4 | Sham/Swapnil Kulkarni | CG | Member | 5 | Deepak Divate | Conversion | Member | 6 | Vinod Mante | MIC, Conversion | Member | 7 | Pravin Bhor | SIC, Conversion | Member | 8 | Hemant Patil | SIC, Conversion | Member | 9 | Amit Kakkar | Mech, Elec., Civil maintenance | Member | 10 | Praful A | Mech. Maintenance | Member | 11 | Kunal Waghmare | Electrical Maintenance | Member | 12 | Narendra Dali | Stores | Member | 13 | Sujit Khakale | Warehouse | Member | 14 | Ashok Lad/Taranath | Admin | Member | 15 | Nilesh Kavankar | Instrument Maintenance | Member | 16 | Omkar Patil | Civil Maintenance | Member |
| Sr. No. | Names | Dept | Designation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Avinash Shinde | SHE and Instruments | Chairman | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Pradeep Kadam | SHE | Member | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Suraj Rathi | SHE | Member | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Sham/Swapnil Kulkarni | CG | Member | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Deepak Divate | Conversion | Member | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Vinod Mante | MIC, Conversion | Member | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Pravin Bhor | SIC, Conversion | Member | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Hemant Patil | SIC, Conversion | Member | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Amit Kakkar | Mech, Elec., Civil maintenance | Member | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Praful A | Mech. Maintenance | Member | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Kunal Waghmare | Electrical Maintenance | Member | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | Narendra Dali | Stores | Member | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Sujit Khakale | Warehouse | Member | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | Ashok Lad/Taranath | Admin | Member | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | Nilesh Kavankar | Instrument Maintenance | Member | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | Omkar Patil | Civil Maintenance | Member | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | Transportation of ash will be through closed containers and all measure should be taken to prevent spilling of ash. | Complied. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 23 | Separate silos will be provided for collecting and storing bottom ash and fly ash. | We have dedicated area for collecting bottom ash from furnace & we collect the fly ash from Cyclone separator & bag filter in drums & then shifted to dedicated area. This area is completely isolated & covered from all sides to avoid any interference. | | | | | | | | | | | | | | | |
|--------------|---|---|---------|------------------------|------------------------|---|---|-------------|---|-----------------|-----------|---|-----------------|----------|--------------|--|--------------------|
| 24 | Separate funds shall be allocated for implementation of environmental protection measures / EMP along with item-wise breaks- up. These costs 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 be reported to the MPCB and this department. | During this period, we incurred expenditure of Rs. 2.59 Crore (approx.) for details given in the table below <table border="1" data-bbox="703 506 1516 757"> <thead> <tr> <th data-bbox="711 506 791 573">Sr. No.</th> <th data-bbox="791 506 1238 573">Description of Project</th> <th data-bbox="1238 506 1508 573">Investment Cost in INR</th> </tr> </thead> <tbody> <tr> <td data-bbox="711 573 791 640">1</td> <td data-bbox="791 573 1238 640">V-23 & MED Overtrans for effluent transfer.</td> <td data-bbox="1238 573 1508 640">2,29,00,000</td> </tr> <tr> <td data-bbox="711 640 791 685">2</td> <td data-bbox="791 640 1238 685">MEE Maintenance</td> <td data-bbox="1238 640 1508 685">25,00,000</td> </tr> <tr> <td data-bbox="711 685 791 730">3</td> <td data-bbox="791 685 1238 730">ETP Maintenance</td> <td data-bbox="1238 685 1508 730">5,00,000</td> </tr> <tr> <td colspan="2" data-bbox="711 730 1238 757" style="text-align: center;">TOTAL</td> <td data-bbox="1238 730 1508 757">2,59,00,000</td> </tr> </tbody> </table> | Sr. No. | Description of Project | Investment Cost in INR | 1 | V-23 & MED Overtrans for effluent transfer. | 2,29,00,000 | 2 | MEE Maintenance | 25,00,000 | 3 | ETP Maintenance | 5,00,000 | TOTAL | | 2,59,00,000 |
| Sr. No. | Description of Project | Investment Cost in INR | | | | | | | | | | | | | | | |
| 1 | V-23 & MED Overtrans for effluent transfer. | 2,29,00,000 | | | | | | | | | | | | | | | |
| 2 | MEE Maintenance | 25,00,000 | | | | | | | | | | | | | | | |
| 3 | ETP Maintenance | 5,00,000 | | | | | | | | | | | | | | | |
| TOTAL | | 2,59,00,000 | | | | | | | | | | | | | | | |
| 25 | 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 . | Complied. | | | | | | | | | | | | | | | |
| 26 | Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard and soft copies to the MPCB and this department on 1 st June and 1 st December of each calendar year. | Complied. | | | | | | | | | | | | | | | |
| 27 | A copy of the clearance letter shall be sent by proponent to | Complied. | | | | | | | | | | | | | | | |

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| | 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. | EC copy published on website of the Company. |
| 28 | The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective zonal office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral 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. | <p>Complied.</p> <p>Status of compliance of the stipulated EC conditions, including results of monitored data will be uploaded on our website and will be updated regularly.</p> <p>The Criteria Pollutant Levels are displayed on the main gate of the Company on newly installed electronic digital display.</p> <p>Please refer enclosed Annexure B for latest Stack Emission reports.</p> |
| 29 | The project proponent shall also submit six monthly report on the status of compliance of the stipulated EC Conditions including results of monitored data (both in hard copies as well as by email) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. | Complied. |
| 30 | The environmental statement for each financial year ending 31 st 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 | <p>Complied.</p> <p>Environment statement for the year 2021-2022 submitted online with the MPCB website on 27.09.2022</p> <p>Copy of Environment statement will be displayed on the Company website along with status of EC Conditions and will also be sent to Regional Officers of MoEF by email.</p> |



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| | (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 email. | |
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Status of compliance of conditions stipulated in our earlier Environment Clearance dated 03.12.2010.

| Sr.No. | Conditions | Compliance Status |
|---------|--|---|
| 1 | "Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environmental department before start of any construction work at the site. | Complied. Copy of Consent to Establish was submitted in earlier EC Compliance report. |
| 2 | No land development / construction work preliminary or otherwise relating to the project shall taken up without obtaining due clearance from respective authorities. | We abide by this regulation/condition. |
| 3 to 27 | Conditions from Environment Clearance dated 03.12.2010 are also covered in above condition nos.2-4, 9-30 of Environment Clearance dated 08.04.2015. | Please refer remarks in status of compliance of conditions in Environment Clearance dated 08.04.2015. |
| 28 | The environmental clearance is being issued without prejudice to the 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 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. | Noted |

For Galaxy Surfactants Limited


Shamsundar Gawade
Senior Manager- Corporate Governance

Annexure - A (collectively)



Sadekar Enviro Engineers Pvt. Ltd.

Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604, Maharashtra State, India.
 ☎ : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail : prs@sadekarenviro.com / psadekar5@gmail.com

SAVE WATER
SAVE LIFE

Gazetted by Ministry of Environment, Forest Govt. Of INDIA. S. O. 857 (E). Valid upto 25.02.2023 * OCI-NABET Accredited EIA Consultancy

ANALYSIS REPORT FOR AMBIENT AIR SURVEILLANCE

| | | | |
|---------------------|---|------------------------|------------|
| Report No | SEET/AA/09/22/200 | Date | 28/09/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | Duration of sampling | 24 hrs |
| Reference | ----- | | |
| Date of sampling | 21/09/2022 | Sample Receipt Date | 22/09/2022 |
| Analysis Start Date | 23/09/2022 | Analysis Complete Date | 27/09/2022 |

AMBIENT AIR STATION

| | | | |
|---------------------|-----------------------|-------------------|--------------------------------|
| Location of H.V.S. | Near Admin Gate (EOU) | Lateral Distance | 5.0 Mtr. From Admin Gate (EOU) |
| Ambient Temperature | 29.8°C | Receptor Distance | 1.5 Mtr. From Ground Level |

POLLUTIONAL PARAMETERS

| Parameters | Units | Result | NAAQS Limits | Method |
|--|-------------------|---------------|--------------|--------------------------------|
| Particulate Matter PM ₁₀ | µg/m ³ | 48.2 | 100 | Instr.Manual version 2.01 |
| Particulate Matter PM _{2.5} | µg/m ³ | 31.5 | 60 | CPCB Manual Volume 1 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 28.7 | 80 | IS 5182(part 2)2001 (RA 2017) |
| Oxide of Nitrogen (NO _x) | µg/m ³ | 20.5 | 80 | IS 5182(part 2)2006 (RA 2017) |
| Ozone (O ₃) | µg/m ³ | BDL(MDL<19.6) | 100 | MASA-411 3 rd Ed |
| Lead (Pb) | µg/m ³ | BDL(MDL<0.1) | 1.0 | MASA-822 3 rd Ed |
| Carbon Monoxide (CO) | mg/m ³ | 0.38 | 02 | IS 5182(part 10)1999 (RA 2014) |
| Ammonia (NH ₃) | µg/m ³ | BDL(MDL<0.02) | 400 | MASA-401 3 rd Ed |
| Benzene (C ₆ H ₆) | µg/m ³ | BDL(MDL<0.2) | 05 | IS 5182(part 11)2006 (RA 2017) |
| Benzo (a) Pyrene (BaP) | ng/m ³ | BDL(MDL<1) | 01 | CPCB Manual Vol 1 2011 |
| Arsenic (As) | ng/m ³ | BDL(MDL<0.1) | 06 | MASA-302 3 rd Ed |
| Nickel (Ni) | ng/m ³ | BDL(MDL<7) | 20 | MASA-822 3 rd Ed |

- NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.
 2) The above results relate only to the item tested.
 3) NAAQS-National Ambient Air Quality Standards
 4) BDL - Below Detectable Limit.



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ANALYSIS REPORT FOR AMBIENT AIR SURVEILLANCE

| | | | |
|---------------------|---|------------------------|------------|
| Report No | SEET/AA/09/22/199 | Date | 28/09/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | Duration of sampling | 24 hrs |
| Reference | ----- | | |
| Date of sampling | 20/09/2022 | Sample Receipt Date | 21/09/2022 |
| Analysis Start Date | 22/09/2022 | Analysis Complete Date | 26/09/2022 |

AMBIENT AIR STATION

| | | | |
|---------------------|---------------------------|-------------------|------------------------------|
| Location of H.V.S. | Near MED Ware House (MED) | Lateral Distance | 5.0 Mtr. From MED Ware House |
| Ambient Temperature | 30.4°C | Receptor Distance | 1.5 Mtr. From Ground Level |

POLLUTIONAL PARAMETERS

| Parameters | Units | Result | NAAQS Limits | Method |
|--|-------------------|---------------|--------------|--------------------------------|
| Particulate Matter PM ₁₀ | µg/m ³ | 32.4 | 100 | Instr.Manual version 2.01 |
| Particulate Matter PM _{2.5} | µg/m ³ | 20.7 | 60 | CPCB Manual Volume 1 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 17.4 | 80 | IS 5182(part 2)2001 (RA 2017) |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 14.0 | 80 | IS 5182(part 2)2006 (RA 2017) |
| Ozone (O ₃) | µg/m ³ | BDL(MDL<19.6) | 100 | MASA-411 3 rd Ed |
| Lead (Pb) | µg/m ³ | BDL(MDL<0.1) | 1.0 | MASA-822 3 rd Ed |
| Carbon Monoxide (CO) | mg/m ³ | 0.17 | 02 | IS 5182(part 10)1999 (RA 2014) |
| Ammonia (NH ₃) | µg/m ³ | BDL(MDL<0.02) | 400 | MASA-401 3 rd Ed |
| Benzene (C ₆ H ₆) | µg/m ³ | BDL(MDL<0.2) | 05 | IS 5182(part 11)2006 (RA 2017) |
| Benzo (a) Pyrene (BaP) | ng/m ³ | BDL(MDL<1) | 01 | CPCB Manual Vol 1 2011 |
| Arsenic (As) | ng/m ³ | BDL(MDL<0.1) | 06 | MASA-302 3 rd Ed |
| Nickel (Ni) | ng/m ³ | BDL(MDL<7) | 20 | MASA-822 3 rd Ed |

- NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.
2) The above results relate only to the item tested.
3) NAAQS-National Ambient Air Quality Standards
4) BDL - Below Detectable Limit.


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ANALYSIS REPORT FOR AMBIENT AIR SURVEILLANCE

| | | | |
|---------------------|---|------------------------|------------|
| Report No | SEET/AA/09/22/198 | Date | 28/09/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | Duration of sampling | 24 hrs |
| Reference | ----- | | |
| Date of sampling | 21/09/2022 | Sample Receipt Date | 22/09/2022 |
| Analysis Start Date | 23/09/2022 | Analysis Complete Date | 27/09/2022 |

AMBIENT AIR STATION

| | | | |
|---------------------|--------------------------------|-------------------|---|
| Location of H.V.S. | Near Material Gate No. 6 (EOU) | Lateral Distance | 5.0 Mtr. From Material Gate No. 6 (EOU) |
| Ambient Temperature | 29.8°C | Receptor Distance | 1.5 Mtr. From Ground Level |

POLLUTIONAL PARAMETERS

| Parameters | Units | Result | NAAQS Limits | Method |
|--|-------------------|---------------|--------------|--------------------------------|
| Particulate Matter PM ₁₀ | µg/m ³ | 50.0 | 100 | Instr.Manual version 2.01 |
| Particulate Matter PM _{2.5} | µg/m ³ | 32.8 | 60 | CPCB Manual Volume 1 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 30.7 | 80 | IS 5182(part 2)2001 (RA 2017) |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 20.3 | 80 | IS 5182(part 2)2006 (RA 2017) |
| Ozone (O ₃) | µg/m ³ | BDL(MDL<19.6) | 100 | MASA-411 3 rd Ed |
| Lead (Pb) | µg/m ³ | BDL(MDL<0.1) | 1.0 | MASA-822 3 rd Ed |
| Carbon Monoxide (CO) | mg/m ³ | 0.55 | 02 | IS 5182(part 10)1999 (RA 2014) |
| Ammonia (NH ₃) | µg/m ³ | BDL(MDL<0.02) | 400 | MASA-401 3 rd Ed |
| Benzene (C ₆ H ₆) | µg/m ³ | BDL(MDL<0.2) | 05 | IS 5182(part 11)2006 (RA 2017) |
| Benzo (a) Pyrene (BaP) | ng/m ³ | BDL(MDL<1) | 01 | CPCB Manual Vol 1 2011 |
| Arsenic (As) | ng/m ³ | BDL(MDL<0.1) | 06 | MASA-302 3 rd Ed |
| Nickel (Ni) | ng/m ³ | BDL(MDL<7) | 20 | MASA-822 3 rd Ed |

- NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.
2) The above results relate only to the item tested.
3) NAAQS-National Ambient Air Quality Standards
4) BDL - Below Detectable Limit.



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ANALYSIS REPORT FOR AMBIENT AIR SURVEILLANCE

| | | | |
|---------------------|---|------------------------|------------|
| Report No | SEET/AA/09/22/197 | Date | 28/09/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | Duration of sampling | 24 hrs |
| Reference | ----- | | |
| Date of sampling | 20/09/2022 | Sample Receipt Date | 21/09/2022 |
| Analysis Start Date | 22/09/2022 | Analysis Complete Date | 26/09/2022 |

AMBIENT AIR STATION

| | | | |
|---------------------|-----------------------|-------------------|----------------------------|
| Location of H.V.S. | Near Gate No.3 (V-23) | Lateral Distance | 5.0 Mtr. From Gate No.3 |
| Ambient Temperature | 30.4°C | Receptor Distance | 1.5 Mtr. From Ground Level |

POLLUTIONAL PARAMETERS

| Parameters | Units | Result | NAAQS Limits | Method |
|--|-------------------|---------------|--------------|--------------------------------|
| Particulate Matter PM ₁₀ | µg/m ³ | 51.4 | 100 | Instr.Manual version 2.01 |
| Particulate Matter PM _{2.5} | µg/m ³ | 30.2 | 60 | CPCB Manual Volume 1 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 37.5 | 80 | IS 5182(part 2)2001 (RA 2017) |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 30.7 | 80 | IS 5182(part 2)2006 (RA 2017) |
| Ozone (O ₃) | µg/m ³ | BDL(MDL<19.6) | 100 | MASA-411 3 rd Ed |
| Lead (Pb) | µg/m ³ | BDL(MDL<0.1) | 1.0 | MASA-822 3 rd Ed |
| Carbon Monoxide (CO) | mg/m ³ | 0.45 | 02 | IS 5182(part 10)1999 (RA 2014) |
| Ammonia (NH ₃) | µg/m ³ | BDL(MDL<0.02) | 400 | MASA-401 3 rd Ed |
| Benzene (C ₆ H ₆) | µg/m ³ | BDL(MDL<0.2) | 05 | IS 5182(part 11)2006 (RA 2017) |
| Benzo (a) Pyrene (BaP) | ng/m ³ | BDL(MDL<1) | 01 | CPCB Manual Vol 1 2011 |
| Arsenic (As) | ng/m ³ | BDL(MDL<0.1) | 06 | MASA-302 3 rd Ed |
| Nickel (Ni) | ng/m ³ | BDL(MDL<7) | 20 | MASA-822 3 rd Ed |

NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.
 2) The above results relate only to the item tested.
 3) NAAQS-National Ambient Air Quality Standards
 4) BDL - Below Detectable Limit.



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ANALYSIS REPORT FOR AMBIENT AIR SURVEILLANCE

| | | | |
|---------------------|---|------------------------|------------|
| Report No | SEET/AA/09/22/196 | Date | 28/09/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | Duration of sampling | 24 Hrs |
| Reference | ----- | | |
| Date of sampling | 20/09/2022 | Sample Receipt Date | 21/09/2022 |
| Analysis Start Date | 22/09/2022 | Analysis Complete Date | 26/09/2022 |

AMBIENT AIR STATION

| | | | |
|---------------------|---------------------------|-------------------|-----------------------------|
| Location of H.V.S. | Near Material Gate (V-23) | Lateral Distance | 5.0 Mtr. From Material Gate |
| Ambient Temperature | 30.4°C | Receptor Distance | 1.5 Mtr. From Ground Level |

POLLUTIONAL PARAMETERS

| Parameters | Units | Result | NAAQS Limits | Method |
|--|-------------------|---------------|--------------|--------------------------------|
| Particulate Matter PM ₁₀ | µg/m ³ | 58.2 | 100 | Instr.Manual version 2.01 |
| Particulate Matter PM _{2.5} | µg/m ³ | 39.6 | 60 | CPCB Manual Volume I |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 40.5 | 80 | IS 5182(part 2)2001 (RA 2017) |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 24.7 | 80 | IS 5182(part 2)2006 (RA 2017) |
| Ozone (O ₃) | µg/m ³ | BDL(MDL<19.6) | 100 | MASA-411 3 rd Ed |
| Lead (Pb) | µg/m ³ | BDL(MDL<0.1) | 1.0 | MASA-822 3 rd Ed |
| Carbon Monoxide (CO) | mg/m ³ | 0.62 | 02 | IS 5182(part 10)1999 (RA 2014) |
| Ammonia (NH ₃) | µg/m ³ | BDL(MDL<0.02) | 400 | MASA-401 3 rd Ed |
| Benzene (C ₆ H ₆) | µg/m ³ | BDL(MDL<0.2) | 05 | IS 5182(part 11)2006 (RA 2017) |
| Benzo (a) Pyrene (BaP) | ng/m ³ | BDL(MDL<1) | 01 | CPCB Manual Vol I 2011 |
| Arsenic (As) | ng/m ³ | BDL(MDL<0.1) | 06 | MASA-302 3 rd Ed |
| Nickel (Ni) | ng/m ³ | BDL(MDL<7) | 20 | MASA-822 3 rd Ed |

- NOTE:** 1) The above results relate only to the condition prevailing at the time of sampling.
2) The above results relate only to the item tested.
3) NAAQS-National Ambient Air Quality Standards
4) BDL - Below Detectable Limit.



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13/10/22



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ANALYSIS REPORT FOR AMBIENT AIR SURVEILLANCE

| | | | |
|---------------------|---|------------------------|------------|
| Report No | SEET/AA/12/22/143 | Date | 24/12/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | Duration of sampling | 24 hrs |
| Reference | ----- | | |
| Date of sampling | 13/12/2022 | Sample Receipt Date | 14/12/2022 |
| Analysis Start Date | 15/12/2022 | Analysis Complete Date | 22/12/2022 |


AMBIENT AIR STATION

| | | | |
|---------------------|-----------------------|-------------------|----------------------------|
| Location of H.V.S. | Near Gate No.3 (V-23) | Lateral Distance | 5.0 Mtr. From Gate No.3 |
| Ambient Temperature | 31.9°C | Receptor Distance | 1.5 Mtr. From Ground Level |


POLLUTIONAL PARAMETERS

| Parameters | Units | Result | NAAQS Limits | Method |
|--|-------------------|---------------|--------------|--------------------------------|
| Particulate Matter PM ₁₀ | µg/m ³ | 49.8 | 100 | Instr.Manual version 2.01 |
| Particulate Matter PM _{2.5} | µg/m ³ | 28.2 | 60 | CPCB Manual Volume 1 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 34.1 | 80 | IS 5182(part 2)2001 (RA 2017) |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 27.8 | 80 | IS 5182(part 2)2006 (RA 2017) |
| Ozone (O ₃) | µg/m ³ | BDL(MDL<19.6) | 100 | MASA-411 3 rd Ed |
| Lead (Pb) | µg/m ³ | BDL(MDL<0.1) | 1.0 | MASA-822 3 rd Ed |
| Carbon Monoxide (CO) | mg/m ³ | 0.58 | 02 | IS 5182(part 10)1999 (RA 2014) |
| Ammonia (NH ₃) | µg/m ³ | BDL(MDL<0.02) | 400 | MASA-401 3 rd Ed |
| Benzene (C ₆ H ₆) | µg/m ³ | BDL(MDL<0.2) | 05 | IS 5182(part 11)2006 (RA 2017) |
| Benzo (a) Pyrene (BaP) | ng/m ³ | BDL(MDL<1) | 01 | CPCB Manual Vol 1 2011 |
| Arsenic (As) | ng/m ³ | BDL(MDL<0.1) | 06 | MASA-302 3 rd Ed |
| Nickel (Ni) | ng/m ³ | BDL(MDL<7) | 20 | MASA-822 3 rd Ed |

NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.
2) The above results relate only to the item tested.
3) NAAQS-National Ambient Air Quality Standards
4) BDL - Below Detectable Limit.


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16/01/23

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ANALYSIS REPORT FOR AMBIENT AIR SURVEILLANCE

| | | | |
|---------------------|---|------------------------|------------|
| Report No | SEET/AA/12/22/144 | Date | 24/12/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad – 410208 | | |
| Sample collected by | AA Representative | Duration of sampling | 24 hrs |
| Reference | ----- | | |
| Date of sampling | 13/12/2022 | Sample Receipt Date | 14/12/2022 |
| Analysis Start Date | 15/12/2022 | Analysis Complete Date | 22/12/2022 |


AMBIENT AIR STATION

| | | | |
|---------------------|--------------------------------|-------------------|---|
| Location of H.V.S. | Near Material Gate No. 6 (EOU) | Lateral Distance | 5.0 Mtr. From Material Gate No. 6 (EOU) |
| Ambient Temperature | 31.9°C | Receptor Distance | 1.5 Mtr. From Ground Level |

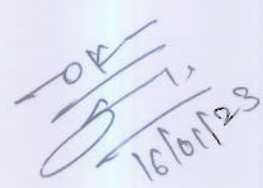
POLLUTIONAL PARAMETERS

| Parameters | Units | Result | NAAQS Limits | Method |
|--|-------------------|---------------|--------------|--------------------------------|
| Particulate Matter PM ₁₀ | µg/m ³ | 53.4 | 100 | Instr.Manual version 2.01 |
| Particulate Matter PM _{2.5} | µg/m ³ | 34.1 | 60 | CPCB Manual Volume 1 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 29.4 | 80 | IS 5182(part 2)2001 (RA 2017) |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 22.3 | 80 | IS 5182(part 2)2006 (RA 2017) |
| Ozone (O ₃) | µg/m ³ | BDL(MDL<19.6) | 100 | MASA-411 3 rd Ed |
| Lead (Pb) | µg/m ³ | BDL(MDL<0.1) | 1.0 | MASA-822 3 rd Ed |
| Carbon Monoxide (CO) | mg/m ³ | 0.50 | 02 | IS 5182(part 10)1999 (RA 2014) |
| Ammonia (NH ₃) | µg/m ³ | BDL(MDL<0.02) | 400 | MASA-401 3 rd Ed |
| Benzene (C ₆ H ₆) | µg/m ³ | BDL(MDL<0.2) | 05 | IS 5182(part 11)2006 (RA 2017) |
| Benzo (a) Pyrene (BaP) | ng/m ³ | BDL(MDL<1) | 01 | CPCB Manual Vol 1 2011 |
| Arsenic (As) | ng/m ³ | BDL(MDL<0.1) | 06 | MASA-302 3 rd Ed |
| Nickel (Ni) | ng/m ³ | BDL(MDL<7) | 20 | MASA-822 3 rd Ed |

NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.
2) The above results relate only to the item tested.
3) NAAQS-National Ambient Air Quality Standards
4) BDL – Below Detectable Limit.


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ANALYSIS REPORT FOR AMBIENT AIR SURVEILLANCE

| | | | |
|---------------------|---|------------------------|------------|
| Report No | SEET/AA/12/22/145 | Date | 24/12/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Talaja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | Duration of sampling | 24 hrs |
| Reference | ----- | | |
| Date of sampling | 13/12/2022 | Sample Receipt Date | 14/12/2022 |
| Analysis Start Date | 15/12/2022 | Analysis Complete Date | 22/12/2022 |

AMBIENT AIR STATION

| | | | |
|----------------------|---------------------------|-------------------|------------------------------|
| Location of H. V. S. | Near MED Ware House (MED) | Lateral Distance | 5.0 Mtr. From MED Ware House |
| Ambient Temperature | 31.9°C | Receptor Distance | 1.5 Mtr. From Ground Level |

POLLUTIONAL PARAMETERS

| Parameters | Units | Result | NAAQS Limits | Method |
|--|-------------------|---------------|--------------|--------------------------------|
| Particulate Matter PM ₁₀ | µg/m ³ | 35.4 | 100 | Instr.Manual version 2.01 |
| Particulate Matter PM _{2.5} | µg/m ³ | 23.8 | 60 | CPCB Manual Volume 1 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 15.5 | 80 | IS 5182(part 2)2001 (RA 2017) |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 12.3 | 80 | IS 5182(part 2)2006 (RA 2017) |
| Ozone (O ₃) | µg/m ³ | BDL(MDL<19.6) | 100 | MASA-411 3 rd Ed |
| Lead (Pb) | µg/m ³ | BDL(MDL<0.1) | 1.0 | MASA-822 3 rd Ed |
| Carbon Monoxide (CO) | mg/m ³ | 0.20 | 02 | IS 5182(part 10)1999 (RA 2014) |
| Ammonia (NH ₃) | µg/m ³ | BDL(MDL<0.02) | 400 | MASA-401 3 rd Ed |
| Benzene (C ₆ H ₆) | µg/m ³ | BDL(MDL<0.2) | 05 | IS 5182(part 11)2006 (RA 2017) |
| Benzo (a) Pyrene (BaP) | ng/m ³ | BDL(MDL<1) | 01 | CPCB Manual Vol 1 2011 |
| Arsenic (As) | ng/m ³ | BDL(MDL<0.1) | 06 | MASA-302 3 rd Ed |
| Nickel (Ni) | ng/m ³ | BDL(MDL<7) | 20 | MASA-822 3 rd Ed |

NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.
2) The above results relate only to the item tested.
3) NAAQS-National Ambient Air Quality Standards
4) BDL - Below Detectable Limit.

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ANALYSIS REPORT FOR AMBIENT AIR SURVEILLANCE

| | | | |
|---------------------|---|------------------------|------------|
| Report No | SEET/AA/12/22/146 | Date | 24/12/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Talaja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | Duration of sampling | 24 hrs |
| Reference | ----- | | |
| Date of sampling | 13/12/2022 | Sample Receipt Date | 14/12/2022 |
| Analysis Start Date | 15/12/2022 | Analysis Complete Date | 22/12/2022 |

AMBIENT AIR STATION

| | | | |
|---------------------|-----------------------|-------------------|--------------------------------|
| Location of H.V.S. | Near Admin Gate (EOU) | Lateral Distance | 5.0 Mtr. From Admin Gate (EOU) |
| Ambient Temperature | 31.9°C | Receptor Distance | 1.5 Mtr. From Ground Level |

POLLUTIONAL PARAMETERS

| Parameters | Units | Result | NAAQS Limits | Method |
|--|-------------------|---------------|--------------|--------------------------------|
| Particulate Matter PM ₁₀ | µg/m ³ | 47.2 | 100 | Instr.Manual version 2.01 |
| Particulate Matter PM _{2.5} | µg/m ³ | 28.6 | 60 | CPCB Manual Volume 1 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 30.5 | 80 | IS 5182(part 2)2001 (RA 2017) |
| Oxide of Nitrogen (NO _x) | µg/m ³ | 18.6 | 80 | IS 5182(part 2)2006 (RA 2017) |
| Ozone (O ₃) | µg/m ³ | BDL(MDL<19.6) | 100 | MASA-411 3 rd Ed |
| Lead (Pb) | µg/m ³ | BDL(MDL<0.1) | 1.0 | MASA-822 3 rd Ed |
| Carbon Monoxide (CO) | mg/m ³ | 0.43 | 02 | IS 5182(part 10)1999 (RA 2014) |
| Ammonia (NH ₃) | µg/m ³ | BDL(MDL<0.02) | 400 | MASA-401 3 rd Ed |
| Benzene (C ₆ H ₆) | µg/m ³ | BDL(MDL<0.2) | 05 | IS 5182(part 11)2006 (RA 2017) |
| Benzo (a) Pyrene (BaP) | ng/m ³ | BDL(MDL<1) | 01 | CPCB Manual Vol 1 2011 |
| Arsenic (As) | ng/m ³ | BDL(MDL<0.1) | 06 | MASA-302 3 rd Ed |
| Nickel (Ni) | ng/m ³ | BDL(MDL<7) | 20 | MASA-822 3 rd Ed |

NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.
2) The above results relate only to the item tested.
3) NAAQS-National Ambient Air Quality Standards
4) BDL - Below Detectable Limit.

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ANALYSIS REPORT FOR AMBIENT AIR SURVEILLANCE

| | | | |
|---------------------|---|------------------------|------------|
| Report No | SEET/AA/12/22/142 | Date | 24/12/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | Duration of sampling | 24 Hrs |
| Reference | ----- | | |
| Date of sampling | 13/12/2022 | Sample Receipt Date | 14/12/2022 |
| Analysis Start Date | 15/12/2022 | Analysis Complete Date | 22/12/2022 |

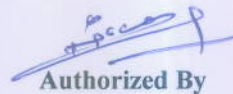
AMBIENT AIR STATION

| | | | |
|---------------------|---------------------------|-------------------|-----------------------------|
| Location of H.V.S. | Near Material Gate (V-23) | Lateral Distance | 5.0 Mtr. From Material Gate |
| Ambient Temperature | 31.9°C | Receptor Distance | 1.5 Mtr. From Ground Level |

POLLUTIONAL PARAMETERS

| Parameters | Units | Result | NAAQS Limits | Method |
|--|-------------------|---------------|--------------|--------------------------------|
| Particulate Matter PM ₁₀ | µg/m ³ | 56.4 | 100 | Instr.Manual version 2.01 |
| Particulate Matter PM _{2.5} | µg/m ³ | 37.5 | 60 | CPCB Manual Volume 1 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 35.7 | 80 | IS 5182(part 2)2001 (RA 2017) |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 22.5 | 80 | IS 5182(part 2)2006 (RA 2017) |
| Ozone (O ₃) | µg/m ³ | BDL(MDL<19.6) | 100 | MASA-411 3 rd Ed |
| Lead (Pb) | µg/m ³ | BDL(MDL<0.1) | 1.0 | MASA-822 3 rd Ed |
| Carbon Monoxide (CO) | mg/m ³ | 0.57 | 02 | IS 5182(part 10)1999 (RA 2014) |
| Ammonia (NH ₃) | µg/m ³ | BDL(MDL<0.02) | 400 | MASA-401 3 rd Ed |
| Benzene (C ₆ H ₆) | µg/m ³ | BDL(MDL<0.2) | 05 | IS 5182(part 11)2006 (RA 2017) |
| Benzo (a) Pyrene (BaP) | ng/m ³ | BDL(MDL<1) | 01 | CPCB Manual Vol 1 2011 |
| Arsenic (As) | ng/m ³ | BDL(MDL<0.1) | 06 | MASA-302 3 rd Ed |
| Nickel (Ni) | ng/m ³ | BDL(MDL<7) | 20 | MASA-822 3 rd Ed |

NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.
2) The above results relate only to the item tested.
3) NAAQS-National Ambient Air Quality Standards
4) BDL - Below Detectable Limit.


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Annexure - B (collectively)



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ANALYSIS REPORT FOR STACK EMISSION

| | | | |
|---------------------|--|------------------------|------------|
| Report No | SEET/AA/09/22/226 | Date | 28/09/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad -- 410208 | | |
| Sample collected by | AA Representative | | |
| Reference | ----- | | |
| Date of sampling | 22/09/2022 | Sample Receipt Date | 23/09/2022 |
| Analysis Start Date | 24/09/2022 | Analysis Complete Date | 26/09/2022 |

DETAILS OF STACK

| Description | Unit | Result |
|--------------------------|---------------------|-------------------|
| Stack No. | -- | S-8 |
| Attached To | -- | D.G. Set 1000 KVA |
| Shape | -- | Round |
| Diameter | M | 0.8 |
| Height From Ground Level | M | 33 |
| Temperature | °C | 156 |
| Velocity of Flue Gases | M/Sec | 9.26 |
| Volume of Flue Gases | Nm ³ /Hr | 11634 |
| Type of Fuel | Kg/Hr. | H.S.D |

POLLUTION PARAMETERS

| PARAMETERS | METHOD | UNIT | LIMIT | RESULT |
|--------------------------|--------------------------|--------------------|-------|--------|
| Total Particulate Matter | IS 11255 (part I)-1985 | mg/Nm ³ | 150 | 51.7 |
| Sulphur Di-Oxide | IS 1255 (part II) - 1985 | kg/day | 81.6 | 10.95 |
| Oxide of Nitrogen | IS 11255 (part 7)-2005 | ppm | NA | 11.58 |
| Carbon Dioxide | IS 307 :1966 | mg/m ³ | NA | 0.10 |
| Sulphur Content | --- | % | 1.0 | 0.0014 |

NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.
 2) The above results relate only to the item tested.
 3) BDL - Below Detectable Limit.



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ANALYSIS REPORT FOR STACK EMISSION

| | | | |
|---------------------|---|------------------------|------------|
| Report No | SEET/AA/09/22/225 | Date | 28/09/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | | |
| Reference | ----- | | |
| Date of sampling | 22/09/2022 | Sample Receipt Date | 23/09/2022 |
| Analysis Start Date | 24/09/2022 | Analysis Complete Date | 26/09/2022 |

DETAILS OF STACK

| Description | Unit | Result |
|--------------------------|---------------------|-----------------------|
| Stack No. | -- | S-7 |
| Stack Attached To | -- | D.G. Set 1.9 MW (EOU) |
| Shape | -- | Round |
| Diameter | M | 0.8 |
| Height From Ground Level | M | 45 |
| Temperature | °C | 187 |
| Velocity of Flue Gases | M/Sec | 9.10 |
| Volume of Flue Gases | Nm ³ /Hr | 10662 |
| Type of Fuel | Kg/Hr. | F.O |

POLLUTION PARAMETERS

| PARAMETERS | METHOD | UNIT | LIMIT | RESULT |
|--------------------------|--------------------------|--------------------|-------|--------|
| Total Particulate Matter | IS 11255 (part I)-1985 | mg/Nm ³ | 150 | 48.7 |
| Sulphur Di-Oxide | IS 1255 (part II) - 1985 | kg/day | 810 | 24.2 |
| Oxide of Nitrogen | IS 11255 (part 7)-2005 | ppm | NA | 9.57 |
| Carbon Dioxide | IS 307 :1966 | mg/m ³ | NA | 0.20 |
| Sulphur Content | --- | % | 4.5 | 0.0035 |

NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.
2) The above results relate only to the item tested.
3) BDL - Below Detectable Limit.



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ANALYSIS REPORT FOR STACK EMISSION

| | | | |
|---------------------|---|------------------------|------------|
| Report No | SEET/AA/09/22/215 | Date | 28/09/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | | |
| Reference | ----- | | |
| Date of sampling | 22/09/2022 | Sample Receipt Date | 23/09/2022 |
| Analysis Start Date | 24/09/2022 | Analysis Complete Date | 26/09/2022 |

DETAILS OF STACK

| Description | Unit | Result |
|--------------------------|---------------------|----------------------|
| Stack No. | -- | S-6 |
| Stack Attached To | -- | Scrubber No .3 (MED) |
| Shape | -- | Round |
| Diameter | M | 0.6 |
| Height From Ground Level | M | 30 |
| Temperature | °C | 35 |
| Velocity of Flue Gases | M/Sec | 6.27 |
| Volume of Flue Gases | Nm ³ /Hr | 6171 |
| Type of Fuel | -- | --- |

POLLUTION PARAMETERS

| PARAMETERS | METHOD | UNIT | LIMIT | RESULT |
|--------------------------|--------------------------|--------------------|-------|----------------|
| Total Particulate Matter | IS 11255 (part I)-1985 | mg/Nm ³ | 150 | 16.6 |
| Sulphur Di-Oxide | IS 1255 (part II) - 1985 | ppm | 50 | B.D.L (MDL <1) |
| Oxide of Nitrogen | IS 11255 (part 7)-2005 | ppm | NA | B.D.L (MDL <1) |
| Carbon Dioxide | IS 307 :1966 | mg/m ³ | NA | 0.10 |
| Acid Mist | EPA Method | ppm | 35 | 10.43 |

NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.

2) The above results relate only to the item tested.

3) BDL - Below Detectable Limit.



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ANALYSIS REPORT FOR STACK EMISSION

| | | | |
|---------------------|--|------------------------|------------|
| Report No | SEET/AA/09/22/223 | Date | 28/09/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410 208 | | |
| Sample collected by | AA Representative | | |
| Reference | ----- | | |
| Date of sampling | 22/09/2022 | Sample Receipt Date | 23/09/2022 |
| Analysis Start Date | 24/09/2022 | Analysis Complete Date | 26/09/2022 |

DETAILS OF STACK

| Description | Unit | Result |
|--------------------------|---------------------|----------------------|
| Stack No. | -- | S-5 |
| Stack Attached To | -- | Scrubber No .2 (EOU) |
| Shape | -- | Round |
| Diameter | M | 0.6 |
| Height From Ground Level | M | 30 |
| Temperature | °C | 37 |
| Velocity of Flue Gases | M/Sec | 7.30 |
| Volume of Flue Gases | Nm ³ /Hr | 7139 |
| Type of Fuel | -- | --- |

POLLUTION PARAMETERS

| PARAMETERS | METHOD | UNIT | LIMIT | RESULT |
|--------------------------|--------------------------|--------------------|-------|----------------|
| Total Particulate Matter | IS 11255 (part I)-1985 | mg/Nm ³ | 150 | 21.2 |
| Sulphur Di-Oxide | IS 1255 (part II) - 1985 | ppm | 50 | B.D.L (MDL <1) |
| Oxide of Nitrogen | IS 11255 (part 7)-2005 | ppm | NA | B.D.L (MDL <1) |
| Carbon Dioxide | IS 307 :1966 | mg/m ³ | NA | 0.12 |
| Acid Mist | EPA Method | ppm | 35 | 12.84 |

NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.
2) The above results relate only to the item tested.
3) BDL - Below Detectable Limit.



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ANALYSIS REPORT FOR STACK EMISSION

| | | | |
|---------------------|---|------------------------|------------|
| Report No | SEET/AA/09/22/208 | Date | 28/09/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | | |
| Reference | ----- | | |
| Date of sampling | 20/09/2022 | Sample Receipt Date | 21/09/2022 |
| Analysis Start Date | 22/09/2022 | Analysis Complete Date | 24/09/2022 |

DETAILS OF STACK

| Description | Unit | Result |
|--------------------------|---------------------|-----------------------|
| Stack No. | -- | S-4 |
| Stack Attached To | -- | Scrubber No .1 (V-23) |
| Shape | -- | Round |
| Diameter | M | 0.6 |
| Height From Ground Level | M | 30 |
| Temperature | °C | 38 |
| Velocity of Flue Gases | M/Sec | 6.10 |
| Volume of Flue Gases | Nm ³ /Hr | 5946 |
| Type of Fuel | -- | --- |

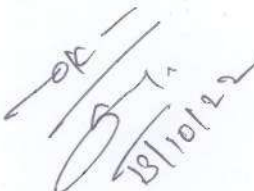
POLLUTION PARAMETERS

| PARAMETERS | METHOD | UNIT | LIMIT | RESULT |
|--------------------------|--------------------------|--------------------|-------|----------------|
| Total Particulate Matter | IS 11255 (part I)-1985 | mg/Nm ³ | 150 | 14.8 |
| Sulphur Di-Oxide | IS 1255 (part II) - 1985 | ppm | 50 | B.D.L (MDL <1) |
| Oxide of Nitrogen | IS 11255 (part 7)-2005 | ppm | NA | 2.15 |
| Carbon Dioxide | IS 307 :1966 | mg/m ³ | NA | 0.12 |
| Acid Mist | EPA Method | ppm | 35 | 9.95 |

NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.
2) The above results relate only to the item tested.
3) BDL - Below Detectable Limit.




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ANALYSIS REPORT FOR STACK EMISSION

| | | | |
|---------------------|---|------------------------|------------|
| Report No | SEET/AA/09/22/217 | Date | 28/09/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | | |
| Reference | ----- | | |
| Date of sampling | 21/09/2022 | Sample Receipt Date | 22/09/2022 |
| Analysis Start Date | 23/09/2022 | Analysis Complete Date | 24/09/2022 |

DETAILS OF STACK

| Description | Unit | Result |
|--------------------------|---------------------|------------------------|
| Stack No. | -- | S-3 |
| Stack Attached To | -- | Thermopac Boiler (EOU) |
| Shape | -- | Round |
| Diameter | M | 0.4 |
| Height From Ground Level | M | 30.25 |
| Temperature | °C | 158 |
| Velocity of Flue Gases | M/Sec | 10.0 |
| Volume of Flue Gases | Nm ³ /Hr | 3126 |
| Type of Fuel | Kg/Hr. | F.O |

POLLUTION PARAMETERS

| PARAMETERS | METHOD | UNIT | LIMIT | RESULT |
|--------------------------|--------------------------|--------------------|--------|--------|
| Total Particulate Matter | IS 11255 (part I)-1985 | mg/Nm ³ | 150 | 62.7 |
| Sulphur Di-Oxide | IS 1255 (part II) - 1985 | kg/day | 155.52 | 13.85 |
| Oxide of Nitrogen | IS 11255 (part 7)-2005 | Ppm | -- | 8.15 |
| Carbon Dioxide | IS 307 :1966 | mg/m ³ | -- | 0.23 |
| Sulphur Content | --- | % | 4.5 | 0.0070 |

NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.
2) The above results relate only to the item tested.
3) BDL - Below Detectable Limit.



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ANALYSIS REPORT FOR STACK EMISSION

| | | | |
|---------------------|---|------------------------|------------|
| Report No | SEET/AA/09/22/216 | Date | 28/09/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | | |
| Reference | ----- | | |
| Date of sampling | 21/09/2022 | Sample Receipt Date | 22/09/2022 |
| Analysis Start Date | 23/09/2022 | Analysis Complete Date | 24/09/2022 |

DETAILS OF STACK

| Description | Unit | Result |
|--------------------------|---------------------|---|
| Stack No. | -- | S-2 |
| Stack Attached To | -- | Coal Fire Boiler (5TPH) Cyclone Separator + Bag Filter |
| Shape | -- | Round |
| Diameter | M | 0.4 |
| Height From Ground Level | M | 35.0 |
| Temperature | °C | 173 |
| Velocity of Flue Gases | M/Sec | 10.76 |
| Volume of Flue Gases | Nm ³ /Hr | 3251 |
| Type of Fuel | Kg/Hr. | Coal |

POLLUTION PARAMETERS

| PARAMETERS | METHOD | UNIT | LIMIT | RESULT |
|--------------------------|--------------------------|--------------------|-------|--------|
| Total Particulate Matter | IS 11255 (part I)-1985 | mg/Nm ³ | 150 | 58.2 |
| Sulphur Di-Oxide | IS 1255 (part II) - 1985 | kg/day | 12.0 | 4.05 |
| Oxide of Nitrogen | IS 11255 (part 7)-2005 | ppm | -- | B.D.L |
| Carbon Dioxide | IS 307 :1966 | mg/m ³ | -- | 0.12 |
| Sulphates | EPA Method | ppm | N.A. | 1.15 |
| Chloride | EPA-26 A Method | mg/Nm ³ | N.A. | 0.008 |
| Sulphur Content | --- | % | 0.5 | 0.0019 |

NOTE: 1)The above results relate only to the condition prevailing at the time of sampling.
2) The above results relate only to the item tested.
3) BDL - Below Detectable Limit.



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ANALYSIS REPORT FOR STACK EMISSION

| | | | |
|---------------------|---|------------------------|------------|
| Report No | SEET/AA/09/22/229 | Date | 28/09/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Talaja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | | |
| Reference | ----- | | |
| Date of sampling | 23/09/2022 | Sample Receipt Date | 24/09/2022 |
| Analysis Start Date | 26/09/2022 | Analysis Complete Date | 27/09/2022 |

DETAILS OF STACK

| Description | Unit | Result |
|--------------------------|---------------------|-------------------------------------|
| Stack No. | -- | S-1 |
| Stack Attached To | -- | Oil Fire Boiler No.1 & 2(2.5 TPH) |
| Shape | -- | Round |
| Diameter | M | 0.8 |
| Height From Ground Level | M | 33.3 |
| Temperature | ^o C | 172 |
| Velocity of Flue Gases | M/Sec | 8.84 |
| Volume of Flue Gases | Nm ³ /Hr | 10707 |
| Type of Fuel | Kg/Hr. | F.O./L.D.O- 179 |

POLLUTION PARAMETERS

| PARAMETERS | METHOD | UNIT | LIMIT | RESULT |
|--------------------------|--------------------------|--------------------|-------|--------|
| Total Particulate Matter | IS 11255 (part I)-1985 | mg/Nm ³ | 150 | 60.5 |
| Sulphur Di-Oxide | IS 1255 (part II) - 1985 | kg/day | 86.4 | 17.7 |
| Oxide of Nitrogen | IS 11255 (part 7)-2005 | ppm | -- | 16.45 |
| Carbon Dioxide | IS 307 :1966 | mg/m ³ | -- | 0.22 |
| Sulphur Content | --- | % | 4.5 | 0.0026 |

NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.
2) The above results relate only to the item tested.
3) BDL - Below Detectable Limit



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ANALYSIS REPORT FOR STACK EMISSION

| | | | |
|---------------------|---|------------------------|------------|
| Report No | SEET/AA/09/22/227 | Date | 28/09/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | | |
| Reference | ----- | | |
| Date of sampling | 23/09/2022 | Sample Receipt Date | 24/09/2022 |
| Analysis Start Date | 26/09/2022 | Analysis Complete Date | 27/09/2022 |

DETAILS OF STACK

| Description | Unit | Result |
|--------------------------|---------------------|----------------------------------|
| Stack No. | -- | S-1 |
| Stack Attached To | -- | Oil Fire Boiler No.1 (2.5 TPH) |
| Shape | -- | Round |
| Diameter | M | 0.8 |
| Height From Ground Level | M | 33.3 |
| Temperature | °C | 160 |
| Velocity of Flue Gases | M/Sec | 9.21 |
| Volume of Flue Gases | Nm ³ /Hr | 11464 |
| Type of Fuel | Kg/Hr. | F.O./L.D.O- 179 |

POLLUTION PARAMETERS

| PARAMETERS | METHOD | UNIT | LIMIT | RESULT |
|--------------------------|--------------------------|--------------------|-------|--------|
| Total Particulate Matter | IS 11255 (part I)-1985 | mg/Nm ³ | 150 | 58.5 |
| Sulphur Di-Oxide | IS 1255 (part II) - 1985 | kg/day | 86.4 | 14.2 |
| Oxide of Nitrogen | IS 11255 (part 7)-2005 | ppm | -- | 11.86 |
| Carbon Dioxide | IS 307 :1966 | mg/m ³ | -- | 0.18 |
| Sulphur Content | --- | % | 4.5 | 0.0019 |

NOTE:1)The above results relate only to the condition prevailing at the time of sampling.

2) The above results relate only to the item tested.

3) BDL - Below Detectable Limit



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| ANALYSIS REPORT FOR STACK EMISSION | | | | |
|--|---|-------------------------------------|------------|--------|
| Report No | SEET/AA/12/22/180 | Date | 24/12/2022 | |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad – 410208 | | | |
| Sample collected by | AA Representative | | | |
| Reference | ----- | | | |
| Date of sampling | 15/12/2022 | Sample Receipt Date | 16/12/2022 | |
| Analysis Start Date | 17/12/2022 | Analysis Complete Date | 20/12/2022 | |
| DETAILS OF STACK | | | | |
| Description | Unit | Result | | |
| Stack No. | -- | S-1 | | |
| Stack Attached To | -- | Oil Fire Boiler No.1 & 2(2.5 TPH) | | |
| Shape | -- | Round | | |
| Diameter | M | 0.8 | | |
| Height From Ground Level | M | 33.3 | | |
| Temperature | °C | 167 | | |
| Velocity of Flue Gases | M/Sec | 8.90 | | |
| Volume of Flue Gases | Nm ³ /Hr | 10902 | | |
| Type of Fuel | Kg/Hr. | F.O./L.D.O– 179 | | |
| POLLUTION PARAMETERS | | | | |
| PARAMETERS | METHOD | UNIT | LIMIT | RESULT |
| Total Particulate Matter | IS 11255 (part I)-1985 | mg/Nm ³ | 150 | 52.7 |
| Sulphur Di-Oxide | IS 1255 (part II) – 1985 | kg/day | 648 | 19.4 |
| Oxide of Nitrogen | IS 11255 (part 7)-2005 | ppm | -- | 24.25 |
| Carbon Dioxide | IS 307 :1966 | mg/m ³ | -- | 0.27 |
| Sulphur Content | --- | % | 4.5 | 0.0028 |
| NOTE:1)The above results relate only to the condition prevailing at the time of sampling. 2) The above results relate only to the item tested. 3) BDL – Below Detectable Limit | | | | |
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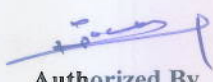



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| ANALYSIS REPORT FOR STACK EMISSION | | | | |
|---|---|---|---------------|---|
| Report No | SEET/AA/12/22/167 | Date | 24/12/2022 | |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad – 410208 | | | |
| Sample collected by | AA Representative | | | |
| Reference | ----- | | | |
| Date of sampling | 14/12/2022 | Sample Receipt Date | 15/12/2022 | |
| Analysis Start Date | 16/12/2022 | Analysis Complete Date | 19/12/2022 | |
| DETAILS OF STACK | | | | |
| Description | Unit | Result | | |
| Stack No. | -- | S-2 | | |
| Stack Attached To | -- | Coal Fire Boiler (5TPH) Cyclone Separator + Bag Filter | | |
| Shape | -- | Round | | |
| Diameter | M | 0.4 | | |
| Height From Ground Level | M | 35.0 | | |
| Temperature | °C | 168 | | |
| Velocity of Flue Gases | M/Sec | 10.28 | | |
| Volume of Flue Gases | Nm ³ /Hr | 3141 | | |
| Type of Fuel | Kg/Hr. | Coal | | |
| POLLUTION PARAMETERS | | | | |
| PARAMETERS | METHOD | UNIT | LIMIT | RESULT |
| Total Particulate Matter | IS 11255 (part I)-1985 | mg/Nm ³ | 150 | 52.7 |
| Sulphur Di-Oxide | IS 1255 (part II) – 1985 | kg/day | 180 | 9.126 |
| Oxide of Nitrogen | IS 11255 (part 7)-2005 | ppm | -- | 5.60 |
| Carbon Dioxide | IS 307 :1966 | mg/m ³ | -- | 0.16 |
| Sulphates | EPA Method | ppm | N.A. | 1.0 |
| Chloride | EPA-26 A Method | mg/Nm ³ | N.A. | 0.007 |
| Sulphur Content | --- | % | 0.5 | 0.0046 |
| NOTE: 1)The above results relate only to the condition prevailing at the time of sampling. 2) The above results relate only to the item tested. 3) BDL – Below Detectable Limit. | | | | |
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ANALYSIS REPORT FOR STACK EMISSION

| | | | |
|---------------------|---|------------------------|------------|
| Report No | SEET/AA/12/22/168 | Date | 24/12/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad – 410208 | | |
| Sample collected by | AA Representative | | |
| Reference | ----- | | |
| Date of sampling | 14/12/2022 | Sample Receipt Date | 15/12/2022 |
| Analysis Start Date | 16/12/2022 | Analysis Complete Date | 19/12/2022 |

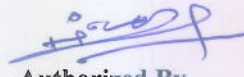
DETAILS OF STACK

| Description | Unit | Result |
|--------------------------|---------------------|------------------------|
| Stack No. | -- | S-3 |
| Stack Attached To | -- | Thermopac Boiler (EOU) |
| Shape | -- | Round |
| Diameter | M | 0.4 |
| Height From Ground Level | M | 30.25 |
| Temperature | °C | 163 |
| Velocity of Flue Gases | M/Sec | 10.22 |
| Volume of Flue Gases | Nm ³ /Hr | 3158 |
| Type of Fuel | Kg/Hr. | F.O |

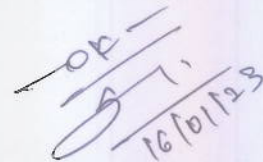
POLLUTION PARAMETERS

| PARAMETERS | METHOD | UNIT | LIMIT | RESULT |
|--------------------------|--------------------------|--------------------|-------|--------|
| Total Particulate Matter | IS 11255 (part I)-1985 | mg/Nm ³ | 150 | 58.4 |
| Sulphur Di-Oxide | IS 1255 (part II) – 1985 | kg/day | 156 | 15.92 |
| Oxide of Nitrogen | IS 11255 (part 7)-2005 | Ppm | -- | 11.65 |
| Carbon Dioxide | IS 307 :1966 | mg/m ³ | -- | 0.32 |
| Sulphur Content | --- | % | 4.5 | 0.0079 |

NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.
2) The above results relate only to the item tested.
3) BDL – Below Detectable Limit.


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| ANALYSIS REPORT FOR STACK EMISSION | | | | |
|---|---|------------------------|---------------|----------------|
| Report No | SEET/AA/12/22/159 | Date | 24/12/2022 | |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad – 410208 | | | |
| Sample collected by | AA Representative | | | |
| Reference | ----- | | | |
| Date of sampling | 13/12/2022 | Sample Receipt Date | 14/12/2022 | |
| Analysis Start Date | 15/12/2022 | Analysis Complete Date | 17/12/2022 | |
| DETAILS OF STACK | | | | |
| Description | Unit | Result | | |
| Stack No. | -- | S-4 | | |
| Stack Attached To | -- | Scrubber No .1 (V-23) | | |
| Shape | -- | Round | | |
| Diameter | M | 0.6 | | |
| Height From Ground Level | M | 30 | | |
| Temperature | °C | 35 | | |
| Velocity of Flue Gases | M/Sec | 6.37 | | |
| Volume of Flue Gases | Nm ³ /Hr | 6270 | | |
| Type of Fuel | -- | --- | | |
| POLLUTION PARAMETERS | | | | |
| PARAMETERS | METHOD | UNIT | LIMIT | RESULT |
| Total Particulate Matter | IS 11255 (part I)-1985 | mg/Nm ³ | 150 | 17.4 |
| Sulphur Di-Oxide | IS 1255 (part II) – 1985 | ppm | 50 | B.D.L (MDL <1) |
| Oxide of Nitrogen | IS 11255 (part 7)-2005 | ppm | NA | 2.35 |
| Carbon Dioxide | IS 307 :1966 | mg/m ³ | NA | 0.16 |
| Acid Mist | EPA Method | ppm | 35 | 11.55 |
| NOTE: 1)The above results relate only to the condition prevailing at the time of sampling. 2) The above results relate only to the item tested. 3) BDL – Below Detectable Limit. | | | | |
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| ANALYSIS REPORT FOR STACK EMISSION | | | | |
|---|--|------------------------|---------------|----------------|
| Report No | SEET/AA/12/22/174 | Date | 24/12/2022 | |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | | |
| Address of Client | Plot No. V-23 & 01, MIDC Talaja, Tal. Panvel, Dist. Raigad - 410 208 | | | |
| Sample collected by | AA Representative | | | |
| Reference | ----- | | | |
| Date of sampling | 13/12/2022 | Sample Receipt Date | 14/12/2022 | |
| Analysis Start Date | 15/12/2022 | Analysis Complete Date | 17/12/2022 | |
| DETAILS OF STACK | | | | |
| Description | Unit | Result | | |
| Stack No. | -- | S-5 | | |
| Stack Attached To | -- | Scrubber No .2 (EOU) | | |
| Shape | -- | Round | | |
| Diameter | M | 0.6 | | |
| Height From Ground Level | M | 30 | | |
| Temperature | °C | 35 | | |
| Velocity of Flue Gases | M/Sec | 6.84 | | |
| Volume of Flue Gases | Nm ³ /Hr | 6732 | | |
| Type of Fuel | -- | --- | | |
| POLLUTION PARAMETERS | | | | |
| PARAMETERS | METHOD | UNIT | LIMIT | RESULT |
| Total Particulate Matter | IS 11255 (part I)-1985 | mg/Nm ³ | 150 | 27.8 |
| Sulphur Di-Oxide | IS 1255 (part II) - 1985 | ppm | 50 | B.D.L (MDL <1) |
| Oxide of Nitrogen | IS 11255 (part 7)-2005 | ppm | NA | B.D.L (MDL <1) |
| Carbon Dioxide | IS 307 :1966 | mg/m ³ | NA | 0.12 |
| Acid Mist | EPA Method | ppm | 35 | 12.00 |
| NOTE: 1) The above results relate only to the condition prevailing at the time of sampling. 2) The above results relate only to the item tested. 3) BDL - Below Detectable Limit. | | | | |
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ANALYSIS REPORT FOR STACK EMISSION

| | | | |
|---------------------|---|------------------------|------------|
| Report No | SEET/AA/12/22/166 | Date | 24/12/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | | |
| Reference | ----- | | |
| Date of sampling | 14/12/2022 | Sample Receipt Date | 15/12/2022 |
| Analysis Start Date | 16/12/2022 | Analysis Complete Date | 17/12/2022 |

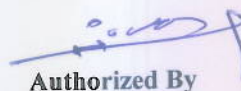
DETAILS OF STACK

| Description | Unit | Result |
|--------------------------|---------------------|----------------------|
| Stack No. | -- | S-6 |
| Stack Attached To | -- | Scrubber No .3 (MED) |
| Shape | -- | Round |
| Diameter | M | 0.6 |
| Height From Ground Level | M | 30 |
| Temperature | °C | 34 |
| Velocity of Flue Gases | M/Sec | 6.26 |
| Volume of Flue Gases | Nm ³ /Hr | 6182 |
| Type of Fuel | -- | --- |

POLLUTION PARAMETERS

| PARAMETERS | METHOD | UNIT | LIMIT | RESULT |
|--------------------------|--------------------------|--------------------|-------|----------------|
| Total Particulate Matter | IS 11255 (part I)-1985 | mg/Nm ³ | 150 | 13.8 |
| Sulphur Di-Oxide | IS 1255 (part II) - 1985 | ppm | 50 | B.D.L (MDL <1) |
| Oxide of Nitrogen | IS 11255 (part 7)-2005 | ppm | NA | B.D.L (MDL <1) |
| Carbon Dioxide | IS 307 :1966 | mg/m ³ | NA | 0.14 |
| Acid Mist | EPA Method | ppm | 35 | 14.65 |

NOTE:1) The above results relate only to the condition prevailing at the time of sampling.
2) The above results relate only to the item tested.
3) BDL - Below Detectable Limit.


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ANALYSIS REPORT FOR STACK EMISSION

| | | | |
|---------------------|---|------------------------|------------|
| Report No | SEET/AA/12/22/176 | Date | 24/12/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | | |
| Reference | ----- | | |
| Date of sampling | 15/12/2022 | Sample Receipt Date | 16/12/2022 |
| Analysis Start Date | 17/12/2022 | Analysis Complete Date | 20/12/2022 |

DETAILS OF STACK

| Description | Unit | Result |
|--------------------------|---------------------|-----------------------|
| Stack No. | --- | S-7 |
| Stack Attached To | --- | D.G. Set 1.9 MW (EOU) |
| Shape | --- | Round |
| Diameter | M | 0.8 |
| Height From Ground Level | M | 45 |
| Temperature | °C | 195 |
| Velocity of Flue Gases | M/Sec | 9.86 |
| Volume of Flue Gases | Nm ³ /Hr | 11355 |
| Type of Fuel | Kg/Hr. | F.O |

POLLUTION PARAMETERS

| PARAMETERS | METHOD | UNIT | LIMIT | RESULT |
|--------------------------|--------------------------|--------------------|-------|--------|
| Total Particulate Matter | IS 11255 (part I)-1985 | mg/Nm ³ | 150 | 52.6 |
| Sulphur Di-Oxide | IS 1255 (part II) - 1985 | kg/day | 864 | 30.8 |
| Oxide of Nitrogen | IS 11255 (part 7)-2005 | ppm | NA | 24.35 |
| Carbon Dioxide | IS 307 :1966 | mg/m ³ | NA | 0.27 |
| Sulphur Content | --- | % | 4.5 | 0.0042 |

NOTE:1) The above results relate only to the condition prevailing at the time of sampling.
2) The above results relate only to the item tested.
3) BDL - Below Detectable Limit.


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ANALYSIS REPORT FOR STACK EMISSION

| | | | | |
|---------------------|---|------------------------|------------|------------|
| Report No | SEET/AA/12/22/177 | | Date | 24/12/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | | |
| Sample collected by | AA Representative | | | |
| Reference | ----- | | | |
| Date of sampling | 15/12/2022 | Sample Receipt Date | 16/12/2022 | |
| Analysis Start Date | 17/12/2022 | Analysis Complete Date | 20/12/2022 | |

DETAILS OF STACK

| Description | Unit | Result |
|--------------------------|---------------------|-------------------|
| Stack No. | -- | S-8 |
| Attached To | -- | D.G. Set 1000 KVA |
| Shape | -- | Round |
| Diameter | M | 0.8 |
| Height From Ground Level | M | 33 |
| Temperature | °C | 162 |
| Velocity of Flue Gases | M/Sec | 9.32 |
| Volume of Flue Gases | Nm ³ /Hr | 11548 |
| Type of Fuel | Kg/Hr. | H.S.D |

POLLUTION PARAMETERS

| PARAMETERS | METHOD | UNIT | LIMIT | RESULT |
|--------------------------|--------------------------|--------------------|-------|--------|
| Total Particulate Matter | IS 11255 (part I)-1985 | mg/Nm ³ | 150 | 48.4 |
| Sulphur Di-Oxide | IS 1255 (part II) - 1985 | kg/day | 96 | 9.76 |
| Oxide of Nitrogen | IS 11255 (part 7)-2005 | ppm | NA | 18.65 |
| Carbon Dioxide | IS 307 :1966 | mg/m ³ | NA | 0.17 |
| Sulphur Content | --- | % | 1.0 | 0.0013 |

NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.

- 2) The above results relate only to the item tested.
- 3) BDL - Below Detectable Limit.

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REPORT FOR AMBIENT NOISE LEVEL MONITORING

| | | | |
|----------------------|---|------|------------|
| Report No | SEET/AA/09/22/205 | Date | 28/09/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad – 410208 | | |
| Sample collected by | AA Representative | | |
| Date of sampling | 21/09/2022 | | |
| Duration Of sampling | 24 hrs | | |
| Reference | ----- | | |

DAY & NIGHT TIME NOISE LEVEL MONITORING

| Sr. No | Sampling Location | Noise Levels in dB(A)(Day Time) | | Noise Levels in dB(A)(Night Time) | | Leq* |
|----------------------------------|-------------------|---------------------------------|------|-----------------------------------|------|------|
| | | Max | Min | Max | Min | |
| 1 | Admin Gate (EOU) | 67.5 | 66.3 | 64.1 | 63.3 | 62.7 |
| MPCB LIMIT In dB(A) (Day Time) | | | | | 75 | |
| MPCB LIMIT In dB(A) (Night Time) | | | | | 70 | |

NOTE: *dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

A "decibel" is a unit in which noise is measured.

"A", in dB (A) Leq, denotes the frequency weighting in the measurement of noise And corresponds to frequency response characteristics of the human hear.

Leq: It is the energy mean of the noise level over a specified period.



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REPORT FOR AMBIENT NOISE LEVEL MONITORING

| | | | |
|----------------------|---|------|------------|
| Report No | SEET/AA/09/22/204 | Date | 28/09/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | | |
| Date of sampling | 20/09/2022 | | |
| Duration Of sampling | 24 hrs | | |
| Reference | ----- | | |

DAY & NIGHT TIME NOISE LEVEL MONITORING

| Sr. No | Sampling Location | Noise Levels in dB(A)(Day Time) | | Noise Levels indB(A) (Night Time) | | Leq* |
|----------------------------------|---------------------------|---------------------------------|------|-----------------------------------|------|------|
| | | Max | Min | Max | Min | |
| 1 | Near MED Ware House (MED) | 67.5 | 66.8 | 58.9 | 55.4 | 60.9 |
| MPCB LIMIT In dB(A) (Day Time) | | | | | | 75 |
| MPCB LIMIT In dB(A) (Night Time) | | | | | | 70 |

NOTE: *dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

A "decibel" is a unit in which noise is measured.

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Leq: It is the energy mean of the noise level over a specified period.



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| | | | |
|----------------------|---|------|------------|
| Report No | SEET/AA/09/22/203 | Date | 28/09/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | | |
| Date of sampling | 21/09/2022 | | |
| Duration Of sampling | 24 hrs | | |
| Reference | ----- | | |

DAY & NIGHT TIME NOISE LEVEL MONITORING

| Sr. No | Sampling Location | Noise Levels in dB(A)(Day Time) | | Noise Levels in dB(A)(Night Time) | | Leq* |
|----------------------------------|---------------------------|---------------------------------|------|-----------------------------------|------|------|
| | | Max | Min | Max | Min | |
| 1 | Material Gate No. 6 (EOU) | 67.9 | 66.8 | 64.3 | 62.9 | 65.7 |
| MPCB LIMIT In dB(A) (Day Time) | | | | | 75 | |
| MPCB LIMIT In dB(A) (Night Time) | | | | | 70 | |

NOTE: *dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

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| | | | |
|----------------------|---|------|------------|
| Report No | SEET/AA/09/22/202 | Date | 28/09/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | | |
| Date of sampling | 20/09/2022 | | |
| Duration Of sampling | 24 hrs | | |
| Reference | ----- | | |

DAY & NIGHT TIME NOISE LEVEL MONITORING

| Sr. No | Sampling Location | Noise Levels in dB(A)(Day Time) | | Noise Levels in dB(A)(Night Time) | | Leq* |
|----------------------------------|-------------------|---------------------------------|------|-----------------------------------|------|------|
| | | Max | Min | Max | Min | |
| 1 | Gate No.3 (V-23) | 69.2 | 67.5 | 62.7 | 60.8 | 62.5 |
| MPCB LIMIT In dB(A) (Day Time) | | | | | 75 | |
| MPCB LIMIT In dB(A) (Night Time) | | | | | 70 | |

NOTE: *dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

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| | | | |
|----------------------|---|------|------------|
| Report No | SEET/AA/09/22/201 | Date | 28/09/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | | |
| Date of sampling | 20/09/2022 | | |
| Duration Of sampling | 24 hrs | | |
| Reference | ----- | | |

DAY & NIGHT TIME NOISE LEVEL MONITORING

| Sr. No | Sampling Location | Noise Levels in dB(A) (Day Time) | | Noise Levels in dB(A)(Night Time) | | Leq ⁺ |
|----------------------------------|----------------------|-------------------------------------|------|--------------------------------------|------|------------------|
| | | Max | Min | Max | Min | |
| I | Material Gate (V-23) | 71.2 | 69.8 | 64.8 | 63.2 | 65.9 |
| MPCB LIMIT In dB(A) (Day Time) | | | | 75 | | |
| MPCB LIMIT In dB(A) (Night Time) | | | | 70 | | |

NOTE: *dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
A "decibel" is a unit in which noise is measured.
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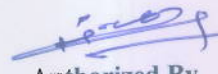
REPORT FOR AMBIENT NOISE LEVEL MONITORING

| | | | |
|----------------------|---|------|------------|
| Report No | SEET/AA/12/22/149 | Date | 24/12/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | | |
| Date of sampling | 13/12/2022 | | |
| Duration Of sampling | 24 hrs | | |
| Reference | ----- | | |

DAY & NIGHT TIME NOISE LEVEL MONITORING

| Sr. No | Sampling Location | Noise Levels in dB(A) (Day Time) | | Noise Levels in dB(A)(Night Time) | | Leq ^a |
|----------------------------------|----------------------|-------------------------------------|------|--------------------------------------|------|------------------|
| | | Max | Min | Max | Min | |
| 1 | Material Gate (V-23) | 70.1 | 68.8 | 63.4 | 62.8 | 65.1 |
| MPCB LIMIT In dB(A) (Day Time) | | | | 75 | | |
| MPCB LIMIT In dB(A) (Night Time) | | | | 70 | | |

NOTE: *dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
A "decibel" is a unit in which noise is measured.
"A", in dB (A) Leq, denotes the frequency weighting in the measurement of noise And corresponds to frequency response characteristics of the human hear.
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REPORT FOR AMBIENT NOISE LEVEL MONITORING

| | | | |
|----------------------|---|------|------------|
| Report No | SEET/AA/12/22/150 | Date | 24/12/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | | |
| Date of sampling | 13/12/2022 | | |
| Duration Of sampling | 24 hrs | | |
| Reference | ----- | | |

DAY & NIGHT TIME NOISE LEVEL MONITORING

| Sr. No | Sampling Location | Noise Levels in dB(A)(Day Time) | | Noise Levels in dB(A)(Night Time) | | Leq* |
|----------------------------------|-------------------|---------------------------------|------|-----------------------------------|------|------|
| | | Max | Min | Max | Min | |
| 1 | Gate No.3 (V-23) | 68.4 | 66.5 | 63.7 | 62.5 | 60.9 |
| MPCB LIMIT In dB(A) (Day Time) | | | | 75 | | |
| MPCB LIMIT In dB(A) (Night Time) | | | | 70 | | |

NOTE: *dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

A "decibel" is a unit in which noise is measured.

"A", in dB (A) Leq, denotes the frequency weighting in the measurement of noise And corresponds to frequency response characteristics of the human hear.

Leq: It is the energy mean of the noise level over a specified period.

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REPORT FOR AMBIENT NOISE LEVEL MONITORING

| | | | |
|----------------------|---|------|------------|
| Report No | SEET/AA/12/22/151 | Date | 24/12/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | | |
| Date of sampling | 13/12/2022 | | |
| Duration Of sampling | 24 hrs | | |
| Reference | ----- | | |

DAY & NIGHT TIME NOISE LEVEL MONITORING

| Sr. No | Sampling Location | Noise Levels in dB(A)(Day Time) | | Noise Levels in dB(A)(Night Time) | | Leq* |
|----------------------------------|---------------------------|---------------------------------|------|-----------------------------------|------|------|
| | | Max | Min | Max | Min | |
| 1 | Material Gate No. 6 (EOU) | 66.4 | 65.2 | 63.4 | 62.2 | 64.9 |
| MPCB LIMIT In dB(A) (Day Time) | | | | | | 75 |
| MPCB LIMIT In dB(A) (Night Time) | | | | | | 70 |

NOTE: *dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
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REPORT FOR AMBIENT NOISE LEVEL MONITORING

| | | | |
|----------------------|---|------|------------|
| Report No | SEET/AA/12/22/152 | Date | 24/12/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | | |
| Date of sampling | 13/12/2022 | | |
| Duration Of sampling | 24 hrs | | |
| Reference | ----- | | |


DAY & NIGHT TIME NOISE LEVEL MONITORING

| Sr. No | Sampling Location | Noise Levels in dB(A)(Day Time) | | Noise Levels indB(A) (Night Time) | | Leq* |
|----------------------------------|---------------------------|---------------------------------|------|-----------------------------------|------|------|
| | | Max | Min | Max | Min | |
| 1 | Near MED Ware House (MED) | 66.2 | 65.1 | 60.2 | 58.7 | 62.1 |
| MPCB LIMIT In dB(A) (Day Time) | | | | | | 75 |
| MPCB LIMIT In dB(A) (Night Time) | | | | | | 70 |

NOTE: *dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
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LABORATORY : B-306/307, Plot No. 61, Patel Estate, Reis Magos, Verem, Alto, Old Betim Road, Bardez, Porvorim, Panaji-Goa-403 101.
Goa State, India. ☎ : (0832) 2411322 / 23 • E-mail : starlabgoa@rediffmail.com • CIN No. U45209MH1998PTC-116379



Sadekar Enviro Engineers Pvt. Ltd.

Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.
☎ : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail : prs@sadekarenviro.com / psadekar5@gmail.com

SAVE WATER
SAVE LIFE

Gazetted by Ministry of Environment, Forest Govt. Of INDIA. S. O. 857 (E). Valid upto 25.02.2023 * QCI-NABET Accredited EIA Consultancy

REPORT FOR AMBIENT NOISE LEVEL MONITORING

| | | | |
|----------------------|---|------|------------|
| Report No | SEET/AA/12/22/153 | Date | 24/12/2022 |
| Name of Client | M/s GALAXY SURFACTANTS LIMITED | | |
| Address of Client | Plot No. V-23 & 01, MIDC Taloja, Tal. Panvel, Dist. Raigad - 410208 | | |
| Sample collected by | AA Representative | | |
| Date of sampling | 13/12/2022 | | |
| Duration Of sampling | 24 hrs | | |
| Reference | ----- | | |

DAY & NIGHT TIME NOISE LEVEL MONITORING

| Sr. No | Sampling Location | Noise Levels in dB(A)(Day Time) | | Noise Levels in dB(A)(Night Time) | | Leq* |
|----------------------------------|-------------------|---------------------------------|------|-----------------------------------|------|------|
| | | Max | Min | Max | Min | |
| 1 | Admin Gate (EOU) | 68.5 | 67.1 | 64.8 | 62.1 | 62.1 |
| MPCB LIMIT In dB(A) (Day Time) | | | | | 75 | |
| MPCB LIMIT In dB(A) (Night Time) | | | | | 70 | |

NOTE: *dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
A "decibel" is a unit in which noise is measured.
"A", in dB (A) Leq, denotes the frequency weighting in the measurement of noise
And corresponds to frequency response characteristics of the human hear.
Leq: It is the energy mean of the noise level over a specified period.

Authorized By



OK
16/01/23

BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India ☎ : (0832) 2437048 / 2437164
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Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

Form 4

See rules 6(5),13(8),16(6) and 20(2) of Hazardous and other wastes 2016

FORM FOR FILING ANNUAL RETURNS

[To be submitted to state pollution control board/pollution control committee by 30th June of every year for the preceeding period April to march]

Unique Application Number:

MPCB-HW_ANNUAL_RETURN-0000030143

Submitted On:

29-06-2022

Submitted for Year:

April 2021 to March 2022

1. Name of the generator/operator of facility

Galaxy Surfactants Ltd.

Address of the unit/facility

Plot No. V-23, MIDC Taloja and Plot No. 1, Village Chal, Tal. Panvel, Dist.Raigad PIN no:- 410208

1b. Authorization Number

Format 1.0/CAC/UAN No. 0000085185/CR-2007000092 DATE: 01/07/2020 Jul 1, 2020

Date of issue

Date of validity of consent

Feb 28, 2022

2. Name of the authorised person

Avinash Shinde

Full address of authorised person

Plot No. V-23, MIDC Taloja and Plot No. 1, Village Chal, Tal. Panvel, Dist.Raigad PIN no:- 410208

Telephone

02239215300

Fax

02227411702

Email

avinash.shinde@galaxysurfactants.com

3. Production during the year (product wise), wherever applicable

| Product Type * | Product Name * | Consented Quantity | Actual Quantity | UOM |
|--|--|---------------------------|------------------------|------------|
| Chemical ,Petrochemical &Electrochemical | Anionic surfactants (on 100% AM basis) such as Fatty Alcohol Ether Sulphate etc. | 85680.0000 | 63166 | MT/A |
| Chemical ,Petrochemical &Electrochemical | Ethylene Oxide Condensate | 60000.0000 | 29152 | MT/A |
| Chemical ,Petrochemical &Electrochemical | Cationic Surfactants (on 100% AM basis) such as Betaine, Quaternary Ammonium Salts etc. | 18240.0000 | 5662 | MT/A |
| Chemical ,Petrochemical &Electrochemical | Sulphosuccinates | 720.0000 | 00 | MT/A |
| Chemical ,Petrochemical &Electrochemical | Surfactant Blends (on 100% AM basis) such as Syndet Soap- Granules/ Noodles, Sparkle Series etc. | 15840.0000 | 1442 | MT/A |
| Chemical ,Petrochemical &Electrochemical | Fatty Acid Esters, Fatty Alkanol Amides and Esterquats | 20400.0000 | 5405 | MT/A |
| Chemical ,Petrochemical &Electrochemical | Concentrated Sulphuric Acid (By Product) | 1584.0000 | 670 | MT/A |
| Chemical ,Petrochemical &Electrochemical | Sodium Sulphate 20-25% solution, Solids 37.5 MT/M (By Product) | 2160.0000 | 832 | MT/A |

PART A: To be filled by hazardous waste generators

1. Total Quantity of waste generated category wise

| Type of hazardous waste | Waste Name | Consented Quantity | Quantity | UOM |
|--|--|---------------------------|-----------------|------------|
| 1.6 Spent catalyst and molecular sieves | Spent Catalyst and molecular sieves | 6.000 | 2.42 | MTA |
| 5.1 Used or spent oil | Used or Spent Oil | 6.000 | 5.04 | MTA |
| 5.2 Wastes or residues containing oil | Wastes or Residues containing Oil | 1.000 | 3.73 | MTA |
| 33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes | Empty barrels/containers/liners contaminated with hazardous chemicals/wastes | 24.000 | 13.03 | MTA |
| 33.2 Contaminated cotton rags or other cleaning materials | Contaminated cotton rags or other cleaning materials | 1.000 | 0.11 | MTA |
| 37.2 Ash from incinerator and flue gas cleaning residue | Flue gas cleaning Residue* | 98.400 | 82.71 | MTA |
| 35.3 Chemical sludge from waste water treatment | Chemical Sludge from waste treatment plant | 108.000 | 71.36 | MTA |
| 37.3 Concentration or evaporation residues | MEE Solid Waste | 180.000 | 75.77 | MTA |

2. Quantity dispatched category wise.

| Type of Waste | Quantity of waste | UOM | Dispatched to | Facility Name |
|--|--------------------------|------------|----------------------|------------------------------|
| 1.6 Spent catalyst and molecular sieves | 2.42 | MTA | Disposal Facility | Mumbai Waste Management Ltd. |
| 5.1 Used or spent oil | 5.04 | MTA | Disposal Facility | Mumbai Waste Management Ltd. |
| 5.2 Wastes or residues containing oil | 3.73 | MTA | Disposal Facility | Mumbai Waste Management Ltd. |
| 33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes | 13.03 | MTA | Disposal Facility | Mumbai Waste Management Ltd. |
| 33.2 Contaminated cotton rags or other cleaning materials | 0.11 | MTA | Disposal Facility | Mumbai Waste Management Ltd. |
| 37.2 Ash from incinerator and flue gas cleaning residue | 82.71 | MTA | Disposal Facility | Mumbai Waste Management Ltd. |
| 35.3 Chemical sludge from waste water treatment | 71.36 | MTA | Disposal Facility | Mumbai Waste Management Ltd. |
| 37.3 Concentration or evaporation residues | 75.77 | MTA | Disposal Facility | Mumbai Waste Management Ltd. |

3. Quantity Utilised in-house,If any

| Type of Waste | Name of Waste | Quantity of Waste | UOM |
|----------------------|----------------------|--------------------------|------------|
| | NA | 00 | MTA |

4. Quantity in storage at the end of the year

| Type of Waste | Name of Waste | Quantity of Waste | UOM |
|----------------------|----------------------|--------------------------|------------|
| | NA | 00 | MTA |

PART B: To be filled by Treatment,storage, and disposal facility operators

1.Total Quantity received **UOM** **State Name**
NA KL/Anum Maharashtra

2. Quantity in stock at the beginning of the year **UOM**

| | |
|---|------------|
| NA | KL/Anum |
| 3. Quantity treated | UOM |
| NA | KL/Anum |
| 4. Quantity disposed in landfills as such and after treatment | |
| Direct landfilling | UOM |
| NA | KL/Anum |
| Landfill after treatment | UOM |
| NA | KL/Anum |
| 5. Quantity incinerated (if applicable) | UOM |
| NA | KL/Anum |
| 6. Quantity processed other than specified above | UOM |
| NA | KL/Anum |
| 7. Quantity in storage at the end of the year. | UOM |
| NA | KL/Anum |

PART C: To be filled by recyclers or co-processors or other users

1. Quantity of waste received during the year

| Waste Name/Category | Country Name | State Name | Quantity of waste received from domestic sources | Quantity of waste imported(If any) | Units |
|---------------------|--------------|-------------|--|------------------------------------|---------|
| NA | India | Maharashtra | NA | NA | KL/Anum |

2. Quantity in stock at the beginning of the year

| Waste Name/Category | Quantity | UOM |
|---------------------|----------|---------|
| NA | NA | KL/Anum |

3. Quantity of waste recycled or co-processed or used

| Name of Waste | Type of Waste | Quantity | UOM |
|---------------|---------------|----------|---------|
| NA | NA | NA | KL/Anum |

4. Quantity of products dispatched (wherever applicable)

| Name of product | Quantity | UOM |
|-----------------|----------|---------|
| NA | NA | KL/Anum |

5. Total quantity of waste generated

| Waste name/category | quantity | UOM |
|---------------------|----------|---------|
| NA | NA | KL/Anum |

6. Total quantity of waste disposed

| Waste name/category | quantity | UOM |
|---------------------|----------|---------|
| NA | NA | KL/Anum |

7. Total quantity of waste re-exported (If Applicable)

| Waste name/category | quantity | UOM |
|---------------------|----------|---------|
| NA | NA | KL/Anum |

8. Quantity in storage at the end of the year

| Waste name/category | quantity | UOM |
|---------------------|----------|---------|
| NA | NA | KL/Anum |

Personal Details

| Place | Date | Designation |
|--------|------------|---|
| Taloja | 2022-06-29 | General Manager - SHE/Instrumentation Process |



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2022

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000047982

Submitted Date

27-09-2022

PART A

Company Information

Company Name

Galaxy Surfactants Limited

Application UAN number

UAN No.0000085185

Address

V-23 & Plot No.1, MIDC Taloja, Tal.
Panvel, Dist. Raigad

Plot no

V-23 & 01

Taluka

Panvel

Village

Chal

Capital Investment (In lakhs)

31615.24

Scale

LSI

City

Panvel

Pincode

410208

Person Name

Mr. Seshu

Designation

Head Conversion

Telephone Number

39215300

Fax Number

27411701

Email

seshu@galaxysurfactants.com

Region

SRO-Taloja

Industry Category

Red

Industry Type

other

Last Environmental statement submitted online

yes

Consent Number

FORMAT1.0/CAC/UAN
No.0000085185/CR-2007000092

Consent Issue Date

01/07/2020

Consent Valid Upto

28/02/2022

Establishment Year

1980

Date of last environment statement submitted

Sep 22 2021 12:00:00:000AM

Industry Category Primary (STC Code) & Secondary (STC Code)

Product Information

Product Name

Anionic surfactants (on 100% AM basis) such as Fatty Alcohol Sulphate, Fatty Alcohol ether sulphates etc.

Consent Quantity

85680

Actual Quantity

63146

UOM
MT/A

Ethylene Oxide Condensate

60000

29126

MT/A

Cationic Surfactants (on 100% AM basis) such as Betaine, Quaternary Ammonium Salts etc.

18240

5662

MT/A

Sulphosuccinates

720

0

MT/A

Surfactant blends (on 100% AM basis) such as Syndet Soap- Granules/Noodles, Sparkle series etc.

15840

1442

MT/A

By-product Information

| By Product Name | Consent Quantity | Actual Quantity | UOM |
|--|-------------------------|------------------------|------------|
| Conc. Sulphuric Acid | 1584 | 670 | MT/A |
| Sodium Sulphate 20-25 % solution , Solids 37.5 MT/ M | 2160 | 832 | MT/A |

Part-B (Water & Raw Material Consumption)**1) Water Consumption in m3/day**

| Water Consumption for Process | Consent Quantity in m3/day | Actual Quantity in m3/day |
|--------------------------------------|-----------------------------------|----------------------------------|
| Cooling | 320.00 | 147.21 |
| Domestic | 380.00 | 174.81 |
| All others | 65.00 | 29.90 |
| Total | 20.00 | 9.20 |
| | 785.00 | 361.12 |

2) Effluent Generation in CMD / MLD

| Particulars | Consent Quantity | Actual Quantity | UOM |
|--------------------|-------------------------|------------------------|------------|
| Trade Effluent | 184.00 | 145.65 | CMD |
| Domestic Effluent | 60.00 | 27.6 | CMD |

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

| Name of Products (Production) | During the Previous financial Year | During the current Financial year | UOM |
|---|---|--|------------|
| Anionic surfactants (on 100% AM basis) such as Fatty Alcohol Sulphate, Fatty Alcohol ether sulphates etc. | 0.0066 | 0.0023 | CMD |
| Ethylene Oxide Condensate | 0.011 | 0.0050 | CMD |
| Cationic Surfactants (on 100% AM basis) such as Betaine, Quaternary Ammonium Salts etc. | 0.070 | 0.0259 | CMD |
| Sulphosuccinates | 0 | 0 | CMD |
| Surfactant blends (on 100% AM basis) such as Syndet Soap- Granules/Noodles, Sparkle series etc. | 0.385 | 0.1020 | CMD |
| Fatty Acid Esters, Fatty alkanol amides and esterquats. | 0.066 | 0.0272 | CMD |
| Conc. Sulphuric Acid (By Product) | 0.65 | 0.22 | CMD |
| Sodium Sulphate 20-25 % solution , MT/ M (By Product) | 0.036 | 0.177 | CMD |

3) Raw Material Consumption (Consumption of raw material per unit of product)

| Name of Raw Materials | During the Previous financial Year | During the current Financial year | UOM |
|------------------------------|---|--|------------|
| Ethylene Oxide | 0.261 | 0.265 | MT/A |
| Caustic Lye | 0.284 | 0.288 | MT/A |
| Fatty Alcohol | 0.691 | 0.630 | MT/A |
| Sulphur | 0.104 | 0.105 | MT/A |
| CFA | 0.450 | 0.428 | MT/A |
| DMAPA | 0.254 | 0.262 | MT/A |

| | | | |
|---------------------------|--------|--------|------|
| MCA | 0.241 | 0.242 | MT/A |
| MEA | 0.130 | 0.116 | MT/A |
| MEG | 0.054 | 0.063 | MT/A |
| Stearic Acid | 0.445 | 0.531 | MT/A |
| Fatty Alcohol Ethoxylates | 0.011 | 0.068 | MT/A |
| Hydrogen Peroxide | 0.01 | 0.001 | MT/A |
| DMLA | 0.0 | 0.0 | MT/A |
| Starch | 0.013 | 0.017 | MT/A |
| Citric Acid | 0.005 | 0.004 | MT/A |
| Cetostearyl Alcohol | 0.005 | 0.118 | MT/A |
| Ammonia | 0.011 | 0.009 | MT/A |
| Cetyl Alcohol (C16-95%) | 0.0005 | 0.0008 | MT/A |
| Lauric Acid | 0 | 0.0882 | MT/A |
| Maltodextrin | 0 | 0.1518 | MT/A |

4) Fuel Consumption

| Fuel Name | Consent quantity | Actual Quantity | UOM |
|------------------|-------------------------|------------------------|------------|
| Coal | 6570 | 3773.5 | MT/A |
| FO | 6762.72 | 322.45 | MT/A |
| HSD | 1752 | 15.91 | KL/A |

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

| Pollutants Detail | Quantity of Pollutants discharged (kL/day) | Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour | Percentage of variation from prescribed standards with reasons | Standard | Reason |
|--------------------------|---|---|---|-----------------|-------------------|
| | Quantity | Concentration | %variation | | |
| pH | 0 | 6.96 | - | 6.0 - 8.5 | Within MPCB norms |
| BOD | 0 | 1.0 | 99 | 100 | Within MPCB norms |
| COD | 0 | 2.76 | 0 | 250 | Within MPCB norms |
| Oil & Grease | 0 | 0.2 | 98 | 10 | Within MPCB norms |
| Suspended Solids | 0 | 5 | 95 | 100 | Within MPCB norms |
| Total Dissolved Solids | 0 | 73 | 96.52 | 2100 | Within MPCB norms |
| Sulphates | 0 | 39 | 96.1 | 1000 | Within MPCB norms |
| Chlorides | 0 | 14 | 97.66 | 600 | Within MPCB norms |
| Total Ammonical Nitrogen | 0 | 0.1 | 99.80 | 50 | Within MPCB norms |
| Total Kjeldhal Nitrogen | 0 | 0.5 | 99.50 | 100 | Within MPCB norms |
| Sodium | 0 | 1 | 98.33 | 60% | Within MPCB norms |
| Free Ammonia | 0 | 0.1 | 99.90 | 100 | Within MPCB norms |

[B] Air (Stack)

| Pollutants Detail | Quantity of Pollutants discharged (kL/day) | Concentration of Pollutants discharged(Mg/NM3) | Percentage of variation from prescribed standards with reasons | Standard | Reason |
|---------------------------|---|---|---|-----------------|-------------------|
| | Quantity | Concentration | %variation | | |
| TPM - (S-6 MED) | 0 | 27.3 | 81.8 | 150 | Within MPCB norms |
| TPM - (S1 2.5 TPH) | 0 | 70.7 | 52.86 | 150 | Within MPCB norms |
| SO2 - (S1 2.5 TPH) | 27.2 | 0 | 95.80 | 648 | Within MPCB norms |
| TPM - (S2 5 TPH) | 0 | 46.2 | 69.2 | 150 | Within MPCB norms |
| SO2- (S2 5 TPH) | 8.24 | 0 | 95.42 | 180 | Within MPCB norms |
| TPM- (Thermopac) | 0 | 98.60 | 34.26 | 150 | Within MPCB norms |
| TPM- (SO2) | 10.20 | 0 | 93.46 | 156 | Within MPCB norms |
| TPM- (V-23 Scrubber No.1) | 0 | 16.55 | 88.96 | 150 | Within MPCB norms |
| TPM- (EOU Scrubber No.2) | 0 | 14.5 | 90.33 | 150 | Within MPCB norms |
| TPM - (D.G Set 1.9 MW) | 0 | 64.5 | 57 | 150 | Within MPCB norms |
| SO2 - (D.G Set 1.9 MW) | 26.5 | 0 | 96.93 | 864 | Within MPCB norms |
| TPM - (D.G Set 1000 KVA) | 0 | 52.6 | 64.93 | 150 | Within MPCB norms |
| SO2 - (D.G Set 1000 KVA) | 11.20 | 0 | 88.33 | 96 | Within MPCB norms |

Part-D

HAZARDOUS WASTES

1) From Process

| Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|--|---|--|------------|
| 5.1 Used or spent oil | 5.560 | 5.04 | MT/A |
| 1.6 Spent catalyst and molecular sieves | 0.71 | 2.42 | MT/A |
| 33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes | 16.78 | 13.03 | MT/A |
| 33.2 Contaminated cotton rags or other cleaning materials | 0.0 | 0.11 | MT/A |
| 5.2 Wastes or residues containing oil | 0.83 | 3.73 | MT/A |

2) From Pollution Control Facilities

| Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|---|---|--|------------|
| 37.2 Ash from incinerator and flue gas cleaning residue | 77.97 | 82.71 | MT/A |
| 35.3 Chemical sludge from waste water treatment | 64.37 | 71.36 | MT/A |
| 37.3 Concentration or evaporation residues | 91.05 | 75.77 | MT/A |

Part-E

SOLID WASTES

1) From Process

| Non Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|---------------------------------|---|--|------------|
| Waste Paper/ paper bags | 48.294 | 46.422 | MT/A |
| Corrugated Box | 0.0 | 0.13 | MT/A |
| Broken Glass | 1.99 | 1.45 | MT/A |

| | | | |
|---|--------|--------|--------|
| Used decontaminated drums | 4471 | 5705 | Nos./Y |
| Plastic/HDPE decontaminated bags | 16.156 | 8.459 | MT/A |
| Flexi bags | 1735 | 1271 | Nos./Y |
| Filter elements | 0.0 | 0 | Nos./Y |
| Wooden scrap | 114.58 | 86.57 | MT/A |
| Non contaminated Plastic | 16.098 | 13.649 | MT/A |
| Insulation Waste (LRB, PUF, Calcium Silicate, Nirrile rubber, Cerawool, Asbestos Rope, etc) | 14.46 | 17.88 | MT/A |
| Wooden scrap | 11.8 | 86.57 | MT/A |
| Process Consumables (Silica gel, Ceramic, Alumina, etc.) | 1.2 | 1.58 | MT/A |
| Miscellaneous waste (Tyre, V belt, Welding rod, etc) | 0 | 0 | MT/A |

2) From Pollution Control Facilities

| Non Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|---------------------------------|---|--|------------|
| Boiler Ash (Coal Fired boiler) | 331.26 | 413.48 | MT/A |

3) Quantity Recycled or Re-utilized within the unit

| Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|-------------------|---|--|------------|
| 0 | 0 | 0 | CMD |

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

| Type of Hazardous Waste Generated | Qty of Hazardous Waste | UOM | Concentration of Hazardous Waste |
|--|-------------------------------|------------|---|
| 5.1 Used or spent oil | 5.04 | MT/A | Disposed to MWML |
| 1.6 Spent catalyst and molecular sieves | 2.42 | MT/A | Disposed to MWML |
| 33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes | 13.03 | MT/A | Disposed to MWML |
| 33.2 Contaminated cotton rags or other cleaning materials | 0.11 | MT/A | NA |
| 5.2 Wastes or residues containing oil | 3.73 | MT/A | NA |
| 37.2 Ash from incinerator and flue gas cleaning residue | 82.71 | MT/A | Disposed to MWML |
| 35.3 Chemical sludge from waste water treatment | 71.36 | MT/A | Disposed to MWML |
| 37.3 Concentration or evaporation residues | 75.77 | MT/A | Disposed to MWML |

2) Solid Waste

| Type of Solid Waste Generated | Qty of Solid Waste | UOM | Concentration of Solid Waste |
|--------------------------------------|---------------------------|------------|-------------------------------------|
| Waste Paper/ paper bags | 46.422 | MT/A | 100% Sale to authorized party |
| Corrugated Box | 0.13 | MT/A | NA |
| Broken Glass | 1.45 | MT/A | 100% Sale to authorized party |
| Used decontaminated drums | 5705 | Nos./Y | 100% Sale to authorized party |
| Plastic/HDPE decontaminated bags | 13.649 | MT/A | 100% Sale to authorized party |

| | | | |
|---|--------|--------|-------------------------------|
| Flexi bags | 1271 | Nos./Y | 100% Sale to authorized party |
| Filter elements | 0.0 | Nos./Y | NA |
| Wooden scrap | 86.57 | MT/A | 100% Sale to authorized party |
| Boiler Ash (Coal Fired boiler) | 413.48 | MT/A | 100% Sale to authorized party |
| Non-contaminated Plastic | 8.459 | MT/A | 100% Sale to authorized party |
| Insulation Waste (LRB, PUF, Calcium Silicate, Nitrile rubber, Cerawool, Asbestos Rope, etc) | 17.88 | MT/A | 100% Sale to authorized party |
| Process Consumables (Silica gel, Ceramic, Alumina, etc.) | 1.58 | MT/A | 100% Sale to authorized party |

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

| Description | Reduction in Water Consumption (M3/day) | Reduction in Fuel & Solvent Consumption (KL/day) | Reduction in Raw Material (Kg) | Reduction in Power Consumption (KWH) | Capital Investment(in Lacs) | Reduction in Maintenance(in Lacs) |
|----------------------------|---|--|--------------------------------|--------------------------------------|-----------------------------|-----------------------------------|
| RO Plant Operation for ETP | 130 | 0 | 0 | 0 | 45 | 0 |

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection

| | Environmental Protection Measures | Capital Investment (Lacks) |
|---------------------|-----------------------------------|----------------------------|
| ETP With ZLD SYSTEM | NA | 40 |

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection

| | Environmental Protection Measures | Capital Investment (Lacks) |
|--|-----------------------------------|----------------------------|
| O & M of pollution control system & compliance of consent conditions | Air & Water abatement | 400 |

Part-I

Any other particulars for improving the quality of the environment.

Particulars

Planted 95 trees in plant premises

Name & Designation

Mr. Seshu, Head Conversion

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000047982

Submitted On:

27-09-2022