Government of Maharashtra

SEAC-2212/CR-494/TC-2
Environment department
Room No. 217, 2nd floor,
Mantralaya Annex,
Mumbai- 400 032.
Dated: 8th April, 2015

To,
M/s Galaxy Surfactants Limited
Plot No. V-23, MIDC, & Plot No. 1,CIDCO
Nr. Taloja MIDC, Tal-Panvel, Dist-Raigad.

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

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification, 2006, by the State Level Expert Appraisal Committee-I, Maharashtra in its 96th meeting and decided to recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 83rd meeting.

2. It is noted that the proposal is considered by SEAC-I under screening category 5(f) B1 as per EIA Notification 2006.

Brief Information of the project submitted by Project Proponent is as:

Name of project	M/s Galaxy Surfactants Ltd. Proposed Project of surfactants & Specialty chemicals Manufacturing
Project proponent	M/s Galaxy Surfactants Ltd.
Consultant	M/s. Goldfinch Engineering Systems Pvt. Ltd.
New project/expansion in existing project / modernization	Modernization with no increment in pollution load.
If expansion/ diversification, whether environmental clearance has been obtained for existing project	Yes
Activity schedule in the EIA Notification	5(f) B-1
Area Details	Total plot area : 77,802 Sq. M Build up area : 36,404 Sq. M

	Green Belt Area : 4,080 Sq. M
Name of the Notified Industrial Area/ MIDC	MIDC Taloja, Taluka – Panvel, Dist- Raigad, Maharashtra
Estimated capital cost	Zero Investment
Location details of the project:	Latitude : 19° 07′N Longitude : 73° 11′E Location : MIDC Taloja, Taluka – Panvel, Dist- Raigad Elevation above mean sea level meters : 25 m
Total Water Requirement	785 KLD existing adequate.
Storm water drainage	MIDC storm water drain available by the side of plot.
Sewage generation and treatment	Amt of sewage generation (CMD): 30 CMD
Effluent Characteristics	Please refer Table below

Sr. No	Parameters	Unit	Before Treatment		After treatment
			Sewage	Effluent	
1	pH	-	7 – 8	4 – 10	6.0-8.5
2	COD	mg/lit	400	4000	< 250
3	BOD	mg/lit	250	2000	<100
4	Suspended solids	mg/lit	--	200	<100
5	Total dissolved solids	mg/lit	--	2000	< 100
6	Total ammoniacal nitrogen	mg/lit	Nil	250	<100
7	Sulphates	mg/lit	Nil	< 500	<1000
8	Chlorides	mg/lit	Nil	< 500	<1000

ETP details	Amount of effluent generation (CMD): 214 CMD which includes 184 CMD Industrial Effluent and 30 CMD domestic effluent Capacity of the ETP: 310 CMD Amount of water send to the CETP: 214 CMD Membership of CETP : Yes
Note on ETP technology	Galaxy Surfactant limited has provided MBR technology to cater to the pollution load of effluent.
Disposal of The ETP sludge	ETP Sludge is disposed through Common Hazardous Waste treatment storage disposal facility, Mumbai Waste Management, Taloja.
Atmospheric Emissions (Flue gas characteristics SPM, SO_2, NO_X , CO etc.)	

Sr. No.	Pollutant	Source of Emission	Emission rate
1.	SPM	Process /Boiler/ D.G. Set	<150 mg/nm^3
2.	SO_2	Boiler/ D.G. Set	<67 kg/ hr.
3.	NO_X	Boiler/ D.G. Set	<50 ppm

	4.	Ammonia	Process	3 <35 mg/nm
	5.	HCl	Scrubber	<50 ppm

Stacks emission Details	Please refer to Table below

Emission Standard				
	Pollutants	Emission standard limit Proposed Limit	MPCB Consent	Pollutants
	SPM/ TPM	<150 mg/nm3	<150 mg/nm3	SPM/ TPM
	SO2	<67 kg/ hr.	<67 kg/ hr.	SO2
	Ammonia	<50 ppm	<50 ppm	Ammonia
	HCl	<35 mg/nm3	<35 mg/nm3	HCl
	NOX	<50 ppm	<50 ppm	NOX

Ambient Air quality data				
	Pollutant	Permissible Standard	Proposed Concentration	Remarks
	SPM (PM_{10})	100 $\mu g/m^3$	<100 $\mu g/m^3$	Shall be within limit
	RPM ($PM_{2.5}$)	60 $\mu g/m^3$	<60 $\mu g/m^3$	Shall be within limit
	SO_2	80 $\mu g/m^3$	<80 $\mu g/m^3$	Shall be within limit
	NO_X	80 $\mu g/m^3$	<80 $\mu g/m^3$	Shall be within limit

Details of Fuel to be used:			
	Sr.No.	Fuel	Daily consumption (TPD/KLD)
		LDO	3.8 MT/ Day
		Furnace Oil	12.8 MT/ Day
		Coal	18 MT/ Day
		HSD	600 Ltr/ hr

Source of Fuel : From market/ out side fuel companies
Mode of Transportation of fuel to site : By Road & through

Energy	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 DG set of Capacity 2 MW and 1 DG set of Capacity 1000 KVA
Green Belt Development	Green belt area: 4080 Sq. M existing Number of species of trees & shrubs planted: 371

Details of pollution control Systems:	Sr. No.	Source	Installed
	1	Air	By dispersal into atmosphere through chimney of adequate/ recommended height.
	2	Water	Full-fledged Combined ETP for Sewage and industrial Effluent, consisting Primary, secondary and Tertiary treatment.
	3	Noise	DG with Acoustic enclosure, will be used only in case of emergency
	4	Solid Waste	Hazardous waste is disposed to CHWTSDF Non-hazardous solid waste is sold to private party.

3. The proposal has been considered by SEIAA in its 83rd meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions :

(i) This Environment clearance is issued subject to condition that PP shall be responsible for end disposal of hazardous waste to authorized deler. (b) PP to abide by the submitted specific effluent characteristics after treatment

(ii) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.

(iii) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.

(iv) Regular monitoring of the air quality, including SPM & 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 Control Board (MPCB) & submit report accordingly to MPCB.

(v) Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.

(vi) Proper Housekeeping programmes shall be implemented.

(vii) In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.

(viii) A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set.(If applicable)

(ix) A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.

(x) Arrangement shall be made that effluent and storm water does not get mixed.

(xi) 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.

(xii) 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.

(xiii) 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.

(xiv) Green belt shall be developed & 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.

(xv) 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.

(xvi) Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.

(xvii) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.

(xviii) 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 the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.

(xix) 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 material transfer system to minimize spillage.

(xx) 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.

(xxi) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.

(xxii) Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.

(xxiii) Separate silos will be provided for collecting and storing bottom ash and fly ash.

(xxiv) 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 reported to the MPCB & this department

(xxv) 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

(xxvi) Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.

(xxvii) 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.

(xxviii) 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, NOx (ambient levels as well as stack emissions) or critical sectorai 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.

(xxix) 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 e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.

(xxx) The environmental statement for each financial year ending 31st 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 e-mail.

4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any 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 under EP Act or 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, if any or action initiated under EP Act.

5. The Environment department reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.

6. **Validity of Environment Clearance**: The environmental clearance accorded shall be valid for a period of 5 years to start of production operations.

7. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

8. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.

9. Any appeal against this environmental clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D-, Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

(Ajoy Mehta)
Principal Secretary,
Environment department &
MS, SEIAA.

Copy to:

1. Shri. R. C. Joshi, IAS (Retd.), Chairman, SEIAA, Flat No. 26, Belvedere, Bhulabhai desai road, Breach candy, Mumbai- 400026.

2. Shri T. C. Benjamin, IAS (Retired), Chairman, SEAC-I, 602, PECAN, Marigold, Behind Gold Adlabs, Kalyani Nagar, Pune – 411014. .

3. Additional Secretary, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.

4. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.

5. 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).

6. Regional Office, MPCB, Raigad.

7. Collector, Raigad

8. IA- Division, Monitoring Cell, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.

9. Select file (TC-3)

(EC uploaded on 9\04\2015)