STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

SEIAA-2016/CR 05/TC 3
Environment department,
Room No. 217, 2nd floor,
Mantralaya Annexe,
Mumbai 400-032
Date: 19 May, 2016.

To, M/s. Galaxy Surfactants Ltd. C-49/2, TTC Industrial Area, Pawne, Navi Mumbai- 400 703

Subject: - Environment clearance for Modernization in production of surfactant & speciality chemicals at existing Plot No.V-23 & Plot No.1, MIDC Taloja, Dist.Raigad by M/s. Galaxy Surfactants Ltd.

Reference- Even number environment clearance letter dated 8th April, 2015.

Sir,

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This has reference to your communication on the above mentioned subject.

- 2. It is noted that, the proposal earlier considered by SEIAA in its 83rd meeting & decided to accord grant of EC to the project. Accordingly EC has been issued to the project vide letter dated 8th April, 2015.
- 3. Project information from documents submitted by you & considered by SEAC & SEIAA was summarized in even number environment clearance letter dated 8th April, 2015. It is noted that amended information submitted by PP and same appraised by SEAC-I in its 96th meeting are as below-

1	Name of project	M/s Galaxy Surfactants Ltd. Proposed Project of surfactants & Specialty chemicals Manufacturing
2	Project Proponent	M/s Galaxy Surfactants Ltd.
5	New project/expansion in existing project/modernization/d iversification in	Modernization

	existing project	
	SELAA-2016/CR-04/	
6	If expansion/ diversification, whether environmental clearance has been obtained for existing project (If yes enclose a copy with compliance table)	Yes
7	Activity schedule in the EIA Notification	5(f) B, B-2
8	Area Details	Total plot area : 77,802 Sq. M Build up area : 36,404 Sq. M Green Belt Area : 4,080 Sq. M
9.	Name of the Notified Industrial Area/ MIDC area	MIDC Taloja, Taluka – Panvel, Dist- Raigad, Maharashtra
10.	TOR given by SEAC? (If yes then specify the meeting)	No No
11.	Estimated capital cost of the project (Including cost for land, building, plant and machinery separately)	Zero Investment
12.	Location details of the project:	 Latitude: 19° 07′N Longitude: 73° 11′E Location: Plot No.V-23 & Plot No.1, MIDC Taloja, Taluka – Panvel, Dist-Raigad Elevation above mean sea level meters: 25 m
13.	Distance from protected areas/ critically polluted areas/ Eco Sensitive area/ inter- state boundaries	Not Applicable

14.	Raw materials (including pro chemicals, cat additives)	cess	Please refer Table	Below			
No	7.		K		erial QTY Nature MT/M (Solid/ liquid)		Means of transportation (Source to storage site) with justification
1	Fatty Alcohol	1810	Liquid	Local	Manufacturers /		
2	Sulphur	140	Bright Yellow Granules	Local	traders in Mumbai, Gujarat		
3	Caustic Soda Lye/Potash lye	444	Liquid	Local	By road in tankers / trucks		
4	Ethylene Oxide	742	Liquid	Local	u ucks		
5	Mono Ethanol Amine	67	Liquid	Local	MicA sout a		
6	SCI 60 % (Sodium Cocoyl Isethionate)	120	Liquid	Local	Maria Maria		
7	Sodium Isethionate	15	Liquid	Local	leney .		
8	Sodium/Ammon ium Bi-sulphate	3	Solid	Local	ENTRACTOR AND		
9	DMAPA	71	Liquid	Loca!			
10	Mono Chloro Acetic Acid	73	Solid Flakes	Imp/Local	gainess alle		
1	Fatty acids	512	Liquid	Imp	missions; is		
	MEG (Mono Ethylene Glycol)	MEG (Mono 30 Liquid Ethylene		Local	Toponio Pi		
	Cetostearyl Alcohol	44	Flakes	Local	figure shot		
4	Starch	66	Solid	Local			
	Fotal	4137	191	1.3			
	Production Details	s Ple	ease Refer Below T	able	inia and		
			Existing	Proposed			

Si		Name of the Product			Production Quantity (MT/Month)	additional production Quantity for Environmenta I Clearance (MT/Month)	Production Quantity (Existing + Proposed additional) (MT/Month)	
1		MCCC CONTROL OF CONTRO	n as F Fatty A	on 100% AM Fatty Alcohol Alcohol ether		1190	7140	
2	2	Ethylene Ox	ide Conc	lensate	3500	1500	5000	
3			as Betai	(on 100% AM ns, Quaternary	1267	253	1520	
4	1	Sulphosucci	nates	FIELE	50	10	60	
5	5	Surfactant b basis) such a Granules/No etc.	s Syndet		1100	220	1320	
6	5	Fatty Acid amides and		Fatty alkanol	1416	284	1700	
7	7	Conc. Sulph	uric Acid	l (By Product)	110	22	132	
8	}			-25 % solution (By Product)	150	30	180	
		Total		lists I	13543	3509	17052	
16.		Process deta manufacturi details		Please refer	prefeasibility r	eport	Scaling of all	
17		Rain water Harvesting	(RWH)	(All details like recharge pits, storage tank capacity etc Not recommended for a chemical factory. Total water Requirement: 785 KLD				
18.		Total Water Requiremen						
	Water Consumption				Existing Effluent	Additional Reqd. For Modernization	New Proposal Effluent	
	Industrial cooling & Boiler		725	541	184	Nil	Nil	
		Industrial processing	123	341	=3 m/A = n	all plans	esterania i	

no

	Domestic	40	10	30		Nil	Nil
	Gardening	ening 20 20		Nil		Nil	
	Total	785	571	214	1	Nil	Nil
9.	Storm widrainage		MIDC stor	m water dra	in available	by the side of	of plot.
0.	Sewage g	generation ment	ProtanlCap	followed by	ent for the s y Soak pit is (CMD): Se	ewage: Well available. parate STP i	MD l-designed Sep is not provided
1.	Effluent Characte	ristics		Table below			Sevil III
				Unit	Before T		After
	Sr. No	Para	meters	Ont	Delore 1	reatment	treatment
	Sr. No	Para	meters	Ont	Sewage	Effluent	
	Sr. No	рН	meters	-			
		Proteov	meters	- mg/lit	Sewage	Effluent	treatment
	1	рН	meters	-	Sewage 7-8	Effluent 4-10	treatment 5.5-8.5
	1 2	pH COD		- mg/lit	Sewage 7 - 8 400	Effluent 4-10 4000	5.5-8.5 < 250
	1 2 3	pH COD BOD	solids	mg/lit	Sewage 7 - 8 400 250	Effluent 4-10 4000 2000	5.5-8.5 < 250 <100
	1 2 3 4	pH COD BOD Suspended	solids lved solids	mg/lit mg/lit mg/lit	Sewage 7 - 8 400 250	Effluent 4-10 4000 2000	5.5-8.5 < 250 <100 <100
	1 2 3 4 5	pH COD BOD Suspended Total disso	solids lved solids	mg/lit mg/lit mg/lit mg/lit	Sewage 7 - 8 400 250	Effluent 4-10 4000 2000 2000	5.5-8.5 < 250 <100 <100 < 100

			 Amount of water send to the CETP: Membership of CETP: Yes 							
23.	Note on ETP technology to be used	2		alaxy Surfactant limited has provided MBR technology to ter to the pollution load of effluent.						
24.	Disposal of The ETP sludge		ent storage	isposed throu disposal facility						
25.	Solid Waste Management		Please	e Refer Belo	ow Table					
Sr. No.	Source	Ca	t No.	Ту	pe of waste	Qty(TPM)	Form (Sludge/ dry/Slurry		
1	ETP	3	4.3	ETP Slud	ge	8	3.7	Sludge		
2	Process	3	4.1	Flue gas o	leaning Residu	ie 7	'.0	Solid		
	Emissions (Flue gas characteristic SPM, SO ₂ , NO _x	cs	Sr. No.	Pollutant	Source of E	nission	Emi	ssion rate		
26.		- 1		Pollutant	Source of E	nission	Emi	ssion rate		
	CO etc.)		1.	SPM	Process /Boile	r/ D.G.	-1.5/	3		
		III IB			Set		<150 mg/nm			
	otop		2.	SO ₂	Boiler/ D.G. S	et .	<6	7 kg/ hr.		
	= 1000		3.	NO X	Boiler/ D.G. S	et	<:	50 ppm		
	902		4.	Ammonia	Process	inspile	<35	mg/nm		
			5.	HCl	Scrubber		<	50 ppm		
27.	Stacks emission Details		Please	refer to Tal	ole below	no Line T				
	Stack Attached To	AP6 Syst		Height in Mtrs.		Quantity UoM	& S	% SO ₂		
	Boiler -1 (Thermic fluid	Stac	k	30	+	9 MT/Da	y 4.5	% 810		

Disposal

CHW DD

W3

2	D.G. Set -1 (2 MW)	ac	Stack & acoustic enclosure		2	711-5016		18 MT/D	ay		
3	Boiler -2	Common stack with cyclone		32	2	FO/LD	0	LDO- 3.8 MT/Day	3 4	1.5%	630
4	Boiler -3							F.O 3.2 MT/Day			
5	Boiler -4	Common stack with cyclone & dust collection system		30		Coal		18 MT/ d	ay 0	.5%	90
6.	Scrubber (3 Nos.)	scr Ele	Stack with scrubber & Electrostatic precipitator		l basa =	N.A.	eşi i	Nil			
7	D.G. Set -2 (1000 KVA)	Acc	Stack & Acoustic enclosure		equid Ty	HSD		600 Litrs/ hr.	0.	05	3.84
28.	Emission Standar	rd	Pollutai s	Pollutant Emission standard limit Proposed Limit			MPCB Consent		Pollutants		
	Arely on or elone	SPM/ TPM				<150 mg/nm ³		<150 mg/ nr		m ³ SPM/ TP	
**	12-12-12-12-12-12-12-12-12-12-12-12-12-1		SO ₂		<6	67 kg/ hr.		<67 kg/ h	r.	SO ₂	
			Ammon	ia	<	50 ppm		<50 ppm		Amm	onia
			HCl		<3.5	mg/ nm ³		<35 mg/ 1	nm³	HCI	
			NO _x		<	50 ppm		<50 ppm		NO _x	
9.	9. Ambient Air quality data		Pollutan	t	20000	missible ndard		roposed oncentrat	Ren	arks	
			SPM (PN	110)	100	μg/m³	<1	00 μg/m ³	Shal limit	l be wi	thin
			RPM (PN	M _{2.5}) 60 µ	ıg/m³	<6	0 μg/m ³	Shal limit	l be wit	hin
			SO ₂		80 µ	g/ m ³	<8	0 μg/ m ³	Shall limit	be wit	hin
			NO _x		80 µ	g/ m ³	<8		Shall limit	be wit	hin

30.	Details of Fuel to	Sr.No.	Fuel	Daily consumption (TPD/KLD)				
	be used:	1.	LDO	3.8 MT/ Day				
		2.	Furnace Oil	12.2 MT/ Day				
		3.	Coal	18 MT/ Day				
		4.	HSD	400 Ltr/ hr				
	PAREN MANAGEMEN	✓ N	Source of Fuel: From market/ or Mode of Transportation of fuel to rough					
31.	Energy	through Power Supply: MSEDCL Existing Power requirement: 3982 KW Proposed power requirement: Existing Power supply will be used for proposed project. DG sets: Number and capacity DG sets to be used (Existing and proposed) 1 no. DG set of Capacity 2 MW Details of the non-conventional renewable energy proposed to be used:						
	OD Liquid (0.05	1 no. DG Details of	set of Capacity 2 MW					
32.	Green Belt Development	1 no. DG Details of be used: • G • N	set of Capacity 2 MW f the non-conventional renewable reen belt area: 4080 Sq. M umber of species of trees & shru	the energy proposed to to to to be planted: 371				
32.		1 no. DG Details of be used: • G • N	set of Capacity 2 MW f the non-conventional renewable reen belt area: 4080 Sq. M	the energy proposed to to to to be planted: 371				
32.		1 no. DG Details of be used: G N List of tr	set of Capacity 2 MW f the non-conventional renewable reen belt area: 4080 Sq. M umber of species of trees & shru rees (Common Names of the Sp	be energy proposed to abs to be planted: 371 pecies)				
32.		1 no. DG Details of be used: G N List of tr Sr No.	set of Capacity 2 MW f the non-conventional renewable reen belt area: 4080 Sq. M umber of species of trees & shru rees (Common Names of the Sp Name of Tree	be energy proposed to abs to be planted: 371 pecies)				
32.		1 no. DG Details of be used: G N List of tr Sr No. 1.	reen belt area: 4080 Sq. M umber of species of trees & shrutees (Common Names of the Sp Name of Tree Bakan Neem (Melia Azadera	be energy proposed to abs to be planted: 371 pecies)				
32.		1 no. DG Details of be used: G N List of tr Sr No. 1. 2.	reen belt area: 4080 Sq. M umber of species of trees & shrues (Common Names of the Species of Tree Bakan Neem (Melia Azadera Ashoka (Saraca Asoka)	be energy proposed to abs to be planted: 371 pecies)				
32.		1 no. DG Details of be used: G N List of tr Sr No. 1. 2. 3.	reen belt area: 4080 Sq. M umber of species of trees & shrues (Common Names of the Sp Name of Tree Bakan Neem (Melia Azadera Ashoka (Saraca Asoka) Silver	the energy proposed to the substantial base is a substantial base				
32.		1 no. DG Details of be used: G N List of tr Sr No. 1. 2. 3. 4.	reen belt area: 4080 Sq. M umber of species of trees & shruees (Common Names of the Species of Tree Bakan Neem (Melia Azadera Ashoka (Saraca Asoka) Silver Coconut	the energy proposed to the substantial base is a substantial base				

33.	Details of pollution control	Sr. No.	The state of the s		Proposed to be	e installed			
	Systems:	1	1 Air By dispersal into atmosphere through chimney of adequate/ recommended height.						
		2	Water	Effect E	lged ETP consi vaporator, cond d by Primary, so treatment.	sting of Multiple densate of which econdary and			
		3	Noise	D.G. pro	posed of 2 M	W			
F	100 mg	4	Solid Waste	disposed	us waste will b				
				to private		aste will be sold			
34.	Environmental Management plan Budgetary Allocation		Existing EM	P cost shall n of projec	t up): Zero Inve Il be used for pi et. As there is ne				
35	EIA submitted (If yes then submit the salient features)	NOT	`APPLICABLE		us transfers				
36	Public hearing report (If public hearing conducted then submit the salient features)	NOT	APPLICABLE	ogw. soli	10 monda 13 sursito 2				
37	Air pollution, water pollution issues in the project area, if any	NO	Morth John gen Mil-myst woll	nemia ji	nointeich 2432. 100ft Handenk				
38	Storage of chemicals (inflammable/ explosive/ Hazardous/ Toxic substances)	Sr. No	Raw Material	QTY MT/A	Nature (Solid/ liquid)	Source of material (Local/ Imported)			
		1	Sulphur	140	Bright Yellow Granules	Local			
		2	Ethylene	742	Liquid	Local			

		Oxide			
inner bestern	3	Mono Ethanol Amine	67	Liquid	Local
	4	DMAPA	71	Liquid	Local

2. Terms and conditions stipulated in even number environment clearance letter dated 8th April, 2015 remains the same.

Member Secretary, SEIAA

Copy to:

- 1. Additional Secretary, MOEF, 'MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
- 2. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
- 3. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP).
- 4. Commissioner, Municipal Corporation Greater Mumbai (MCGM)
- 5. Regional Office, MPCB, Mumbai
- 6. Collector, Mumbai
- 7. IA- Division, Monitoring Cell, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
- 8. Select file (TC-3)

(EC uploaded on 21 05 2016)