



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

Environmental Audit Report for the financial Year ending the 31st March 2019

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000020951

### Submitted Date

28-09-2019

### Company Information

#### Company Name

Galaxy Surfactants Limited

#### Application UAN number

0000039617

#### Address

Galaxy Surfactants Limited, V-23, MIDC Taloja,  
Tal. Panvel, Dist. Raigad

#### Plot no

Plot No. V-23 MIDC Taloja & Plot No.1 Village Chal

#### Taluka

Panvel

#### Village

Chal

#### Capital Investment (In lakhs)

29264

#### Scale

Large

#### City

Panvel

#### Pincode

410208

#### Person Name

Mr. Seshu

#### Designation

Head Conversion

#### Telephone Number

39215300

#### Fax Number

27411701

#### Email

seshu@galaxysurfactants.com

#### Region

SRO-Taloja

#### Industry Category

Red

#### Industry Type

other

#### Last Environmental statement submitted online

yes

#### Consent Number

Formate1.0/BO/CAC-Cell/UAN No  
0000039617/5thCAC-1811001366

#### Consent Issue Date

29/11/2018

#### Consent Valid Upto

28/02/2020

### Product Information

#### Product Name

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

#### Consent Quantity

85680

#### Actual Quantity

69930

#### UOM

MT/A

Ethylene Oxide Condensate

60000

38651

MT/A

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

18240

5836

MT/A

Sulphosuccinates

720

0

MT/A

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

15840

869

MT/A

Fatty Acid Esters, Fatty alkanol amides and esterquats.

20400

6213

MT/A

### By-product Information

#### By Product Name

Conc. Sulphuric Acid

#### Consent Quantity

1584

#### Actual Quantity

705

#### UOM

MT/A

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

2160

333

MT/A

### 1) Water Consumption in m3/day

<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>
<b>Cooling</b>	330	262.44
<b>Domestic</b>	395	314.13
<b>All others</b>	40	31.81
<b>Total</b>	20	15.91
	785	624.29

### 1) Effluent Generation in CMD / MLD

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Daily quantity of trade effluent from the factory	184	167.3	CMD
Daily quantity of aewage effluent from the factory	30	16.5	CMD

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

<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Anionic surfactants (on 100% AM basis) such as Fatty Alcohol Sulphate, Fatty Alcohol ether sulphates etc.	1.44	2.26	KL/A
Ethylene Oxide Condensate	0.76	0.79	KL/A
Cationic Surfactants (on 100% AM basis) such as Betaine, Quaternary Ammonium Salts etc.	0.10	5.14	KL/A
Sulphosuccinates	0.0	0.0	KL/A
Surfactant blends (on 100% AM basis) such as Syndet Soap- Granules/Noodles, Sparkle series etc.	0.02	1.31	KL/A
Fatty Acid Esters, Fatty alkanol amides and esterquats.	0.13	0.49	KL/A

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

<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Ethylene Oxide	0.251	0.247	MT/A
Caustic lye	0.287	0.289	MT/A
Fatty Alcohol	0.656	0.701	MT/A
Sulphur	0.105	0.106	MT/A
HCFA	0.739	0.509	MT/A
DMAPA	0.260	0.258	MT/A
MCA	0.243	0.242	MT/A
MEA	0.172	0.153	MT/A
MEG	0.033	0.04	MT/A
Stearic Acid	0.284	0.352	MT/A
Fatty Alcohol Ethoxylates	0.028	0.024	MT/A
Hydrogen Peroxide	0.001	0.001	MT/A
Diethyl Lauryl Amine	0.028	0.005	MT/A
Starch/Maltodextrin	0.037	0.018	MT/A

Citric acid	0.004	0.004	MT/A
Cetostearyl Alcohol	0.143	0.144	MT/A

#### 4) Fuel Consumption

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
FO & HFO	4266.12	8.07	MT/A
COAL	6570	3737	MT/A
HSD	1489.2	4.298	KL/A

#### 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	NA	7.26	14.58%	6.0 to 8.5	Within MPCB Limit
Suspended Solids	0.59	8	92.00%	100mg/L	Within MPCB Limit
Total Dissolved Solids	14.72	200.45	90.45%	2100mg/L	Within MPCB Limit
Chemical Oxygen Demand	2.06	28.00	88.80%	250mg/L	Within MPCB Limit
Biological Oxygen Demand	0.32	4.36	95.64%	100mg/L	Within MPCB Limit
Oil & Grease	Below Detectable Limit	<4	-	10mg/L	Within MPCB Limit
Chloride	1.31	17.91	97.02%	600mg/L	Within MPCB Limit
Sulphate	1.75	23.88	97.61%	1000mg/L	Within MPCB Limit
Total Ammonical Nitrogen	0.05	0.70	98.61%	50mg/L	Within MPCB Limit
Sodium	0.00	0.02	99.97%	60%	Within MPCB Limit
Free Ammonia	0.06	0.86	99.14%	100mg/L	Within MPCB Limit
Total Kjeldhal Nitrogen	0.18	2.46	97.54%	100mg/L	Within MPCB Limit

##### [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 (Boiler 1- 2.5 TPH)	32.95	117.52	78.35	150 mg/ Nm3	Within MPCB limit
SO2 (Boiler 1- 2.5 TPH)	6.89	6.89	7.97	86.4 Kg/Day	Within MPCB Limit
TPM (Boiler II - 5 TPH)	8.55	125.18	83.45	150 mg/ Nm3	Within MPCB Limit
SO2 (Boiler II - 5 TPH)	7.64	7.64	63.66	12 Kg/Day	Within MPCB Limit
TPM (DG Set - 1.9 MW)	12.57	43.91	29.27	150 mg/ Nm3	Within MPCB Limit
SO2 (DG Set - 1.9 MW)	4.37	4.37	0.53	810 Kg/Day	Within MPCB Limit
TPM (DG Set - 1000 KVA)	14.13	49.36	32.90	150 mg/ Nm3	Within MPCB Limit
SO2 (DG Set - 1000 KVA)	3.80	3.80	04.65	81.6 Kg/Day	Within MPCB Limit
TPM (V-23 Sulfonation)	3.83	22.12	14.74	150 mg/ Nm3	Within MPCB Limit

SO2 (V-23 Sulfonation)	-	BDL	-	50 ppm	Within MPCB Limit
TPM (EOU Sulfonation)	4.98	29.25	19.5	150 mg/ Nm3	Within MPCB Limit
SO2 (EOU Sulfonation)	-	BDL	-	50 ppm	Within MPCB Limit
TPM (MED Sulfonation)	4.21	26.34	17.56	150 mg/ Nm3	Within MPCB Limit
SO2 (MED Sulfonation)	-	BDL	-	50 ppm	Within MPCB Limit

## **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>
35.1 Exhaust Air or Gas cleaning residue	69.89	65.81	MT/A
5.1 Used or spent oil	3.34	1.71	MT/A
1.6 Spent catalyst and molecular sieves	1.01	0.61	MT/A
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	0	16.62	MT/A
5.2 Wastes or residues containing oil	0	0	MT/A
33.2 Contaminated cotton rags or other cleaning materials	0	0	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>
35.3 Chemical sludge from waste water treatment	32.09	68.29	MT/A

## **SOLID WASTES**

### **1) From Process**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
Waste Paper/Paper Bags	23500	23912	Kg/Annum
Corrugated Box	00	0	Kg/Annum
Broken Glass/Non-Contaminated Plastic	1130	1124	Kg/Annum
Used Decontaminated Drums	3269	3434	Nos./Y
Plastic/HDPE decontaminated Bags	23940	23862	Nos./Y
Boiler Ash (Coal fire Boiler)	239.6	261.08	Kg/Annum
Flexi Bags	1561	1758	Nos./Y
Filter Elements	00	0	Nos./Y
Wooden Scrap	11480	11931	Kg/Annum

### **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	00	00	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	00	00	MT/A

**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
35.1 Exhaust Air or Gas cleaning residue	65.81	MT/A	100% Handover to MWML
5.1 Used or spent oil	1.71	MT/A	100% Handover to Authorized Agency
1.6 Spent catalyst and molecular sieves	0.61	MT/A	100% Handover to MWML
35.3 Chemical sludge from waste water treatment	68.29	MT/A	100% Handover to MWML
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	16.62	MT/A	100% Handover to MWML
5.2 Wastes or residues containing oil	0	MT/A	100% Handover to MWML
32.2 Corrosive wastes arising from use of strong acid and bases	0	MT/A	100% Handover to MWML

## 2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Waste Paper/Paper Bags	23500	Kg/Annum	100% Sale to authorized party
Corrugated Box	00	Kg/Annum	100% Sale to authorized party
Broken Glass/Non-contaminated Plastic	1130	Kg/Annum	100% Sale to authorized party
Used Contaminated drums	3269	Nos./Y	100% Sale to authorized party
Plastic/HDPE Decontaminated Bags	23940	Nos./Y	100% Sale to authorized party
Boiler Ash (Coal Fire Boiler)	239.6	MT/A	100% Sale to authorized party
Flexi Bags	1561	Nos./Y	100% Sale to authorized party
Filter Elements	0	Nos./Y	100% Sale to authorized party
Wooden Scrap	11480	Kg/Annum	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	106	-	-	195873	-	-

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

### [A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Overhead Effluent Transfer System	Efficient wastewater transfer system	150
MEE Plant	Water will be recycled	380

### [B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
-	-	250

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

### Particulars

Planted 150 trees in plant premises

**Name & Designation**

Mr. Seshu, Head Conversion