Galaxy
Global Supplier to Global Brands

Galaxy Surfactants Ltd.

22.01.2024

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 2023 to December 2023, 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
General 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 2023 – December 2023)

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.	We have disposed of Hazardous Waste to Authorized dealers as per conditions mentioned in Consent to Operate and Environment Clearance. 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.	No additional land has been acquired and project is completed within the existing plot.

3	For controlling fugitive natural dust, regular sprinkling of water and wind shields at appropriate distances in vulnerable areas of Plant shall be ensured.	High speed rapid roller door or PVC strip doors are provided in warehouse and manufacturing area. Wherever necessary windows are provided to prevent inflow of dust from outdoors. We regularly swept the internal roads in factory to control dust formed by movement of vehicles. We have also planted trees in the factory premises and also provided sprinkler systems in green belt area and garden developed inside the factory premises.
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.	We have Complied with ambient air monitoring as per the MPCB Consent to Operate and prescribed in the EC. 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.	We have provided adequate safety and ventilation arrangement in furnace area.
6	Proper Housekeeping programs shall be implemented.	We are maintaining proper housekeeping within the 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).	Stacks of adequate height based on DG set capacity has been provided.
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.	Separate arrangements are made for effluent and storm water.

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.	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 confirm 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 1220 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.	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

	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 14th ,15th & 16th March, 2023) 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.	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 have 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) and authorization from MPCB 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 transferred to Hazardous Waste viz. Sulphuric Acid & 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 : • Metering of quantities of active ingredients to minimize waste. • Reuse of by-products from the process as raw materials or as raw material substitutes in other process.	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.

<table>
<tr><td></td><td>• Maximizing recoveries.
• Use of automated transfer system to minimize spillage.</td><td></td></tr>
<tr><td>20</td><td>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.</td><td>On-site emergency management plan prepared. Total evacuation mock drill conducted on 28.11.2023</td></tr>
<tr><td>21</td><td>A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.</td><td>Environment management cell is set up with total 15 members of various Departments. Meeting held on 04.09.2023 to review the environment related compliances.
<table>
<tr><th>Sr. No.</th><th>Names</th><th>Dept</th><th>Designation</th></tr>
<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>Nilesh Kavankar</td><td>Instrument Maintenance</td><td>Member</td></tr>
<tr><td>14</td><td>Omkar Patil</td><td>Civil Maintenance</td><td>Member</td></tr>
<tr><td>15</td><td>Pooja Desai</td><td>NPT</td><td>Member</td></tr>
</table></td></tr>
<tr><td>22</td><td>Transportation of ash will be through closed containers and all measure should be taken to prevent spilling of ash.</td><td>We have ensured transportation of ash in closed containers and prevented spilling of ash.</td></tr>
<tr><td>23</td><td>Separate silos will be provided for collecting and storing bottom ash and fly ash.</td><td>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.</td></tr>
</table>

<table>
<tr><td></td><td></td><td>This area is completely isolated & covered from all sides to avoid any interference.</td></tr>
<tr><td>24</td><td>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.</td><td>During this period, we incurred expenditure of Rs. 2.50 lacs (approx.) for details given in the table below
<table>
<tr><th>Sr. No.</th><th>Description of Project</th><th>Investment Cost in INR</th></tr>
<tr><td>1</td><td>ETP Maintenance</td><td>2,50,000</td></tr>
<tr><td colspan="2">TOTAL</td><td>2,50,000</td></tr>
</table></td></tr>
<tr><td>25</td><td>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.</td><td>Advertisement was given in two local newspapers on obtaining EC and also uploaded copy of EC on company website.</td></tr>
<tr><td>26</td><td>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 1st June and 1st December of each calendar year.</td><td>We have submitted half yearly EC compliance report to MPCB.</td></tr>
<tr><td>27</td><td>A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom</td><td>EC copy published on website of the Company.</td></tr>
</table>

	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.	
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.	Status of compliance of the stipulated EC conditions, including results of monitored data will be uploaded on our website and will be updated regularly. The Criteria Pollutant Levels are displayed on the main gate of the Company on newly installed electronic digital display. Please refer enclosed Annexure B for latest Stack Emission reports.
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.	We have submitted six monthly report on the status of compliance of the stipulated EC Conditions including results of monitored data to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
30	The environmental statement for each financial year ending 31st March in Form – V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of	Environment statement for the year 2021-2022 submitted online with the MPCB website on 27.09.2022 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.

	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.	

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.	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.	No additional land has been acquired and project is completed within the existing plot.
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
General Manager- Corporate Governance

Annexure-A

Sadekar Enviro Engineers Private Limited

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

ANALYSIS REPORT FOR AMBIENT AIR SURVEILLANCE

Report No	SEET/AA/12/23/423	Date	21/12/2023
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	12/12/2023	Sample Receipt Date	13/12/2023
Analysis Start Date	14/12/2023	Analysis Complete Date	18/12/2023

AMBIENT AIR STATION

Location of H.V.S.	Near Material Gate (V-23)	Lateral Distance	5.0 Mtr. From Material Gate
Ambient Temperature	32.2^{0}C	Receptor Distance	1.5 Mtr. From Ground Level

POLLUTIONAL PARAMETERS

Parameters	Units	Result	NAAQS Limits	Method
Particulate Matter PM_{10}	$\mu g/m^3$	68.00	100	IS 5182 (Part 23) 2006 RA: 2022
Particulate Matter $PM_{2.5}$	$\mu g/m^3$	32.80	60	CPCB Manual Volume 1
Sulphur Dioxide (SO_2)	$\mu g/m^3$	39.00	80	IS 5182(part 2/sec 1) 2023
Nitrogen Dioxide (NO_2)	$\mu g/m^3$	27.60	80	IS 5182(part 2)2006 (RA 2017)
Ozone (O_3)	$\mu g/m^3$	BDL(MDL<19.6)	100	IS 5182 (Part 9): 1974 RA: 2019
Lead (Pb)	$\mu g/m^3$	BDL(MDL<0.1)	1.0	EPA compendium method IO 3.5: 2012
Carbon Monoxide (CO)	mg/m^3	0.42	02	IS 5182(part 10)1999 (RA 2014)
Ammonia (NH_3)	$\mu g/m^3$	BDL(MDL<0.02)	400	CPCB Guidelines For Measurement of Ambient Air Pollutants Volume-I ,2011
Benzene (C_6H_6)	$\mu g/m^3$	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	EPA compendium method IO 3.5: 2012
Nickel (Ni)	ng/m^3	BDL(MDL<7)	20	EPA compendium method IO 3.5: 2012

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.

Sadekar Enviro Engineers Pvt. Ltd.

Authorized By

Sadekar Enviro Engineers Private Limited

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

ANALYSIS REPORT FOR AMBIENT AIR SURVEILLANCE

Report No	SEET/AA/12/23/424	Date	21/12/2023
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	12/12/2023	Sample Receipt Date	13/12/2023
Analysis Start Date	14/12/2023	Analysis Complete Date	18/12/2023

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	32.2^{0}C	Receptor Distance	1.5 Mtr. From Ground Level

POLLUTIONAL PARAMETERS

Parameters	Units	Result	NAAQS Limits	Method
Particulate Matter PM_{10}	$\mu g/m^3$	56.00	100	IS 5182 (Part 23) 2006 RA: 2022
Particulate Matter $PM_{2.5}$	$\mu g/m^3$	29.00	60	CPCB Manual Volume 1
Sulphur Dioxide (SO_2)	$\mu g/m^3$	31.00	80	IS 5182(part 2/sec 1) 2023
Nitrogen Dioxide (NO_2)	$\mu g/m^3$	24.00	80	IS 5182(part 2)2006 (RA 2017)
Ozone (O_3)	$\mu g/m^3$	BDL(MDL<19.6)	100	IS 5182 (Part 9): 1974 RA: 2019
Lead (Pb)	$\mu g/m^3$	BDL(MDL<0.1)	1.0	EPA compendium method IO 3.5: 2012
Carbon Monoxide (CO)	mg/m^3	0.70	02	IS 5182(part 10)1999 (RA 2014)
Ammonia (NH_3)	$\mu g/m^3$	BDL(MDL<0.02)	400	CPCB Guidelines For Measurement of Ambient Air Pollutants Volume-I ,2011
Benzene (C_6H_6)	$\mu g/m^3$	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	EPA compendium method IO 3.5: 2012
Nickel (Ni)	ng/m^3	BDL(MDL<7)	20	EPA compendium method IO 3.5: 2012

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.

Sadekar Enviro Engineers Pvt. Ltd. SEE

Authorized By

Sadekar Enviro Engineers Private Limited

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ANALYSIS REPORT FOR AMBIENT AIR SURVEILLANCE

Report No	SEET/AA/12/23/425	Date	21/12/2023
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	12/12/2023	Sample Receipt Date	13/12/2023
Analysis Start Date	14/12/2023	Analysis Complete Date	18/12/2023

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	32.2^{0}C	Receptor Distance	1.5 Mtr. From Ground Level

POLLUTIONAL PARAMETERS

Parameters	Units	Result	NAAQS Limits	Method
Particulate Matter PM_{10}	$\mu g/m^3$	57.00	100	IS 5182 (Part 23) 2006 RA: 2022
Particulate Matter $PM_{2.5}$	$\mu g/m^3$	28.50	60	CPCB Manual Volume 1
Sulphur Dioxide (SO_2)	$\mu g/m^3$	36.00	80	IS 5182(part 2/sec 1) 2023
Nitrogen Dioxide (NO_2)	$\mu g/m^3$	28.00	80	IS 5182(part 2)2006 (RA 2017)
Ozone (O_3)	$\mu g/m^3$	BDL(MDL<19.6)	100	IS 5182 (Part 9): 1974 RA: 2019
Lead (Pb)	$\mu g/m^3$	BDL(MDL<0.1)	1.0	EPA compendium method IO 3.5: 2012
Carbon Monoxide (CO)	mg/m^3	0.69	02	IS 5182(part 10)1999 (RA 2014)
Ammonia (NH_3)	$\mu g/m^3$	BDL(MDL<0.02)	400	CPCB Guidelines For Measurement of Ambient Air Pollutants Volume-I ,2011
Benzene (C_6H_6)	$\mu g/m^3$	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	EPA compendium method IO 3.5: 2012
Nickel (Ni)	ng/m^3	BDL(MDL<7)	20	EPA compendium method IO 3.5: 2012

NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.
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Sadekar Enviro Engineers Pvt. Ltd. SEE

Authorized By

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ANALYSIS REPORT FOR AMBIENT AIR SURVEILLANCE

Report No	SEET/AA/12/23/426	Date	21/12/2023
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	13/12/2023	Sample Receipt Date	14/12/2023
Analysis Start Date	15/12/2023	Analysis Complete Date	19/12/2023

AMBIENT AIR STATION

Location of H.V.S.	Near MED Ware House (MED)	Lateral Distance	5.0 Mtr. From MED Ware House
Ambient Temperature	32.0^{0}C	Receptor Distance	1.5 Mtr. From Ground Level

POLLUTIONAL PARAMETERS

Parameters	Units	Result	NAAQS Limits	Method
Particulate Matter PM_{10}	$\mu g/m^3$	46.00	100	IS 5182 (Part 23) 2006 RA: 2022
Particulate Matter $PM_{2.5}$	$\mu g/m^3$	23.00	60	CPCB Manual Volume 1
Sulphur Dioxide (SO_2)	$\mu g/m^3$	25.50	80	IS 5182(part 2/sec 1) 2023
Nitrogen Dioxide (NO_2)	$\mu g/m^3$	16.00	80	IS 5182(part 2)2006 (RA 2017)
Ozone (O_3)	$\mu g/m^3$	BDL(MDL<19.6)	100	IS 5182 (Part 9): 1974 RA: 2019
Lead (Pb)	$\mu g/m^3$	BDL(MDL<0.1)	1.0	EPA compendium method IO 3.5: 2012
Carbon Monoxide (CO)	mg/m^3	0.20	02	IS 5182(part 10)1999 (RA 2014)
Ammonia (NH_3)	$\mu g/m^3$	BDL(MDL<0.02)	400	CPCB Guidelines For Measurement of Ambient Air Pollutants Volume-I ,2011
Benzene (C_6H_6)	$\mu g/m^3$	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	EPA compendium method IO 3.5: 2012
Nickel (Ni)	ng/m^3	BDL(MDL<7)	20	EPA compendium method IO 3.5: 2012

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.

Sadekar Enviro Engineers Pvt. Ltd. SEE

Authorized By

Sadekar Enviro Engineers Private Limited

Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.
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ANALYSIS REPORT FOR AMBIENT AIR SURVEILLANCE

Report No	SEET/AA/12/23/427	Date	21/12/2023
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	12/12/2023	Sample Receipt Date	13/12/2023
Analysis Start Date	14/12/2023	Analysis Complete Date	18/12/2023

AMBIENT AIR STATION

Location of H.V.S.	Near Admin Gate (EOU)	Lateral Distance	5.0 Mtr. From Admin Gate (EOU)
Ambient Temperature	32.2^{0}C	Receptor Distance	1.5 Mtr. From Ground Level

POLLUTIONAL PARAMETERS

Parameters	Units	Result	NAAQS Limits	Method
Particulate Matter PM_{10}	$\mu g/m^3$	59.00	100	IS 5182 (Part 23) 2006 RA: 2022
Particulate Matter $PM_{2.5}$	$\mu g/m^3$	32.00	60	CPCB Manual Volume 1
Sulphur Dioxide (SO_2)	$\mu g/m^3$	35.50	80	IS 5182(part 2/sec 1) 2023
Oxide of Nitrogen (NOx)	$\mu g/m^3$	29.70	80	IS 5182(part 2)2006 (RA 2017)
Ozone (O3)	$\mu g/m^3$	BDL(MDL<19.6)	100	IS 5182 (Part 9): 1974 RA: 2019
Lead (Pb)	$\mu g/m^3$	BDL(MDL<0.1)	1.0	EPA compendium method IO 3.5: 2012
Carbon Monoxide (CO)	mg/m^3	0.48	02	IS 5182(part 10)1999 (RA 2014)
Ammonia (NH3)	$\mu g/m^3$	BDL(MDL<0.02)	400	CPCB Guidelines For Measurement of Ambient Air Pollutants Volume-I ,2011
Benzene (C6H6)	$\mu g/m^3$	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	EPA compendium method IO 3.5: 2012
Nickel (Ni)	ng/m^3	BDL(MDL<7)	20	EPA compendium method IO 3.5: 2012

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.

Sadekar Enviro Engineers Pvt. Ltd. SEE

Authorized By

Annexure-B

Sadekar Enviro Engineers Private Limited

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SAVE WATER SAVE LIFE

ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/12/23/438	Date	21/12/2023
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	12/12/2023	Sample Receipt Date	13/12/2023
Analysis Start Date	14/12/2023	Analysis Complete Date	16/12/2023

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	^0C	36
Velocity of Flue Gases	M/Sec	6.48
Volume of Flue Gases	Nm^3/Hr	6358
Type of Fuel	--	---

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm^3	150	10.4
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	2.56
Carbon Dioxide	IS 307 :1966	mg/m^3	NA	0.19
Acid Mist	EPA Method	ppm	35	17.50

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.

Sadekar Enviro Engineers Pvt. Ltd.

Authorized By

HIGH COD/TDS FACILITY : Plot No. E-133 & P-196, Tarapur MIDC, Boisar, Dist. Palghar - 401506 ✆: 8591159165 / 7304633868
E-mail : evaporationsystem@sadekarenviro.com • Website : www.sadekarenviro.com

GOA UNIT : 310, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India ✆ : (0832) 2437048 / 2437164
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Sadekar Enviro Engineers Private Limited

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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/12/23/439	Date	21/12/2023
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	14/12/2023	Sample Receipt Date	15/12/2023
Analysis Start Date	16/12/2023	Analysis Complete Date	18/12/2023

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	--
Stack Attached To	--	EOU Dryer 61 Scrubber
Shape	--	Round
Diameter	M	0.2
Height From Ground Level	M	1.0
Temperature	^0C	44
Velocity of Flue Gases	M/Sec	12.33
Volume of Flue Gases	Nm^3/Hr	1310
Type of Fuel	--	---

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm^3	150	34.8
Sulphur Di-Oxide	IS 1255 (part II) – 1985	ppm	50	B.D.L
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	B.D.L
Carbon Dioxide	IS 307 :1966	mg/m^3	NA	B.D.L

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.

Sadekar Enviro Engineers Pvt. Ltd. SEE

Authorized By

Sadekar Enviro Engineers Private Limited

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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/12/23/440	Date	21/12/2023
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	14/12/2023	Sample Receipt Date	15/12/2023
Analysis Start Date	16/12/2023	Analysis Complete Date	18/12/2023

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	--
Stack Attached To	--	EOU Dryer 62 Scrubber
Shape	--	Round
Diameter	M	0.2
Height From Ground Level	M	8.5
Temperature	^0C	47
Velocity of Flue Gases	M/Sec	11.86
Volume of Flue Gases	Nm^3/Hr	1248
Type of Fuel	--	---

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm^3	150	38.5
Sulphur Di-Oxide	IS 1255 (part II) – 1985	ppm	50	B.D.L
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	B.D.L
Carbon Dioxide	IS 307 :1966	mg/m^3	NA	B.D.L

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.

Sadekar Enviro Engineers Pvt. Ltd. SEE

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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/12/23/441	Date	21/12/2023
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	14/12/2023	Sample Receipt Date	15/12/2023
Analysis Start Date	16/12/2023	Analysis Complete Date	18/12/2023

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	--
Stack Attached To	--	EOU Dryer 63 Scrubber
Shape	--	Round
Diameter	M	0.2
Height From Ground Level	M	8.5
Temperature	^0C	45
Velocity of Flue Gases	M/Sec	12.35
Volume of Flue Gases	Nm^3/Hr	1308
Type of Fuel	--	---

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm^3	150	20.2
Sulphur Di-Oxide	IS 1255 (part II) – 1985	ppm	50	B.D.L
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	B.D.L
Carbon Dioxide	IS 307 :1966	mg/m^3	NA	B.D.L

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.

Sadekar Enviro Engineers Pvt. Ltd. SEE

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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/12/23/442	Date	21/12/2023
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	14/12/2023	Sample Receipt Date	15/12/2023
Analysis Start Date	16/12/2023	Analysis Complete Date	18/12/2023

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	--
Stack Attached To	--	Jumbo Bag Filter (EOU)
Shape	--	Round
Diameter	M	0.4
Height From Ground Level	M	---
Temperature	^0C	42
Velocity of Flue Gases	M/Sec	10.94
Volume of Flue Gases	Nm^3/Hr	4679
Type of Fuel	--	---

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm^3	150	21.8
Sulphur Di-Oxide	IS 1255 (part II) – 1985	ppm	50	B.D.L
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	B.D.L
Carbon Dioxide	IS 307 :1966	mg/m^3	NA	B.D.L

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/12/23/443	Date	21/12/2023
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	14/12/2023	Sample Receipt Date	15/12/2023
Analysis Start Date	16/12/2023	Analysis Complete Date	18/12/2023

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	--
Stack Attached To	--	Bag Filter (EOU Dryer 62)
Shape	--	Round
Diameter	M	0.6
Height From Ground Level	M	---
Temperature	^0C	46
Velocity of Flue Gases	M/Sec	7.14
Volume of Flue Gases	Nm^3/Hr	6785
Type of Fuel	--	---

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm^3	150	25.7
Sulphur Di-Oxide	IS 1255 (part II) – 1985	ppm	50	B.D.L
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	B.D.L
Carbon Dioxide	IS 307 :1966	mg/m^3	NA	B.D.L

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.

Sadekar Enviro Engineers Pvt. Ltd. SEE

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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/12/23/444	Date	21/12/2023
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	14/12/2023	Sample Receipt Date	15/12/2023
Analysis Start Date	16/12/2023	Analysis Complete Date	18/12/2023

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	--
Stack Attached To	--	Bag Filter (EOU Dryer 63)
Shape	--	Round
Diameter	M	0.6
Height From Ground Level	M	---
Temperature	^0C	40
Velocity of Flue Gases	M/Sec	7.91
Volume of Flue Gases	Nm^3/Hr	7661
Type of Fuel	--	---

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm^3	150	30.5
Sulphur Di-Oxide	IS 1255 (part II) – 1985	ppm	50	B.D.L
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	B.D.L
Carbon Dioxide	IS 307 :1966	mg/m^3	NA	B.D.L

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.

Sadekar Enviro Engineers Pvt. Ltd. SEE

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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/12/23/445	Date	21/12/2023
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	13/12/2023	Sample Receipt Date	14/12/2023
Analysis Start Date	15/12/2023	Analysis Complete Date	18/12/2023

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	33
Temperature	^0C	35
Velocity of Flue Gases	M/Sec	6.99
Volume of Flue Gases	Nm^3/Hr	6925
Type of Fuel	--	---

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm^3	150	10.7
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	0.16
Acid Mist	EPA Method	ppm	35	12.50

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.

Sadekar Enviro Engineers Pvt. Ltd. SEE

Authorized By

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SAVE WATER
SAVE LIFE

ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/12/23/446	Date	21/12/2023
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	13/12/2023	Sample Receipt Date	14/12/2023
Analysis Start Date	15/12/2023	Analysis Complete Date	18/12/2023

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	^0C	128
Velocity of Flue Gases	M/Sec	8.00
Volume of Flue Gases	Nm^3/Hr	2688
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	43.5
Sulphur Di-Oxide	IS 1255 (part II) – 1985	kg/day	180	13.80
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	--	11.50
Carbon Dioxide	IS 307 :1966	mg/m^3	--	0.30
Sulphates	EPA Method	ppm	N.A.	1.13
Chloride	EPA-26 A Method	mg/Nm^3	N.A.	0.008
Sulphur Content	---	%	0.5	0.0081

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.

Sadekar Enviro Engineers Pvt. Ltd. SEE

Authorized By

Sadekar Enviro Engineers Private Limited

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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/12/23/447	Date	21/12/2023
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	13/12/2023	Sample Receipt Date	14/12/2023
Analysis Start Date	15/12/2023	Analysis Complete Date	18/12/2023

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	^0C	155
Velocity of Flue Gases	M/Sec	8.37
Volume of Flue Gases	Nm^3/Hr	2635
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	43.2
Sulphur Di-Oxide	IS 1255 (part II) – 1985	kg/day	156	18.60
Oxide of Nitrogen	IS 11255 (part 7)-2005	Ppm	--	18.50
Carbon Dioxide	IS 307 :1966	mg/m^3	--	0.26
Sulphur Content	---	%	4.5	0.0111

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.

Sadekar Enviro Engineers Pvt. Ltd. SEE

Authorized By

Sadekar Enviro Engineers Private Limited

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

ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/12/23/448	Date	21/12/2023
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	12/12/2023	Sample Receipt Date	13/12/2023
Analysis Start Date	14/12/2023	Analysis Complete Date	16/12/2023

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	--
Stack Attached To	--	New Dryer 52 Scrubber
Shape	--	Round
Diameter	M	0.15
Height From Ground Level	M	3.0
Temperature	^0C	44
Velocity of Flue Gases	M/Sec	10.07
Volume of Flue Gases	Nm^3/Hr	602
Type of Fuel	--	---

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm^3	150	34.5
Sulphur Di-Oxide	IS 1255 (part II) – 1985	ppm	50	B.D.L
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	B.D.L
Carbon Dioxide	IS 307 :1966	mg/m^3	NA	B.D.L

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.

Sadekar Enviro Engineers Pvt. Ltd. SEE

Authorized By

Sadekar Enviro Engineers Private Limited

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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/12/23/449	Date	21/12/2023
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	12/12/2023	Sample Receipt Date	13/12/2023
Analysis Start Date	14/12/2023	Analysis Complete Date	16/12/2023

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	--
Stack Attached To	--	New Dryer 53 Scrubber
Shape	--	Round
Diameter	M	0.15
Height From Ground Level	M	2.0
Temperature	^0C	48
Velocity of Flue Gases	M/Sec	10.34
Volume of Flue Gases	Nm^3/Hr	611
Type of Fuel	--	---

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm^3	150	30.8
Sulphur Di-Oxide	IS 1255 (part II) – 1985	ppm	50	B.D.L
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	B.D.L
Carbon Dioxide	IS 307 :1966	mg/m^3	NA	B.D.L

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.

Sadekar Enviro Engineers Pvt. Ltd. SEE

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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/12/23/451	Date	21/12/2023
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	12/12/2023	Sample Receipt Date	13/12/2023
Analysis Start Date	14/12/2023	Analysis Complete Date	16/12/2023

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	--
Stack Attached To	--	Jumbo Bag Filter 3rd Floor (New Dryer)
Shape	--	Round
Diameter	M	0.6
Height From Ground Level	M	2.5
Temperature	^0C	56
Velocity of Flue Gases	M/Sec	6.28
Volume of Flue Gases	Nm^3/Hr	5776
Type of Fuel	--	---

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm^3	150	28.5
Sulphur Di-Oxide	IS 1255 (part II) – 1985	ppm	50	B.D.L
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	B.D.L
Carbon Dioxide	IS 307 :1966	mg/m^3	NA	B.D.L

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.

Sadekar Enviro Engineers Pvt. Ltd. SEET

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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/12/23/453	Date	21/12/2023
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	14/12/2023	Sample Receipt Date	15/12/2023
Analysis Start Date	16/12/2023	Analysis Complete Date	19/12/2023

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	^0C	36
Velocity of Flue Gases	M/Sec	5.54
Volume of Flue Gases	Nm^3/Hr	5439
Type of Fuel	--	---

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm^3	150	30.8
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	0.17
Acid Mist	EPA Method	ppm	35	15.30

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.

Sadekar Enviro Engineers Pvt. Ltd. SEET

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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/12/23/452	Date	21/12/2023
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	12/12/2023	Sample Receipt Date	13/12/2023
Analysis Start Date	14/12/2023	Analysis Complete Date	16/12/2023

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	--
Stack Attached To	--	Pneumatic Dust Collector 3rd floor (New Dryer)
Shape	--	Round
Diameter	M	0.15
Height From Ground Level	M	15.0
Temperature	^0C	59
Velocity of Flue Gases	M/Sec	10.63
Volume of Flue Gases	Nm^3/Hr	606
Type of Fuel	--	---

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm^3	150	32.8
Sulphur Di-Oxide	IS 1255 (part II) – 1985	ppm	50	B.D.L
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	B.D.L
Carbon Dioxide	IS 307 :1966	mg/m^3	NA	B.D.L

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.

Sadekar Enviro Engineers Pvt. Ltd. SEE

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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/12/23/450	Date	21/12/2023
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	12/12/2023	Sample Receipt Date	13/12/2023
Analysis Start Date	14/12/2023	Analysis Complete Date	16/12/2023

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	--
Stack Attached To	--	Sieve Bag Filter 1st Floor (New Dryer)
Shape	--	Round
Diameter	M	0.2
Height From Ground Level	M	12.0
Temperature	^0C	55
Velocity of Flue Gases	M/Sec	10.30
Volume of Flue Gases	Nm^3/Hr	1068
Type of Fuel	--	---

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm^3	150	38.6
Sulphur Di-Oxide	IS 1255 (part II) – 1985	ppm	50	B.D.L
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	B.D.L
Carbon Dioxide	IS 307 :1966	mg/m^3	NA	B.D.L

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.

Sadekar Enviro Engineers Pvt. Ltd.

Authorized By

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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/12/23/454	Date	21/12/2023
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	12/12/2023	Sample Receipt Date	13/12/2023
Analysis Start Date	14/12/2023	Analysis Complete Date	16/12/2023

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	--
Stack Attached To	--	Old Dryer 51 Exhaust
Shape	--	Round
Diameter	M	0.15
Height From Ground Level	M	2.0
Temperature	^0C	57
Velocity of Flue Gases	M/Sec	10.58
Volume of Flue Gases	Nm^3/Hr	608
Type of Fuel	--	---

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm^3	150	39.7
Sulphur Di-Oxide	IS 1255 (part II) – 1985	ppm	50	B.D.L
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	B.D.L
Carbon Dioxide	IS 307 :1966	mg/m^3	NA	B.D.L
Acid Mist	EPA Method	ppm	35	B.D.L
CH_4	EPA Method 3-C	ppm	--	B.D.L

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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/12/23/455	Date	21/12/2023
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	13/12/2023	Sample Receipt Date	14/12/2023
Analysis Start Date	15/12/2023	Analysis Complete Date	18/12/2023

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	^0C	182
Velocity of Flue Gases	M/Sec	9.82
Volume of Flue Gases	Nm^3/Hr	11632
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	56.2
Sulphur Di-Oxide	IS 1255 (part II) – 1985	kg/day	864	36.8
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	36.3
Carbon Dioxide	IS 307 :1966	mg/m^3	NA	0.11
Sulphur Content	---	%	4.5	0.00500

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.

Sadekar Enviro Engineers Pvt. Ltd. SEE

Authorized By

Sadekar Enviro Engineers Private Limited

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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/12/23/456	Date	21/12/2023
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	13/12/2023	Sample Receipt Date	14/12/2023
Analysis Start Date	15/12/2023	Analysis Complete Date	18/12/2023

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	^0C	110
Velocity of Flue Gases	M/Sec	9.72
Volume of Flue Gases	Nm^3/Hr	12231
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	53.7
Sulphur Di-Oxide	IS 1255 (part II) – 1985	kg/day	96	13.45
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	36.90
Carbon Dioxide	IS 307 :1966	mg/m^3	NA	0.16
Sulphur Content	---	%	1.0	0.0017

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

Sadekar Enviro Engineers Pvt. Ltd. SEE

Authorized By

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REPORT FOR AMBIENT NOISE LEVEL MONITORING

Report No	SEET/AA/12/23/428	Date	21/12/2023
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	12/12/2023		
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 (V-23)	71.4	67.2	63.1	59.0	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.
Leq: It is the energy mean of the noise level over a specified period.

Sadekar Enviro Engineers Pvt. Ltd.

Authorized By

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Sadekar Enviro Engineers Private Limited

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REPORT FOR AMBIENT NOISE LEVEL MONITORING

Report No	SEET/AA/12/23/429	Date	21/12/2023
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	12/12/2023		
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)	68.1	66.4	61.3	55.9	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.
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REPORT FOR AMBIENT NOISE LEVEL MONITORING

Report No	SEET/AA/12/23/430	Date	21/12/2023
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	12/12/2023		
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)	67.5	64.8	63.9	59.2	63.4
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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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/12/23/431	Date	21/12/2023
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	13/12/2023		
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)	72.3	67.1	53.2	48.4	59.7
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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And corresponds to frequency response characteristics of the human hear.
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Sadekar Enviro Engineers Pvt. Ltd.

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REPORT FOR AMBIENT NOISE LEVEL MONITORING

Report No	SEET/AA/12/23/432	Date	21/12/2023
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	12/12/2023		
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)	70.1	65.8	64.7	61.8	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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Leq: It is the energy mean of the noise level over a specified period.

Sadekar Enviro Engineers Pvt. Ltd. SEE

Authorized By

Sadekar Enviro Engineers Private Limited

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

REPORT FOR WORK PLACE NOISE LEVEL MONITORING

Report No	SEET/AA/12/23/433	Date	21/12/2023
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		

DAY TIME NOISE LEVEL MONITORING

Sr. No	Date of Monitoring	Sampling Location	Day Time Noise Levels in dB(A) Leq*		OSHA Limit Factory Act 1948 dB (A)
			Max	Min	
1	14/12/2023	Inside Utility (V-23) Near Steam Boiler	81.9	78.4	90
2	14/12/2023	Inside Ethoxylation Plant GF Near 11 K1 Blower (V-23)	83.5	80.1	90
3	14/12/2023	Inside Sulphonation Plant (V-23)	78.1	75.6	90
4	14/12/2023	Inside Sulphonation (EOU GF)	74.3	72.4	90
5	14/12/2023	Dryer (EOU) 3rd floor	84.7	79.2	90
6	14/12/2023	New Dryer (V-23) 3rd Floor	86.1	82.6	90
7	14/12/2023	ETP Near Paddle Dryer	83.4	81.9	90
8	14/12/2023	Outside Sulphonation Plant (MED, Near 11K1 Blower)	78.3	76.8	90
9	14/12/2023	Near DG Set (1900 KVA) Door Open /Door Close	102/73	97/70	90
10	14/12/2023	Near DG Set (1000 KVA) Door Open /Door Close	105/76	95/70	90

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.

Sadekar Enviro Engineers Pvt. Ltd. SEE

Authorized By

Sadekar Enviro Engineers Private Limited

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

REPORT FOR WORK PLACE NOISE LEVEL MONITORING

Report No	SEET/AA/12/23/434	Date	21/12/2023
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		

NIGHT TIME NOISE LEVEL MONITORING

Sr. No	Date of Monitoring	Sampling Location	Night Time Noise Levels in dB(A) Leq*		OSHA Limit Factory Act 1948 dB (A)
			Max	Min	
1	14/12/2023	Inside Utility (V-23) Near Steam Boiler	73.4	70.8	90
2	14/12/2023	Inside Ethoxylation Plant GF Near 11 K1 Blower (V-23)	74.6	72.4	90
3	14/12/2023	Inside Sulphonation Plant (V-23)	72.2	70.3	90
4	14/12/2023	Inside Sulphonation (EOU GF)	75.4	71.2	90
5	14/12/2023	Dryer (EOU) 3rd floor	74.4	73.5	90
6	14/12/2023	New Dryer (V-23) 3rd Floor	72.3	70.2	90
7	14/12/2023	ETP Near Paddle Dryer	75.9	71.4	90
8	14/12/2023	Outside Sulphonation Plant (MED, Near 11K1 Blower)	76.9	74.2	90
9	14/12/2023	Near DG Set (1900 KVA) Door Open /Door Close	97/68	94/65	90
10	14/12/2023	Near DG Set (1000 KVA) Door Open /Door Close	91/67	93/68	90

NOTE: *dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which isrelatable 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.

Sadekar Enviro Engineers Pvt. Ltd. SEE

Authorized By

Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2023

Unique Application Number	***Submitted Date***
MPCB-ENVIRONMENT_STATEMENT-0000061698	30-09-2023

PART A

Company Information

Company Name	***Application UAN number***	
Galaxy Surfactants Limited	UAN No.0000157115	
Address		
V-23 & Plot No.1, MIDC Taloja, Tal. Panvel, Dist. Raigad		
Plot no	***Taluka***	***Village***
V-23 & 01	Panvel	Chal
Capital Investment (In lakhs)	***Scale***	***City***
33300.33	LSI	Panvel
Pincode	***Person Name***	***Designation***
410208	Mr.DEEPAK DIVATE	Factory Manager
Telephone Number	***Fax Number***	***Email***
39215300	27411701	deepak.divate@galaxysurfactants.com
Region	***Industry Category***	***Industry Type***
SRO-Taloja	Red	other
Last Environmental statement submitted online	***Consent Number***	***Consent Issue Date***
yes	Format1.0/CAC/UAN No.MPCBCONSENT-0000157115/CR/2309002288	2023-09-28
Consent Valid Upto	***Establishment Year***	***Date of last environment statement submitted***
2026-02-28	1980	Sep 27 2022 12:00:00:000AM
Industry Category Primary (STC Code) & Secondary (STC Code)		

Product Information

Product Name	***Consent Quantity***	***Actual Quantity***	***UOM***
Anionic surfactants (on 100% AM basis) such as Fatty Alcohol Sulphate, Fatty Alcohol ether sulphates etc.	85680	71381	MT/A
Ethylene Oxide Condensate	60000	34617	MT/A
Cationic Surfactants (on 100% AM basis) such as Betaine, Quaternary Ammonium Salts etc.	18240	5474	MT/A
Sulphosuccinates	720	0	MT/A
Surfactant blends (on 100% AM basis) such as Syndet Soap- Granules/Noodles, Sparkle series etc.	15840	1764	MT/A

Fatty Acid Esters, Fatty alkanol amides and esterquats	20400	5522	MT/A

By-product Information

By Product Name	*Consent Quantity*	*Actual Quantity*	*UOM*
Concentrated Sulphuric Acid	1584	444.45	MT/A
Sodium Sulphate	2160	169.22	MT/A

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for	*Consent Quantity in m3/day*	*Actual Quantity in m3/day*
Process	320.00	170.58
Cooling	380.00	211.24
Domestic	65.00	34.00
All others	20.00	10.65
Total	785.00	426.47

2) Effluent Generation in CMD / MLD

Particulars	*Consent Quantity*	*Actual Quantity*	*UOM*
Trade Effluent	184.00	153.00	CMD
Domestic Effluent	60.00	28.00	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.	0.0023	0.0023	CMD
Ethylene Oxide Condensate	0.0050	0.0049	CMD
Cationic Surfactants (on 100% AM basis) such as Betaine, Quaternary Ammonium Salts etc.	0.0259	0.0311	CMD
Sulphosuccinates	0	0	CMD
Surfactant blends (on 100% AM basis) such as Syndet Soap- Granules/Noodles, Sparkle series etc.	0.1020	0.0967	CMD
Fatty Acid Esters, Fatty alkanol amides and esterquats.	0.0272	0.030	CMD
Conc. Sulphuric Acid (By Product)	0.22	0.252	CMD
Sodium Sulphate 20-25 % solution , MT/ M (By Product)	0.177	0.5611	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	0.265	0.272	MT/A
Caustic Lye	0.288	0.269	MT/A
Fatty Alcohol	0.630	0.641	MT/A
Sulphur	0.105	0.099	MT/A
CFA	0.428	0.467	MT/A
DMAPA	0.262	0.246	MT/A

MCA	0.242	0.228	MT/A
MEA	0.116	0.141	MT/A
MEG	0.063	0.051	MT/A
Stearic Acid	0.445	0.431	MT/A
Fatty Alcohol Ethoxylates	0.068	0.007	MT/A
Hydrogen Peroxide	0.001	0.001	MT/A
DMLA	0.0	0.0	MT/A
Starch	0.017	0.018	MT/A
Citric Acid	0.004	0.0043	MT/A
Cetostearyl Alcohol	0.118	0.107	MT/A
Ammonia	0.009	0.007	MT/A
Cetyl Alcohol (C16-95%)	0.0008	0.0	MT/A
Lauric Acid	0.0882	0.0829	MT/A
Maltodextrin	0.1518	0.1400	MT/A

4) Fuel Consumption

Fuel Name	*Consent quantity*	*Actual Quantity*	*UOM*
Coal	6570	3846.062	MT/A
FO	6762.72	284.006	MT/A
HSD	1752	21.38	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*		
	Quantity	*Concentration*	*%variation*	*Standard*	*Reason*
pH	0	7.60	-	NA	ZLD
BOD	0	1.0	--	NA	ZLD
COD	0	14.00	--	NA	ZLD
Oil & Grease	0	0.2	--	NA	ZLD
Suspended Solids	0	5	--	NA	ZLD
Total Dissolved Solids	0	68	--	NA	ZLD
Sulphates	0	6.30	--	NA	ZLD
Chlorides	0	11.80	--	NA	ZLD
Total Ammonical Nitrogen	0	0.1	--	NA	ZLD
Total Kjeldhal Nitrogen	0	0.5	--	NA	ZLD
Sodium	0	1	--	NA	ZLD
Free Ammonia	0	0.1	--	NA	ZLD

[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		
	Quantity	Concentration	%variation	Standard	Reason
TPM - (S-6 MED)	0	15.2	89.86	150	Within MPCB norms
TPM - (S1 2.5 TPH)	0	56.8	62.13	150	Within MPCB norms
SO2 - (S1 2.5 TPH)	21.5	0	96.68	648	Within MPCB norms
TPM - (S2 5 TPH)	0	48.5	67.66	150	Within MPCB norms
SO2- (S2 5 TPH)	10.35	0	94.25	180	Within MPCB norms
TPM- (Thermopac)	0	54.7	63.53	150	Within MPCB norms
TPM- (SO2)	18.55	0	88.10	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	15.8	89.46	150	Within MPCB norms
TPM - (D.G Set 1.9 MW)	0	60.8	59.46	150	Within MPCB norms
SO2 - (D.G Set 1.9 MW)	34.5	0	96.00	864	Within MPCB norms
TPM - (D.G Set 1000 KVA)	0	53.7	64.2	150	Within MPCB norms
SO2 - (D.G Set 1000 KVA)	10.85	0	88.69	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	5.04	3.57	MT/A
1.6 Spent catalyst and molecular sieves	2.42	2.15	MT/A
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	13.03	13.34	MT/A
33.2 Contaminated cotton rags or other cleaning materials	0.11	0.54	MT/A
5.2 Wastes or residues containing oil	3.73	0.65	MT/A
Other Hazardous Waste	0	230.949	MT/A
Other Hazardous Waste	0	91.583	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	82.71	74.2	MT/A
35.3 Chemical sludge from waste water treatment	71.36	76.34	MT/A
37.3 Concentration or evaporation residues	75.77	87.07	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	46.422	62.386	MT/A

Corrugated Box	0.13	0.15	MT/A
Broken Glass	1.45	2.67	MT/A
Used decontaminated drums	5705	6097	Nos./Y
Plastic/HDPE decontaminated bags	8.459	15.35	MT/A
Flexi bags	1271	1843	Nos./Y
Filter elements	0.0	0	Nos./Y
Wooden scrap	86.57	113.78	MT/A
Non contaminated Plastic	13.649	3.388	MT/A
Insulation Waste (LRB, PUF, Calcium Silicate, Nirrile rubber, Cerawool, Asbestos Rope, etc)	17.88	17.76	MT/A
Process Consumables (Silica gel, Ceramic, Alumina, etc.)	1.58	5.27	MT/A
Miscellanious waste (Tyre, V belt, Welding rod, etc)	0	1.27	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)	413.48	401.19	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	3.57	MT/A	Disposed to MWML
1.6 Spent catalyst and molecular sieves	2.15	MT/A	Disposed to MWML
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	13.34	MT/A	Disposed to MWML
33.2 Contaminated cotton rags or other cleaning materials	0.54	MT/A	Disposed to MWML
5.2 Wastes or residues containing oil	0.65	MT/A	Disposed to MWML
37.2 Ash from incinerator and flue gas cleaning residue	74.2	MT/A	Disposed to MWML
35.3 Chemical sludge from waste water treatment	76.34	MT/A	Disposed to MWML
37.3 Concentration or evaporation residues	87.07	MT/A	Disposed to MWML
Other Hazardous Waste	230.949	MT/A	Concentrated Sulphuric Acid (Sale toRecycler)
Other Hazardous Waste	91.583	MT/A	Sodium Sulphate (Sale to recycler)

2) Solid Waste

Type of Solid Waste Generated	***Qty of Solid Waste***	***UOM***	***Concentration of Solid Waste***
Waste Paper/ paper bags	62.386	MT/A	100% Sale to authorized party
Corrugated Box	0.15	MT/A	100% Sale to authorized party

Broken Glass	2.67	MT/A	100% Sale to authorized party
Used decontaminated drums	6097	Nos./Y	100% Sale to authorized party
Plastic/HDPE decontaminated bags	15.35	MT/A	100% Sale to authorized party
Flexi bags	1843	Nos./Y	100% Sale to authorized party
Filter elements	0.0	Nos./Y	100% Sale to authorized party
Wooden scrap	113.78	MT/A	100% Sale to authorized party
Boiler Ash (Coal Fired boiler)	401.19	MT/A	100% Sale to authorized party
Non-contaminated Plastic	3.388	MT/A	100% Sale to authorized party
Insulation Waste (LRB, PUF, Calcium Silicate, Nirrile rubber, Cerawool, Asbestos Rope, etc)	17.76	MT/A	100% Sale to authorized party
Process Consumables (Silica gel, Ceramic, Alumina, etc.)	5.27	MT/A	100% Sale to authorized party
Miscellanious waste (Tyre, V belt, Welding rod, etc)	1.27	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	200

Part-I

Any other particulars for improving the quality of the environment.

Particulars

Planted 105 trees in plant premises

Name & Designation

Mr.Deepak Divate - Factory Manager

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000061698

Submitted On:

30-09-2023

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:	***Submitted On:***	***Industry Type :***
MPCB-HW_ANNUAL_RETURN-0000039395	28-06-2023	Generator

Submitted for Year:

April 2022 to March 2023

1. Name of the generator/operator of facility	***Address of the unit/facility***
Galaxy Surfactants Ltd	Plot No. V-23 MIDC Taloja and Plot No. 01, Village Chal, Tal. Panvel, Dist. Raigad, Pin Code - 410208

1b. Authorization Number	***Date of issue***	***Date of validity of consent***
Format 1.0/CAC/UAN No. MPCB-Consent-0000128187/CR/2211000722	Nov 10, 2022	Feb 28, 2023

2. Name of the authorised person	***Full address of authorised person***
Avinash Shinde	Plot No. V-23 MIDC Taloja and Plot No. 01, Village Chal, Tal. Panvel, Dist. Raigad, Pin Code - 410208

Telephone	***Fax***	***Email***
02239215300	02227411702	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 Sulphate, Fatty Alcohol Ether Sulphates etc.	85680.0000	67051	MT/A
Chemical ,Petrochemical &Electrochemical	Ethylene Oxide Condensate	60000.0000	34549	MT/A
Chemical ,Petrochemical &Electrochemical	Cationic Surfactants (on 100% AM basis) such as Betains, Quaternary Ammonium Salts etc.	18240.0000	5170	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	1766	MT/A
Chemical ,Petrochemical &Electrochemical	Fatty Acid Esters, Fatty Alkanol Amides and Esterquates	20400.0000	5522	MT/A

PART A: To be filled by hazardous waste generators

1. Total Quantity of waste generated category wise

Type of hazardous waste	***Wate Name***	***Consented Quantity***	***Quantity***	***UOM***
1.6 Spent catalyst and molecular sieves	Spent Catalyst and molecular sieves	6.000	2.15	MTA

5.1 Used or spent oil	Used or Spent Oil	6.000	3.57	MTA
5.2 Wastes or residues containing oil	Wastes or Residues containing Oil	1.000	0.65	MTA
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	Empty barrels/containers/liners contaminated with hazardous chemicals/wastes	24.000	13.34	MTA
33.2 Contaminated cotton rags or other cleaning materials	Contaminated cotton rags or other cleaning materials	1.000	0.54	MTA
35.1 Exhaust Air or Gas cleaning residue	Exhaust Air or Gas cleaning residue	98.400	74.2	MTA
35.3 Chemical sludge from waste water treatment	Chemical Sludge from waste treatment plant	108.000	76.34	MTA
37.3 Concentration or evaporation residues	Concentration or evaporation residues	180.000	87.07	MTA
Other Hazardous Waste	Concentrated Sulphuric Acid	1584.000	692	MTA
Other Hazardous Waste	Sodium Sulphate	2160.000	330	MTA

2. Quantity dispatched category wise.

Type of Waste	***Quantity of waste***	***UOM***	***Dispatched to***	***Facility Name***
1.6 Spent catalyst and molecular sieves	2.15	KL/Anum	Disposal Facility	Mumbai Waste Management Ltd.
5.1 Used or spent oil	3.57	KL/Anum	Disposal Facility	Mumbai Waste Management Ltd
5.2 Wastes or residues containing oil	0.65	KL/Anum	Disposal Facility	Mumbai Waste Management Ltd
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	13.34	KL/Anum	Disposal Facility	Mumbai Waste Management Ltd
33.2 Contaminated cotton rags or other cleaning materials	0.54	KL/Anum	Disposal Facility	Mumbai Waste Management Ltd
35.1 Exhaust Air or Gas cleaning residue	74.2	KL/Anum	Disposal Facility	Mumbai Waste Management Ltd
35.3 Chemical sludge from waste water treatment	76.34	KL/Anum	Disposal Facility	Mumbai Waste Management Ltd
37.3 Concentration or evaporation residues	87.07	KL/Anum	Disposal Facility	Mumbai Waste Management Ltd
Other Hazardous Waste	692	KL/Anum	Recycler or Actual user	Rama Krishi Rasayan
Other Hazardous Waste	330	KL/Anum	Recycler or Actual user	Ansh Enterprises

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

5. Quantity disposed in landfills as such and after treatment

Type	***Quantity***	***UOM***
Direct landfilling	NA	KL/Anum
Landfill after treatment	NA	KL/Anum

6. Quantity incinerated (if applicable)	***UOM***
NA	KL/Anum

PART B: To be filled bt 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

Type	***Quantity***	***UOM***
Direct landfilling	NA	KL/Anum
Landfill after treatment	NA	KL/Anum

5. Quantity incinerated (if applicable)	***UOM***
NA	KL/Anum

6. Quantiry 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-procesed 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

9. Quantity disposed in landfills as such and after treatment

Type	***Quantity***	***UOM***
Direct landfilling	NA	KL/Anum
Landfill after treatment	NA	KL/Anum

10. Quantity incinerated (if applicable)	***UOM***
NA	KL/Anum

Personal Details

Place	***Date***	***Designation***
Taloja	2023-06-28	General Manager - SHE/Instrumentation Process