



**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,**  
**M/s Nand Chemicals,**  
**Plot No.C1/B/110, Phase-I,**  
**GIDC-Vatva,**  
**Ahmedabad- 382445.**

**Sub: Environment Clearance for expansion in the existing unit at Plot No.C1/B/110, Phase-I, GIDC-Vatva, Ahmedabad- 382445 by M/s. Nand Chemicals ..... change in product and expansion 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 manufacturing chemicals by **M/s. Nand Chemicals, Plot No.C1/B/110, Phase-I, GIDC-Vatva, Ahmedabad-382445**. The unit is located in notified GIDC area. Total plot area of the company is **740 sq.m**. Expansion will be within existing land. Total cost of the project **Rs.45,00,000.00**. The unit has applied for manufacturing following reactive dyes:

Sr. No.	Name of the product	C.I. Number	Quantity per Month
1.	Reactive Golden Yellow HR	31221036	Total Quantity-35

M/Month

2.	Reactive Orange 3RX	31221041	Mt/Month (MIX OF PRODUCTS)
3.	Reactive Yellow R	31221023	
4.	Reactive Yellow HAS	31221044	
5.	Reactive Red H8B	31221006	
6.	Reactive Yellow H4G	31221020	
7.	Reactive Orange ME2RL	Orange-122	
8.	Reactive Red BS	Red-111	
9.	Reactive Red ME4BL	Red-195	
10.	Reactive Blue ME2GL	Blue-194	

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 02.06.2008 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 requirement of 3820 liter per day shall be met with the GIDC supply only.
2. The wastewater generation from the project shall not exceed 1150 liter per 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 at its outlet, the unit shall provide and operate 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. There shall not be any process emission from the unit.
5. The unit shall outsource spray drying activity from the other units which has valid consent from the GPCB.
6. LDO / FO shall be used as a fuel in the small industrial boiler (under IBR) as proposed and adequate stack height as per prevailing norms shall be provided.
7. 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 (e.g. Factories Act & Rules).
8. All the vessels used in the manufacturing process shall be closed to reduce the fugitive emission.

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

9. 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.
10. Unit shall dispose its ETP sludge at TSDF-Vatva. Unit shall obtain necessary permission from the TSDF operator for the same from time to time.
11. Discarded containers / liners shall be sold only to the registered recycler after decontamination.
12. Used oil / waste oil shall be sold only to the registered recycler.

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

13. Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.
14. First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.
15. Training shall be imparted to all the workers on safety and health aspects of chemicals handling.
16. 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 as per the Factories Act & Rules.
17. Handling and charging of the chemicals shall be done in such a manner that minimal

human exposure occurs.

#### **A.5 NOISE:**

18. 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 insulation hoods, silencers, enclosures etc. on all sources 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:**

19. 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:**

20. Unit shall develop green belt within premises as per their commitments given to the SEAC. Further, if the adequate land is not available within the premises, the unit shall take up adequate plantation at suitable open land on road sides and other open areas within the GIDC or in nearby locality or schools and submit an action plan of plantation for next three years to GPCB.

21. The Vatva Industries Association shall endeavor to generate a corpus fund for this purpose and take up massive greenbelt development activities within the estate and on the periphery of the estate for which the unit shall make appropriate contribution in consultation with the GPCB.

#### **B. GENERAL CONDITIONS:**

22. The applicant shall set up an environment Cell consisting of atleast one person trained in Environment Management and the qualification of the person shall be either Post

Graduation in Chemistry/ Environment or Engg. in Environment/ Civil/ Chemical. The Cell shall look after Environment, health and Safety. Any owner/ occupier who himself/ herself has the qualification and undertakes to carry out above work himself/ herself may not employ the above persons.

23. The unit shall go in for segregation of concentrated stream and treat the low concentration stream and evaporate the concentrated stream and recover Salts through Spray drying.
24. 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.
25. The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environment Protection (CREP) for Chlor Alkali plants.
26. The company shall undertake eco-developmental measures including community welfare program most useful in the project area for the overall improvement of the environment. The eco-development plan shall be submitted to GPCB within three months of receipt of this letter.
27. 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.
28. 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 shall be used for the various activities of the projects to conserve fresh water.
29. 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.
30. 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.
31. 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.

32. 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.
33. 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.
34. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
35. 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.
36. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
37. 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.
38. The applicant will install Hot Air Generator with a noise rating not exceeding 90 dB.
39. The applicant shall earmark 0.1 % of their turnover for eco-development works, the nature of which will be specified by the authority later on.
40. The applicant shall to earmark funds for plantation of trees within factory premises or in nearby municipal/ AUDA / *Gram Panchayat* area within Ahmedabad District. The applicant shall plant 15,000 trees over a period of 5 years and maintain them for 10 years ensuring a survival rate of 80%.

41. This Environmental Clearance is valid for five years from the date of issue.

With regards,  
Yours sincerely,

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

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 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.