

21.7.2021

Environment Department  
Room no.217, 2<sup>nd</sup> 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 from January 2021 to June 2021, 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



Shamsunder Gawade  
Sr. Manager – Corporate Governance Process

Encl: As above

- CC** : 1. Maharashtra Pollution Control Board  
Raigad Bhavan, 7<sup>th</sup> 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.  
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**COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE**  
(Period: January 2021 – June 2021)

**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
	<b>Total</b>	<b>17052</b>

**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 shall be responsible for end disposal of Hazardous Waste to Authorized dealer.  We will abide by the specific effluent characteristics after treatment.  Complied.
2	No additional land shall be used / acquired for any activity of the project without obtaining proper permission.	The project is implemented at existing plot. Complied.
3	For controlling fugitive natural dust, regular sprinkling of water and wind shields at	Complied.





	appropriate distances in vulnerable areas of Plant shall be ensured.	
4	Regular monitoring of the air quality, including SPM and SO <sub>2</sub> 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.	We are maintaining proper housekeeping within premises. Complied.
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 achieved.	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.
10	Arrangement shall be made that effluent and storm water does not get mixed.	Separate arrangements are made for effluent and storm water. Complied.
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. Complied.
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	The overall noise levels in and around the plant kept well within the standards. Proper noise barriers, acoustic enclosures are provided on

	sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules 1989.	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. 1117 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.  Complied.
16	Occupational health surveillance of the workers shall be done on a regular basis and the record shall be maintained as per Factories Act.	We have separate SHE department to take care of health and safety of the people working in the unit. We conduct monthly meeting monitoring health and safety of the people. Half yearly health checkup of workers are done on regular basis 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 installed. Complied.
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





		<p>incineration and Spent Catalyst and molecular sieves (6 MT/A) by landfill.</p> <p>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.</p> <p>We maintain the record for hazardous waste generation in form 3 &amp; disposal in Form 10 and submit the Annual return in Form 4 to MPCB.</p>
19	<p>The Company shall undertake following Waste Minimization Measures :</p> <ul style="list-style-type: none"> <li>• Metering of quantities of active ingredients to minimize waste.</li> <li>• Reuse of by-products from the process as raw materials or as raw material substitutes in other process.</li> <li>• Maximizing recoveries.</li> <li>• Use of automated transfer system to minimize spillage.</li> </ul>	<p>Use of level transmitters in storage tank and adjustment vessel to avoid spillages.</p> <p>Automated transfer of most of intermediate, raw materials and finished goods used for avoiding spillages.</p>
20	<p>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.</p>	<p>On-site emergency management plan prepared. Total evacuation mock drill which was due in the month of May, 2021 was postponed due to Covid-19 restrictions with information to DISH authorities.</p>
21	<p>A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.</p>	<p>Complied.</p> <p>Environment management cell is set up with total 17 members of various Departments.</p>
22	<p>Transportation of ash will be through closed containers and all measure should be taken to prevent spilling of ash.</p>	<p>Complied.</p>
23	<p>Separate silos will be provided for collecting and storing bottom ash and fly ash.</p>	<p>We have dedicated area for collecting bottom ash from furnace &amp; we collect the fly ash from Cyclone separator &amp; bag filter in drums &amp; then shifted to dedicated area.</p> <p>This area is completely isolated &amp; covered from all sides to avoid any interference.</p>

24	Separate funds shall be allocated for implementation of environmental protection measures / EMP along with item-wise break-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. 35 Lacs (approx.) for ETP plant modification, operation and maintenance for ETP & MEE plant.
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 <a href="http://ec.maharashtra.gov.in">http://ec.maharashtra.gov.in</a> .	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 <sup>st</sup> June and 1 <sup>st</sup> December of each calendar year.	Complied.
27	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Complied. 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 <sub>2</sub> , NO <sub>x</sub> (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.	Complied.  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.  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	Complied.

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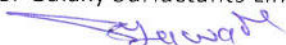


	monitored data (both in hard copies as well as by email) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	
30	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form – V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the Company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by email.	<p>Complied.</p> <p>Environment statement for the year 2019-2020 submitted online with the MPCB website on 23.09.2020</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>

**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.	<p>Complied.</p> <p>Copy of Consent to Establish was submitted in earlier EC Compliance report.</p>
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.	Not applicable.

For Galaxy Surfactants Limited

  
Shamsunder Gawade

Sr. Manager- Corporate Governance Process



# Sadekar Enviro Engineers Pvt. Ltd.

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

## ANALYSIS REPORT FOR AMBIENT AIR SURVEILLANCE

Report No	SEET/AA/2021/05	Date	05/04/2021
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	25/03/2021	Sample Receipt Date	26/03/2021
Analysis Start Date	27/03/2021	Analysis Complete Date	30/03/2021

### AMBIENT AIR STATION

Location of H.V.S.	Near Admin Gate (EOU)	Lateral Distance	5.0 Mtr. From Admin Gate (EOU)
Ambient Temperature	35.5°C	Receptor Distance	1.5 Mtr. From Ground Level

### POLLUTIONAL PARAMETERS

Parameters	Units	Result	NAAQS Limits	Method
Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	47.5	100	Instr.Manual version 2.01
Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	34.5	60	CPCB Manual Volume 1
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	31.9	80	IS 5182(part 2)2001 (RA 2017)
Oxide of Nitrogen (NO <sub>x</sub> )	µg/m <sup>3</sup>	27.3	80	IS 5182(part 2)2006 (RA 2017)
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	BDL(MDL<19.6)	100	MASA-411 3 <sup>rd</sup> Ed
Lead (Pb)	µg/m <sup>3</sup>	BDL(MDL<0.1)	1.0	MASA-822 3 <sup>rd</sup> Ed
Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.28	02	IS 5182(part 10)1999 (RA 2014)
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL(MDL<0.02)	400	MASA-401 3 <sup>rd</sup> Ed
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL(MDL<0.2)	05	IS 5182(part 11)2006 (RA 2017)
Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	BDL(MDL<1)	01	CPCB Manual Vol 1 2011
Arsenic (As)	ng/m <sup>3</sup>	BDL(MDL<0.1)	06	MASA-302 3 <sup>rd</sup> Ed
Nickel (Ni)	ng/m <sup>3</sup>	BDL(MDL<7)	20	MASA-822 3 <sup>rd</sup> 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.

Authorized By



OK  
16/04/21

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## ANALYSIS REPORT FOR AMBIENT AIR SURVEILLANCE

Report No	SEET/AA/2021/04	Date	05/04/2021
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	25/03/2021	Sample Receipt Date	26/03/2021
Analysis Start Date	27/03/2021	Analysis Complete Date	30/03/2021

### AMBIENT AIR STATION

Location of H.V.S.	Near MED Ware House (MED)	Lateral Distance	5.0 Mtr. From MED Ware House
Ambient Temperature	35.5°C	Receptor Distance	1.5 Mtr. From Ground Level

### POLLUTIONAL PARAMETERS

Parameters	Units	Result	NAAQS Limits	Method
Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	34.3	100	Instr.Manual version 2.01
Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	23.6	60	CPCB Manual Volume I
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	25.1	80	IS 5182(part 2)2001 (RA 2017)
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	21.7	80	IS 5182(part 2)2006 (RA 2017)
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	BDL(MDL<19.6)	100	MASA-411 3 <sup>rd</sup> Ed
Lead (Pb)	µg/m <sup>3</sup>	BDL(MDL<0.1)	1.0	MASA-822 3 <sup>rd</sup> Ed
Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.17	02	IS 5182(part 10)1999 (RA 2014)
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL(MDL<0.02)	400	MASA-401 3 <sup>rd</sup> Ed
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL(MDL<0.2)	05	IS 5182(part 11)2006 (RA 2017)
Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	BDL(MDL<1)	01	CPCB Manual Vol 1 2011
Arsenic (As)	ng/m <sup>3</sup>	BDL(MDL<0.1)	06	MASA-302 3 <sup>rd</sup> Ed
Nickel (Ni)	ng/m <sup>3</sup>	BDL(MDL<7)	20	MASA-822 3 <sup>rd</sup> Ed

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

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## ANALYSIS REPORT FOR AMBIENT AIR SURVEILLANCE

Report No	SEET/AA/2021/03	Date	05/04/2021
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	24/03/2021	Sample Receipt Date	25/03/2021
Analysis Start Date	26/03/2021	Analysis Complete Date	27/03/2021

### 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	35.5°C	Receptor Distance	1.5 Mtr. From Ground Level

### POLLUTIONAL PARAMETERS

Parameters	Units	Result	NAAQS Limits	Method
Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	54.2	100	Instr.Manual version 2.01
Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	41.6	60	CPCB Manual Volume I
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	32.1	80	IS 5182(part 2)2001 (RA 2017)
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	28.7	80	IS 5182(part 2)2006 (RA 2017)
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	BDL(MDL<19.6)	100	MASA-411 3 <sup>rd</sup> Ed
Lead (Pb)	µg/m <sup>3</sup>	BDL(MDL<0.1)	1.0	MASA-822 3 <sup>rd</sup> Ed
Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.95	02	IS 5182(part 10)1999 (RA 2014)
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL(MDL<0.02)	400	MASA-401 3 <sup>rd</sup> Ed
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL(MDL<0.2)	05	IS 5182(part 11)2006 (RA 2017)
Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	BDL(MDL<1)	01	CPCB Manual Vol I 2011
Arsenic (As)	ng/m <sup>3</sup>	BDL(MDL<0.1)	06	MASA-302 3 <sup>rd</sup> Ed
Nickel (Ni)	ng/m <sup>3</sup>	BDL(MDL<7)	20	MASA-822 3 <sup>rd</sup> 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.

Authorized By



OK  
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16/04/21.

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## ANALYSIS REPORT FOR AMBIENT AIR SURVEILLANCE

Report No	SEET/AA/2021/02	Date	05/04/2021
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	24/03/2021	Sample Receipt Date	25/03/2021
Analysis Start Date	26/03/2021	Analysis Complete Date	27/03/2021

### 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	35.5°C	Receptor Distance	1.5 Mtr. From Ground Level

### POLLUTIONAL PARAMETERS

Parameters	Units	Result	NAAQS Limits	Method
Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	43.6	100	Instr.Manual version 2.01
Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	29.8	60	CPCB Manual Volume 1
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	26.9	80	IS 5182(part 2)2001 (RA 2017)
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	24.0	80	IS 5182(part 2)2006 (RA 2017)
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	BDL(MDL<19.6)	100	MASA-411 3 <sup>rd</sup> Ed
Lead (Pb)	µg/m <sup>3</sup>	BDL(MDL<0.1)	1.0	MASA-822 3 <sup>rd</sup> Ed
Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.34	02	IS 5182(part 10)1999 (RA 2014)
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL(MDL<0.02)	400	MASA-401 3 <sup>rd</sup> Ed
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL(MDL<0.2)	05	IS 5182(part 11)2006 (RA 2017)
Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	BDL(MDL<1)	01	CPCB Manual Vol 1 2011
Arsenic (As)	ng/m <sup>3</sup>	BDL(MDL<0.1)	06	MASA-302 3 <sup>rd</sup> Ed
Nickel (Ni)	ng/m <sup>3</sup>	BDL(MDL<7)	20	MASA-822 3 <sup>rd</sup> 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/2021/01	Date	05/04/2021
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	24/03/2021	Sample Receipt Date	25/03/2021
Analysis Start Date	26/03/2021	Analysis Complete Date	27/03/2021

### AMBIENT AIR STATION

Location of H.V.S.	Near Material Gate (V-23)	Lateral Distance	5.0 Mtr. From Material Gate
Ambient Temperature	35.5°C	Receptor Distance	1.5 Mtr. From Ground Level

### POLLUTIONAL PARAMETERS

Parameters	Units	Result	NAAQS Limits	Method
Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	45.1	100	Instr.Manual version 2.01
Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	30.6	60	CPCB Manual Volume 1
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	32.4	80	IS 5182(part 2)2001 (RA 2017)
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	26.5	80	IS 5182(part 2)2006 (RA 2017)
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	BDL(MDL<19.6)	100	MASA-411 3 <sup>rd</sup> Ed
Lead (Pb)	µg/m <sup>3</sup>	BDL(MDL<0.1)	1.0	MASA-822 3 <sup>rd</sup> Ed
Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.46	02	IS 5182(part 10)1999 (RA 2014)
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL(MDL<0.02)	400	MASA-401 3 <sup>rd</sup> Ed
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL(MDL<0.2)	05	IS 5182(part 11)2006 (RA 2017)
Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	BDL(MDL<1)	01	CPCB Manual Vol 1 2011
Arsenic (As)	ng/m <sup>3</sup>	BDL(MDL<0.1)	06	MASA-302 3 <sup>rd</sup> Ed
Nickel (Ni)	ng/m <sup>3</sup>	BDL(MDL<7)	20	MASA-822 3 <sup>rd</sup> 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.

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## ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/2021/75	Date	05/04/2021
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	31/03/2021	Sample Receipt Date	01/04/2021
Analysis Start Date	02/04/2021	Analysis Complete Date	03/04/2021


### 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	<sup>0</sup> C	191
Velocity of Flue Gases	M/Sec	9.64
Volume of Flue Gases	Nm <sup>3</sup> /Hr	11197
Type of Fuel	Kg/Hr.	F.O./L.D.O

### POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm <sup>3</sup>	150	71.4
Sulphur Di-Oxide	IS 1255 (part II) – 1985	kg/day	86.4	13.8
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	--	11.40
Carbon Dioxide	IS 307 :1966	mg/m <sup>3</sup>	--	0.32
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/2021/21	Date	05/04/2021
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	25/03/2021	Sample Receipt Date	26/03/2021
Analysis Start Date	27/03/2021	Analysis Complete Date	30/03/2021

### 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	191
Velocity of Flue Gases	M/Sec	9.40
Volume of Flue Gases	Nm <sup>3</sup> /Hr	2729
Type of Fuel	Kg/Hr.	Coal

### POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm <sup>3</sup>	150	94.3
Sulphur Di-Oxide	IS 1255 (part II) – 1985	kg/day	12.0	6.98
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	--	B.D.L
Carbon Dioxide	IS 307 :1966	mg/m <sup>3</sup>	--	0.26
Sulphates	EPA Method	ppm	N.A.	1.09
Chloride	EPA-26 A Method	mg/Nm <sup>3</sup>	N.A.	0.04
SulphurContent	---	%	0.5	0.0040

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.

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## ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/2021/22	Date	05/04/2021
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	25/03/2021	Sample Receipt Date	26/03/2021
Analysis Start Date	27/03/2021	Analysis Complete Date	30/03/2021

### 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	<sup>0</sup> C	188
Velocity of Flue Gases	M/Sec	9.41
Volume of Flue Gases	Nm <sup>3</sup> /Hr	2750
Type of Fuel	Kg/Hr.	F.O

### POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm <sup>3</sup>	150	72.5
Sulphur Di-Oxide	IS 1255 (part II) - 1985	kg/day	155.52	6.43
Oxide of Nitrogen	IS 11255 (part 7)-2005	Ppm	--	4.38
Carbon Dioxide	IS 307 :1966	mg/m <sup>3</sup>	--	0.25
Sulphur Content	---	%	4.5	0.0037

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/2021/13	Date	05/04/2021
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	24/03/2021	Sample Receipt Date	25/03/2021
Analysis Start Date	26/03/2021	Analysis Complete Date	27/03/2021

### 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	<sup>o</sup> C	46
Velocity of Flue Gases	M/Sec	6.69
Volume of Flue Gases	Nm <sup>3</sup> /Hr	6358
Type of Fuel	--	---

### POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm <sup>3</sup>	150	18.9
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	1.46
Carbon Dioxide	IS 307 :1966	mg/m <sup>3</sup>	NA	0.13
Acid Mist	EPA Method	ppm	NA	7.82

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/2021/20	Date	05/04/2021
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	24/03/2021	Sample Receipt Date	25/03/2021
Analysis Start Date	26/03/2021	Analysis Complete Date	27/03/2021

### 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	<sup>o</sup> C	44
Velocity of Flue Gases	M/Sec	7.57
Volume of Flue Gases	Nm <sup>3</sup> /Hr	7239
Type of Fuel	--	---

### POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm <sup>3</sup>	150	24.7
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 <sup>3</sup>	NA	0.15
Acid Mist	EPA Method	ppm	NA	8.02

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.

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## ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/2021/28	Date	05/04/2021
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	25/03/2021	Sample Receipt Date	26/03/2021
Analysis Start Date	27/03/2021	Analysis Complete Date	30/03/2021

### 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	<sup>0</sup> C	42
Velocity of Flue Gases	M/Sec	7.54
Volume of Flue Gases	Nm <sup>3</sup> /Hr	7257
Type of Fuel	--	---

### POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm <sup>3</sup>	150	28.9
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 <sup>3</sup>	NA	0.20
Acid Mist	EPA Method	ppm	NA	9.36

NOTE:1)The above results relate only to the condition prevailing at the time of sampling.  
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## ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/2021/30	Date	05/04/2021
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	31/03/2021	Sample Receipt Date	01/04/2021
Analysis Start Date	02/04/2021	Analysis Complete Date	03/04/2021

### 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	198
Velocity of Flue Gases	M/Sec	10.86
Volume of Flue Gases	Nm <sup>3</sup> /Hr	12427
Type of Fuel	Kg/Hr.	F.O

### POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm <sup>3</sup>	150	41.5
Sulphur Di-Oxide	IS 1255 (part II) - 1985	kg/day	810	16.9
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	5.22
Carbon Dioxide	IS 307 :1966	mg/m <sup>3</sup>	NA	0.20
Sulphur Content	---	%	4.5	0.0021

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.

Authorized By



BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India ☎ : (0832) 2437048 / 2437164  
E-mail : sadekarenviro@rediffmail.com • Website : www.sadekarenviro.com

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. Wagale 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

## ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/2021/31	Date	05/04/2021
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	31/03/2021	Sample Receipt Date	01/04/2021
Analysis Start Date	02/04/2021	Analysis Complete Date	03/04/2021

### 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	185
Velocity of Flue Gases	M/Sec	10.27
Volume of Flue Gases	Nm <sup>3</sup> /Hr	12085
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 <sup>3</sup>	150	44.2
Sulphur Di-Oxide	IS 1255 (part II) - 1985	kg/day	81.6	6.85
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	4.39
Carbon Dioxide	IS 307 :1966	mg/m <sup>3</sup>	NA	0.15
Sulphur Content	---	%	1.0	0.0008

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.

Authorized By 

OK -  
S. J.  
16/04/21.

BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India ☎ : (0832) 2437048 / 2437164  
E-mail : sadekarenviro@rediffmail.com • Website : [www.sadekarenviro.com](http://www.sadekarenviro.com)

LABORATORY : B-306/307, Plot No. 61, Patel Estate, Reis Magos, Verem, Alto, Old Belim Road, Bardez, Porvorim, Panaji-Goa-403 101.  
Goa State, India. ☎ : (0832) 2411322 / 23 • E-mail : starlabgoa@rediffmail.com • CIN No. U45209MH1998PTC-116379





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

Environmental Audit Report for the financial Year ending the 31st March 2020

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000027040

### Submitted Date

23-09-2020

### 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

### 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

62958

MT/A

Ethylene Oxide Condensate

60000

37708

MT/A

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

18240

6129

MT/A

Sulphosuccinates

720

0

MT/A

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

15840

1201

MT/A

Fatty Acid Esters, Fatty alkanol amides and esterquats

20400

6492

MT/A

### By-product Information

#### By Product Name

Conc. Sulphuric Acid

#### Consent Quantity

1584

#### Actual Quantity

682

#### UOM

MT/A

Sodium Sulphate 20-25 % solution , Solids 37.5 MT/ M

2160

325

MT/A

**1) Water Consumption in m3/day**

<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>
	320.00	167.00
<b>Cooling</b>	380.00	207.00
<b>Domestic</b>	65.00	35.00
<b>All others</b>	20.00	9.00
<b>Total</b>	785.00	418.00

**1) Effluent Generation in CMD / MLD**

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Trade Effluent	184.00	161.00	CMD
Domestic Effluent	60.00	30.00	CMD

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

<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Anionic surfactants (on 100% AM basis) such as Fatty Alcohol Sulphate, Fatty Alcohol ether sulphates etc.	--	91.85	CMD
Ethylene Oxide Condensate	--	54.99	CMD
Cationic Surfactants (on 100% AM basis) such as Betaine, Quaternary Ammonium Salts etc.	--	8.93	CMD
Sulphosuccinates	--	--	CMD
Surfactant blends (on 100% AM basis) such as Syndet Soap- Granules/Noodles, Sparkle series etc.	--	1.73	CMD
Fatty Acid Esters, Fatty alkanol amides and esterquats.	--	9.46	CMD

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

<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Ethylene Oxide	--	9736.4	MT/A
Caustic Lye	--	18375.8	MT/A
Fatty Alcohol	--	44814	MT/A
Sulphur	--	6676.50	MT/A
HCFA	--	5993.90	MT/A
DMAPA	--	1534.40	MT/A
MCA	--	1459.50	MT/A
MEA	--	907.00	MT/A
MEG	--	312.30	MT/A
Stearic Acid	--	2695.90	MT/A
Fatty Alcohol Ethoxylates	--	170.70	MT/A
Hydrogen Peroxide	--	70.0	MT/A
DMLA	--	0.0	MT/A
Starch	--	26.60	MT/A



Citric Acid	--	295.90	MT/A
Cetostearyl Alcohol	--	180.80	MT/A

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Coal	6570	3519.319	MT/A
FO	4266.12	209.269	MT/A
HSD	1489.2	2.006	KL/A

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	--	7.14	16.0	6.0 - 8.5	Within MPCB norms
BOD	--	<1.0	94	100	Within MPCB norms
COD	--	10.66	95.73	250	Within MPCB norms
Oil & Grease	--	<0.2	98	10	Within MPCB norms
Suspended Solids	--	27	73	100	Within MPCB norms
Total Suspended Solids	--	82.66	96.06	2100	Within MPCB norms
Sulphates	--	12.65	98.73	1000	Within MPCB norms
Chlorides	-	11.76	98.04	600	Within MPCB norms
Total Ammonical Nitrogen	--	<0.1	99.80	50	Within MPCB norms
Total Kjeldhal Nitrogen	--	<0.5	99.50	100	Within MPCB norms
Sodium	--	<1.0	98.33	60%	Within MPCB norms
Free Ammonia	--	<0.1	99.80	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)	--	28.2	81.20	150	Within MPCB norms
SO2 - (S-6 MED)	<1.0	--	98.0	50	Within MPCB norms
TPM - (S1 2.5 TPH)	--	98.6	34.26	150	Within MPCB norms
SO2 - (S1 2.5 TPH)	8.62	--	90.02	86.4	Within MPCB norms
TPM - (S2 5 TPH)	--	108.3	27.8	150	Within MPCB norms
SO2- (S2 5 TPH)	6.74	--	43.83	12.0	Within MPCB norms
TPM- (Thermopac)	--	99.3	33.80	150	Within MPCB norms
TPM- (SO2)	5.12	--	96.71	155.82	Within MPCB norms
TPM- (V-23 Scrubber No.1)	--	20.8	86.13	150	Within MPCB norms
SO2- (V-23 Scrubber No.1)	<1.0	--	98.0	50	Within MPCB norms

TPM- (EOU Scrubber No.2)	--	30.5	79.66	150	Within MPCB norms
SO2- (EOU Scrubber No.2)	<1.0	--	98.0	150	Within MPCB norms
TPM - (D.G Set 1.9 MW)	--	46.3	69.13	150	Within MPCB norms
SO2 - (D.G Set 1.9 MW)	5.04	--	99.37	810	Within MPCB norms
TPM - (D.G Set 1000 KVA)	--	44.50	70.33	150	Within MPCB norms
SO2 - (D.G Set 1000 KVA)	4.56	--	94.41	81.6	Within MPCB norms

## **HAZARDOUS WASTES**

### **1) From Process**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	1.71	1.37	MT/A
1.6 Spent catalyst and molecular sieves	0.61	0.29	MT/A
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	16.62	19.21	MT/A
33.2 Contaminated cotton rags or other cleaning materials	0	0.03	MT/A
5.2 Wastes or residues containing oil	0	0.940	MT/A

### **2) From Pollution Control Facilities**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
35.1 Exhaust Air or Gas cleaning residue	65.81	71.02	MT/A
35.3 Chemical sludge from waste water treatment	68.29	80.78	MT/A

## **SOLID WASTES**

### **1) From Process**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
Waste Paper/ paper bags	23.912	23.70	MT/A
Corrugated Box	0.0	0.0	MT/A
Broken Glass/Noncontaminated Plastic	1.124	1.12	MT/A
Used decontaminated drums	3434	2458	Nos./Y
Plastic/HDPE decontaminated bags	23862	23500	Nos./Y
Flexi bags	1450	1450	Nos./Y
Filter elements	0.0	0	Nos./Y
Wooden scrap	11.931	11.8	MT/A

### **2) From Pollution Control Facilities**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
Boiler Ash (Coal Fired boiler)	0.26108	0.25124	MT/A

### **3) Quantity Recycled or Re-utilized within the unit**

<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	NA	NA	CMD

**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	1.37	MT/A	Disposed to MWML
1.6 Spent catalyst and molecular sieves	0.29	MT/A	Disposed to MWML
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	19.21	MT/A	Disposed to MWML
33.2 Contaminated cotton rags or other cleaning materials	0.03	MT/A	Disposed to MWML
5.2 Wastes or residues containing oil	0.940	MT/A	Disposed to MWML
35.1 Exhaust Air or Gas cleaning residue	71.02	MT/A	Disposed to MWML
35.3 Chemical sludge from waste water treatment	80.78	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	23.70	MT/A	100% Sale to authorized party
Corrugated Box	0.0	MT/A	NA
Broken Glass/Non-contaminated Plastic	1.12	MT/A	100% Sale to authorized party
Used decontaminated drums	2458	Nos./Y	100% Sale to authorized party
Plastic/HDPE decontaminated bags	23500	Nos./Y	100% Sale to authorized party
Flexi bags	1450	Nos./Y	100% Sale to authorized party
Filter elements	0.0	Nos./Y	NA
Wooden scrap	11.80	MT/A	100% Sale to authorized party
Boiler Ash (Coal Fired boiler)	0.25124	MT/A	100% Sale to authorized party

### 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	NA	NA	NA	NA	NA

### 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)
NA	NA	NA

#### [B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
NA	NA	NA

### Any other particulars in respect of environmental protection and abatement of pollution.

#### Particulars

Planted 100 trees in plant premises

#### Name & Designation

Mr. Seshu, Head Conversion



**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]

<b>Unique Application Number:</b> MPCB-HW_ANNUAL_RETURN-0000020425	<b>Submitted On:</b> 17-06-2021	
<b>Submitted for Year:</b> April 2020 to March 2021		
<b>1. Name of the generator/operator of facility</b> Galaxy Surfactants Ltd.	<b>Address of the unit/facility</b> Galaxy Surfactants Ltd., Plot No. V-23, MIDC Taloja and Plot No. 1, Village Chal, Tal. Panvel, Dist.Raigad PIN no:- 410208	
<b>1b. Authorization Number</b>  Format1.0/CAC/UAN No. 0000085185/CR-2007000092 Date : 01.07.2020	<b>Date of issue</b> Jul 1, 2020	<b>Date of validity of consent</b> Feb 28, 2022
<b>2. Name of the authorised person</b> Avinash Shinde	<b>Full address of authorised person</b> Plot No. V-23, MIDC Taloja and Plot No. 1, Village Chal, Tal. Panvel, Dist.Raigad PIN no:- 410208	
<b>Telephone</b> 02239215300	<b>Fax</b> 02227411702	<b>Email</b> 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 Sulphate etc.	85680.0000	62565	MT/A
Chemical ,Petrochemical &Electrochemical	Ethylene Oxide Condensate	60000.0000	36745	MT/A
Chemical ,Petrochemical &Electrochemical	Cationic Surfactants (on 100% AM basis) such as Betaine, Quaternary Ammonium Salts etc.	18240.0000	5854	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	1077	MT/A
Chemical ,Petrochemical &Electrochemical	Fatty Acid Esters, Fatty alkanol amides and esterquats.	20400.0000	6270	MT/A
Chemical ,Petrochemical &Electrochemical	Concentrated Sulphuric Acid (By Product)	1584.0000	634.52	MT/A
Chemical ,Petrochemical &Electrochemical	Sodium Sulphate 20-25 % solution ,Solids 37.5 MT/ M (By Product)	2160.0000	351.275	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	0.71	MTA



5.1 Used or spent oil	Used or Spent oil	6.000	5.56	MTA
5.2 Wastes or residues containing oil	Wastes or Residues containing oil	1.000	0.83	MTA
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	Empty barrels/containers/liners contaminated with hazardous chemicals/wastes	24.000	16.78	MTA
33.2 Contaminated cotton rags or other cleaning materials	Contaminated cotton rags or other cleaning materials	1.000	00	MTA
37.2 Ash from incinerator and flue gas cleaning residue	Flue gas cleaning residue*	98.400	77.97	MTA
35.3 Chemical sludge from waste water treatment	Chemical Sludge from waste water treatment	108.000	64.37	MTA
37.3 Concentration or evaporation residues	MEE Solid Waste	180.000	91.05	MTA

2. Quantity dispatched category wise.

Type of Waste	Quantity of waste	UOM	Dispatched to	Facility Name
1.6 Spent catalyst and molecular sieves	0.71	MTA	Disposal Facility	Mumbai waste management Ltd
5.1 Used or spent oil	5.56	MTA	Disposal Facility	Mumbai waste management Ltd
5.2 Wastes or residues containing oil	0.83	MTA	Disposal Facility	Mumbai waste management Ltd
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	16.78	MTA	Disposal Facility	Mumbai waste management Ltd
33.2 Contaminated cotton rags or other cleaning materials	00	MTA	Disposal Facility	Mumbai waste management Ltd
37.2 Ash from incinerator and flue gas cleaning residue	77.97	MTA	Disposal Facility	Mumbai waste management Ltd
35.3 Chemical sludge from waste water treatment	64.37	MTA	Disposal Facility	Mumbai waste management Ltd
37.3 Concentration or evaporation residues	91.05	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	0	KL/Anum

4. Quantity in storage at the end of the year

Type of Waste	Name of Waste	Quantity of Waste	UOM
	NA	0	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		
Direct landfilling	UOM	
NA	KL/Anum	

<b>Landfill after treatment</b>	<b>UOM</b>
NA	KL/Anum
<b>5. Quantity incinerated (if applicable)</b>	<b>UOM</b>
NA	KL/Anum
<b>6. Quantiry processed other than specified above</b>	<b>UOM</b>
NA	KL/Anum
<b>7. Quantity in storage at the end of the year.</b>	<b>UOM</b>
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

Personal Details

Place	Date	Designation
Taloja	2021-06-17	Sr. Manager-SHE/Instrumentaion process