

Government of Maharashtra

No.:SEAC-2010/CR.448/TC.2

Environment department,

Room No. 217, 2nd floor,

Mantralaya Annexe,

Mumbai 400 032

Date: 3rd December, 2010

To,
M/s Galaxy Surfactants Ltd.
C-49/2, TTC Industrial Area,
Pawne, Navi Mumbai 400703
Maharashtra.

Subject: Expansion project of chemical unit at Plot No. 1, village Chal, near Taloja Industrial Area, Taluka: Panvel, District: Raigad by M/s Galaxy Surfactants Ltd. - Environmental clearance regarding.

Sir,

This has reference to your communication dated 28th November, 2009 on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee, Maharashtra in its 28th 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 30th meeting held on 29th October, 2010.

2. It is noted that the proposal is for grant of Environmental Clearance for Expansion project of chemical unit at Plot No. 1, village Chal, near Taloja Industrial Area, Taluka: Panvel, District: Raigad by M/s Galaxy Surfactants Ltd. SEAC considered the project under Category 'B2' of EIA Notification 2006, and screening category is 5 (f). Pre-feasibility Report submitted by proponent.

Project information from documents submitted by you & considered by SEAC & SEIAA is summarized as below-

Name of the Project	:	Expansion project to increase manufacturing capacity of surfactant and specialty chemicals from 8673 MT/M to 12,543 MT/M (additional 3870 MT/M)
Type of Project	:	Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates) (5)
Proponent	:	M/s. Galaxy Surfactants Ltd.
Location of the project	:	Plot No. 1, village Chal, near Taloja Industrial Area, Taluka: Panvel, District: Raigad
Land	:	40,000 sq. m.
Expansion area	:	4,821 sq. m.
Total built-up area	:	3,000 sq. mt



Estimated cost of the project	:	₹ 34 Crores
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Production capacity:

Product	Capacity MT/M
Fatty alcohol ether sulfate on 100% basis	2000
Fatty acid esters	150
Fatty amides	100
Betaines (100 %)	600
Surfactant Blends such as sparkle and Syndet series (100 %)	800
BY- Product	
Sulphuric acid	70
Sodium sulphate 20 - 25 solution , or (solids - 37.5 MT/Month)	150

Raw Material:

1. Fatty alcohol.
2. Ethoxylated lauryl alcohol,
3. Fatty alcohol ethoxylates
4. Caustic soda/ poly ash
5. Sulphur
6. 3-Dimethyl amino propyl amine(DMAPA)
7. Monochloric Acetic Acid
8. Citric acid
9. Stearic Acid
10. Monoethylene Glycol
11. Hydrogenated coconut fatty acid
12. Monoethanol amine

Water Requirement:

Water requirement: Fresh: 785 m³/day; present water requirement: 690 m³/day; Expansion activity: 95 m³/day

Source: MIDC

Effluent generation: Due to expansion domestic Effluent will be: 6 m³/day and trade effluent will be: 44 m³/day

Capacity of ETP: 310 m³/day; Treated water will be send to CETP, Taloja.

Solid Waste Management:

- ESP waste (flue gas residue) : 83 kg/day
- Chemical sludge from waste water management: 83 kg/day

Disposal: disposal to CHWTSDF, Taloja.

Air pollution control measures:

- Gases containing SO₂/SO₃ after sulphonation will first pass through an electrostatic precipitator.
- Mixture of condensed mist and dirt will be removed in ESP.
- Gases will be scrubbed in vent gas scrubber with dilute caustic solution; sodium sulphate will be recovered as byproduct.
- Gases from scrubber will be discharged into atmosphere by 30 m high chimney.



Noise control measures:

- Expansion project does not involve any impact type of machinery, crushers or vibratory equipment; hence noise generation potential is low.
- There is no new requirement of boiler and D.G. sets.
- Only equipment that is likely to generate noise is the roots blower meant for supply of air for biodegradation in ETP operations. Project proponent provided acoustic enclosures to these and noise is limited to MPCB norms.

Green Belt Development: Green belt: 500 sq. m., 50 nos. of new tree will be planted.

Energy : Power requirement : Existing : 2361 KW ; proposed connected load : 750 KW; Source: MSEDCL

Environmental Management Plan: Operation Phase: Total capital cost for EMP shall be ₹ 528.00 Lakhs and O & M for EMP shall be ₹ 81 lakhs

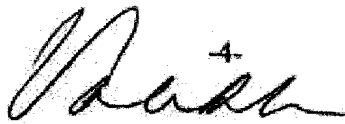
3. The proposal has been considered by SEIAA in its 30th meetings & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions :-

- (i) "Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.
- (ii) No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.
- (iii) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
- (iv) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.
- (v) 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.
- (vi) A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
- (vii) Arrangement shall be made that waste water and storm water do not get mixed.
- (viii) 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.
- (ix) 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.
- (x) 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.
- (xi) 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.

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- (xii) 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.
- (xiii) Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
- (xiv) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
- (xv) 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.
- (xvi) 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.
 - Use of "Closed Feed" system into batch reactors.
- (xvii) Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
- (xviii) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (xix) Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.
- (xx) Separate silos will be provided for collecting and storing bottom ash and fly ash.
- (xxi) 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
- (xxii) 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://cnvis.maharashtra.gov.in>
- (xxiii) 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.
- (xxiv) 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.
- (xxv) 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, SO₂, 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.

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- (xxvi) 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.
- (xxvii) 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.
- (xxviii) 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.
4. 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.
 5. **Validity of Environment Clearance:** The environmental clearance accorded shall be valid for a period of 5 years to start of production operations.
 6. 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.
 7. 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.
 8. Any appeal against this environmental clearance shall lie with the National Environmental Appellate Authority, if preferred, within 30 days as prescribed under Section 11 of the National Environmental Appellate Act, 1997.



(Valsa R Nair Singh)
Secretary, Environment
department & MS, SEIAA

Copy to:

1. Shri. Ashok Basak, IAS (Retd.), Chairman, SEIAA, 502, Charleville, 'A' Road, Churchgate, Mumbai- 400 020, Maharashtra.

2. Shri. P.M.A Hakeem, IAS (Retd.), Chairman, SEAC, 'Jugnu' Kottaram Road, Calicut- 673 006 Kerala.
3. The Secretary, Energy department, Govt. of Maharashtra, Mantralaya, Mumbai - 400032., Maharashtra
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, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.
9. Director(TC-1), Dy. Secretary(TC-2), Scientist-1, Environment department
10. Select file (TC-3).