



Environment Department Room no.217, 2nd Floor, Mantralaya Annex, Mumbai 400032. 13.1.2020

Dear Sir,

Subject: Compliance report of Environment Clearance

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

Please find attached half yearly compliance report from July 2020 to December 2020, in compliance of Condition No.26 and 29 of our Environment Clearance letter dated 08.04.2015 and condition no.23 of our Environment Clearance letter dated 03.12.2010.

Kindly acknowledge receipt of this letter with its enclosure.

Thanking you, Cordially yours,

For Galaxy Surfactants Limited

Shamsunder Gawade Sr. Manager – Corporate Governance Process

Encl: As above

CC : 1. Maharashtra Pollution Control Board Raigad Bhavan, 7th Floor, Sector-11, CBD Belapur, Navi Mumbai

Fax: +91-22-27411701 / 27411702

- 2. Ministry of Environment and Forest, Climate Change Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Line, Nagpur-440001
- 3. Central Pollution Control Board Parivesh Bhavan, Opp. VMC Ward Office No.10, Subhanpura Factory Address: Regd. Off Plot No. V-23 MIDC, Taloja C-49/2, T & Plot No. 1, Village: Chal Navi Mur Near Taloja Ind. Area, CIN No. 1 Tal : Panvel, Dist. Raigad. Ph : +91-Ph: +91-22-39215300 / 39545100 Fax : +91

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

COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE (Period: July 2020 – December 2020)

- **Project** : Galaxy Surfactants Ltd., Project of Manufacturing of Surfactants and Specialty Chemicals at Plot No.V-23, MIDC Taloja and Plot No. 1, Village Chal, Tal. Panvel, District Raigad by Modernisation with no increment in pollution load.
- Reference: SEIAA Letter No.: SEAC-2212/CR-494/TC-2 dated 08.04.2015 and subsequent amendment in Environment clearance vide letter no.SEIAA-2016/CR 05/TC 3 dated 19.05.2016 and SEIAA Letter No.: SEAC-2010/CR-448/TC-2 dated 03.10.2010.

Products :

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

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

Sr. No.	Conditions	Compliance Status		
1	The Environment Clearance is issued subject to	We shall be responsible for end		
	condition that PP shall be responsible for end	disposal of Hazardous Waste to		
	disposal of Hazardous Waste to authorized dealer (b) PP to abide by the submitted specific	Authorized dealer.		
	effluent characteristics after treatment.	We will abide by the specific effluent characteristics after treatment.		
		Complied.		

2	No additional land shall be used / acquired for	The project is implemented at existing			
	proper permission	Complied			
2	For controlling fugitive natural duct regular	Complied.			
5	sprinkling of water and wind shields at appropriate distances in vulnerable areas of Plant shall be ensured.	Complied.			
4	Regular monitoring of the air quality, including SPM and SO2 levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution	Complied. Please refer enclosed Annexure A for latest work zone and ambient air quality report.			
	Control Board (MPCB) and submit report accordingly to MPCB.				
5	Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.	Complied.			
6	Proper Housekeeping programs shall be implemented.	 We are maintaining proper housekeeping within premises. Complied. 			
7	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of the operation and shall not be restarted until the desired efficiency has been achieve.	In case of failure of pollution control Equipment, the complete unit is being shut down and resumed only after the said equipment is rectified. We assure that the same practice will be followed in future also.			
8	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollution from DG Set (If applicable).	Complied.			
9	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.	Rainwater collected and reused in process.			
10	Arrangement shall be made that effluent and storm water does not get mixed.	Separate arrangements are made for effluent and storm water. Complied.			
11	Periodic Monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.	Our unit is ZLD and hence not discharging any effluent to CETP. Entire effluent is reused by recycling through RO, MBR, MEE. We are not using any ground water in our process.			
12	Leq of Noise Level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.	Noise level maintained as per standards and monitored on regular basis. The operating personnel use protective equipment like earmuff and earplug wherever required.			

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		Complied.
13	The overall noise levels in and around the plant shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules 1989.	The overall noise levels in and around the plant kept well within the standards. Proper noise barriers, acoustic enclosures are provided on noise generating equipment like DG Set, blowers etc. to minimize noise.
14	Green belt shall be developed and maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO / Agriculture Dept.	Green belt area of 4080 sq. mtrs. Developed. 1045 numbers of trees and shrubs are planted around the plant periphery.
15	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.	Adequate safety measures taken within plant boundary. Leak detection devices installed at strategic places. Complied.
16	Occupational health surveillance of the workers shall be done on a regular basis and the record shall be maintained as per Factories Act.	We have separate SHE department to take care of health and safety of the people working in the unit. We conduct monthly meeting monitoring health and safety of the people. Half yearly health checkup of workers are done on regular basis and the records are maintained as per Factories Act. Due to Covid-19 Health checkup was postponed and will be carried out in June 2020. Now, we have planned it on 14 th , 16 th , 18 th & 19 th of January 2021. We will take all the necessary precautionary measures for the health check-up in consultation with the Doctors appointed for.
17	The Company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	Fire prevention and life safety measures are installed in the premises. Fire alarm and sprinklers installed. Complied.
18	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from MPCB shall be	We are complied with the rules and regulations with regard to handling and disposal of Hazardous Wastes in accordance with the rules and MPCB has authorized us for treatment/storage/disposal of

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	obtained for collections / treatment / storage / disposal of hazardous waste.	Hazardous Waste to authorized vendors.
		We have obtained membership of Mumbai Waste Management Limited (MWML) for the disposal of Wastes / Residue Containing Oil (1 MT/A).Empty barrels/containers / liner contaminated with Hazardous chemicals /waste (24 MT/A), Flue Gas Cleaning Residue (98.4 MT/A), Chemical Sludge from waste water treatment (108 MT/A) by incineration and Spent Catalyst and molecular sieves (6 MT/A) by landfill.
		Used or Spent oil (6 MT/A), Contaminated Cotton ragas or other cleaning materials 1MT/A will be given for Recycle/incineration toMWML/ MPCB Authorized Vendor.MEE solid waste 180MT/A by landfill.
		We maintain the record for hazardous waste generation in form 3 & disposal in Form 10 and submit the Annual return in Form 4 to MPCB.
19	 The Company shall undertake following Waste Minimization Measures : Metering of quantities of active ingredients to minimize waste. Reuse of by-products from the process as raw materials or as raw material substitutes in other process. Maximizing recoveries. Use of automated transfer system to minimize spillage. 	Use of level transmitters in storage tank and adjustment vessel to avoid spillages. Automated transfer of most of intermediate, raw materials and finished goods used for avoiding spillages.
20	Regular mock drills for the on-site emergency management plan shall be carried out implementation of changes / improvement required, if any, in the on-site management plan shall be ensured.	On-site emergency management plan prepared. We have conducted total evacuation mock drill in the month of November,2020 as per schedule and this was informed to DISH authority through mail on 29th December,2020. Regular internal plant wise mock drills were also carried out.
21	A separate environment management cell with qualified staff shall be set up for	Complied.

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	implementation of the stipulated environmental safeguards.	Environment management cell is set up with total 17 members of various Departments.
22	Transportation of ash will be through closed containers and all measure should be taken to prevent spilling of ash.	Complied.
23	Separate silos will be provided for collecting and storing bottom ash and fly ash.	We have dedicated area for collecting bottom ash from furnace & we collect the fly as from Cyclone separator & bag filter in drums & then shifted to dedicated area. This area is completely isolated & covered from all sides to avoid any interference.
24	Separate funds shall be allocated for implementation of environmental protection measures / EMP along with item-wise breaks- up. These 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 be reported to the MPCB and this department.	We have installed Multiple Effective Evaporator system (MEE) with approximate Investment of Rs.3.75 CR Which is operational now. During the period we have spent approximately Rs.50 Lacks for environment protection measures.
25	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at website at http://ec.maharashtra.gov.in.	Complied.
26	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard and soft copies to the MPCB and this department on 1 st June and 1 st December of each calendar year.	Complied.
27	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The	Complied. EC copy published on website of the Company.

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	clearance letter shall also be put on the website of the Company by the proponent	
28	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective zonal office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Complied. Status of compliance of the stipulated EC conditions, including results of monitored data will be uploaded on our website and will be updated regularly. The Criteria Pollutant Levels are displayed on the main gate of the Company. Please refer enclosed Annexure B for latest Stack Emission reports.
29	The project proponent shall also submit six monthly report on the status of compliance of the stipulated EC Conditions including results of monitored data (both in hard copies as well as by email) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Complied.
30	The environmental statement for each financial year ending 31 st March in Form – V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (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.	Complied. Environment statement for the year 2019-2020 submitted online with the MPCB website on 23.09.2020 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.

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

Sr.No.	Conditions	Compliance Status
1	"Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environmental department before start of any construction work at the site	Complied. Copy of Consent to Establish was submitted in earlier EC Compliance
2	No land development / construction work preliminary or otherwise relating to the project shall taken up without obtaining due clearance from respective authorities.	We abide by this regulation/condition.

3 to 27	Conditions from Environment Clearance dated 03.12.2010 are also covered in above condition	Please refer remarks in status of compliance of conditions in
	nos.2-4, 9-30 of Environment Clearance dated	Environment Clearance dated
	08.04.2015.	08.04.2015.
28	The environmental clearance is being issued without prejudice to the court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision of the Hon'ble Court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him.	Not applicable.

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For Galaxy Surfactants Limited

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Shamsunder Gawade Sr. Manager- Corporate Governance Process

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Annexure - A (collectively) Sadekar Enviro Engineers Pvt. Ltd.

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

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Report No SEET/AA/GSL/2020/218				Dat	ρ	17/00/2020
Name of Client	Y SURFACTA	NTS	LIMITED		17/09/2020	
Address of Client	Address of Client Plot No. V-23 & 01, MIDC Taloia Ta					0200
Sample collected by	AA Represer	itative	Duration of sa	nnling	24 has	
Reference				Duration of sampling 24 hrs		
Date of sampling 09/09/2020			T	Sample Receip	t Date	10/00/2020
Analysis Start Date	11/09/2020			Analysis Comr	lete Date	10/09/2020
		AMBIENT	AIRS	TATION	nete Date	12/09/2020
Location of H.V.S.	Near Admin	Gate (EOU)	Late	ral Distance	50 Mtr Ero	m Admin Cata (FOID
Ambient Temperature	32.8 °C		Rece	eptor Distance	1.5 Mtr. Fro	m Admin Gate (EOU)
]	POLLUTIONA	LPAI	RAMETERS	1.5 Mil. FIO	in Ground Level
Parameters	Units	Result		NAAQS Limits	Method	
Particulate Matter PM10	μg/m ³	46.8		100	Instr Manual united 2.21	
Particulate Matter PM2.5	μg/m ³	32.4		60	CPCP Manual Vehicle	
Sulphur Dioxide (SO ₂)	μg/m ³	30.7		80	IS 5182(part 2)2001 (DA 2017)	
Oxide of Nitrogen (NOx)	μg/m ³	24.7		80	IS 5182(part 2)2001 (RA 2017)	
Ozone (O3)	µg/m ³	BDL(MDL<19.6)		100	MASA-411 3rd Ed	
Lead (Pb)	μg/m ³	BDL(MDL<0.1)		1.0	MASA 822 3rd Ed	
Carbon Monoxide (CO)	mg/m ³	0.28		02	IS 5182(part 10)1999 (PA 2014)	
Ammonia (NH3)	μg/m ³	BDL(MDL<0.02)		400	MASA 401 3 rd Ed	
Benzene (C6H6)	μg/m ³	BDL(MDL<0.2)		05	IS 5182(part 11)2006 (PA 2012)	
Benzo (a) Pyrene (BaP)	ng/m ³	BDL(MDL<	(1)	01	CPCB Mar	1)2000 (KA 2017)
rsenic (As)	ng/m ³	BDL(MDL<	0.1)	06	MASA	302 2rd Ed
lickel (Ni)	ng/m ³	BDL(MDL<7)		20	MASA-822 3rd Ed	
 2) The above rest 2) The above rest 3) NAAQS-Nati 4) BDL – Below 	uts relate only to alts relate only to onal Ambient A Detectable Lim	o the condition p o the item tested ir Quality Stand it.	ards	ng at the time of Auth	orized by	

10/2020

BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaji-403 001, Goa State, India (C : (0832) 2437046 / 2437164 E-mail : sadekarenviro@rediffmail.com * Website : www.sadekarenviro.com

LABORATORY

: B-306/307, Plot No. 61, Patel Estate, Reis Magos, Verem, Alto, Old Betim Road, Bardez, Porvorim, Panaji-Goa-403 101. Goa State, India. (2): (0832) 2411322 / 23 * E-mail : starlabgoa@rediffmail.com * CIN No. U45209MH1998PTC-116379



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

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Report No	SEET/AA/G	SI /2020/210				
Name of Client	M/s GALA	XY SURFACTANT	Di	ate		17/09/2020
Address of Client	Plot No. V-2	3 & OL MIDC Tala	S LIMITED			
Sample collected by	AA Represen	ntative	a, Tal. Panvel, I	Dist. R	aigad - 4102	208
Reference			Duration of s	amplir	lg	24 hrs
Date of sampling	08/09/2020		0			
Analysis Start Date	10/09/2020		Sample Receipt Date			09/09/2020
		AMRIENT AID	Analysis Con	plete	Date	11/09/2020
Location of H.V.S.	Near Materia	Gate No. 6	STATION		·····	
	(EOU)		Lateral Distance	ce	5.0 Mtr. Fr	om Material Gate
Ambient Temperature	32.8 °C		Pacanta D'		No. 6 (EOL	J)
		POLLUTIONAL P	A DAMETERS	nce	1.5 Mtr. Fr	om Ground Level
Parameters	Units	Pacult	MANIETERS			
		ascoult	NAAQS		M	ethod
Particulate Matter PM10	μg/m ³	53.5	Limits			
Particulate Matter PM25	μg/m ³	39.2	60		Instr. Manua	l version 2.01
Sulphur Dioxide (SO ₂)	μg/m ³	34.3	80	10	CPCB Mani	ial Volume I
Nitrogen Dioxide (NO2)	$\mu g/m^3$	30.6	80	15	5182(part 2)	2001 (RA 2017)
Ozone (O_3)	$\mu g/m^3$	BDL(MDI < 19.6)	100	15	5182(part 2).	2006 (RA 2017)
Lead (Pb)	$\mu g/m^3$	BDL(MDI < 0.1)	100		MASA-411 3rd Ed	
Carbon Monoxide (CO)	mg/m ³	0.47	1.0	10.0	MASA-8	22 3 rd Ed
Ammonia (NH ₃)	µg/m ³	BDL(MDL<0.02)	100	15.5	182(part 10)	1999 (RA 2014)
Benzene (C_6H_6)	µg/m³	BDL(MDL<0.2)	400	TO C	MASA-4	01 3 rd Ed
Senzo (a) Pyrene (BaP)	ng/m ³	BDL(MDI <1)	01	15.5	182(part 11)	2006 (RA 2017)
Arsenic (As)	ng/m ³	BDL(MDL<0.1)	06	(PCB Manua	l Vol 1 2011
Nickel (Ni)	ng/m ³	BDL(MDI < 7)	20		MASA-30	D2 3 rd Ed
2) The above resul 2) The above resul 3) NAAQS-Natio 4) BDL – Below 1	Its relate only to Its relate only to nal Ambient Ai Detectable Lim:	o the condition preva the item tested. r Quality Standards it.	iling at the time	of san Autho	rized by	22 3 Ed

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Report No SEET/AA/GSL/2020/217			Dat	ate 17/09/2020			
Name of Client	M/s GALAX	Y SURFACT	ANTS	LIMITED	·····		
Address of Client	Plot No. V-23	& 01, MIDC	Taloja.	Tal. Panyel, D	ist Raigad - 41	0208	
Sample collected by	AA Represent	tative	,	Duration of sa	mpling	24 hrs	
Reference							
Date of sampling	09/09/2020			Sample Receir	ot Date	10/09/2020	
Analysis Start Date	11/09/2020			Analysis Com	plete Date	12/09/2020	
		AMBIENT	AIRS	TATION	Jitto Duto	12/07/2020	
Location of H.V.S.	Near MED W (MED)	are House	are House Latera		5.0 Mtr. Fro	om MED Ware House	
Ambient Temperature	32.8 °C		Recer	otor Distance	1.5 Mtr. Fro	om Ground Level	
	F	OLLUTION	AL PA	RAMETERS			
Parameters	Units	Resu	lt	NAAQS Limits	Method		
Particulate Matter PM10	μg/m ³	38.6		100	Instr.Mar	tr. Manual version 2 01	
Particulate Matter PM2.5	μg/m ³	22.9		60	CPCB M	anual Volume 1	
Sulphur Dioxide (SO ₂)	μg/m ³	25.1		80	IS 5182(part	IS 5182(part 2)2001 (RA 2017)	
Nitrogen Dioxide (NO2)	μg/m ³	19.7		80	IS 5182(part 2)2006 (RA 2017)		
Dzone (O_3)	μg/m ³	BDL(MDL	<19.6)	100	MAS	A-411 3rd Ed	
Lead (Pb)	μg/m ³	BDL(MDI	.<0.1)	1.0	MAS	A-822 3rd Ed	
Carbon Monoxide (CO)	mg/m ³	0.17		02	IS 5182(part	10)1999 (RA 2014)	
Ammonia (NH3)	$\mu g/m^3$	BDL(MDL	<0.02)	400	MAS	A-401 3rd Ed	
Benzene (C_6H_6)	μg/m ³	BDL(MDL	.<0.2)	05	IS 5182(part	11)2006 (RA 2017)	
Benzo (a) Pyrene (BaP)	ng/m ³	BDL(MDL<1)		01	CPCB Ma	inual Vol 1 2011	
Arsenic (As)	ng/m ³	BDL(MDL<0.1)		06	MAS	A-302 3rd Ed	
lickel (Ni)	ng/m ³	BDL(MD	L<7)	20	MASA	4-822 3rd Ed	
2) The above result 3) NAAQS-Nation 4) BDL – Below I	as relate only to al Ambient A Detectable Lim	the condition the item teste r Quality Star it.	prevail ed. idards	a the time of	uthorized by		



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Report No	SEET/AA/G	SL/2020/216	Da	nte	17/09/2020
Name of Client	M/s GALAX	Y SURFACTANT	S LIMITED		
Address of Client	Plot No. V-2	3 & 01, MIDC Tale	oja, Tal. Panvel,	Dist. Rai	gad – 410208
Sample collected by	AA Represer	ntative	Duration of s	ampling	24 hrs
Reference					
Date of sampling	08/09/2020		Sample Rece	ipt Date	09/09/2020
Analysis Start Date	10/09/2020		Analysis Con	nplete Dat	te 11/09/2020
		AMBIENT AIF	R STATION		
Location of H.V.S.	Near Gate N	lo.3 (V-23)	Lateral Distance	: 5	5.0 Mtr. From Gate No.3
Ambient Temperature	34.1 °C	1	Receptor Distan	ce 1	1.5 Mtr. From Ground Level
	P	OLLUTIONAL P	ARAMETERS	5	
Parameters	Units	Result	NAAQS Limits		Method
Particulate Matter PM10	μg/m ³	44.9	100	In	str.Manual version 2.01
Particulate Matter PM2 5	μg/m ³	28.6	60	C	PCB Manual Volume 1
Sulphur Dioxide (SO ₂)	μg/m ³	28.2	80	IS 5	182(part 2)2001 (RA 2017)
Nitrogen Dioxide (NO ₂)	μg/m ³	23.4	80	1S 51	182(part 2)2006 (RA 2017)
Ozone (O ₃)	μg/m ³	BDL(MDL<19.6	5) 100		MASA-411 3rd Ed
Lead (Pb)	μg/m ³	BDL(MDL<0.1) 1.0		MASA-822 3rd Ed
Carbon Monoxide (CO)	mg/m ³	0.29	02	IS 51	82(part 10)1999 (RA 2014)
Ammonia (NH3)	μg/m ³	BDL(MDL<0.02	2) 400		MASA-401 3rd Ed
Benzene (C_6H_6)	μg/m ³	BDL(MDL<0.2) 05	IS 51	82(part 11)2006 (RA 2017)
Benzo (a) Pyrene (BaP)	ng/m ³	BDL(MDL<1)	01	C	PCB Manual Vol 1 2011
Arsenic (As)	ng/m ³	BDL(MDL<0.1) 06		MASA-302 3rd Ed
Nickel (Ni)	ng/m ³	BDL(MDL<7)	20		MASA-822 3rd Ed
2) The above rest 2) The above resu 3) NAAQS-Natio 4) BDL – Below	Its relate only t nal Ambient Ai Detectable Lim	o the item tested. r Quality Standards		Authori	ized by



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94 KG + 45 F 46 6 Kisan Nagar Road, M.I.D.C. Wagle Industrial Area. Thane - 400 604. Maharashtra State, India. 0 - (91-22) 2583 5321 / 583 3322 / 2583 3323 / 2583 3324 • E-mail : profisaderatement com/ PSdekario and Company Gazetted By Ministry D Environment & Forest Govt Of INDIA, S. O. 557 (E). Valid up to 25/02/2028 * CCI-NABET Accredite

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Report No	SEET/AA/GS	L/2020/215	10/01/10/	Date	9		17/09/2020
Name of Client	M/s GALAXY	SURFACTAN	TS LI	MITED			
Address of Client	Plot No. V-23	& 01, MIDC Ta	aloja, T	fal. Panvel, Di	ist. Rai	gad - 410	208
Sample collected by	AA Represent	ative	I	Duration of sar	npling		24 Hrs
Reference							
Date of sampling	08/09/2020		5	Sample Receip	ot Date		09/09/2020
Analysis Start Date	10/09/2020		1	Analysis Comp	olete D	ate	11/09/2020
		AMBIENT A	AIR ST	TATION			
Location of H.V.S.	Near Material	Gate (V-23)	Late	ral Distance		5.0 Mtr. F	rom Material Gate
Ambient Temperature	34.1 °C Recep		eptor Distance	: 1	1.5 Mtr. F	rom Ground Level	
	P	OLLUTIONAL	LPAR	AMETERS		NATURAL CONTRACTOR OF STREET	
Parameters	Units	Result		NAAQS Limits		٦	Aethod
Particulate Matter PM10	μg/m ³	51.6	all the shale	100		Instr.Manu	al version 2.01
Particulate Matter PM25	μg/m ³	34.2		60		CPCB Ma	nual Volume 1
Sulphur Dioxide (SO ₂)	$\mu g/m^3$	36.7	tie alle	80	IS	5182(part)	2)2001 (RA 2017)
Nitrogen Dioxide (NO ₂)	$\mu g/m^3$	28.2		80	IS	5182(part)	2)2006 (RA 2017)
Ozone (O_3)	μg/m ³	BDL(MDL<	19.6)	100		MASA	-411 3 rd Ed
Lead (Pb)	μ <u>e</u> /m ³	BDL(MDL<	0.1)	1.0		MASA	-822 3 rd Ed
Carbon Monoxide (CO)	mg/m ³	0.52		02	1S 5	182(part 1	0)1999 (RA 2014)
Ammonia (NH ₃)	μg/m ³	BDL(MDL<	0.02)	400		MASA	-401 3 rd Ed
Benzene (C ₆ H ₆)	µg/m ³	BDL(MDL<	(0.2)	05	IS 5	182(part 1	1)2006 (RA 2017)
Benzo (a) Pyrene (BaP)	ng/m ³	BDL(MDL·	<1)	01	(CPCB Mai	nual Vol 1 2011
Arsenic (As)	ng/m ³	BDL(MDL<	(0.1)	06		MASA	-302 3 rd Ed
Nickel (Ni)	ng/m ³	BDL(MDL-	<7)	20		MASA	-822 3 rd Ed

Regd. Office: Factory Address: C-49/2, TTC Industrial Area, Pawne, Plot No. V-23 MIDC, Taloja Navi Mumbai - 400 703, India. & Plot No. 1, Village: Chal Near Taloja Ind. Area. Near Taloja Ind. Area. Tal : Panvel, DET. : 310, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India O : (0832) 2437048 / 2437164 Tal : Panvel, Dist. Raigald sadekarenviro@rediffmail.com * Website www.sadekareh.iz + 91-22-65134444 / 27616666 Ph: **LAEPERATORY 21:53300/303 (754050) 01)** Patel Estate, Reis Magos, Verem, Alto, **Pd** Settin 100 - 10 Website : www.galaxysurfactants.com



Annexure-B (collectively) Sadekar Enviro Engineers Pvt. Ltd.

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

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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/	AA/GSL/2020/231		Date	17/09/2020		
Name of Client	M/s G	ALAXY SURFAC	TANTS LIN	IITED	State Science State		
Address of Client	Plot No	. V-23 & 01, MID	C Taloja, Tal.	Panvel, Dist. Ra	igad – 410208		
Sample collected by	AA Re	presentative					
Reference							
Date of sampling	09/09/2	2020	Sample Rec	eipt Date	10/09/2020		
Analysis Start Date	11/09/2	2020	Analysis Co	mplete Date	12/09/2020		
		DETAILS	S OF STACK				
Description		Unit		I	Result		
Stack No.					S-4		
Stack Attached To				Scrubber	No .1 (V-23)		
Shape				Round			
Diameter		M		0.6			
Height From Ground Leve	el	М		30			
Temperature		°C		42			
Velocity of Flue Gases		M/Sec			7.19		
Volume of Flue Gases		Nm³/Hr			6920		
Type of Fuel							
POLLUTION PARAME	TERS						
PARAMETERS		METHOD	UNIT	LIMIT	RESULT		
Total Particulate Matter	IS 1	255 (part I)-1985	mg/Nm	3 150	19.5		
Sulphur Di-Oxide	IS 12	55 (part II) - 1985	ppm	50	B.D.L (MDL <1)		
Oxide of Nitrogen	IS 11	255 (part 7)-2005	ppm	NA	1.69		
Carbon Dioxide		IS 307 :1966	mg/m ³	NA	0.15		
Acid Mist		EPA Method	ppm	NA	9.02		
NOTE: 1)The above resul	ts relate on	y to the condition	prevailing at t	he time of sampl	ing.		
3) RDL – Relow	Detectable I	imit					
57 <u>556</u> – <u>6</u> 60w		The Engliseens I		, in the second s	- 9		

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Report No	SEET/AA	/GSL/2020/240		Date	17/09/2020		
Name of Client	M/s GAL	AXY SURFAC	TANTS LIM	ITED	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Address of Client	Plot No. Y	V-23 & 01, MID	C Taloja, Tal.	Panvel, Dist. R.	aigad - 410208		
Sample collected by	AA Repre	esentative					
Reference							
Date of sampling	10/09/202	20	Sample Rece	ipt Date	11/09/2020		
Analysis Start Date	12/09/202	12/09/2020 A		nplete Date	13/09/2020		
		DETAILS	OF STACK				
Description	Unit]	Result		
Stack No.					S-5		
Stack Attached To				Scrubbe	No .2 (EOU)		
Shape				Round			
Diameter	M			0.6			
Height From Ground Leve	evel M			30			
Temperature		°C		44			
Velocity of Flue Gases		M/Sec		7.35			
Volume of Flue Gases		Nm ³ /Hr		7029			
Type of Fuel							
POLLUTION PARAME	TERS						
PARAMETERS	M	ETHOD	UNIT	LIMIT	RESULT		
Total Particulate Matter	IS 1125	5 (part I)-1985	mg/Nm ³	150	20.2		
Sulphur Di-Oxide	IS 1255	(part II) - 1985	ppm	50	B.D.L (MDL <1)		
Oxide of Nitrogen	IS 1125	5 (part 7)-2005	ppm	NA	B.D.L (MDL <1)		
Carbon Dioxide	IS	307 :1966	mg/m ³	NA	0.14		
Acid Mist	EP.	A Method	ppm	NA	7.96		
NOTE: 1) The above resu 2) The above resu 3) BDL – Below	lts relate only i lts relate only : Detectable Lin	to the condition j to the item tested hit.	prevailing at th I.	ne time of samp	ling.		



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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/A	SEET/AA/GSL/2020/236		Date	17/09/2020		
Name of Client	M/s GA	LAXY SURFAC	CTANTS LIN	AITED			
Address of Client	Plot No	. V-23 & 01, MID	C Taloja, Tal	. Panvel, Dist. Ra	aigad - 410 208		
Sample collected by	AA Rep	presentative					
Reference			1		1		
Date of sampling	10/09/2	020	Sample Rec	eipt Date	11/09/2020		
Analysis Start Date	12/09/2	020	Analysis Co	omplete Date	13/09/2020		
		DETAIL	S OF STACE	<			
Description		Unit]	Result		
Stack No.					S-6		
Stack Attached To				Scrubber	r No .3 (MED)		
Shape				Round			
Diameter		M		0.6			
Height From Ground Level	M			30			
Temperature		°C		43			
Velocity of Flue Gases		M/Sec		7.39			
Volume of Flue Gases		Nm³/Hr		7090			
Type of Fuel			08860				
POLLUTION PARAMET	FERS						
PARAMETERS		METHOD	UNIT	LIMIT	RESULT		
Total Particulate Matter	IS 11	255 (part I)-1985	mg/Nm	1 ³ 150	25.1		
Sulphur Di-Oxide	IS 125	55 (part II) - 1985	ppm	50	B.D.L (MDL <1)		
Oxide of Nitrogen	IS 11:	255 (part 7)-2005	ppm	NA	B.D.L (MDL <1)		
Carbon Dioxide	1	S 307 :1966	mg/m ³	NA	0.17		
Acid Mist	I	EPA Method	ppm	NA	9.24		
NOTE:1) The above results	relate only	to the condition	prevailing at t	he time of sampli	ing.		
2) The above result	s relate onl	y to the item teste	d.				
3) BDL – Below D	etectable L	imit.					

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ANALYSIS	REPORT	FOR	STACK	EMISSION
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Report No	SEET/A	A/GSL/2020/237	•	Date	17/09/2020			
Name of Client	M/s GA	LAXY SURFAC	TANTS LIN	AITED	and the second s			
Address of Client	Plot No	V-23 & 01. MID	C Taloia, Tal	. Panvel. Dist. R	aigad - 410208			
Sample collected by	AA Rep	resentative	,					
Reference								
Date of sampling	11/09/2	020	Sample Rec	eipt Date	12/09/2020			
Analysis Start Date	13/09/2	2020 Analysis Complete Da		omplete Date	14/09/2020			
		DETAIL	S OF STACE	<				
Description	Unit				Result			
Stack No.					S-1			
Stack Attached To				Oil Fire Boiler No.1 (2.5 TPH)				
Shape				Round				
Diameter		М			0.8			
Height From Ground Level		М		33.3				
Temperature		°C		179				
Velocity of Flue Gases		M/Sec		9.22				
Volume of Flue Gases		Nm ³ /Hr		10994				
Type of Fuel		Kg/Hr.		179				
POLLUTION PARAMET	TERS							
PARAMETERS		METHOD	UNIT	LIMIT	RESULT			
Total Particulate Matter	IS 11	255 (part I)-1985	mg/Nn	n ³ 150	68.2			
Sulphur Di-Oxide	IS 125	55 (part II) - 1985	kg/day	86.4	12.3			
Oxide of Nitrogen	IS 11	255 (part 7)-2005	ppm		9.04			
Carbon Dioxide	1	S 307 :1966	mg/m	3	0.28			
Sulphur Content			%	4.5	0.0017			
NOTE:1)The above results	relate only	to the condition p	prevailing at t	he time of sampl	ling.			
2) The above result	a relate offi	j to the north toste						

3) BDL - Below Detectable Limit



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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/GSL/202	0/238	I	Date	17/09/2020		
Name of Client	M/s GALAXY SUF	RFACTA	NTS LIMI	IS LIMITED			
Address of Client	Plot No. V-23 & 01,	MIDC T	`aloja, Tal. F	oja, Tal. Panvel, Dist. Raigad – 410208			
Sample collected by	AA Representative						
Reference							
Date of sampling	11/09/2020	11/09/2020 Sa		pt Date	12/09/2020		
Analysis Start Date	13/09/2020	13/09/2020 A		plete Date	14/09/2020		
	DET	AILS O	F STACK				
Description	Unit			l	Result		
Stack No.			-	S-1			
Stack Attached To			Oil Fire Boiler No. 2(2.5 TPH)				
Shape			Round				
Diameter	M		0.8				
Height From Ground Level	M		33.3				
Temperature	°C		180				
Velocity of Flue Gases	M/Sec	с	9.43				
Volume of Flue Gases	Nm³/H	łr	11219				
Type of Fuel	Kg/Hi		F.O./L.D.O				
POLLUTION PARAMET	ERS						
PARAMETERS	METHOD		UNIT	LIMIT	RESULT		
Total Particulate Matter	IS 11255 (part I)-	1985	mg/Nm ³	150	70.2		
Sulphur Di-Oxide	IS 1255 (part II) -	1985	kg/day	86.4	13.6		
Oxide of Nitrogen	IS 11255 (part 7)-	2005	ppm		9.15		
Carbon Dioxide	IS 307 :1966		mg/m ³		0.29		
Sulphur Content			%	4.5	0.0019		

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

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

3) BDL - Below Detectable Limit



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Report No	SEET/A	A/GSL/2020/233		Date	17/09/2020			
Name of Client	M/s GA	LAXY SURFAC	TANTS LIM	IITED				
Address of Client	Plot No	. V-23 & 01, MID	C Taloja, Tal.	Panvel, Dist. R	aigad – 410208			
Sample collected by	AA Rep	oresentative						
Reference								
Date of sampling	09/09/2	09/09/2020 Sa		eipt Date	10/09/2020			
Analysis Start Date	11/09/2	020	Analysis Co	mplete Date	12/09/2020			
		DETAILS	OF STACK					
Description Unit				Result				
Stack No.					S-2			
Stack Attached To	k Attached To			Coal Fire Boiler (5TPH) Cyclone Separator + Bag Filter				
Shape					Round			
Diameter	M			*****	0.4			
Height From Ground Level		М		35.0				
Temperature		°C		185				
Velocity of Flue Gases		M/Sec		9.49				
Volume of Flue Gases		Nm³/Hr		2792				
Type of Fuel		Kg/Hr.		Coal				
POLLUTION PARAME	FERS							
PARAMETERS		METHOD	UNIT	LIMIT	RESULT			
Total Particulate Matter	IS 11	255 (part I)-1985	mg/Nm	150	98.5			
Sulphur Di-Oxide	IS 125	55 (part II) - 1985	kg/day	12.0	7.16			
Oxide of Nitrogen	IS 11	255 (part 7)-2005	ppm		B.D.L			
Carbon Dioxide	I	S 307 :1966	mg/m ³		0.25			
Sulphates	1	EPA Method	ppm	N.A.	1.02			
Chloride	EPA	A-26 A Method	mg/Nm ²	N.A.	0.04			
Sulphur Content			%	0.5	0.0040			

3) BDL - Below Detectable Limit.



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Report No	SEET/A	A/GSL/2020/234		Date	17/09/2020		
Name of Client	M/s GA	LAXY SURFAC	TANTS LIM	ITED			
Address of Client	Plot No	. V-23 & 01, MID	C Taloja, Tal.	Panvel, Dist. R	aigad - 410208		
Sample collected by	AA Rep	presentative					
Reference							
Date of sampling	10/09/2	10/09/2020		ipt Date	11/09/2020		
Analysis Start Date	12/09/2	12/09/2020 A		nplete Date	13/09/2020		
		DETAILS	OF STACK				
Description Unit				Result			
Stack No.					S-3		
Stack Attached To				Thermopac Boiler (EOU)			
Shape					Round		
Diameter		M			0.4		
Height From Ground Leve		<u>M</u>		30.25			
l'emperature		⁰ C		178			
Velocity of Flue Gases		M/Sec		9.60			
Volume of Flue Gases		Nm³/Hr			2868		
l'ype of Fuel		Kg/Hr.			F.O		
POLLUTION PARAME	FERS						
PARAMETERS		METHOD	UNIT	LIMIT	RESULT		
Total Particulate Matter	IS 11	255 (part I)-1985	mg/Nm ³	150	82.4		
Sulphur Di-Oxide	IS 125	55 (part II) – 1985	kg/day	155.52	6.98		
Oxide of Nitrogen	IS 11	255 (part 7)-2005	ppm		4.76		
Carbon Dioxide	1	S 307 :1966	mg/m ³		0.29		
Sulphur Content			%	4.5	0.0038		



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SAVE WATER SAVE UPE

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Report No	SEET/A	A/GSL/2020/235		Date	17/09/2020		
Name of Client	M/s GA	LAXY SURFAC	TANTS LIM	ITED			
Address of Client	Plot No	. V-23 & 01, MID	C Taloja, Tal.	Panvel, Dist. Ra	igad - 410208		
Sample collected by	AA Rep	presentative					
Reference							
Date of sampling	10/09/2	020	Sample Rece	ipt Date	11/09/2020		
Analysis Start Date	12/09/2	020	Analysis Co	nplete Date	13/09/2020		
		DETAILS	OF STACK				
Description	scription Unit		1	I	Result		
Stack No.					S-8		
Attached To				D.G. Se	t 1000 KVA		
Shape				Ι	Round		
Diameter	M				0.8		
Height From Ground Leve	evel M			33			
Temperature	D ₀ C			190			
Velocity of Flue Gases	s M/Sec			10.10			
Volume of Flue Gases		Nm ³ /Hr		11757			
Type of Fuel		Kg/Hr.		H.S.D			
POLLUTION PARAME	TERS						
PARAMETERS		METHOD	UNIT	LIMIT	RESULT		
Total Particulate Matter	IS 11	255 (part I)-1985	mg/Nm	150	46.3		
Sulphur Di-Oxide	IS 125	55 (part II) - 1985	kg/day	81.6	07.50		
Oxide of Nitrogen	IS 11	255 (part 7)-2005	ppm	NA	4.62		
Carbon Dioxide	I	S 307 :1966	mg/m ³	NA	0.18		
Sulphur Content			%	1.0	0.0010		
2) The above result 3) BDL – Below D	ts relate only Detectable Li	y to the item tested	l.	Author	rized by		



BRANCH OFF. : 310, Dempo Towers, EDC Patto, Panaji-403 001. Goa State, India ∅ : (0832) 2437046 / 2437164 E-mail : sadekarenviro@rediffmail.com + Website : www.sadekarenviro.com

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



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

SAVE UPE

SAVE WATER

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Reportino	SEET/A	A/GSL/2020/232	D	ate	17/09/2020			
Name of Client	M/s GA	LAXY SURFAC	TANTS LIMIT	ANTS LIMITED				
Address of Client	Plot No	. V-23 & 01, MID	C Taloja, Tal. Pa	Taloja, Tal. Panyel, Dist. Raigad - 410208				
Sample collected by	AA Rep	oresentative						
Reference								
Date of sampling	10/09/2	020	Sample Receip	t Date	11/09/2020			
Analysis Start Date	12/09/2	12/09/2020		lete Date	13/09/2020			
		DETAILS	S OF STACK					
Description		Unit		l	Result			
Stack No.					S-7			
Stack Attached To				D.G. Set	1.9 MW (EOU)			
Shape				Round				
Diameter	M			0.8				
Height From Ground Leve	Ground Level M				45			
Temperature	°C				198			
Velocity of Flue Gases	M/Sec				11.08			
Volume of Flue Gases		Nm³/Hr			12679			
Type of Fuel		Kg/Hr.		F.O				
POLLUTION PARAME	TERS							
PARAMETERS		METHOD	UNIT	LIMIT	RESULT			
Total Particulate Matter	IS 11	255 (part I)-1985	mg/Nm ³	150	43.9			
Sulphur Di-Oxide	IS 12:	55 (part II) - 1985	kg/day	810	13.3			
Oxide of Nitrogen	IS 11	255 (part 7)-2005	ppm	NA	5.90			
Carbon Dioxide		IS 307 :1966	mg/m ³	NA	0.26			
Sulphur Content			%	4.5	0.0016			



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



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V Environmental Audit Report for the financia	I Year ending the 31st March 2020	
Unique Application Number MPCB-ENVIRONMENT_STATEMENT-0000027040		Submitted Date 23-09-2020
Company Information		
<i>Company Name</i> Galaxy Surfactants Limited	Application UAN number UAN No.0000085185	
Address V-23 & Plot No.1, MIDC Taloja, Tal. Panvel, Dist. Raigad		
Plot no V-23 & 01	Taluka Panvel	Village Chal
Capital Investment (In lakhs) 31615.24	Scale LSI	City Panvel
Pincode 410208	Person Name Mr. Seshu	Designation Head Conversion
Telephone Number 39215300	Fax Number 27411701	Email seshu@galaxysurfactants.com
Region SRO-Taloja	Industry Category Red	Industry Type other
Last Environmental statement submitted online	Consent Number	Consent Issue Date
yes	FORMAT1.0/CAC/UAN No.0000085185/CR-2007000092	01/07/2020

Consent Valid Upto

28/02/2022

Product Information			
Product Name	Consent Quantity	Actual Quantity	υом
Anionic surfactants (on 100% AM basis) such as Fatty Alcohol Sulphate, Fatty Alcohol ether sulphates etc.	85680	62958	MT/A
Ethylene Oxide Condensate	60000	37708	MT/A
Cationic Surfactants (on 100% AM basis) such as Betaine, Quaternary Ammonium Salts etc.	18240	6129	MT/A
Sulphosuccinates	720	0	MT/A
Surfactant blends (on 100% AM basis) such as Syndet Soap- Granules/Noodles, Sparkle series etc.	15840	1201	MT/A
Fatty Acid Esters, Fatty alkanol amides and esterquats	20400	6492	MT/A

By-product Information			
By Product Name	Consent Quantity	Actual Quantity	UOM
Conc. Sulphuric Acid	1584	682	MT/A
Sodium Sulphate 20-25 % solution , Solids 37.5 MT/ M	2160	325	MT/A

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

1) Effluent Generation in CMD / MLD			
Particulars	Consent Quantity	Actual Quantity	UOM
Trade Effluent	184.00	161.00	CMD
Domestic Effluent	60.00	30.00	CMD

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

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

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

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

Citric Acid		295.90	MT/A
Cetostearyl Alcohol		180.80	MT/A
4) Fuel Consumption			
Fuel Name	Consent quantity	Actual Quantity	UOM
Coal	6570	3519.319	MT/A
FO	4266.12	209.269	MT/A
HSD	1489.2	2.006	KL/A

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

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons		
	Quantity	Concentration	%variation	Standard	Reason
рН		7.14	16.0	6.0 - 8.5	Within MPCB norms
BOD		<1.0	94	100	Within MPCB norms
COD		10.66	95.73	250	Within MPCB norms
Oil & Grease		<0.2	98	10	Within MPCB norms
Suspended Solids		27	73	100	Within MPCB norms
Total Suspended Solids		82.66	96.06	2100	Within MPCB norms
Sulphates		12.65	98.73	1000	Within MPCB norms
Chlorides	-	11.76	98.04	600	Within MPCB norms
Total Ammonical Nitrogen		<0.1	99.80	50	Within MPCB norms
Total Kjeldhal Nitrogen		<0.5	99.50	100	Within MPCB norms
Sodium		<1.0	98.33	60%	Within MPCB norms
Free Ammonia		<0.1	99.80	100	Within MPCB norms

[B] Air (Stack)	
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Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons		
	Quantity	Concentration	%variation	Standard	Reason
TPM - (S-6 MED)		28.2	81.20	150	Within MPCB norms
SO2 - (S-6 MED)	<1.0		98.0	50	Within MPCB norms
TPM - (S1 2.5 TPH)		98.6	34.26	150	Within MPCB norms
SO2 - (S1 2.5 TPH)	8.62		90.02	86.4	Within MPCB norms
TPM - (S2 5 TPH)		108.3	27.8	150	Within MPCB norms
SO2- (S2 5 TPH)	6.74		43.83	12.0	Within MPCB norms
TPM- (Thermopac)		99.3	33.80	150	Within MPCB norms
TPM- (SO2)	5.12		96.71	155.82	Within MPCB norms
TPM- (V-23 Scrubber No.1)		20.8	86.13	150	Within MPCB norms
SO2- (V-23 Scrubber No.1)	<1.0		98.0	50	Within MPCB norms

	30.5	79.66	150	Within MPCB norms
<1.0		98.0	150	Within MPCB norms
	46.3	69.13	150	Within MPCB norms
5.04		99.37	810	Within MPCB norms
	44.50	70.33	150	Within MPCB norms
4.56		94.41	81.6	Within MPCB norms
	 <1.0 5.04 4.56	30.5 <1.0	30.5 79.66 <1.0	30.579.66150<1.0

HAZARDOUS WASTES

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

2) From Pollution Control Facilities			
Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
35.1 Exhaust Air or Gas cleaning residue	65.81	71.02	MT/A
35.3 Chemical sludge from waste water treatment	68.29	80.78	MT/A

SOLID WASTES 1) From Process

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

2) From Pollution Control Facilities			
Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Boiler Ash (Coal Fired boiler)	0.26108	0.25124	MT/A

3) Quantity Recycled or Re-utilized within the			
unit			
Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	NA	NA	CMD

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

1) Hazardous Waste			
Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	1.37	MT/A	Disposed to MWML
1.6 Spent catalyst and molecular sieves	0.29	MT/A	Disposed to MWML
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	19.21	MT/A	Disposed to MWML
33.2 Contaminated cotton rags or other cleaning materials	0.03	MT/A	Disposed to MWML
5.2 Wastes or residues containing oil	0.940	MT/A	Disposed to MWML
35.1 Exhaust Air or Gas cleaning residue	71.02	MT/A	Disposed to MWML
35.3 Chemical sludge from waste water treatment	80.78	MT/A	Disposed to MWML

2) Solid Waste

Type of Solid Waste Generated Waste Paper/ paper bags	Qty of Solid Waste 23.70	ИОМ МТ/А	Concentration of Solid Waste 100% Sale to authorized party
Corrugated Box	0.0	MT/A	NA
Broken Glass/Non-contaminated Plastic	1.12	MT/A	100% Sale to authorized party
Used decontaminated drums	2458	Nos./Y	100% Sale to authorized party
Plastic/HDPE decontaminated bags	23500	Nos./Y	100% Sale to authorized party
Flexi bags	1450	Nos./Y	100% Sale to authorized party
Filter elements	0.0	Nos./Y	NA
Wooden scrap	11.80	MT/A	100% Sale to authorized party
Boiler Ash (Coal Fired boiler)	0.25124	MT/A	100% Sale to authorized party

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

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

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.[A] Investment made during the period of EnvironmentalStatementDetail of measures for Environmental ProtectionEnvironmental ProtectionCapital Investment

	Measures	(Lacks)
NA	NA	NA
[B] Investment Proposed for next Year		
Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)

NA

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

NA

Particulars

NA

Planted 100 trees in plant premises

Name & Designation

Mr. Seshu, Head Conversion



Form 4 See rules 6(5),13(8),16(6) and 20(2) of Hazardous and other wastes 2016

FORM FOR FILING ANNUAL RETURNS

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

Unique Application Number	r:		Submitted On:	
MPCB-HW_ANNUAL_RETURN-0	000014561		23-06-2020	
Submitted for Year: April 2019 to March 2020				
1. Name of the generator/o	perator of facility		Address of the unit/facility	
Galaxy Surfactants Ltd.			Galaxy Surfactants Ltd., Plot No. V-23, MIDC Taloja and Plot No. 1, Village Chal, Tal. Panvel, Dist.Raigad PIN no:- 410208	
1b. Authorization Number			Date of issue	Date of validity of consent
Format 1.0/BO/CAC-cell/UAN N 29/11/2018	o. 0000039617/5th CAC	-1811001366 dated	Nov 29, 2018	Feb 28, 2020
2. Name of the authorised	person		Full address of authorised person	
Avinash Shinde			Plot No. V-23, MIDC Taloja and Plot No. 1, Village Chal, Tal. Panvel, Dist.Raigad PIN no:- 410208	
Telephone	Fax	Email		

Telephone	Fax	Email
02239215300	02227411702	avinash.shinde@galaxysurfactants.com

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

Product Type *	Product Name *	Consented Quantity	Actual Quantity	UOM
Chemical ,Petrochemical &Electrochemical	Anionic surfactsnts (on 100% AM basis) such as Fatty Alcohol sulphate, Fatty Alcohol Ether Sulphate etc.	85680.00	62958	MT/A
Chemical ,Petrochemical &Electrochemical	Ethylene Oxide Condensate	60000.00	37708	MT/A
Chemical ,Petrochemical &Electrochemical	Cationic Surfactants (on 100% AM basis) such as Betaine, Quaternary Ammonium Salts etc.	18240.00	6129	MT/A
Chemical ,Petrochemical &Electrochemical	Sulphosuccinates	720.00	0	MT/A
Chemical ,Petrochemical &Electrochemical	Surfactant blends (on 100% AM basis) such as Syndet Soap- Granules/Noodles, Sparkle series etc.	15840.00	1201	MT/A
Chemical ,Petrochemical &Electrochemical	Fatty Acid Esters, Fatty alkanol amides and esterquats.	20400.00	6492	MT/A
Chemical ,Petrochemical &Electrochemical	Concentrated Sulphuric Acid (By Product)	1584.00	682	MT/A
Chemical ,Petrochemical &Electrochemical	Sodium Sulphate 20-25 % solution ,Solids 37.5 MT/ M (By Product)	2160.00	325	MT/A

PART A: To be filled by hazardous waste generators

1. Total Quantity of waste generated category wise

Type of hazardous waste	Wate Name	Consented Quantity	Quantity	UOM
1.6 Spent catalyst and molecular sieves	Spent Catalyst	6.00	0.29	MTA
5.1 Used or spent oil	Used/ Spent oil	6.00	1.37	MTA
5.2 Wastes or residues containing oil	Wastes/Residues containing oil	1.00	0.94	MTA
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	Discarded containers/barrels/liners	24.00	19.21	MTA
33.2 Contaminated cotton rags or other cleaning materials	Cotton Waste (Residues & Wastes)	1.00	0.03	MTA
35.3 Chemical sludge from waste water treatment	Chemical sludge from waste treatment plant	108.00	80.78	MTA
35.1 Exhaust Air or Gas cleaning residue	Flue gas cleaning residue	1180.80	71.02	MTA
2. Quantity dispatched category wise.				
Type of Waste	Quantity of waste	ИОМ	Dispatched to	Facility Name
1.6 Spent catalyst and molecular sieves	0.29	ΜΤΑ	Disposal Facility	Mumbai waste management Ltd
5.1 Used or spent oil	1.37	MTA	Disposal Facility	Mumbai waste management Ltd
5.2 Wastes or residues containing oil	0.94	ΜΤΑ	Disposal Facility	Mumbai waste management Ltd
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	19.21	MTA	Disposal Facility	Mumbai waste management Ltd
33.2 Contaminated cotton rags or other cleaning materials	0.03	ΜΤΑ	Disposal Facility	Mumbai waste management Ltd
35.3 Chemical sludge from waste water treatment	80.78	ΜΤΑ	Disposal Facility	Mumbai waste management Ltd
35.1 Exhaust Air or Gas cleaning residue	71.02	ΜΤΑ	Disposal Facility	Mumbai waste management Ltd
3. Quantity Utilised in-house, If any				
Type of Waste	Name of Waste	Quantity of Waste	UOM	
	NA	0	KL/Anum	
4. Quantity in storage at the end of the year	ar			
Type of Waste	Name of Waste	Quantity of Waste	UOM	

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

NA

1.Total Quantity received NA	UOM KL/Anum	State Name Maharashtra
2. Quantity in stock at the beginning of the year NA	UOM KL/Anum	
<i>3. Quantity treated</i> NA	UOM KL/Anum	
4. Quantity disposed in landfills as such and after treatment		

0

Direct landfilling

KL/Anum

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

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

1. Quantity of waste received during the year

Waste Name/Category	Country Name	State Name	Quantity of v domestic sou	vaste received from Irces	Quantity of waste imported(If any)	Units
NA	India	Maharashtra	NA		NA	KL/Anum
2. Quantity in stock at the	beginning of the	year				
Waste Name/Category NA			Quantity NA	U K	I OM L/Anum	
3. Quantity of waste recyc	cled or co-procese	d or used				
Name of Waste NA	τ y ΝΑ	pe of Waste		Quantity NA	UOM KL/Anum	
4. Quantity of products di	spatched (wherev	er applicable)				
Name of product NA		Quantity NA		UOM KL/Anum		
5. Total quantity of waste	generated					
Waste name/category NA		quantity NA		UOM KL/Anum		
6. Total quantity of waste	disposed					
Waste name/category NA		quantity NA		UOM KL/Anum		
7. Total quantity of waste	re-exported (If Ap	plicable)				
Waste name/category NA		quantity NA		UOM KL/Anum		
8. Quantity in storage at t	he end of the yea	r				
Waste name/category NA		quantity NA		UOM KL/Anum		
Personal Details						
Place Taloja		Date 2020-06-23	3	Designation Sr. Manager-SHE/Ins	strumentaion process	