



Global Supplier to Global Brands

# Galaxy Surfactants Ltd.

22.01.2024

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.: SEIAA-EC-0000000268 dated 04.05.2018

Please find attached half yearly compliance report from July 2023 to December 2023, in compliance of Condition of our Environment Clearance letter dated 04.05.2018.

Kindly acknowledge receipt of this letter with its enclosure.

Thanking you,  
Cordially yours,

For Galaxy Surfactants Limited

*Rajesh Khatavkar*

Rajesh Khatavkar

Sr. Manager – Conversion Process

Encl: As above

- CC : 1. Maharashtra Pollution Control Board  
Sub Regional Office Tarapur-I, MIDC office compound  
Tarapur, Post : TAPS, Boisar (W), Tal.Dist. Palghar 401504
2. Ministry of Environment and Forest, Climate Change  
Regional Office (WCZ), Ground Floor,  
East Wing, New Secretariat Building, Civil Line, Nagpur-440001  
through email id: ecompliance-mh@gov.in
3. Central Pollution Control Board  
Parivesh Bhavan, Opp. VMC Ward Office No.10, Subhanpura  
Vadodara – 390023, Gujarat

Factory Address: Plot No.G-59,  
Tarapur MIDC, Taluka Palghar,  
Post, Boisar-401 506  
Maharashtra

**Regd. Office :**

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

CIN L39877MH1986PLC039877

Email id galaxy@galaxysurfactants.com

AGW  
29/01/24  
SUB REGIONAL OFFICE  
M. P. C. BOARD  
D.C. COLONY COMPOUND  
TARAPUR 401 504.  
TAL & DIST.- PALGHAR

**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.G-59, Tarapur MIDC, Taluka Palghar

**Reference:** Environment clearance vide letter no. SEIAA-EC-0000000268 dated 04.05.2018.

**Products** :

<b>Sr. No.</b>	<b>Name of the product</b>	<b>Production QTY. (MT/Month)</b>
1	Fatty Alcohol Sulphate/Sulfosuccinate (powder/needles)- on 100% basis	100
2	Fatty Alcohol Sulphate(Colour Needles)- on 100% basis	200
3	Fatty Alcohol Sulphate (Liquid)- on 100% basis	48
4	Active preparations including anionic, cationic, amphoteric, non ionic surfactants such as fatty alcohol sulphates/Quaternary ammonium compounds/alkanol amides/Glycinates/Amineoxides/betaines/Quaternary ammonium compounds and surfactant blends	2083
5	Speciality chemicals such as polymeric conditioners, polyquats, preservatives, fatty acid esters	416
6	Sunscreens	625
7	Rec-Acetic Acid (on 100% basis)	70
8	Rec. Methanol	15
9	HCl Solution (Approx.30%)	175
10	Sodium bisulfite solution/Sodium bisulfate/Sodium sulphite (Approx 30%)	250
11	Sodium Chloride (on 100% basis)	25

**Status of compliance of the Conditions stipulated in our Environment Clearance dated 04.05.2018.**

<b>Sr.No.</b>	<b>Conditions</b>	<b>Compliance Status</b>
I	The Environment Clearance is issued subject to condition that PP to achieve Zero Liquid Discharge; PP shall ensure that there is no increase in the effluent load to CETP.	1 No trade effluent discharge in respect of existing production. 2. We will abide by the above referred EC condition.
II	No additional land shall be used / acquired for any activity of the project without obtaining proper permission.	No additional land acquired.
III	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.	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 is being carried out on regular basis and the records are maintained as per Factories Act. Half yearly Health checkup completed in the month of August 2023. Next Health checkup is due in February 2024
IV	Proper Housekeeping programmers shall be implemented.	We are maintaining proper housekeeping within premises.
V	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.
VI	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollution from DG Set (If applicable).	Existing :- Complied Expansion:- Complied
VII	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.	We have procured necessary material for starting Rainwater harvesting system and will be completed by 31 <sup>st</sup> Mar. 2024
VIII	Arrangement shall be made that effluent and storm water does not get mixed.	Separate arrangements are made for effluent and storm water.
IX	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.	The project is a Zero Liquid Discharge (ZLD) Unit. Entire effluent is reused by recycling through ETP with Primary, Secondary & Tertiary treatment with RO & MEE & ATFD. We will not use ground water in our process.

		<p>We have obtained membership of Mumbai Waste Management Limited (MWML)</p> <p>We maintain the record for hazardous waste generation &amp; disposal in Form 3 and submit the Annual return in Form 4 to MPCB.</p>
XVII	Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.	On-site emergency management plan prepared. Regular mock drills are carried out.
XVIII	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Environment management cell is set up.
XIX	Separate funds shall be allocated for implementation of environmental protection measures / EMP along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year wise expenditure should reported to the MPCB and this department.	<p>We have budgeted separate funds for environment protection measures.</p> <p>We have utilized Rs.10,97,43,579/- towards procurement of all the ETP and scrubber system as on 31.12.2023.</p>
XX	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.
XXI	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.	Half yearly Reports are submitted.
XXII	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.	<p>Noted and will be complied whenever suggestions are received.</p> <p>EC copy published on website of the Company.</p>
XXIII	The proponent shall upload the status of compliance of the stipulated EC conditions,	Status of compliance of the stipulated EC conditions, including results of

X	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. The operating personnel use protective equipment like earmuff and earplug.
XI	The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules 1989.	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.
XII	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.	Total 400 numbers of trees and shrubs are planted around the plant periphery. 120 Tree plants have been planted in the month of Aug, Sept,2023. Total 520 numbers of trees and shrubs are planted in the plant areas now. Additional plantation will be done between June and July, 2024 and will be maintained in future and we will keep you updated about the same through subsequent reports.
XIII	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.
XIV	Occupational health surveillance of the workers shall be done on a regular basis and record 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. Half yearly Health checkup completed in the month August 2023. Next Health checkup is due in February 2024.
XV	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. Jumpers and sprinklers installed.-Complied.
XVI	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous waste 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 Waste in accordance with the rules. MPCB has authorized us for disposal of Hazardous Waste to authorized vendors.

	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.	monitored data is being uploaded on our website on regular basis.  The Criteria Pollutant Levels are displayed on the main gate of the Company.  Please refer enclosed Annexure A for latest Stack Emission reports.
XXIV	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC Conditions including results of monitored data (both in hard copies as well as by email) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Half yearly Reports are submitted.
XXV	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.	Environment statement for the year 2022-2023 submitted online with the MPCB website on 26.9.2023.  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.

For Galaxy Surfactants Limited

Rajesh Khatavkar

Sr. Manager – Conversion Process

**SIX MONTHLY COMPLIANCE REPORT**  
**PART I: DATA SHEET**  
**(Period: July 2023– December 2023)**

**Project** : Galaxy Surfactants Ltd., Project of Manufacturing of Surfactants and Specialty Chemicals at Plot No.G-59, Tarapur MIDC, Taluka Palghar

**Reference:** Environment clearance vide letter no.SEIAA-EC-0000000268 dated 04.05.2018.

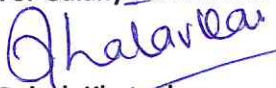
Sr.No.	Particulars	Reply/Compliance
1	Project Type: River-valley/Mining/Industry/Thermal/Nuclear/other (specify)	Industry
2	Name of the project	Expansion project
3	Clearance Letter(S)/OM No. and date	Environment clearance vide letter no.SEIAA-EC-0000000268 dated 04.05.2018
4	Location	
	a. District(s)	Palghar
	b. State(s)	Maharashtra
	c. Latitude/Longitude	Latitude 19.7913 & Longitude 72.7363
5	Address for correspondence	
	a. Address of the Concerned Project Chief Engineer (With Pin Code & Telephone/Telex/Fax Numbers)	Shri Vardhan Nuwal Plot No.V-23, MIDC & Plot No.1, CIDCO, Taloja MIDC Area, Tal. Panvel, Dist. Raigad, Maharashtra 410208. M.No.7700915445 Office Tel.No.91-22-39215300
6	Salient Features	
	a. of the project	Expansion for new products
	b. of the environmental management plans	ZLD ETP with Primary, Secondary & Tertiary treatment with RO & MEE & ATFD
7	Breakup of the project area	
	a. Other	1. Amenity Block - 388.22 SQ.M. 2. Dock Leveler - 24.62 SQ.M. 3. Drum Shed - 162.45 SQ.M. 4. Drum Yard & Scrap Yard - 100.0 SQ.M. 5. ETP - 1109.01 SQ.M. 6. FO Tank - 47.50 SQ.M. 7. Plant Building - 5842.46 SQ.M. 8. Pump Room - 66.31 SQ.M. 9. Unloading Shed - 163.16 SQ.M. 10. Utility Building - 716.78 SQ.M.

		Total Proposed Area – 8620.51 SQ.M.
8	Breakup of the project affected population with enumeration of those losing houses/dwelling units only agricultural land only Both dwelling units & agricultural land and landless labourers/artisans. a. SC, ST / Adivasis b. Others	N.A. as expansion is within the MIDC allotted plot.
9	Financial Details	
	a. Project cost as originally planned and subsequent revised estimates and the year of price reference	Rs.97.69 Crores
	b. Allocation made for environmental management plans with item wise and year wise break up.	Company has spent Rs.10,97,43,579/- towards procurement & installation of all the ETP, MEE+ATFD, RO, Sludge Dryer, Chimney, and scrubber system as on 31.12.2023. (ETP asset capitalized + phase 2 ETP CWIP)
	c. Benefit cost ratio / Internal Rate of Return and the year of assessment	New Project
	d. Whether c. includes the cost of environmental management as shown in the above	New Project
	b) Actual expenditure incurred on the project so far	Rs 91.08 Crores as on 31.12.2023. (Phase 1 Capitalization + CWIP as on as on 31 <sup>st</sup> December 2023)
	c) Actual expenditure incurred on the environmental management plans so far	Rs.10,97,43,579/- as on 31.12.2023
10	Forest land requirement	
	a. The status of approval for diversion of forest land for non-forestry use	N.A.
	b. The status of clearing felling	N.A.
	c. The status of compensatory afforestation, if any	N.A.
11	The status of clear felling in non-forest areas (such as submergence area or reservoir, approach roads), if any with quantitative information required.	N.A.
12	Status of construction (Actual &/or Planned)	
	a. Date of commencement (Actual &/or Planned)	15.01.2019
	b. Date of Completion (Actual &/or Planned)	31.03.2022
13	Reason for the delay if the project is yet to start	Project under construction
14	Date of site visits	



	a. The dates on which the project was monitored by the Regional Office on the previous occasions, if any.	Project was visited and monitored by the Field Officer, MPCB, Tarapur-I on 19.04.2022.
	b. Date of site visit for this monitoring report	N.A.
15	Details of correspondence with project authorities for obtaining action plans/information on status of compliance to safeguards other than the routine letters for logistic support for site visits).	-----

For Galaxy Surfactants Limited



Rajesh Khatavkar

Sr. Manager – Conversion Process



# ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015&ISO 45001:2018  
 Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024  
 Laboratory: P-1, MIDC Mohopada, Rasayani, Dist. Raigad, 410222, E-mail: [pglab@aespl.co.in](mailto:pglab@aespl.co.in)  
 Tel:9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



## Test Report (Ambient Air)

Ref. No.: AESPL/LAB/C/ A-23/11/98

Issue Date: 30/11/2023

<b>Name of Customer &amp; Contact Details</b>	: Galaxy Surfactants Limited. Mr. Anup Raut. ☎ 9970440101. ✉ <a href="mailto:Anup.Raut@galaxysurfactants.com">Anup.Raut@galaxysurfactants.com</a>				
<b>Name of Site</b>	: Plot No. G-59, MIDC Tarapur, Tal & Dist.- Palghar, Maharashtra.				
<b>Discipline &amp; Group</b>	: Chemical: Atmospheric Pollution				
<b>Description of Sample</b>	: Ambient Air				
<b>Location of Sampling</b>	: Near Utility Area in between ETP area				
<b>Date of Sampling</b>	: 20/11/2023 to 21/11/2023				
<b>Sampling Time</b>	: 09:30 to 09:30 hr.	<b>Duration</b>	: 24 Hr.		
<b>Sample Drawn By</b>	: AESPL	<b>Transported By</b>	: AESPL		
<b>Date of Sample Receipt</b>	: 24/11/2023	<b>Sample Identification</b>	: A-23/11/98		
<b>Sample Quantity &amp; Container</b>	: SO <sub>2</sub> :1 Bottle; NO <sub>2</sub> :1 Bottle; PM <sub>10</sub> -1; PM <sub>2.5</sub> -1; O <sub>3</sub> : 1 Bottle & NH <sub>3</sub> :1 Bottle; Bladder:1; Charcoal Tube:1				
<b>Date of Sample Analysis</b>	: 24/11/2023 to 30/11/2023				
<b>Sampling Environmental Conditions</b>	: Temperature:30-33°C; Rain fall: No; P <sub>bar</sub> : 755 mmHg.				
<b>Transportation Condition</b>	: Bottles < 5°C	: Filter papers in plastic container	: Bladder, charcoal tube at ambient temp.		
<b>Sampling Equipment</b>	: RDS-I-04 & FDS-I-04				
<b>Calibration Status</b>	: Calibration on 31/12/2022 due on 30/12/2023				
<b>Project/ Job number</b>	: AESPL/ Q/2023-24/GSL-Tarapur/29(Rev.01) Dtd: 12.08.23				
<b>Reference of Sampling</b>	: AESPL/LAB/QR/7.3.3/R-02				
<b>Method of Sampling &amp; Preservation</b>	: AESPL/LAB/SOP/7.3.1/A-01				
<b>Environmental Condition while Testing</b>	: Temperature: 29°C; RH-40%				
Sr. No.	Parameter	Result	Limits #	Unit	Method of Analysis
1.	Sulphur dioxide as SO <sub>2</sub>	31.57	80 *	µg/m <sup>3</sup>	IS 5182 (Part 2) RA2017
2.	Nitrogen dioxide as NO <sub>2</sub>	50.01	80 *	µg/m <sup>3</sup>	IS 5182 (Part 6) RA2022
3.	PM <sub>10</sub>	114.53	100 *	µg/m <sup>3</sup>	IS 5182 (Part 23) RA2022
4.	PM <sub>2.5</sub>	43.33	60 *	µg/m <sup>3</sup>	IS 5182 (Part 24) 2019
5.	Carbon monoxide as CO	0.85	04 **	mg/m <sup>3</sup>	IS 5182 (part 10) RA2019
6.	Ozone as O <sub>3</sub>	17.29	180 **	µg/m <sup>3</sup>	IS 5182 (part 9) RA2019
7.	Ammonia as NH <sub>3</sub>	37.57	400 *	µg/m <sup>3</sup>	IS 5182 (part 25) RA 2018
8.	Benzo(a)pyrene as BaP	< 0.5	01 ***	ng/m <sup>3</sup>	IS 5182 (part 12) 2004
9.	Lead as Pb	< 0.5	1.0 *	µg/m <sup>3</sup>	APHA Air method 822-3 <sup>rd</sup> Ed
10.	Nickel as Ni	< 5.0	20 ***	ng/m <sup>3</sup>	APHA Air method 822-3 <sup>rd</sup> Ed
11.	Arsenic as As	< 5.0	06 ***	ng/m <sup>3</sup>	APHA Air method 302-3 <sup>rd</sup> Ed
12.	Benzene as C <sub>6</sub> H <sub>6</sub>	< 0.2	05 ***	µg/m <sup>3</sup>	IS 5182 (part 11) RA2022

[ #] Specified under National Ambient Air Quality Standards by CPCB:

[\*] 24 hourly monitoring values; [\*\*] 1 hourly monitoring values; [\*\*\*] Annual monitoring values.

**Conformity Statement:** The monitoring undertaken indicates that Ambient Air Quality Values for monitored parameters are except PM<sub>10</sub> within the levels stipulated under National Ambient Air Quality Standards 2009.

**Note:**

1. The test report shall not be reproduced except in full, without written approval of laboratory.
2. Results relate only to the items tested.

Any query related to this report will be entertained within 15 days of the report issue date only.

Decision Rule is applied.

  
 Anjan Pramanik  
 (Authorized Signatory)

-End of Test Report-



# ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015&ISO 45001:2018

Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024

Laboratory: P-1, MIDC Mohopada, Rasayani, Dist. Raigad, 410222, E-mail: [pglab@aespl.co.in](mailto:pglab@aespl.co.in)

Tel:9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

## Test Report (Ambient Air)

Ref. No.: AESPL/LAB/C/ A-23/11/99

Issue Date: 30/11/2023

Name of Customer & Contact Details	Galaxy Surfactants Limited. Mr. Anup Raut. ☎ 9970440101. ✉ <a href="mailto:Anup.Raut@galaxysurfactants.com">Anup.Raut@galaxysurfactants.com</a>		
Name of Site	Plot No. G-59, MIDC Tarapur, Tal & Dist.- Palghar, Maharashtra.		
Discipline & Group	Chemical: Atmospheric Pollution		
Description of Sample	Ambient Air		
Location of Sampling	Near Nebula Security Gate		
Date of Sampling	20/11/2023 to 21/11/2023		
Sampling Time	09:45 to 09:45 hr.	Duration	24 Hr.
Sample Drawn By	AESPL	Transported By	AESPL
Date of Sample Receipt	24/11/2023	Sample Identification	A-23/11/99
Sample Quantity & Container	SO <sub>2</sub> :1 Bottle; NO <sub>2</sub> :1 Bottle; PM <sub>10</sub> -1; PM <sub>2.5</sub> -1; O <sub>3</sub> : 1 Bottle & NH <sub>3</sub> :1 Bottle; Bladder:1; Charcoal Tube:1		
Date of Sample Analysis	24/11/2023 to 30/11/2023		
Sampling Environmental Conditions	Temperature:30-33°C; Rain fall: No; P <sub>bar</sub> : 755 mmHg.		
Transportation Condition	Bottles < 5°C	Filter papers in plastic container	Bladder, charcoal tube at ambient temp.
Sampling Equipment	RDS-I-05 & FDS-I-05		
Calibration Status	Calibration on 31/12/2022 due on 30/12/2023		
Project/ Job number	AESPL/ Q/2023-24/GSL-Tarapur/29(Rev.01) Dtd: 12.08.23		
Reference of Sampling	AESPL/LAB/QR/7.3.3/R-02		
Method of Sampling & Preservation	AESPL/LAB/SOP/7.3.1/A-01		
Environmental Condition while Testing	Temperature: 29°C; RH-40%		

Sr. No.	Parameter	Result	Limits #	Unit	Method of Analysis
1.	Sulphur dioxide as SO <sub>2</sub>	37.49	80 *	µg/m <sup>3</sup>	IS 5182 (Part 2) RA2017
2.	Nitrogen dioxide as NO <sub>2</sub>	54.61	80 *	µg/m <sup>3</sup>	IS 5182 (Part 6) RA2022
3.	PM <sub>10</sub>	128.48	100 *	µg/m <sup>3</sup>	IS 5182 (Part 23) RA2022
4.	PM <sub>2.5</sub>	46.67	60 *	µg/m <sup>3</sup>	IS 5182 (Part 24) 2019
5.	Carbon monoxide as CO	0.87	04 **	mg/m <sup>3</sup>	IS 5182 (part 10) RA2019
6.	Ozone as O <sub>3</sub>	19.25	180 **	µg/m <sup>3</sup>	IS 5182 (part 9) RA2019
7.	Ammonia as NH <sub>3</sub>	43.15	400 *	µg/m <sup>3</sup>	IS 5182 (part 25) RA 2018
8.	Benzo(a)pyrene as BaP	< 0.5	01 ***	ng/m <sup>3</sup>	IS 5182 (part 12) 2004
9.	Lead as Pb	< 0.5	1.0 *	µg/m <sup>3</sup>	APHA Air method 822-3 <sup>rd</sup> Ed
10.	Nickel as Ni	< 5.0	20 ***	ng/m <sup>3</sup>	APHA Air method 822-3 <sup>rd</sup> Ed
11.	Arsenic as As	< 5.0	06 ***	ng/m <sup>3</sup>	APHA Air method 302-3 <sup>rd</sup> Ed
12.	Benzene as C <sub>6</sub> H <sub>6</sub>	< 0.2	05 ***	µg/m <sup>3</sup>	IS 5182 (part 11) RA2022

[ #] Specified under National Ambient Air Quality Standards by CPCB:

[ \*] 24 hourly monitoring values; [ \*\*] 1 hourly monitoring values; [ \*\*\*] Annual monitoring values.

**Conformity Statement:** The monitoring undertaken indicates that Ambient Air Quality Values for monitored parameters are except PM<sub>10</sub> within the levels stipulated under National Ambient Air Quality Standards 2009.

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  - Results relate only to the items tested.
  - Any query related to this report will be entertained within 15 days of the report issue date only.
- Decision Rule is applied.

  
Anjan D. Patil  
(Authorized Signatory)

-End of Test Report-



# ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015&ISO 45001:2018

Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024

Laboratory: P-1, MIDC Mohopada, Rasayani, Dist. Raigad, 410222, E-mail: [pplab@aespl.co.in](mailto:pplab@aespl.co.in)

Tel:9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

## Test Report (Ambient Air)

Ref. No.: AESPL/LAB/C/ A-23/11/100

Issue Date: 30/11/2023

<b>Name of Customer &amp; Contact Details</b>	: Galaxy Surfactants Limited. Mr. Anup Raut. ☎ 9970440101. ✉ <a href="mailto:Anup.Raut@galaxysurfactants.com">Anup.Raut@galaxysurfactants.com</a>				
<b>Name of Site</b>	: Plot No. G-59, MIDC Tarapur, Tal & Dist.- Palghar, Maharashtra.				
<b>Discipline &amp; Group</b>	: Chemical: Atmospheric Pollution				
<b>Description of Sample</b>	: Ambient Air				
<b>Location of Sampling</b>	: Near Main Gate				
<b>Date of Sampling</b>	: 20/11/2023 to 21/11/2023				
<b>Sampling Time</b>	: 10:00 to 10:00 hr.	<b>Duration</b>	: 24 Hr.		
<b>Sample Drawn By</b>	: AESPL	<b>Transported By</b>	: AESPL		
<b>Date of Sample Receipt</b>	: 24/11/2023	<b>Sample Identification</b>	: A-23/11/100		
<b>Sample Quantity &amp; Container</b>	: SO <sub>2</sub> :1 Bottle; NO <sub>2</sub> :1 Bottle; PM <sub>10</sub> -1; PM <sub>2.5</sub> -1; O <sub>3</sub> : 1 Bottle & NH <sub>3</sub> :1 Bottle; Bladder:1; Charcoal Tube:1				
<b>Date of Sample Analysis</b>	: 24/11/2023 to 30/11/2023				
<b>Sampling Environmental Conditions</b>	: Temperature:30-33°C; Rain fall: No; P <sub>bar</sub> : 755 mmHg.				
<b>Transportation Condition</b>	: Bottles < 5°C	: Filter papers in plastic container	: Bladder, charcoal tube at ambient temp.		
<b>Sampling Equipment</b>	: RDS-I-06 & FDS-I-06				
<b>Calibration Status</b>	: Calibration on 31/12/2022 due on 30/12/2023				
<b>Project/ Job number</b>	: AESPL/ Q/2023-24/GSL-Tarapur/29(Rev.01) Dtd: 12.08.23				
<b>Reference of Sampling</b>	: AESPL/LAB/QR/7.3.3/R-02				
<b>Method of Sampling &amp; Preservation</b>	: AESPL/LAB/SOP/7.3.1/A-01				
<b>Environmental Condition while Testing</b>	: Temperature: 29°C; RH-40%				
Sr. No.	Parameter	Result	Limits #	Unit	Method of Analysis
1.	Sulphur dioxide as SO <sub>2</sub>	28.61	80 *	µg/m <sup>3</sup>	IS 5182 (Part 2) RA2017
2.	Nitrogen dioxide as NO <sub>2</sub>	42.54	80 *	µg/m <sup>3</sup>	IS 5182 (Part 6) RA2022
3.	PM <sub>10</sub>	120.50	100 *	µg/m <sup>3</sup>	IS 5182 (Part 23) RA2022
4.	PM <sub>2.5</sub>	38.33	60 *	µg/m <sup>3</sup>	IS 5182 (Part 24) 2019
5.	Carbon monoxide as CO	0.90	04 **	mg/m <sup>3</sup>	IS 5182 (part 10) RA2019
6.	Ozone as O <sub>3</sub>	14.23	180 **	µg/m <sup>3</sup>	IS 5182 (part 9) RA2019
7.	Ammonia as NH <sub>3</sub>	32.74	400 *	µg/m <sup>3</sup>	IS 5182 (part 25) RA 2018
8.	Benzo(a)pyrene as BaP	< 0.5	01 ***	ng/m <sup>3</sup>	IS 5182 (part 12) 2004
9.	Lead as Pb	< 0.5	1.0 *	µg/m <sup>3</sup>	APHA Air method 822-3 <sup>rd</sup> Ed
10.	Nickel as Ni	< 5.0	20 ***	ng/m <sup>3</sup>	APHA Air method 822-3 <sup>rd</sup> Ed
11.	Arsenic as As	< 5.0	06 ***	ng/m <sup>3</sup>	APHA Air method 302-3 <sup>rd</sup> Ed
12.	Benzene as C <sub>6</sub> H <sub>6</sub>	< 0.2	05 ***	µg/m <sup>3</sup>	IS 5182 (part 11) RA2022

[ #] Specified under National Ambient Air Quality Standards by CPCB:

[\*] 24 hourly monitoring values; [\*\*] 1 hourly monitoring values; [\*\*\*] Annual monitoring values.

**Conformity Statement:** The monitoring undertaken indicates that Ambient Air Quality Values for monitored parameters are within the levels stipulated under National Ambient Air Quality Standards 2009.

### Note:

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2. Results relate only to the items tested.
3. Any query related to this report will be entertained within 15 days of the report issue date only.
4. Decision Rule is applied.



Anup Raut

(Authorized Signatory)

-End of Test Report-



# ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015&ISO 45001:2018

Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024

Laboratory: P-1, MIDC Mohopada, Rasayani, Dist. Raigad, 410222, E-mail: [pglab@aespl.co.in](mailto:pglab@aespl.co.in)

Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-00-29787

## Test Report (Workplace)

Ref. No.: AESPL/LAB/C/WP-23/11/61

Issue Date: 04/12/2023

<b>Name of Customer &amp; Contact Details</b>	Galaxy Surfactants Limited Mr. Anup Raut -9970440101, Email: <a href="mailto:Anup.Raut@galaxysurfactants.com">Anup.Raut@galaxysurfactants.com</a>		
<b>Name of Site</b>	Plot No. G-59, MIDC Tarapur, Tal & Dist.- Palghar, Maharashtra.		
<b>Description of Sample</b>	Workplace		
<b>Location of Sampling</b>	Nebula Plant, 2nd Floor		
<b>Date of Sampling</b>	20/11/2023		
<b>Sampling Time</b>	12:30 to 1:00 hr.	<b>Duration</b>	30 min.
<b>Sample Drawn By</b>	AESPL	<b>Transported By</b>	AESPL
<b>Date of Sample Receipt</b>	29/11/2023	<b>Sample</b>	A-23/11/61
<b>Sample Quantity &amp; Container</b>	SO <sub>2</sub> :1 Bottle x 30 ml; NO <sub>x</sub> :1 Bottle x 30 ml; SPM paper:1. Charcoal Tube:1		
<b>Date of Sample Analysis</b>	29/11/2023 to 02/12/2023		
<b>Sampling Environmental Conditions</b>	Temperature:28-38°C; Rain fall: No; P <sub>bar</sub> : 754 mmHg.		
<b>Transportation Condition</b>	Bottles < 5°C	Filter papers in plastic container	Charcoal tube at ambient temp.
<b>Sampling Equipment</b>	1.RDS-I-07		
<b>Calibration Status</b>	1.Calibrated on 31/12/2022 Due on 30/12/2023		
<b>Project/ Job number</b>	AESPL/ Q/2023-24/GSL-Tarapur/29(Rev.01) dtd 12.05.2023		
<b>Reference of Sampling</b>	AESPL/LAB/QR/7.3.3/R-02		
<b>Method of Sampling &amp; Preservation</b>	AESPL/LAB/SOP/7.3.1/WP-01		
<b>Environmental Condition while Testing</b>	Ambient Temperature: 25.1°C and Humidity: 58%		

### Pollution Parameters

Parameter	Result	Limits As per OSHA (PEL)	Method of sampling & analysis
VOC, ppm	< 1.0	25 ppm	USEPA TO-17
Sulphur dioxide, mg/m <sup>3</sup>	0.020	13 mg/m <sup>3</sup>	IS 5182 (Part 2) 2001
Oxides of Nitrogen, mg/m <sup>3</sup>	0.025	9 mg/m <sup>3</sup>	IS 5182 (Part 6) 2006
Particulate Matter, mg/m <sup>3</sup>	0.306	15 mg/m <sup>3</sup>	IS 5182 (Part 23) 2006

PEL-Permissible Exposure Limit.

**Conformity Statement:** The monitoring undertaken indicates that Workplace Air Quality Values for monitored parameters are within the levels stipulated under OSHA (PEL).

**Note:**

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2. Results relate only to the items tested.
3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.



**Reshma S. Patil.**  
(Authorized Signatory)

-End of Test Report-



# ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

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Laboratory: P-1, MIDC Mohopada, Rasayani, Dist. Raigad, 410222, E-mail: pglab@aespl.co.in

Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-00-29787

## Test Report (Workplace)

Ref. No.: AESPL/LAB/C/WP-23/11/62

Issue Date: 04/12/2023

<b>Name of Customer &amp; Contact Details</b>	: Galaxy Surfactants Limited Mr. Anup Raut -9970440101, Email: <a href="mailto:Anup.Raut@galaxysurfactants.com">Anup.Raut@galaxysurfactants.com</a>		
<b>Name of Site</b>	: Plot No. G-59, MIDC Tarapur, Tal & Dist.- Palghar, Maharashtra.		
<b>Description of Sample</b>	: Workplace		
<b>Location of Sampling</b>	: Powder Packing room, SDP plant		
<b>Date of Sampling</b>	: 20/11/2023		
<b>Sampling Time</b>	: 11:10 to 11:40 hr.	<b>Duration</b>	: 30 min.
<b>Sample Drawn By</b>	: AESPL	<b>Transported By</b>	: AESPL
<b>Date of Sample Receipt</b>	: 29/11/2023	<b>Sample</b>	: A-23/11/62
<b>Sample Quantity &amp; Container</b>	: SO <sub>2</sub> :1 Bottle x 30 ml; NO <sub>x</sub> :1 Bottle x 30 ml; SPM paper:1. Charcoal Tube:1		
<b>Date of Sample Analysis</b>	: 29/11/2023 to 02/12/2023		
<b>Sampling Environmental Conditions</b>	: Temperature:28-38°C; Rain fall: No; P <sub>bar</sub> : 754 mmHg.		
<b>Transportation Condition</b>	: Bottles < 5°C	Filter papers in plastic container	Charcoal tube at ambient temp.
<b>Sampling Equipment</b>	: 1.RDS-I-07		
<b>Calibration Status</b>	: 1.Calibrated on 31/12/2022 Due on 30/12/2023		
<b>Project/ Job number</b>	: AESPL/ Q/2023-24/GSL-Tarapur/29(Rev.01) dtd 12.05.2023		
<b>Reference of Sampling</b>	: AESPL/LAB/QR/7.3.3/R-02		
<b>Method of Sampling &amp; Preservation</b>	: AESPL/LAB/SOP/7.3.1/WP-01		
<b>Environmental Condition while Testing</b>	: Ambient Temperature: 25.1°C and Humidity: 58%		
Pollution Parameters			
Parameter	Result	Limits As per OSHA (PEL)	Method of sampling & analysis
VOC, ppm	< 1.0	25 ppm	USEPA TO-17
Sulphur dioxide, mg/m <sup>3</sup>	0.016	13 mg/m <sup>3</sup>	IS 5182 (Part 2) 2001
Oxides of Nitrogen, mg/m <sup>3</sup>	0.024	9 mg/m <sup>3</sup>	IS 5182 (Part 6) 2006
Particulate Matter, mg/m <sup>3</sup>	0.314	15 mg/m <sup>3</sup>	IS 5182 (Part 23) 2006

PEL-Permissible Exposure Limit.

**Conformity Statement:** The monitoring undertaken indicates that Workplace Air Quality Values for monitored parameters are within the levels stipulated under OSHA (PEL).

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Reshma S. Patil.

(Authorized Signatory)

-End of Test Report-



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Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

## Test Report (Stack Emission)

Ref. No.: AESPL/LAB/C/ ST- 23/11/65

Issue Date: 05/12/2023

Name of Customer & Contact Details	:	Galaxy Surfactants Limited. Mr. Anup Raut. ☎ 9970440101. ✉ Anup.Raut@galaxysurfactants.com		
Name of Site	:	Plot No. G-59, MIDC Tarapur, Tal & Dist.- Palghar, Maharashtra.		
Discipline & Group	:	Chemical: Atmospheric Pollution		
Description of sample	:	Stack Emission		
Sample Identification number	:	ST- 23/11/65		
Sample Quantity	:	SO <sub>2</sub> :1Bottle; NO <sub>2</sub> :1 Bottle; Thimble-1.		
Date & Time of sampling	:	20/11/2023, 10:00-10:28 hr.		
Sampling Environmental Conditions	:	Temp.:31°C; Rain fall: No; P <sub>bar</sub> :753 mmHg.		
Transportation Condition	:	Bottles < 5°C	Thimbles in plastic container	Bladders at ambient temp.
Sample Monitored & Transported by	:	AESPL		
Date of sample receipt	:	29/11/2023		
Date of sample analysis	:	29/11/2023 to 02/12/2023		
Sampling Equipment Used	:	ST-I-02		
Calibration status	:	25/11/2023 to 25/11/2024		
Project/ Job number	:	AESPL/ Q/2023-24/GSL-Tarapur/29(Rev.01) Date: 12.05.2023		
Reference of sampling	:	AESPL/LAB/QR/7.3.3/R-02		
Method of sampling & preservation	:	AESPL/LAB/SOP/7.3.1/ST-01		
Environmental Condition while Testing	:	Temperature: 27°C; RH-40%		
<b>A. General Information About Stack:</b>				
Stack Connected to	:	Needle plant blower		
Emission due to	:	Process Activity		
Material of construction of stack	:	MS		
Shape of stack	:	Circular		
Whether stack is provided with permanent platform	:	Yes		
<b>B. Physical Characteristics of Stack:</b>				
Height of stack from ground level (m)	:	15		
Height of sampling point from ground level (m)	:	--		
Diameter of Stack at sampling point (m)	:	0.15		
Area of stack (m <sup>2</sup> )	:	0.0176		
<b>C. Analysis/ Characteristic of Stack:</b>				
Fuel used	:	No		
Fuel consumption (Liter/day.)	:	No		
Details of pollution control devices attached with the stack:	:	--		



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Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

## Test Report (Stack Emission)

Ref. No.: AESPL/LAB/C/ST-23/11/65

Issue Date: 05/12/2023

### D. Result of Sampling & Analysis of Gaseous Emission:

SL. No.	Parameter	Result	MPCB. Limits	Unit	Method of analysis
1.	Gas Temperature	36	--	°C	IS-11255, (part-1,3) 2018-19
2.	Gas velocity	8.25	--	m/s	IS-11255, (part-1,3) 2018-19
3.	Gas flow rate	492	--	Nm <sup>3</sup> /hr.	IS-11255, (part-1,3) 2018-19
4.	Particulate Matter	22.21	50	mg/Nm <sup>3</sup>	IS-11255, (part-1,3) 2018-19
5.	Sulphur Dioxide as SO <sub>2</sub>	<5.00	--	mg/Nm <sup>3</sup>	IS-11255, (part-2) 2019
6.	Oxide of Nitrogen NO <sub>x</sub> as NO <sub>2</sub>	<9.00	--	mg/Nm <sup>3</sup>	IS-11255, (part-7) 2017
7.	Oxygen as O <sub>2</sub>	20.40	--	%	IS 13270, 2019
8.	Carbon dioxide as CO <sub>2</sub>	<0.20	--	%	IS 13270, 2019

**Conformity Statement:** The monitoring undertaken indicates that Stack Air Quality Values for Monitoring parameter are within the levels stipulated as per MPCB Consent.

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3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
4. Decision Rule is applied.



Anjan Pramanik  
(Authorized Signatory)

-End of Test Report-





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Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

## Test Report (Stack Emission)

Ref. No.: AESPL/LAB/C/ ST- 23/11/66

Issue Date: 05/12/2023

<b>Name of Customer &amp; Contact Details</b>	: Galaxy Surfactants Limited. Mr. Anup Raut. ☎ 9970440101. ✉ Anup.Raut@galaxysurfactants.com		
<b>Name of Site</b>	: Plot No. G-59, MIDC Tarapur, Tal & Dist.- Palghar, Maharashtra.		
<b>Discipline &amp; Group</b>	: Chemical: Atmospheric Pollution		
<b>Description of sample</b>	: Stack Emission		
<b>Sample Identification number</b>	: ST- 23/11/66		
<b>Sample Quantity</b>	: SO <sub>2</sub> :1Bottle; NO <sub>2</sub> :1 Bottle; Thimble-1.		
<b>Date &amp; Time of sampling</b>	: 20/11/2023, 11:10-11:28 hr.		
<b>Sampling Environmental Conditions</b>	: Temp.:31°C; Rain fall: No; P <sub>bar</sub> :753 mmHg.		
<b>Transportation Condition</b>	: Bottles < 5°C	: Thimbles in plastic container	: Bladders at ambient temp.
<b>Sample Monitored &amp; Transported by</b>	: AESPL		
<b>Date of sample receipt</b>	: 29/11/2023		
<b>Date of sample analysis</b>	: 29/11/2023 to 02/12/2023		
<b>Sampling Equipment Used</b>	: ST-I-01		
<b>Calibration status</b>	: 14/01/2023 to 14/01/2024		
<b>Project/ Job number</b>	: AESPL/ Q/2023-24/GSL-Tarapur/29(Rev.01) Date: 12.05.2023		
<b>Reference of sampling</b>	: AESPL/LAB/QR/7.3.3/R-02		
<b>Method of sampling &amp; preservation</b>	: AESPL/LAB/SOP/7.3.1/ST-01		
<b>Environmental Condition while Testing</b>	: Temperature: 29°C; RH-46.1%		
<b>A. General Information About Stack:</b>			
Stack Connected to	: S6, Spray dryer plant vent		
Emission due to	: Process Activity		
Material of construction of stack	: MS		
Shape of stack	: Circular		
Whether stack is provided with permanent platform	: Yes		
<b>B. Physical Characteristics of Stack:</b>			
Height of stack from ground level (m)	: 25		
Height of sampling point from ground level (m)	: --		
Diameter of Stack at sampling point (m)	: 0.52		
Area of stack (m <sup>2</sup> )	: 0.212		
<b>C. Analysis/ Characteristic of Stack:</b>			
Fuel used	: NA.		
Fuel consumption (Liter/day.)	: NA.		
Details of pollution control devices attached with the stack:	: Multi Cyclone		



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Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

## Test Report (Stack Emission)

Ref. No.: AESPL/LAB/C/ST- 23/11/66

Issue Date: 05/12/2023


### D. Result of Sampling & Analysis of Gaseous Emission:

SL. No.	Parameter	Result	MPCB. Limits	Unit	Method of analysis
1.	Gas Temperature	79	--	°C	IS-11255, (part- 1,3) 2018-19
2.	Gas velocity	13.90	--	m/s	IS-11255, (part- 1,3) 2018-19
3.	Gas flow rate	8768	--	Nm <sup>3</sup> /hr.	IS-11255, (part- 1,3) 2018-19
4.	Particulate Matter	40.99	50	mg/Nm <sup>3</sup>	IS-11255, (part- 1,3) 2018-19
5.	Sulphur Dioxide as SO <sub>2</sub>	<5.00	--	mg/Nm <sup>3</sup>	IS-11255, (part-2) 2019
6.	Oxide of Nitrogen NO <sub>x</sub> as NO <sub>2</sub>	25.17	--	mg/Nm <sup>3</sup>	IS-11255, (part-7) 2017
7.	Oxide of Nitrogen NO <sub>x</sub> as NO <sub>2</sub>	13.70	--	ppm	IS-11255, (part-7) 2017
8.	Oxygen as O <sub>2</sub>	20.00	--	%	IS 13270, 2019
9.	Carbon dioxide as CO <sub>2</sub>	<0.2	--	%	IS 13270, 2019

**Conformity Statement:** The monitoring undertaken indicates that Stack Air Quality Values for Monitoring parameter are within the levels stipulated as per MPCB Consent.

#### Note:

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4. Decision Rule is applied.

  
Anjan Pramanik  
(Authorized Signatory)

-End of Test Report-

**ADITYA ENVIRONMENTAL SERVICES PVT. LTD.**

Testing Laboratory is certified by ISO 9001:2015 &amp; ISO 45001:2018

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Laboratory: P-1, MIDC Mohopada, Rasayani, Dist. Raigad, 410222, E-mail: pglab@aespl.co.in

Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

**Test Report  
(Stack Emission)**

Ref. No.: AESPL/LAB/C/ ST- 23/12/67

Issue Date: 05/12/2023

<b>Name of Customer &amp; Contact Details</b>	:	Galaxy Surfactants Limited. Mr. Anup Raut. ☎ 9970440101. ✉ Anup.Raut@galaxysurfactants.com		
<b>Name of Site</b>	:	Plot No. G-59, MIDC Tarapur, Tal & Dist.- Palghar, Maharashtra.		
<b>Discipline &amp; Group</b>	:	Chemical: Atmospheric Pollution		
<b>Description of sample</b>	:	Stack Emission		
<b>Sample Identification number</b>	:	ST- 23/12/67		
<b>Sample Quantity</b>	:	SO <sub>2</sub> :1Bottle; NO <sub>2</sub> :1 Bottle; Thimble-1.		
<b>Date &amp; Time of sampling</b>	:	20/12/2023, 12:00-12:20 hr.		
<b>Sampling Environmental Conditions</b>	:	Temp.:31°C; Rain fall: No; P <sub>bar</sub> :753 mmHg.		
<b>Transportation Condition</b>	:	Bottles < 5°C	Thimbles in plastic container	Bladders at ambient temp.
<b>Sample Monitored &amp; Transported by</b>	:	AESPL		
<b>Date of sample receipt</b>	:	29/11/2023		
<b>Date of sample analysis</b>	:	29/11/2023 to 02/12/2023		
<b>Sampling Equipment Used</b>	:	ST-I-02		
<b>Calibration status</b>	:	25/12/2023 to 25/12/2024		
<b>Project/ Job number</b>	:	AESPL/ Q/2023-24/GSL-Tarapur/29(Rev.01) Date: 12.05.2023		
<b>Reference of sampling</b>	:	AESPL/LAB/QR/7.3.3/R-02		
<b>Method of sampling &amp; preservation</b>	:	AESPL/LAB/SOP/7.3.1/ST-01		
<b>Environmental Condition while Testing</b>	:	Temperature: 27°C; RH-40%		
<b>A. General Information About Stack:</b>				
Stack Connected to	:	S7, Packing Section dust Exhaust SDP		
Emission due to	:	Process Activity		
Material of construction of stack	:	MS		
Shape of stack	:	Circular		
Whether stack is provided with permanent platform	:	Yes		
<b>B. Physical Characteristics of Stack:</b>				
Height of stack from ground level (m)	:	15		
Height of sampling point from ground level (m)	:	--		
Diameter of Stack at sampling point (m)	:	0.15		
Area of stack (m <sup>2</sup> )	:	0.017		
<b>C. Analysis/ Characteristic of Stack:</b>				
Fuel used	:	NA.		
Fuel consumption (Liter/day.)	:	NA.		
Details of pollution control devices attached with the stack:	:	Fabric Bag Filter		



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Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

## Test Report (Stack Emission)

Ref. No.: AESPL/LAB/C/ST- 23/12/67

Issue Date: 05/12/2023

### D. Result of Sampling & Analysis of Gaseous Emission:

SL. No.	Parameter	Result	MPCB. Limits	Unit	Method of analysis
1.	Gas Temperature	34	--	°C	IS-11255, (part- 1,3) 2018-19
2.	Gas velocity	6.18	--	m/s	IS-11255, (part- 1,3) 2018-19
3.	Gas flow rate	371	--	Nm <sup>3</sup> /hr.	IS-11255, (part- 1,3) 2018-19
4.	Particulate Matter	25.15	50	mg/Nm <sup>3</sup>	IS-11255, (part- 1,3) 2018-19
5.	Sulphur Dioxide as SO <sub>2</sub>	<5.00	--	mg/Nm <sup>3</sup>	IS-11255, (part-2) 2019
6.	Oxide of Nitrogen NO <sub>x</sub> as NO <sub>2</sub>	<9.00	--	mg/Nm <sup>3</sup>	IS-11255, (part-7) 2017
7.	Oxygen as O <sub>2</sub>	19.80	--	%	IS 13270, 2019
8.	Carbon dioxide as CO <sub>2</sub>	<0.2	--	%	IS 13270, 2019

**Conformity Statement:** The monitoring undertaken indicates that Stack Air Quality Values for Monitoring parameter are within the levels stipulated as per MPCB Consent.

#### Note:

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3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
4. Decision Rule is applied.



Anjan Pramanik  
(Authorized Signatory)

-End of Test Report-



# ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by ISO 9001:2015 & ISO 45001:2018

Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024

Laboratory: P-1, MIDC Mohopada, Rasayani, Dist. Raigad, 410222, E-mail: [pglab@aespl.co.in](mailto:pglab@aespl.co.in)

Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

## Test Report (Stack Emission)

Ref. No.: AESPL/LAB/C/ ST- 23/11/68

Issue Date: 05/12/2023

Name of Customer & Contact Details	: Galaxy Surfactants Limited. Mr. Anup Raut. ☎ 9970440101. ✉ <a href="mailto:Anup.Raut@galaxysurfactants.com">Anup.Raut@galaxysurfactants.com</a>		
Name of Site	: Plot No. G-59, MIDC Tarapur, Tal & Dist.- Palghar, Maharashtra.		
Discipline & Group	: Chemical: Atmospheric Pollution		
Description of sample	: Stack Emission		
Sample Identification number	: ST- 23/11/68		
Sample Quantity	: SO <sub>2</sub> :1Bottle; NO <sub>x</sub> :1 Bottle; Bladder-1; Thimble-1.		
Date & Time of sampling	: 20/11/2023, 13:00-13:39 hr.		
Sampling Environmental Conditions	: Temp.:31°C; Rain fall: No; P <sub>bar</sub> :753 mmHg.		
Transportation Condition	: Bottles < 5°C	: Thimbles in plastic container	: Bladders at ambient temp.
Sample Monitored & Transported by	: AESPL		
Date of sample receipt	: 29/11/2023		
Date of sample analysis	: 29/11/2023 to 02/12/2023		
Sampling Equipment Used	: ST-I-02		
Calibration status	: 25/05/2023 to 25/05/2024		
Project/ Job number	: AESPL/ Q/2023-24/GSL-Tarapur/29(Rev.01) Date: 12.05.2023		
Reference of sampling	: AESPL/LAB/QR/7.3.3/R-02		
Method of sampling & preservation	: AESPL/LAB/SOP/7.3.1/ST-01		
Environmental Condition while Testing	: Temperature: 27°C; RH-40%		
<b>A. General Information About Stack:</b>			
Stack Connected to	: S-1, Thermic Fluid Heater		
Emission due to	: Combustion of NG		
Material of construction of stack	: MS		
Shape of stack	: Circular		
Whether stack is provided with permanent platform	: Yes		
<b>B. Physical Characteristics of Stack:</b>			
Height of stack from ground level (m)	: 25		
Height of sampling point from ground level (m)	: --		
Diameter of Stack at sampling point (m)	: 0.45		
Area of stack (m <sup>2</sup> )	: 0.1589		
<b>C. Analysis/ Characteristic of Stack:</b>			
Fuel used	: NG		
Fuel consumption (Liter/day.)	: --		
Details of pollution control devices attached with the stack:	: Stack		



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Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

## Test Report (Stack Emission)

Ref. No.: AESPL/LAB/C/ST- 23/11/68

Issue Date: 05/12/2023

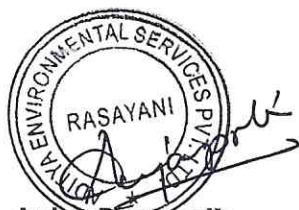
### D. Result of Sampling & Analysis of Gaseous Emission:

SL. No.	Parameter	Result	MPCB. Limits	Unit	Method of analysis
1.	Gas Temperature	131	--	°C	IS-11255, (part- 1,3) 2018-19
2.	Gas velocity	4.50	--	m/s	IS-11255, (part- 1,3) 2018-19
3.	Gas flow rate	1827	--	Nm <sup>3</sup> /hr.	IS-11255, (part- 1,3) 2018-19
4.	Particulate Matter	9.71	50	mg/Nm <sup>3</sup>	IS-11255, (part- 1,3) 2018-19
5.	Sulphur Dioxide as SO <sub>2</sub>	<5.0	--	mg/Nm <sup>3</sup>	IS-11255, (part-2) 2019
6.	Oxide of Nitrogen NO <sub>x</sub> as NO <sub>2</sub>	88.49	--	mg/Nm <sup>3</sup>	IS-11255, (part-7) 2017
7.	Oxide of Nitrogen NO <sub>x</sub> as NO <sub>2</sub>	47.04	50	ppm	IS-11255, (part-7) 2017
8.	Oxygen as O <sub>2</sub>	4.00	--	%	IS 13270, 2019
9.	Carbon dioxide as CO <sub>2</sub>	16.80	--	%	IS 13270, 2019

**Conformity Statement:** The monitoring undertaken indicates that Stack Air Quality Values for Monitoring parameter are within the levels stipulated as per MPCB Consent.

#### Note:

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4. Decision Rule is applied.



Anjan Pramanik  
(Authorized Signatory)

-End of Test Report-

**ADITYA ENVIRONMENTAL SERVICES PVT. LTD.**

Testing Laboratory is certified by ISO 9001:2015 &amp; ISO 45001:2018

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Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

**Test Report  
(Stack Emission)**

Ref. No.: AESPL/LAB/C/ ST- 23/11/69

Issue Date: 05/12/2023

<b>Name of Customer &amp; Contact Details</b>	: Galaxy Surfactants Limited. Mr. Anup Raut. ☎ 9970440101. ✉ <a href="mailto:Anup.Raut@galaxysurfactants.com">Anup.Raut@galaxysurfactants.com</a>		
<b>Name of Site</b>	: Plot No. G-59, MIDC Tarapur, Tal & Dist.- Palghar, Maharashtra.		
<b>Discipline &amp; Group</b>	: Chemical: Atmospheric Pollution		
<b>Description of sample</b>	: Stack Emission		
<b>Sample Identification number</b>	: ST- 23/11/69		
<b>Sample Quantity</b>	: SO <sub>2</sub> :1Bottle; NO <sub>2</sub> :1 Bottle; Thimble-1.		
<b>Date &amp; Time of sampling</b>	: 20/11/2023, 14:30-15:10 hr.		
<b>Sampling Environmental Conditions</b>	: Temp.:33°C; Rain fall: No; P <sub>bar</sub> :753 mmHg.		
<b>Transportation Condition</b>	: Bottles < 5°C	: Thimbles in plastic container	: Bladders at ambient temp.
<b>Sample Monitored &amp; Transported by</b>	: AESPL		
<b>Date of sample receipt</b>	: 29/11/2023		
<b>Date of sample analysis</b>	: 29/11/2023 to 02/12/2023		
<b>Sampling Equipment Used</b>	: ST-I-02		
<b>Calibration status</b>	: 25/05/2023 to 25/05/2024		
<b>Project/ Job number</b>	: AESPL/ Q/2023-24/GSL-Tarapur/29(Rev.01) Date: 12.08.2023		
<b>Reference of sampling</b>	: AESPL/LAB/QR/7.3.3/R-02		
<b>Method of sampling &amp; preservation</b>	: AESPL/LAB/SOP/7.3.1/ST-01		
<b>Environmental Condition while Testing</b>	: Temperature: 27°C; RH-40%		
<b>A. General Information About Stack:</b>			
Stack Connected to	: S-2, Boiler (3TPH)		
Emission due to	: Combustion of NG		
Material of construction of stack	: MS		
Shape of stack	: Circular		
Whether stack is provided with permanent platform	: Yes		
<b>B. Physical Characteristics of Stack:</b>			
Height of stack from ground level (m)	: 39		
Height of sampling point from ground level (m)	: --		
Diameter of Stack at sampling point (m)	: 1.20		
Area of stack (m <sup>2</sup> )	: 1.131		
<b>C. Analysis/ Characteristic of Stack:</b>			
Fuel used	: NG		
Fuel consumption (Liter/day.)	: --		
Details of pollution control devices attached with the stack:	: Stack		



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Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

## Test Report (Stack Emission)

Ref. No.: AESPL/LAB/C/ST- 23/11/69

Issue Date: 05/12/2023

### D. Result of Sampling & Analysis of Gaseous Emission:

SL. No.	Parameter	Result	MPCB. Limits	Unit	Method of analysis
1.	Gas Temperature	152	--	°C	IS-11255, (part- 1,3) 2018-19
2.	Gas velocity	4.56	--	m/s	IS-11255, (part- 1,3) 2018-19
3.	Gas flow rate	12594	--	Nm <sup>3</sup> /hr.	IS-11255, (part- 1,3) 2018-19
4.	Particulate Matter	11.56	50	mg/Nm <sup>3</sup>	IS-11255, (part- 1,3) 2018-19
5.	Sulphur Dioxide as SO <sub>2</sub>	<5.0	--	mg/Nm <sup>3</sup>	IS-11255, (part-2) 2019
6.	Oxide of Nitrogen NO <sub>x</sub> as NO <sub>2</sub>	81.39	--	mg/Nm <sup>3</sup>	IS-11255, (part-7) 2017
7.	Oxide of Nitrogen NO <sub>x</sub> as NO <sub>2</sub>	43.26	50	ppm	IS-11255, (part-7) 2017
8.	Oxygen as O <sub>2</sub>	4.0	--	%	IS 13270, 2019
9.	Carbon dioxide as CO <sub>2</sub>	16.8	--	%	IS 13270, 2019

**Conformity Statement:** The monitoring undertaken indicates that Stack Air Quality Values for Monitoring parameter are within the levels stipulated as per MPCB Consent.

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4. Decision Rule is applied.



Anjan Pramanik  
(Authorized Signatory)

-End of Test Report-



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Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

**Test Report  
(Stack Emission)**

Ref. No.: AESPL/LAB/C/ ST- 23/11/70

Issue Date: 05/12/2023

<b>Name of Customer &amp; Contact Details</b>	: Galaxy Surfactants Limited. Mr. Anup Raut. ☎ 9970440101. ✉ <a href="mailto:Anup.Raut@galaxysurfactants.com">Anup.Raut@galaxysurfactants.com</a>		
<b>Name of Site</b>	: Plot No. G-59, MIDC Tarapur, Tal & Dist.- Palghar, Maharashtra.		
<b>Discipline &amp; Group</b>	: Chemical: Atmospheric Pollution		
<b>Description of sample</b>	: Stack Emission		
<b>Sample Identification number</b>	: ST- 23/11/70		
<b>Sample Quantity</b>	: SO <sub>2</sub> :1Bottle; NO <sub>x</sub> :1 Bottle; Bladder-1; Thimble-1.		
<b>Date &amp; Time of sampling</b>	: 20/11/2023, 16:00-16:36 hr.		
<b>Sampling Environmental Conditions</b>	: Temp.:33°C; Rain fall: No; P <sub>bar</sub> :753 mmHg.		
<b>Transportation Condition</b>	: Bottles < 5°C	Thimbles in plastic container	Bladders at ambient temp.
<b>Sample Monitored &amp; Transported by</b>	: AESPL		
<b>Date of sample receipt</b>	: 29/11/2023		
<b>Date of sample analysis</b>	: 29/11/2023 to 02/12/2023		
<b>Sampling Equipment Used</b>	: ST-I-02		
<b>Calibration status</b>	: 25/05/2023 to 25/05/2024		
<b>Project/ Job number</b>	: AESPL/ Q/2023-24/GSL-Tarapur/29(Rev.01) Date: 12.08.2023		
<b>Reference of sampling</b>	: AESPL/LAB/QR/7.3.3/R-02		
<b>Method of sampling &amp; preservation</b>	: AESPL/LAB/SOP/7.3.1/ST-01		
<b>Environmental Condition while Testing</b>	: Temperature: 27°C; RH-40%		
<b>A. General Information About Stack:</b>			
Stack Connected to	: S-2, Thermic Fluid Heater		
Emission due to	: Combustion of NG		
Material of construction of stack	: MS		
Shape of stack	: Circular		
Whether stack is provided with permanent platform	: Yes		
<b>B. Physical Characteristics of Stack:</b>			
Height of stack from ground level (m)	: 39		
Height of sampling point from ground level (m)	: --		
Diameter of Stack at sampling point (m)	: 1.20		
Area of stack (m <sup>2</sup> )	: 1.131		
<b>C. Analysis/ Characteristic of Stack:</b>			
Fuel used	: NG		
Fuel consumption (Liter/day.)	: --		
Details of pollution control devices attached with the stack:	: Stack		



## ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

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Laboratory: P-1, MIDC Mohopada, Rasayani, Dist. Raigad, 410222, E-mail: [pglab@aespl.co.in](mailto:pglab@aespl.co.in)  
Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

### Test Report (Stack Emission)

Ref. No.: AESPL/LAB/C/ST- 23/11/70

Issue Date: 05/12/2023

#### D. Result of Sampling & Analysis of Gaseous Emission:

SL. No.	Parameter	Result	MPCB. Limits	Unit	Method of analysis
1.	Gas Temperature	143	--	°C	IS-11255, (part- 1,3) 2018-19
2.	Gas velocity	4.76	--	m/s	IS-11255, (part- 1,3) 2018-19
3.	Gas flow rate	13432	--	Nm <sup>3</sup> /hr.	IS-11255, (part- 1,3) 2018-19
4.	Particulate Matter	14.16	50	mg/Nm <sup>3</sup>	IS-11255, (part- 1,3) 2018-19
5.	Sulphur Dioxide as SO <sub>2</sub>	<5.0	--	mg/Nm <sup>3</sup>	IS-11255, (part-2) 2019
6.	Oxide of Nitrogen NO <sub>x</sub> as NO <sub>2</sub>	70.78	--	mg/Nm <sup>3</sup>	IS-11255, (part-7) 2017
7.	Oxide of Nitrogen NO <sub>x</sub> as NO <sub>2</sub>	37.63	50	ppm	IS-11255, (part-7) 2017
8.	Oxygen as O <sub>2</sub>	3.6	--	%	IS 13270, 2019
9.	Carbon dioxide as CO <sub>2</sub>	17.4	--	%	IS 13270, 2019

**Conformity Statement:** The monitoring undertaken indicates that Stack Air Quality Values for Monitoring parameter are within the levels stipulated as per MPCB Consent.

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4. Decision Rule is applied.



Anjan Pramanik  
(Authorized Signatory)

-End of Test Report-

**ADITYA ENVIRONMENTAL SERVICES PVT. LTD.**

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Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

**Test Report  
(Stack Emission)**

Ref. No.: AESPL/LAB/C/ ST- 23/11/71

Issue Date: 09/12/2023

<b>Name of Customer &amp; Contact Details</b>	: Galaxy Surfactants Limited. Mr. Anup Raut. ☎ 9970440101. ✉ Anup.Raut@galaxysurfactants.com		
<b>Name of Site</b>	: Plot No. G-59, MIDC Tarapur, Tal & Dist.- Palghar, Maharashtra.		
<b>Discipline &amp; Group</b>	: Chemical: Atmospheric Pollution		
<b>Description of sample</b>	: Stack Emission		
<b>Sample Identification number</b>	: ST- 23/11/71		
<b>Sample Quantity</b>	: SO <sub>2</sub> :1Bottle; NO <sub>2</sub> :1 Bottle; Thimble-1.		
<b>Date &amp; Time of sampling</b>	: 21/11/2023, 09:30-09:50 hr.		
<b>Sampling Environmental Conditions</b>	: Temp.:31°C; Rain fall: No; P <sub>bar</sub> :753 mmHg.		
<b>Transportation Condition</b>	: Bottles < 5°C	Thimbles in plastic container	Bladders at ambient temp.
<b>Sample Monitored &amp; Transported by</b>	: AESPL		
<b>Date of sample receipt</b>	: 29/12/2023		
<b>Date of sample analysis</b>	: 29/12/2023 to 02/12/2023		
<b>Sampling Equipment Used</b>	: ST-I-02		
<b>Calibration status</b>	: 25/11/2023 to 25/11/2024		
<b>Project/ Job number</b>	: AESPL/ Q/2023-24/GSL-Tarapur/29(Rev.01) Date: 12.05.2023		
<b>Reference of sampling</b>	: AESPL/LAB/QR/7.3.3/R-02		
<b>Method of sampling &amp; preservation</b>	: AESPL/LAB/SOP/7.3.1/ST-01		
<b>Environmental Condition while Testing</b>	: Temperature: 27°C; RH-40%		
<b>A. General Information About Stack:</b>			
Stack Connected to	:	S11, ATFD Vent D	
Emission due to	:	Process Activity	
Material of construction of stack	:	MS	
Shape of stack	:	Circular	
Whether stack is provided with permanent platform	:	Yes	
<b>B. Physical Characteristics of Stack:</b>			
Height of stack from ground level (m)	:	12	
Height of sampling point from ground level (m)	:	--	
Diameter of Stack at sampling point (m)	:	0.10	
Area of stack (m <sup>2</sup> )	:	0.008	
<b>C. Analysis/ Characteristic of Stack:</b>			
Fuel used	:	NA.	
Fuel consumption (Liter/day.)	:	NA.	
Details of pollution control devices attached with the stack:	:	Scrubber	



# ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

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Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

## Test Report (Stack Emission)

Ref. No.: AESPL/LAB/C/ST- 23/11/71

Issue Date: 05/12/2023

### D. Result of Sampling & Analysis of Gaseous Emission:

SL. No.	Parameter	Result	MPCB. Limits	Unit	Method of analysis
1.	Gas Temperature	33	--	°C	IS-11255, (part- 1,3) 2018-19
2.	Gas velocity	6.40	--	m/s	IS-11255, (part- 1,3) 2018-19
3.	Gas flow rate	1730	--	Nm <sup>3</sup> /hr.	IS-11255, (part- 1,3) 2018-19
4.	Particulate Matter	8.55	50	mg/Nm <sup>3</sup>	IS-11255, (part- 1,3) 2018-19
5.	Sulphur Dioxide as SO <sub>2</sub>	<5.00	--	mg/Nm <sup>3</sup>	IS-11255, (part-2) 2019
6.	Oxide of Nitrogen NO <sub>x</sub> as NO <sub>2</sub>	<9.00	--	mg/Nm <sup>3</sup>	IS-11255, (part-7) 2017
7.	Oxygen as O <sub>2</sub>	20.00	--	%	IS 13270, 2019
8.	Carbon dioxide as CO <sub>2</sub>	<0.2	--	%	IS 13270, 2019

**Conformity Statement:** The monitoring undertaken indicates that Stack Air Quality Values for Monitoring parameter are within the levels stipulated as per MPCB Consent.

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4. Decision Rule is applied.

  
*Anjan Pramanik*  
**Anjan Pramanik**  
(Authorized Signatory)

-End of Test Report-

**ADITYA ENVIRONMENTAL SERVICES PVT. LTD.**

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Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

**Test Report  
(Stack Emission)**

Ref. No.: AESPL/LAB/C/ ST- 23/11/72

Issue Date: 09/12/2023

<b>Name of Customer &amp; Contact Details</b>	:	Galaxy Surfactants Limited. Mr. Anup Raut. ☎ 9970440101. ✉ <a href="mailto:Anup.Raut@galaxysurfactants.com">Anup.Raut@galaxysurfactants.com</a>		
<b>Name of Site</b>	:	Plot No. G-59, MIDC Tarapur, Tal & Dist.- Palghar, Maharashtra.		
<b>Discipline &amp; Group</b>	:	Chemical: Atmospheric Pollution		
<b>Description of sample</b>	:	Stack Emission		
<b>Sample Identification number</b>	:	ST- 23/11/72		
<b>Sample Quantity</b>	:	SO <sub>2</sub> :1Bottle; NO <sub>2</sub> :1 Bottle; Thimble-1.		
<b>Date &amp; Time of sampling</b>	:	21/11/2023, 10:20-10:38 hr.		
<b>Sampling Environmental Conditions</b>	:	Temp.:31°C; Rain fall: No; P <sub>bar</sub> :753 mmHg.		
<b>Transportation Condition</b>	:	Bottles < 5°C	Thimbles in plastic container	Bladders at ambient temp.
<b>Sample Monitored &amp; Transported by</b>	:	AESPL		
<b>Date of sample receipt</b>	:	29/11/2023		
<b>Date of sample analysis</b>	:	29/11/2023 to 02/12/2023		
<b>Sampling Equipment Used</b>	:	ST-I-02		
<b>Calibration status</b>	:	25/11/2023 to 25/11/2024		
<b>Project/ Job number</b>	:	AESPL/ Q/2023-24/GSL-Tarapur/29(Rev.01) Date: 12.05.2023		
<b>Reference of sampling</b>	:	AESPL/LAB/QR/7.3.3/R-02		
<b>Method of sampling &amp; preservation</b>	:	AESPL/LAB/SOP/7.3.1/ST-01		
<b>Environmental Condition while Testing</b>	:	Temperature: 27°C; RH-40%		
<b>A. General Information About Stack:</b>				
Stack Connected to	:	S12, Sludge Dryer Vent F		
Emission due to	:	Process Activity		
Material of construction of stack	:	MS		
Shape of stack	:	Circular		
Whether stack is provided with permanent platform	:	Yes		
<b>B. Physical Characteristics of Stack:</b>				
Height of stack from ground level (m)	:	12		
Height of sampling point from ground level (m)	:	--		
Diameter of Stack at sampling point (m)	:	0.15		
Area of stack (m <sup>2</sup> )	:	0.0176		
<b>C. Analysis/ Characteristic of Stack:</b>				
Fuel used	:	NA.		
Fuel consumption (Liter/day.)	:	NA.		
Details of pollution control devices attached with the stack:	:	Scrubber		



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Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024

Laboratory: P-1, MIDC Mohopada, Rasayani, Dist. Raigad, 410222, E-mail: [pglab@aespl.co.in](mailto:pglab@aespl.co.in)

Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

## Test Report (Stack Emission)

Ref. No.: AESPL/LAB/C/ST- 23/11/72

Issue Date: 05/12/2023

### D. Result of Sampling & Analysis of Gaseous Emission:

SL. No.	Parameter	Result	MPCB. Limits	Unit	Method of analysis
1.	Gas Temperature	34	--	°C	IS-11255, (part- 1,3) 2018-19
2.	Gas velocity	7.69	--	m/s	IS-11255, (part- 1,3) 2018-19
3.	Gas flow rate	458	--	Nm <sup>3</sup> /hr.	IS-11255, (part- 1,3) 2018-19
4.	Particulate Matter	11.52	50	mg/Nm <sup>3</sup>	IS-11255, (part- 1,3) 2018-19
5.	Sulphur Dioxide as SO <sub>2</sub>	<5.00	--	mg/Nm <sup>3</sup>	IS-11255, (part-2) 2019
6.	Oxide of Nitrogen NO <sub>x</sub> as NO <sub>2</sub>	<9.00	--	mg/Nm <sup>3</sup>	IS-11255, (part-7) 2017
7.	Oxygen as O <sub>2</sub>	20.80	--	%	IS 13270, 2019
8.	Carbon dioxide as CO <sub>2</sub>	<0.20	--	%	IS 13270, 2019

**Conformity Statement:** The monitoring undertaken indicates that Stack Air Quality Values for Monitoring parameter are within the levels stipulated as per MPCB Consent.

#### Note:

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2. Results relate only to the items tested.
3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
4. Decision Rule is applied.



**Anjan Pramanik**  
(Authorized Signatory)

-End of Test Report-

**ADITYA ENVIRONMENTAL SERVICES PVT. LTD.**

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Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

**Test Report  
(Stack Emission)**

Ref. No.: AESPL/LAB/C/ ST- 23/11/73

Issue Date: 06/12/2023

<b>Name of Customer &amp; Contact Details</b>	:	Galaxy Surfactants Limited. Mr. Anup Raut. ☎ 9970440101. ✉ Anup.Raut@galaxysurfactants.com		
<b>Name of Site</b>	:	Plot No. G-59, MIDC Tarapur, Tal & Dist.- Palghar, Maharashtra.		
<b>Discipline &amp; Group</b>	:	Chemical: Atmospheric Pollution		
<b>Description of sample</b>	:	Stack Emission		
<b>Sample Identification number</b>	:	ST- 23/11/73		
<b>Sample Quantity</b>	:	SO <sub>2</sub> :1Bottle; NO <sub>2</sub> :1 Bottle; Thimble-1.		
<b>Date &amp; Time of sampling</b>	:	21/11/2023, 11:15-11:43 hr.		
<b>Sampling Environmental Conditions</b>	:	Temp.:31°C; Rain fall: No; P <sub>bar</sub> :754 mmHg.		
<b>Transportation Condition</b>	:	Bottles < 5°C	Thimbles in plastic container	Bladders at ambient temp.
<b>Sample Monitored &amp; Transported by</b>	:	AESPL		
<b>Date of sample receipt</b>	:	29/11/2023		
<b>Date of sample analysis</b>	:	29/11/2023 to 02/12/2023		
<b>Sampling Equipment Used</b>	:	ST-I-02		
<b>Calibration status</b>	:	25/05/2023 to 25/05/2024		
<b>Project/ Job number</b>	:	AESPL/ Q/2023-24/GSL-Tarapur/29(Rev.01) Date: 12.08.2023		
<b>Reference of sampling</b>	:	AESPL/LAB/QR/7.3.3/R-02		
<b>Method of sampling &amp; preservation</b>	:	AESPL/LAB/SOP/7.3.1/ST-01		
<b>Environmental Condition while Testing</b>	:	Temperature: 27°C; RH-48%		
<b>A. General Information About Stack:</b>				
Stack Connected to	:	S-4, DG Set, 1000KVA,		
Emission due to	:	Combustion of Diesel		
Material of construction of stack	:	MS		
Shape of stack	:	Circular		
Whether stack is provided with permanent platform	:	Yes		
<b>B. Physical Characteristics of Stack:</b>				
Height of stack from ground level (m)	:	12		
Height of sampling point from ground level (m)	:	--		
Diameter of Stack at sampling point (m)	:	0.15		
Area of stack (m <sup>2</sup> )	:	0.0177		
<b>C. Analysis/ Characteristic of Stack:</b>				
Fuel used	:	Diesel		
Fuel consumption (Liter/day.)	:	--		
Details of pollution control devices attached with the stack:	:	Stack		



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Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

## Test Report (Stack Emission)

Ref. No.: AESPL/LAB/C/ST- 23/11/73

Issue Date: 05/12/2023

### D. Result of Sampling & Analysis of Gaseous Emission:

SL. No.	Parameter	Result	MPCB. Limits	Unit	Method of analysis
1.	Gas Temperature	139	--	°C	IS-11255, (part- 1,3) 2018-19
2.	Gas velocity	6.26	--	m/s	IS-11255, (part- 1,3) 2018-19
3.	Gas flow rate	280	--	Nm <sup>3</sup> /hr.	IS-11255, (part- 1,3) 2018-19
4.	Particulate Matter	44.29	50	mg/Nm <sup>3</sup>	IS-11255, (part- 1,3) 2018-19
5.	Sulphur Dioxide as SO <sub>2</sub>	35.65	--	mg/Nm <sup>3</sup>	IS-11255, (part-2) 2019
6.	Sulphur Dioxide as SO <sub>2</sub>	0.24	0.9	Kg/day	IS-11255, (part-2) 2019
7.	Oxide of Nitrogen NO <sub>x</sub> as NO <sub>2</sub>	67.00	--	mg/Nm <sup>3</sup>	IS-11255, (part-7) 2017
8.	Oxygen as O <sub>2</sub>	09.00	--	%	IS 13270, 2019
9.	Carbon dioxide as CO <sub>2</sub>	12.00	--	%	IS 13270, 2019

**Conformity Statement:** The monitoring undertaken indicates that Stack Air Quality Values for Monitoring parameter are within the levels stipulated as per MPCB Consent.

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3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
4. Decision Rule is applied.



Anjan Pramanik  
(Authorized Signatory)

-End of Test Report-



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Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

**Test Report  
(Stack Emission)**

Ref. No.: AESPL/LAB/C/ ST- 23/11/74

Issue Date: 05/12/2023

<b>Name of Customer &amp; Contact Details</b>	:	Galaxy Surfactants Limited. Mr. Anup Raut. ☎ 9970440101. ✉ Anup.Raut@galaxysurfactants.com		
<b>Name of Site</b>	:	Plot No. G-59, MIDC Tarapur, Tal & Dist.- Palghar, Maharashtra.		
<b>Discipline &amp; Group</b>	:	Chemical: Atmospheric Pollution		
<b>Description of sample</b>	:	Stack Emission		
<b>Sample Identification number</b>	:	ST- 23/11/74		
<b>Sample Quantity</b>	:	Acid mist-1.		
<b>Date &amp; Time of sampling</b>	:	21/11/2023, 12:30-12:50 hr.		
<b>Sampling Environmental Conditions</b>	:	Temp.:31°C; Rain fall: No; P <sub>bar</sub> :753 mmHg.		
<b>Transportation Condition</b>	:	Bottles < 5°C	Thimbles in plastic container	Bladders at ambient temp.
<b>Sample Monitored &amp; Transported by</b>	:	AESPL		
<b>Date of sample receipt</b>	:	29/11/2023		
<b>Date of sample analysis</b>	:	29/11/2023 to 02/12/2023		
<b>Sampling Equipment Used</b>	:	ST-I-02		
<b>Calibration status</b>	:	25/05/2023 to 25/05/2024		
<b>Project/ Job number</b>	:	AESPL/ Q/2023-24/GSL-Tarapur/29(Rev.01) Date: 12.08.2023		
<b>Reference of sampling</b>	:	AESPL/LAB/QR/7.3.3/R-02		
<b>Method of sampling &amp; preservation</b>	:	AESPL/LAB/SOP/7.3.1/ST-01		
<b>Environmental Condition while Testing</b>	:	Temperature: 27°C; RH-48%		
<b>A. General Information About Stack:</b>				
Stack Connected to	:	S-5, Chlorination Reactor Vent		
Emission due to	:	Process Activity		
Material of construction of stack	:	MS		
Shape of stack	:	Circular		
Whether stack is provided with permanent platform	:	Yes		
<b>B. Physical Characteristics of Stack:</b>				
Height of stack from ground level (m)	:	12		
Height of sampling point from ground level (m)	:	--		
Diameter of Stack at sampling point (m)	:	0.08		
Area of stack (m <sup>2</sup> )	:	0.005		
<b>C. Analysis/ Characteristic of Stack:</b>				
Fuel used	:	--		
Fuel consumption (Liter/day.)	:	--		
Details of pollution control devices attached with the stack:	:	4 Stage Water & Caustic Scrubber		



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Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

## Test Report (Stack Emission)

Ref. No.: AESPL/LAB/C/ST- 23/11/74

Issue Date: 05/12/2023

### D. Result of Sampling & Analysis of Gaseous Emission:

SL. No.	Parameter	Result	MPCB. Limits	Unit	Method of analysis
1.	Gas Temperature	30	--	°C	IS-11255, (part- 1,3) 2018-19
2.	Acid Mist	13.76	35	mg/Nm <sup>3</sup>	EPA-450/2-77-019: 2019
3.	Carbon dioxide as CO <sub>2</sub>	<0.2	--	%	IS 13270, 2019

**Conformity Statement:** The monitoring undertaken indicates that Stack Air Quality Values for Monitoring parameter are within the levels stipulated as per MPCB Consent.

#### Note:

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2. Results relate only to the items tested.
3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
4. Decision Rule is applied.



**Anjan Pramanik**  
(Authorized Signatory)

-End of Test Report-

**ADITYA ENVIRONMENTAL SERVICES PVT. LTD.**

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Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

**Test Report  
(Stack Emission)**

Ref. No.: AESPL/LAB/C/ ST- 23/11/75

Issue Date: 05/12/2023

<b>Name of Customer &amp; Contact Details</b>	:	Galaxy Surfactants Limited. Mr. Anup Raut ☎ 9970440101. ✉ <a href="mailto:Anup.Raut@galaxysurfactants.com">Anup.Raut@galaxysurfactants.com</a>		
<b>Name of Site</b>	:	Plot No. G-59, MIDC Tarapur, Tal & Dist.- Palghar, Maharashtra.		
<b>Discipline &amp; Group</b>	:	Chemical: Atmospheric Pollution		
<b>Description of sample</b>	:	Stack Emission		
<b>Sample Identification number</b>	:	ST- 23/11/75		
<b>Sample Quantity</b>	:	Acid Mist:1Bottle;		
<b>Date &amp; Time of sampling</b>	:	21/11/2023, 13:10-13:30 hr.		
<b>Sampling Environmental Conditions</b>	:	Temp.:31°C; Rain fall: No; P <sub>bar</sub> :753 mmHg.		
<b>Transportation Condition</b>	:	Bottles < 5°C	Thimbles in plastic container	Bladders at ambient temp.
<b>Sample Monitored &amp; Transported by</b>	:	AESPL		
<b>Date of sample receipt</b>	:	29/11/2023		
<b>Date of sample analysis</b>	:	29/11/2023 to 02/12/2023		
<b>Sampling Equipment Used</b>	:	ST-1-02		
<b>Calibration status</b>	:	25/05/2023 to 25/05/2024		
<b>Project/ Job number</b>	:	AESPL/ Q/2023-24/GSL-Tarapur/29(Rev.01) Date: 12.08.2023		
<b>Reference of sampling</b>	:	AESPL/LAB/QR/7.3.3/R-02		
<b>Method of sampling &amp; preservation</b>	:	AESPL/LAB/SOP/7.3.1/ST-01		
<b>Environmental Condition while Testing</b>	:	Temperature: 27°C; RH-48%		
<b>A. General Information About Stack:</b>				
<b>Stack Connected to</b>	:	S-8, Process Reactor Vent & Storage Tank		
<b>Emission due to</b>	:	Process Activity		
<b>Material of construction of stack</b>	:	MS		
<b>Shape of stack</b>	:	Circular		
<b>Whether stack is provided with permanent platform</b>	:	Yes		
<b>B. Physical Characteristics of Stack:</b>				
<b>Height of stack from ground level (m)</b>	:	12		
<b>Height of sampling point from ground level (m)</b>	:	--		
<b>Diameter of Stack at sampling point (m)</b>	:	0.10		
<b>Area of stack (m<sup>2</sup>)</b>	:	0.008		
<b>C. Analysis/ Characteristic of Stack:</b>				
<b>Fuel used</b>	:	NA.		
<b>Fuel consumption (Liter/day.)</b>	:	NA.		
<b>Details of pollution control devices attached with the stack:</b>	:	4 Stage Water & Caustic Scrubber		



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Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

## Test Report (Stack Emission)

Ref. No.: AESPL/LAB/C/ST- 23/11/75

Issue Date: 05/12/2023

### D. Result of Sampling & Analysis of Gaseous Emission:

SL. No.	Parameter	Result	MPCB. Limits	Unit	Method of analysis
1.	Gas Temperature	31	--	°C	IS-11255, (part- 1,3) 2018-19
2.	Acid Mist	16.82	35	mg/Nm <sup>3</sup>	EPA-450/2-77-019: 2019
3.	Carbon dioxide as CO <sub>2</sub>	<0.2	--	%	IS 13270, 2019

**Conformity Statement:** The monitoring undertaken indicates that Stack Air Quality Values for Monitoring parameter are within the levels stipulated as per MPCB Consent.

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2. Results relate only to the items tested.
3. Any query related to this report will be entertained within 15 days of the report issue date only and the sample will also be retained for the same period.
4. Decision Rule is applied.



Anjan Pramanik  
(Authorized Signatory)

-End of Test Report-

**ADITYA ENVIRONMENTAL SERVICES PVT. LTD.**

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Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

**Test Report  
(Stack Emission)**

Ref. No.: AESPL/LAB/C/ ST- 23/11/76

Issue Date: 06/12/2023

<b>Name of Customer &amp; Contact Details</b>	: Galaxy Surfactants Limited. Mr. Anup Raut. ☎ 9970440101. ✉ <a href="mailto:Anup.Raut@galaxysurfactants.com">Anup.Raut@galaxysurfactants.com</a>		
<b>Name of Site</b>	: Plot No. G-59, MIDC Tarapur, Tal & Dist.- Palghar, Maharashtra.		
<b>Discipline &amp; Group</b>	: Chemical: Atmospheric Pollution		
<b>Description of sample</b>	: Stack Emission		
<b>Sample Identification number</b>	: ST- 23/11/76		
<b>Sample Quantity</b>	: Acid Mist:1Bottle;		
<b>Date &amp; Time of sampling</b>	: 21/11/2023, 14:00-14:20 hr.		
<b>Sampling Environmental Conditions</b>	: Temp.:31°C; Rain fall: No; P <sub>bar</sub> :753 mmHg.		
<b>Transportation Condition</b>	: Bottles < 5°C	: Thimbles in plastic container	: Bladders at ambient temp.
<b>Sample Monitored &amp; Transported by</b>	: AESPL		
<b>Date of sample receipt</b>	: 29/11/2023		
<b>Date of sample analysis</b>	: 29/11/2023 to 02/12/2023		
<b>Sampling Equipment Used</b>	: ST-I-02		
<b>Calibration status</b>	: 25/05/2023 to 25/05/2024		
<b>Project/ Job number</b>	: AESPL/ Q/2023-24/GSL-Tarapur/29(Rev.01) Date: 12.08.2023		
<b>Reference of sampling</b>	: AESPL/LAB/QR/7.3.3/R-02		
<b>Method of sampling &amp; preservation</b>	: AESPL/LAB/SOP/7.3.1/ST-01		
<b>Environmental Condition while Testing</b>	: Temperature: 27°C; RH-40%		
<b>A. General Information About Stack:</b>			
Stack Connected to	: S-9, Process Reactor Vent K		
Emission due to	: Process Activity		
Material of construction of stack	: MS		
Shape of stack	: Circular		
Whether stack is provided with permanent platform	: Yes		
<b>B. Physical Characteristics of Stack:</b>			
Height of stack from ground level (m)	: 12		
Height of sampling point from ground level (m)	: --		
Diameter of Stack at sampling point (m)	: 0.10		
Area of stack (m <sup>2</sup> )	: 0.008		
<b>C. Analysis/ Characteristic of Stack:</b>			
Fuel used	: --		
Fuel consumption (Liter/day.)	: --		
Details of pollution control devices attached with the stack:	: Ventury Scrubber		



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Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787



TC-7085

## Test Report (Stack Emission)

Ref. No.: AESPL/LAB/C/ST- 23/11/76

Issue Date: 05/12/2023

### D. Result of Sampling & Analysis of Gaseous Emission:

SL. No.	Parameter	Result	MPCB. Limits	Unit	Method of analysis
1.	Gas Temperature	32	--	°C	IS-11255, (part- 1,3) 2018-19
2.	Acid Mist	9.17	35	mg/Nm <sup>3</sup>	EPA-450/2-77-019: 2019
3.	Carbon dioxide as CO <sub>2</sub>	<0.2	--	%	IS 13270, 2019

**Conformity Statement:** The monitoring undertaken indicates that Stack Air Quality Values for Monitoring parameter are within the levels stipulated as per MPCB Consent.

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4. Decision Rule is applied.



Anjan Pramanik  
(Authorized Signatory)

-End of Test Report-



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## Form 4

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

### FORM FOR FILING ANNUAL RETURNS

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

**Unique Application Number:**

MPCB-HW\_ANNUAL\_RETURN-0000036579

**Submitted On:**

16-06-2023

**Industry Type :**

Generator

**Submitted for Year:**

2023

**1. Name of the generator/operator of facility**

GALAXY SURFACTANTS LTD

**Address of the unit/facility**

PLOT NO.G-59, TARAPUR MIDC, BOISAR

**1b. Authorization Number**

**Date of issue**

Format1.0/CC/UAN No.0000110105/CR/2207000303 Jul 6, 2022

**Date of validity of consent**

Apr 30, 2024

**2. Name of the authorised person**

MR. RAJESH B. KHATAVKAR

**Full address of authorised person**

PLOT NO.G-59, TARAPUR MIDC, BOISAR

**Telephone**

8976778210

**Fax**

NA

**Email**

Rajesh.Khatavkar@galaxysurfactants.com

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

Product Type *	Product Name *	Consented Quantity	Actual Quantity	UOM
Chemical ,Petrochemical &Electrochemical	FATTY ALCOHOL SULPHATES ( POWDER/NEEDLES)	1200.0000	802.39	MT/A
Chemical ,Petrochemical &Electrochemical	FATTY ALCOHOL SULPHATES ( COLOR NEEDLES)	2400.0000	1081.89	MT/A
Chemical ,Petrochemical &Electrochemical	FATTY ALCOHOL SULPHATES ( LIQUID)	576.0000	516	MT/A
Chemical ,Petrochemical &Electrochemical	ACTIVE PREPARATIONS INCLUDING ANIONIC, CATIONIC, AMPHOTERIC, NON IONIC SURFACTANTS SUCH AS FATTY ALCOHOL SULPHATES/ QUATERNARY AMMONIUM COMPOUNDS / ALKANOL AMIDES / GLYCINATES / AMINEOXIDES / BETAINES / QUATERNARY AMMONIUM COMPOUNDS AND SURFACTANT BLENDS	24996.0000	166.84	MT/A
Chemical ,Petrochemical &Electrochemical	SPECIALITY CHEMICALS SUCH AS POLYMERIC CONDITIONERS , POLYQUATS , PRESERVATIVES , FATTY ACID ESTERS	4992.0000	142.67	MT/A
Chemical ,Petrochemical &Electrochemical	SUNSCREENS	7500.0000	9.86	MT/A

### PART A: To be filled by hazardous waste generators

**1. Total Quantity of waste generated category wise**

Type of hazardous waste	Waste Name	Consented Quantity	Quantity	UOM
5.1 Used or spent oil	Spent Oil	1.500	1.475	MTA
5.2 Wastes or residues containing oil	Waste or residues containing oil	2.000	0.683	MTA

20.2 Spent solvents	Spent solvent	6.000	0	MTA
20.3 Distillation residues	Distillation residue	410.000	2.35	MTA
28.1 Process Residue and wastes	Process residue	2.000	0.838	MTA
28.2 Spent catalyst	Spent catalyst	2.000	0	MTA
28.3 Spent carbon	Spent carbon	2.000	0	MTA
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	Empty barrels/container	10.000	0	MTA
35.2 Spent ion exchange resin containing toxic metals	spent ion exchange	1.000	0	MTA
35.3 Chemical sludge from waste water treatment	ETP Sludge	15.000	1.803	MTA
28.3 Spent carbon	DILUTE ACETIC ACID [ON 100% BASIS]	840.000	0	MTA
28.3 Spent carbon	REC. METHANOL	180.000	0	MTA
28.3 Spent carbon	HCl SOLUTION (APPROX. 30%)	2100.000	0	MTA
28.3 Spent carbon	SODIUM BISULFITE SOLUTION / SODIUM BISULFATE / SODIUM SULPHITE [APPROX 30%]	3000.000	0	MTA
28.3 Spent carbon	SODIUM CHLORIDE [ON 100% BASIS]	300.000	0	MTA
37.3 Concentration or evaporation residues	MEE Salts	60.000	6.395	MTA
37.2 Ash from incinerator and flue gas cleaning residue	Flue gas cleaning residue	0.900	0.890	MTA
Other Hazardous Waste	Insulation Material (One time disposal)	0.000	3.975	MTA

2. Quantity dispatched category wise.

<b>Type of Waste</b>	<b>Quantity of waste</b>	<b>UOM</b>	<b>Dispatched to</b>	<b>Facility Name</b>
5.1 Used or spent oil	1.475	MTA	Disposal Facility	MWML
37.2 Ash from incinerator and flue gas cleaning residue	0.890	MTA	Disposal Facility	MWML
35.3 Chemical sludge from waste water treatment	1.803	MTA	Disposal Facility	MWML
37.3 Concentration or evaporation residues	6.395	MTA	Disposal Facility	MWML
5.2 Wastes or residues containing oil	0.683	MTA	Disposal Facility	MWML
20.2 Spent solvents	0.0	MTA	Disposal Facility	MWML
20.3 Distillation residues	2.35	MTA	Disposal Facility	MWML
28.1 Process Residue and wastes	0.838	MTA	Disposal Facility	MWML
28.2 Spent catalyst	0.0	MTA	Disposal Facility	MWML
28.3 Spent carbon	0.0	MTA	Disposal Facility	MWML
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	0.0	MTA	Disposal Facility	MWML
35.2 Spent ion exchange resin containing toxic metals	0.0	MTA	Disposal Facility	MWML

3. Quantity Utilised in-house, If any

<b>Type of Waste</b>	<b>Name of Waste</b>	<b>Quantity of Waste</b>	<b>UOM</b>
	NA	0	KL/Anum



4. Quantity in storage at the end of the year

<b>Type of Waste</b>	<b>Name of Waste</b>	<b>Quantity of Waste</b>	<b>UOM</b>
	NA	0	KL/Anum

5. Quantity disposed in landfills as such and after treatment

<b>Type</b>	<b>Quantity</b>	<b>UOM</b>
Direct landfilling	NA	KL/Anum
Landfill after treatment	NA	KL/Anum

	<b>UOM</b>
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

<b>Type</b>	<b>Quantity</b>	<b>UOM</b>
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

<b>Waste Name/Category</b>	<b>Country Name</b>	<b>State Name</b>	<b>Quantity of waste received from domestic sources</b>	<b>Quantity of waste imported(If any)</b>	<b>Units</b>
NA	India	Other	NA	NA	KL/Anum

2. Quantity in stock at the beginning of the year

<b>Waste Name/Category</b>	<b>Quantity</b>	<b>UOM</b>
NA	NA	KL/Anum

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

<b>Name of Waste</b>	<b>Type of Waste</b>	<b>Quantity</b>	<b>UOM</b>
NA	NA	NA	KL/Anum

4. Quantity of products dispatched (wherever applicable)

<b>Name of product</b>	<b>Quantity</b>	<b>UOM</b>
NA	NA	KL/Anum

5. Total quantity of waste generated

<b>Waste name/category</b>	<b>quantity</b>	<b>UOM</b>
----------------------------	-----------------	------------

NA	NA	KL/Anum
6. Total quantity of waste disposed		
<b>Waste name/category</b>	<b>quantity</b>	<b>UOM</b>
NA	NA	KL/Anum
7. Total quantity of waste re-exported (If Applicable)		
<b>Waste name/category</b>	<b>quantity</b>	<b>UOM</b>
NA	NA	KL/Anum
8. Quantity in storage at the end of the year		
<b>Waste name/category</b>	<b>quantity</b>	<b>UOM</b>
NA	NA	KL/Anum
9. Quantity disposed in landfills as such and after treatment		
<b>Type</b>	<b>Quantity</b>	<b>UOM</b>
Direct landfilling	NA	KL/Anum
Landfill after treatment	NA	KL/Anum
10. Quantity incinerated (if applicable)		
	<b>UOM</b>	
NA	KL/Anum	
Personal Details		
<b>Place</b>	<b>Date</b>	<b>Designation</b>
Tarapur	2022-06-16	Factory Manager



# 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

MPCB-ENVIRONMENT\_STATEMENT-0000059744

Submitted Date

26-09-2023

## PART A

### Company Information

Company Name

Galaxy Surfactants Ltd

Application UAN number

0000110105

Address

G-59 MIDC Tarapur

Plot no

G-59

Taluka

Palghar

Village

MIDC Tarapur

Capital Investment (In lakhs)

9763.00

Scale

LSI

City

Palghar

Pincode

401506

Person Name

Rajesh Khatavkar

Designation

Factory Manager

Telephone Number

8976778210

Fax Number

0

Email

Rajesh.Khatavkar@galaxysurfactants.com

Region

SRO-Tarapur I

Industry Category

Red

Industry Type

R22 Organic Chemicals manufacturing

Last Environmental statement submitted online

yes

Consent Number

Format1.0/CC/UAN  
No.0000110105/CR/2207000303

Consent Issue Date

2022-07-06

Consent Valid Upto

2024-04-30

Establishment Year

1992

Date of last environment statement submitted

Oct 22 2022 12:00:00:000AM

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

### Product Information

Product Name

Consent  
Quantity

Actual  
Quantity

UOM

Fatty Alcohol Sulphates/Sulfosuccinate ( Powder/Needles)

1200

802.39

MT/A

Fatty Alcohol Sulphate (Needle-Colour)

2400

1081.89

MT/A

Fatty Alcohol Sulphates/Fatty Alcohol Ether Sulphate

576

516

MT/A

Active preparations including anionic, cationic, amphoteric, non ionic surfactants such as fatty alcohol sulphates/Quaternary ammonium compounds/alkanol amides/Glycinates/Amineoxides/betaines/Quarter

24996

166.84

MT/A

Speciality chemicals such as polymeric conditioners, polyquats, preservatives, fatty acid esters

4992

142.67

MT/A

Sunscreens

7500

9.86

MT/A

<b>By-product Information</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
<b>By Product Name</b>	0	0	MT/A
NA			

### Part-B (Water & Raw Material Consumption)

<b>1) Water Consumption in m3/day</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>
<b>Water Consumption for Process</b>	145.00	6.32
<b>Cooling</b>	340.00	15.76
<b>Domestic</b>	19.50	3.45
<b>All others</b>	18.00	2.98
<b>Total</b>	522.50	28.51

<b>2) Effluent Generation in CMD / MLD</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
<b>Particulars</b>			
EFFLEUNT GENERATION	122	13.62	CMD
DOMESTIC EFFLEUNT	7.6	5.93	CMD

<b>2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
<b>Name of Products (Production)</b>			
0	0	0	CMD

<b>3) Raw Material Consumption (Consumption of raw material per unit of product)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
<b>Name of Raw Materials</b>			
Caustic soda Lye	0.34	10.68	MT/A
C1214 Alkyl polyglucoside	32.40	0.00	MT/A
Alkyl polyglucoside C0814	19.81	0.00	MT/A
FAS Liquid	1440.30	1234.51	MT/A
Galaxy LSS (Paste) C1216	187.23	146.73	MT/A
Citric acid (MONOHYDRATE)	1.15	1.48	MT/A
Sodium Sulfate	2.01	1.91	MT/A
Lauryl Alcohol (C1214)	0.00	18.16	MT/A
Caprylic alcohol (C8)	0.00	9.40	MT/A
Capric alcohol (C10)	0.00	7.62	MT/A
GLYCERINE	0.75	16.50	MT/A
Dextrose Anhydrous	0.00	54.32	MT/A
Distilled Fatty Acid C8-10	4.64	84.24	MT/A
Tung Oil	0.60	25.65	MT/A
Rapeseed oil	0.90	38.37	MT/A

<b>4) Fuel Consumption</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
<b>Fuel Name</b>			

5.2 Wastes or residues containing oil	00	0.683	MT/A
20.3 Distillation residues	00	2.350	MT/A
28.1 Process Residue and wastes	00	0.838	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	0.350	0.890	MT/A
35.3 Chemical sludge from waste water treatment	1.090	1.803	MT/A
37.3 Concentration or evaporation residues	00	6.512	MT/A
Other Hazardous Waste	00	3.975	MT/A

**Part-E**

**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>
PVC PAPER BAGS	4.365	5.080	MT/A
HDPE / METAL CONTAINERS	55	1052	Nos./Y
WOODEN PALLATES	1641	568	Nos./Y

**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>
NA	0	0	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	0	0	MT/A

**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**

<b>Type of Hazardous Waste Generated</b>	<b>Qty of Hazardous Waste</b>	<b>UOM</b>	<b>Concentration of Hazardous Waste</b>
5.1 Used or spent oil	1.475	MT/A	LIQUID
5.2 Wastes or residues containing oil	0.683	MT/A	LIQUID
20.3 Distillation residues	2.350	MT/A	SOLID
29.1 Process wastes or residues	0.838	MT/A	SOLID
35.1 Exhaust Air or Gas cleaning residue	0.890	MT/A	SOLID
35.3 Chemical sludge from waste water treatment	1.803	MT/A	SOLID
37.3 Concentration or evaporation residues	6.512	MT/A	SOLID
Other Hazardous Waste	3.975	MT/A	SOLID

**2) Solid Waste**

<b>Type of Solid Waste Generated</b>	<b>Qty of Solid Waste</b>	<b>UOM</b>	<b>Concentration of Solid Waste</b>
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HSD	51684	11361	Kg/Annum
PNG	8000	1245.65	SCM/Day

### Part-C

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

##### [A] Water

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged (Mg/Lit) Except PH, Temp, Colour</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
pH	0	7.48	0	5.5-9.5	NA
TSS	0.195	10.00	0	<100mg/l	NA
COD	0.157	8.06	0	<250mg/l	NA
BOD	0.045	2.33	0	<30mg/l	NA
TDS	0.508	26.00	0	<2100mg/l	NA
O/G	0.019	1.00	0	<10mg/l	NA
CHLORIDE	0.039	2.02	0	<600mg/l	NA
SULPHATE	0.118	6.06	0	<1000mg/l	NA

##### [B] Air (Stack)

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged (Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
TPM (Thermic Fluid Heater-SDP)	0.572	10	0	50mg/nm3	NA
NOx (Thermic Fluid Heater-SDP)	0.852	14.9	0	50 ppm	NA
NOx (Thermic Fluid Heater-Nebula)	15.086	27.5	0	50 ppm	NA
NOx (Boiler)	12.302	23.1	0	50 ppm	NA
TPM (DG)	0.602	34.33	0	50mg/nm3	NA
SO2 (DG)	0.33	0.33	0	0.9 Kg/Day	NA
Acid Mist (Chlorination reactor vent)	0.030	18.0	0	35 Mg/Nm3	NA
TPM (Spray Dryer plant Vent)	1.900	36.5	0	50 Mg/Nm3	NA
TPM (Packing section dust exhaust)	0.275	39.5	0	50 Mg/Nm3	NA
Acid Mist (Process reactor vent & storage tank)	0.139	21.0	0	35 Mg/Nm3	NA
Acid Mist (Process reactor vent K)	12.71	19.5	0	35 Mg/Nm3	NA
TPM (ATFD vent D)	0.096	29.0	0	50 Mg/Nm3	NA
TPM (Sludge dryer vent F)	0.224	32.0	0	50 Mg/Nm3	NA

### Part-D

#### **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	0.300	1.475	MT/A

PVC AND PAPER BAGS	5.080	MT/A	PAPER BAGS WITH PVC LINER
HDPE / METAL CONTAINERS	1052	Nos./Y	NA
WOODEN PALLATES	568	Nos./Y	NA

## 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)
NA	0	0	0	0	0	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

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Nil	Nil	0

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

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
NIL	NIL	0

## Part-I

### Any other particulars for improving the quality of the environment.

#### Particulars

We have ZLD unit

#### Name & Designation

Rajesh Khatavkar - Factory Manager

#### UAN No:

MPCB-ENVIRONMENT\_STATEMENT-0000059744

#### Submitted On:

26-09-2023