



No. SEIAA/GUJ/EC/5(f)&1(d)/

/2009

Date:

Time Limit

Sub: Environment Clearance for Amalgamation of two new units at GIDC Industrial Estate, Jhagadia, District: Bharuch by M/s. Lanxess India Pvt Ltd.....in Category 5(f)&1(d) of schedule annexed with EIA Notification dated 14/9/2006.

Ref.: 1.This office letters No.SEIAA/GUJ/EC/5(f)/127/2008 and SEIAA/GUJ/EC/5(f)&1(d)/129/2008 dated 10.10.2008, granting Environmental Clearance for a new units at GIDC Industrial Estate, Jhagadia, District: Bharuch by M/s. Lanxess India Pvt Ltd and M/s.Lanxess Purification Pvt Ltd.

2. Your letter dated 17.06.2009, Amalgamation of two units M/s.Lanxess India Private Limited and M/s.Lanxess Purification Private Limited, and Request for Common EC in the name of M/s.Lanxess India Private Limited.

3.This office letters No.SEIAA/GUJ/EC/5(f)&1(d)/281/2009 dated 09.11.2009, granting Environment Clearance for Amalgamation of two new units at GIDC Industrial Estate, Jhagadia, District: Bharuch by M/s. Lanxess India Pvt Ltd.

4. Your letter dated 16.11.2009 regarding correction in the EC Order.

Dear Sir,

This has reference to your application made along with Application Form-1 and Environment Impact Assessment Report submitted to SEAC, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006 and subsequent amendment sought by you vide your letter dtd.16.11.2009 for common Environmental Clearance granted in the name of M/s.Lanxess India Pvt. Ltd. vide letter dtd. 09.11.2009 referred above.

The proposal is for Environmental Clearance for two new units manufacturing Rubber Chemicals and Ion exchange resin chemicals amalgamated in the name of M/s. Lanxess India Pvt Ltd, GIDC Industrial Estate, Jhagadia, District: Bharuch. The unit is located in notified industrial area. The total plot area of the company is **10.63 hectare**. The total cost of the project would be **195 crore**. The unit has applied for manufacturing of Rubber Chemicals and Ion exchange resin chemicals as per the following list:

Rubber Chemicals Products List:

Sr. No.	Products	Production Capacity [MT/year]
1	Vulkanox 4010 (t)	1000
2	Vulkanox 4020 (t)	2000
3	Vulkanox 4030 (t)	1000
4	Vulkanox 4005 (t)	1000
5	Vulkanox HS (t)	2500

Ion exchange resin chemicals Products list:

Sr. No	Products	Production Capacity		
		Phase I	Phase II	Total
1	Strong Acid Cation (m ³)	20,000	15,000	35,000 m ³ /year
2	Week Acid Cation (m ³)	m ³ /year	m ³ /year	

3	Strong base Anion (m ³)			
4	Week base Anion (m ³)			
5	Mixed Beds (m ³)			
6	Captive Power Plant	2.6 MW	-----	2.6 MW

The project activity is covered in 5 (f) & 1(d) and is of 'B' Category. Since the proposed project is in notified industrial area, it does not need Public Consultation as per Para 7(i) III. Stage (3) (b) – Public Consultation of EIA Notification, 2006.

The SEAC, Gujarat had recommended to the SEIAA, Gujarat, to grant the Environment Clearance to this project for the above-mentioned products. The proposal was considered by SEIAA, Gujarat in its meeting held on 09.10.2009 at Gandhinagar. Since the EIA/ EMP Report was found to be adequate and complete and the public consultation is not required for the project, the SEIAA hereby accords Environmental Clearance to above project under the provisions of EIA Notification dated 14th September, 2006 subject to the compliance of the following Specific, Additional and General conditions **in partial modification to the Environmental Clearance issued earlier, and in supersession of the earlier Environmental Clearance granted vide letters dated 10.10.2008.**

A. SPECIFIC CONDITIONS:

1. The unit shall not start its production activities till the issue of the effluent conveyance pipeline is resolved fully and permission for this aspect is obtained from the Gujarat Pollution Control Board.
2. Hydrogen gas will be obtained through a pipeline from adjacent hydrogen gas producing industry. There shall be no storage of hydrogen gas in the factory premises after obtaining necessary permissions from the chief controller of explosives & other authorities. The design of the pipeline shall be as per the requirements under the prevailing laws /rules and shall have to be approved through the competent authorities for this purpose.
3. Risk mitigation measures including hydrogen flame detectors, adequate local ventilation in the work floor environment, safe operating procedures and adequate fire fighting facilities and all other necessary control measures shall be provided to attend any emergency due to accidental release of hydrogen.

A.1 WATER:

4. No ground water shall be used for the project. Water supply for the project shall be sourced from GIDC.
5. Generated industrial effluent shall be treated in the effluent treatment Plant and the treated effluent shall be discharged to underground BEAIL pipeline.
6. The industrial effluent of 5054.3 m³/day shall be treated in the effluent treatment plant and the treated effluent shall be discharged into pipeline of Bharuch Eco Aqua Infrastructure Limited (BEAIL).
7. Unit shall provide metering facility at the inlet and outlet of the ETP and maintain records for the same.

A.2 AIR:

8. High efficiency scrubbers/vent chillers shall be provided for scrubbing process emissions.
9. Gaseous emission at workplaces shall be controlled and kept below the limits prescribed by the Factories Act and Rules. Their records shall be maintained.
10. Spent solvent recovery shall not be less than 95 percent. Measures shall be taken to reduce the process solvent vapors emissions as far as possible. Use of toxic solvents shall be minimum. All venting equipment shall have vapour recovery system.
11. The gaseous emissions and particulate matter from various process units shall conform to the standards prescribed by GPCB. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the prescribed standards.
12. The ambient air quality shall be monitored in and around the project area, and the location of ambient air quality monitoring stations shall be reviewed in consultation with the GPCB and additional stations shall be installed, if required in the downwind directions as well as where maximum ground level concentrations are anticipated.

A.3 SOLID WASTE:

13. Hazardous and toxic waste like distillation residue, chemical sludge, mixed solvent shall be sent to common incineration facilities at TSDF operated by BEIL Ankleshwar.
14. Unit shall dispose its Haz waste at TSDF of BEIL, Ankleshwar.
15. Discarded containers / liners shall be sold only to the registered recyclers after decontamination.
16. Used oil / waste oil shall be sold to only to the registered recyclers.
17. The company must strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous Waste (Management and Handling) Rules 2003. Authorization from the GPCB must be obtained for collection / treatment /storage /disposal of hazardous wastes.

A.4 SAFETY:

18. Flameproof fittings shall be provided in the manufacturing plant.
19. Proper ventilation shall be provided in the work area.
20. Storage and use of toxic chemicals shall be minimized to the extent possible.
21. Acids shall be stored in MSRL tanks for safety purpose. Storage of hazardous chemicals shall be in multiple small capacity tanks / containers instead of one single large capacity tank for safety purpose.
22. During material transfer, spillages shall be avoided and garland drain be constructed to avoid mixing of accidental spillages with domestic waste and storm water drain.
23. All venting equipment shall have vapour recovery system. All the pumps and other equipments where there is a likelihood of leakages shall be provided with Leak Detections and Repair (LDAR) system. Provisions for immediate isolation of such equipment in case of a leakage shall also be made. The detector sensitivity shall be in ppm levels.
24. All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Close handling system for chemicals shall be provided. Double mechanical seals shall be provided for pumps /agitators for reactors for reduction of fugitive emissions and leakages. Solvent traps shall be installed wherever necessary.
25. All the storage tanks of flammable / toxic chemicals shall be under negative pressure to avoid any exposure or leakage. Breathers, N2 Blanketing and condensers shall be provided to the storage tanks.
26. Personal Protective Equipment shall be provided to workers and its usage shall be ensured and supervised.
27. First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity at all the times.
28. Training shall be given to all workers on safety and health aspects of handling chemicals.
29. Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Act and Rules. Pre-employment and periodical medical examination for all workers shall be undertaken as per statutory requirement.
30. The project management shall strictly comply with the provisions made in Manufacture Storage and Impact of Hazardous Chemicals Rules 1989 as amended in 2000 for handling of hazardous chemicals. Necessary approvals from the Govt Authorities shall be obtained before commissioning of the project, if applicable. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act & Rules. Hazardous materials storage shall be at an isolated designated location, bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals. All transporting routes within the factory premise shall have paved roads to minimize splashes and spillages.
31. The project management shall prepare a detailed Disaster Management Plan (DMP) for the project as per the guidelines from Directorate of Industrial Safety and Health.
32. The best in the industry safety and occupational health standards shall be incorporated right from the design aspects to ensure highest level of safety and ensuring better health of the workers.
33. Necessary permission from the Chief Controller of Explosives, Nagpur, shall be obtained before commencing any production activities.

A.5 NOISE:

34. The overall noise level in and around the plant area shall be kept well within the prescribed standards by providing noise control measures including acoustic insulation, hoods, silencers, enclosures vibration

dampers etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act and Rules. Workplace noise levels for workers shall be as per the Factories Act and Rules.

A.6 CLEANER PRODUCTION AND WASTE MINIMISATION:

35. The company shall undertake following waste minimization measures:
- a) Metering and control of quantities of active ingredients to minimize waste.
 - b) Reuse of by-products from the process as raw materials or raw materials substitutes in other processes.
 - c) Use of automated and close filling to minimize spillages.
 - d) Use of close feed system into batch reactors.
 - e) Venting equipment through vapour recovery system.
 - f) Use of high pressure hoses for equipment cleaning to reduce wastewater generation.

A.7 GREEN BELT AND OTHER PLANTATION:

36. Company shall develop green belt within premises as per the CPCB guidelines. However if sufficient land is not available within the premises, unit shall tie up with local agencies like gram panchayat, schools, social forestry office etc. for necessary plantation and maintenance of 5000 trees in a phased manner in 5 years at available open land in nearby area and submit an action plan and its compliance to the GPCB.

B. ADDITIONAL CONDITIONS:

37. The industry must give assurance that it shall not have any adverse environmental impact and shall abide by all environment clearance conditions.
38. The industry must go for single outlet for their treated effluent.

C. GENERAL CONDITIONS:

39. A separate Environment Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environment Management and Monitoring functions.
40. The company shall undertake eco-developmental measures including community welfare program most useful in the project area for the overall improvement of the environment.
41. The project management shall also comply with all the environment protection measures, risk mitigation measures/safeguards proposed by them in the EIA report.
42. The company shall develop rain water harvesting structures to harvest the run off water for recharge of ground water. Also harvesting of surface as well as rainwater from the rooftops of the building proposed in the project shall be undertaken and the same water shall be used for the various activities of the projects to conserve fresh water.
43. At no time, the emissions shall exceed the prescribed limits. In the event of 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 achieved.
44. The project management shall also comply with all the environment protection measures, risk mitigation measures and safeguards recommended in the EIA / EMP report as well as other proposals made by them.
45. The applicant shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.
46. No further expansion or modifications in the plant shall be carried out without prior approval of the MoEF/ SEIAA, as the case may be. In case of deviations or alterations in the project proposal from those submitted to MoEF/ SEIAA/ SEAC for clearance, a fresh reference shall be made to the SEIAA/ SEAC to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
47. The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.

48. The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.
49. It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.
50. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
51. The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
52. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
53. The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
54. This Environmental Clearance is valid for five years **from the date of original issue of the Environmental Clearance i.e.it shall be valid upto 09.10.2013.**

With regards,

Yours sincerely,

(R.G.SHAH)
Member Secretary

Issued to :
M/s. Lanxess India Pvt Ltd,
GIDC Industrial Estate,
Jhagadia,
District: Bharuch.

Copy to:-

1. The Secretary, Department of Environment and Forests, Govt. of Gujarat, Secretariat, Gandhinagar-382010.
2. The Chairman, Central Pollution Control Board , Parivesh Bhavan, CBD -cum-Office Complex, East Arjun Nagar, New Delhi-110032
3. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (WZ), E-5, Arera Colony, Link Road-3, Bhopal-462016, MP
4. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
5. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10 A, Gandhinagar-382010.
6. Select File.

(R.G.SHAH)
Member Secretary