



**SANJIV TYAGI**  
**MEMBER SECRETARY**  
**SEIAA, GUJARAT**

**STATE LEVEL ENVIRONMENT IMPACT  
ASSESSMENT AUTHORITY**  
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**No. SEIAA/GUJ/EC/5(f)/ /2008**

**Date:**

***Time Limit***

**To,**  
**Khyati Chemicals Private Limited**  
**Plot No.243/3, 243/4, 243/5 and 242/B,**  
**Phase-II, GIDC-Vatva,**  
**Ahmedabad-382445.**

**Sub: Environment Clearance for expansion in the existing unit at Plot No.243/3, 243/4, 243/5 and 242/B, Phase-II, GIDC-Vatva, Ahmedabad-382445 by M/s. Khyati Chemicals Private Limited..... Expansion in product in Category 5 (f) of Schedule annexed with EIA Notification dated 14/9/2006.**

Dear Sir,

This has reference to your application made along with Application Form 1, EIA/ EMP and feasibility report and submitted to MoEF, seeking environmental clearance under Environment Impact Assessment Notification, 2006. Later, SEAC had received this application from the Ministry of Environment & Forest, Government of India, after formation of the State Level Environment Impact Assessment Authority (SEIAA), Gujarat and the State Level Expert Appraisal Committee (SEAC), Gujarat.

It is noted that the proposal is for environmental clearance for expansion of manufacturing various Optical Whitening Agent by Khyati Chemicals Private Limited, Plot No. 243/3, 243/4, 243/5 and 242/B, Phase-II, GIDC-Vatva, Ahmedabad-382445. The unit is located in notified industrial estate. Total land acquired is **5117 m<sup>2</sup>**. Expansion will be within existing land. Total cost of the project is **80.00 Lakhs**. Rs.**12.00 Lakhs** are earmarked for construction of ETP for proposed expansion. The list of the and proposed products to be manufactured in the expansion project is as given below.

| <b>Sr.No.</b> | <b>Product Name</b>     | <b>Quantity</b> |
|---------------|-------------------------|-----------------|
| 1.            | Optical Whitening Agent | 190 MT<br>Crude |

The project activity is covered in 5 (f) 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 11.01.2008 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 14<sup>th</sup> September, 2006 subject to the compliance of the following Specific and General conditions.:

**A. Specific Conditions:**

**A.1 WATER:**

1. No ground water shall be used for the project. Water consumption for the project shall be 140m<sup>3</sup> /day which shall be piped water to be supplied by GIDC.
2. Wastewater generation from the project shall not exceed 120m<sup>3</sup> /day. The treated effluent shall be conveyed to Common Effluent Treatment Plant at Vatva through underground pipeline. Till the CETP, Vatva, meets with the GPCB norms, the unit shall provide and operate efficiently the Effluent Treatment Plant (ETP) with adequate primary, secondary and tertiary treatment facility to achieve the GPCB norms. Once the CETP, Vatva, meets with the GPCB norms at its outlet, the unit shall treat its effluent to meet with the CETP inlet norms.
3. Unit shall provide metering facility at the inlet and outlet of the ETP and maintain the record of the same.

**A.2 AIR:**

4. Natural Gas shall be used as a fuel in Hot Air Generator (3,00,000 Kcal /Hr ) as proposed and stack of 20m height shall be provided.
5. Natural Gas shall be used as a fuel in both 3t/hr steam generation and 1t/hr steam generation capacity- small industrial boilers as per IBR as proposed and common stack of 30m height shall be provided.
6. A spray dryer of 500 Kg/Hr capacity shall be provided with adequate Air Pollution Control Measures-cyclone separator followed by bag filter as proposed and 20m stack

height.

7. Spray dryers should be provided with an appropriate Air Pollution Control equipment which should be atleast a water scrubber and preferably a Bag Filter.
8. Regular Stack Monitoring of Spray dryer together with AAQM at the cost of project proponent must be carried out. The particulate matter analysis for the same will be done by the GPCB.
9. The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time.
10. All the vessels used in the manufacturing process shall be close to reduce the fugitive emission.
11. The gaseous emission and the particulate matter from the process units shall conform to the standard prescribed by the GPCB. At no time, the emission shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective manufacturing unit shall not be started until the control measures are made effective to achieve the desired standards.
12. All the storage tanks of flammable / toxic chemicals shall be under negative pressure to avoid any exposure or leakage. Breathers, N<sub>2</sub> Blanketing and condensers shall be provided to the storage tanks.

### **A.3 SOLID WASTE:**

13. ETP sludge shall be dried in sludge drying bed. It shall be packed and stored in hazardous waste storage area facility with pucca bottom and leachate collection facility.
14. Unit shall disposed its ETP waste at TSDF-Vatva and obtain prior permission of TSDF operator from time to time.
15. Discarded containers / liners shall be sold only to the registered recycler after decontamination.
16. Used oil / waste oil shall be sold to only to the registered recycler.

### **A.4 SAFETY:**

17. Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.
18. 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.
19. Training shall be imparted to all the workers on safety and health aspects of chemicals handling.
20. Occupational health surveillance of the workers shall be done and its records shall be

maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken on regular basis as per Factories Act & Rules.

21. Handling and charging of the chemicals shall be done in such a manner that minimal human exposure occurs.
22. The company shall carry out risk assessment based on the Worst Case Scenario and Maximum Credible Accident scenario by competent agency. The company shall implement all preventive and mitigation measures suggested by the agency based on study carried out.

**A.5 NOISE:**

23. The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering control like acoustic insulations, hoods, silencers, enclosures etc. on all source of noise generation. The ambient noise level shall conform to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.

**A. 6 CLEANER PRODUCTION AND WASTE MINIMISATION:**

24. 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 process.
  - c) Use of automated and enclosed filling to minimize spillage.
  - d) Venting equipment through vapour recovery system.
  - e) Use of high pressure hoses for equipment cleaning to reduce wastewater generation.
  - f) Use of close feed system into batch reactors.

**A.7 GREEN BELT AND OTHER PLANTATION:**

25. Unit shall develop green belt within premises as per the CPCB guidelines. However if the adequate land is not available within premises, unit shall tie up with local agencies like gram panchayat, school, social forestry office etc. for the plantation at suitable open land in nearby locality and submit an action plan of plantation for next three years to GPCB.

**B. General Conditions:**

26. The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environment Protection (CREP) published by the Central Pollution Control Board, as may be applicable.
27. All the recommendations made in the EIA / EMP report of the project shall be

- implemented.
28. All the transportation routes in the factory premises shall be well paved to minimize the fugitive emission and to prevent soil contamination.
  29. The company shall undertake eco-developmental measures including community welfare measures for the overall improvement of the environment.
  30. Impervious layer in the work area, chemical storage area and chemical handling area shall be provided to minimize soil contamination.
  31. Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly.
  32. The project proponent 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.
  33. 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.
  34. Periodical Medical checking in the industrial units must be emphasized upon and must be done through reputed Medical Institutes/ Civil Hospitals/ ESIS/NIOH or Institutes designated by NIOH. The periodicity of such medical check up must be decided by GPCB.
  35. This environmental clearance is valid for five years from the date of issue.
  36. 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 1<sup>st</sup> June and 1<sup>st</sup> December of each calendar year.
  37. The project authorities shall adhere to the stipulations made by the Gujarat Pollution Control Board.
  38. 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.
  39. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/ EMP report.
  40. A separate Environmental Management Cell equipped with full fledged laboratory

facilities shall be set up to carry out the Environmental Management and Monitoring functions.

41. The project authorities shall earmark adequate funds to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
42. The project proponent 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, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
43. 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.
44. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
45. The SEIAA reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner shall implement these conditions.
46. 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.

With regards,  
Yours sincerely,

**(SANJIV TYAGI)**  
**Member Secretary,**  
**State Level Environment Impact Assessment Authority**  
**Gujarat**

Copy to:-

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