



SANJIV TYAGI
MEMBER SECRETARY
SEIAA, GUJARAT

**STATE LEVEL ENVIRONMENT IMPACT
ASSESSMENT AUTHORITY**
Paryavaran Bhavan
Sector-10 A, Gandhinagar-382 010, GUJARAT
Phone : (079) 232-32152
Fax : (079) 232-22784
E-mail : seiaaguj@yahoo.com
www.seiaa.gujarat.gov.in

No. SEIAA/GUJ/EC/5(f)/ /2008

Date:

Time Limit

To,
Chemclone Industries ,
Plot No.C-1/344-345,
Phase-II, GIDC-Vatva,
Ahmedabad- 382445.

Sub: Environment Clearance for expansion in the existing unit at Plot No.C-1/344-345, Phase-II, GIDC-Vatva, Ahmedabad- 382445 by M/s. Chemclone Industries..... expansion in the existing 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 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. Chemclone Industries, Plot No.C-1/344-345, Phase-II, GIDC-Vatva, Ahmedabad- 382445. The unit is located in notified industrial estate. Total land acquired is 2804 m². Expansion will be within existing land. Total cost of the project Rs.15.69 Lacs. The list of the expansion of products [as per annexure-I attached herewith]in the existing unit.

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 10.03.2008 at Gandhinagar. Since the EIA/ EMP Report was found to be adequate and complete and as 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 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 53.5 m³ /day(Total after expansion) which shall be piped water to be supplied by GIDC.
2. Wastewater generation from the project shall not exceed 39.2 m³ /day (Total after expansion). 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) 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 outlet of the ETP and maintain the record of the same.
4. The products/processes generating spent sulfuric acid shall be in tandem with production of ferrous sulfate to be manufactured within the plant as proposed. The unit shall become member of common waste exchange/waste treatment/ recovery facility, if any, coming up in the region for the disposal / reuse of its spent acid. The spent acid shall be disposed / sold to the actual re-users, who are having valid authorization of the Gujarat Pollution Control Board for the said purpose.

A.2 AIR:

5. Non solid fuel shall be used as a fuel in Hot Air Generator and in small industrial boiler (as per IBR) and stack height of 20m shall be provided. Unit shall explore use of Natural Gas as fuel.
6. The fugitive emission in the work zone environment shall be monitored regularly through the third party. The emission shall strictly confirm to the standards prescribed by the concerned authorities from time to time.
7. All the pumps and the equipments where there is a likelihood of hydrocarbon leakage shall be adequately equipped with Leak Detection and Repair system. The company shall provide a well defined Leak Detection and Repair program for quantification and control of

fugitive emission / leakages. The project proponent shall also install sensors / detectors for the gases like chlorine, bromine in the work area. The detectors sensitivity shall be in ppm levels.

8. All the vessels used in the manufacturing process shall be close to reduce the fugitive emission.
9. 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.
10. 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.
11. Regular monitoring of ambient air quality shall be carried out for parameters like HCl, HBr, Cl₂ besides the prescribed parameters. The locations of the ambient air monitoring stations shall be set up in the downward direction as well as where maximum ground level concentrations are anticipated and shall be in consultation with GPCB.

A.3 SOLID WASTE:

12. 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 adequate leachate collection facility. The leachate shall be properly treated in the ETP before discharged to the CETP, Vatva, and shall meet with the GPCB norms till CETP meets with the GPCB norms.
13. Unit shall disposed its ETP waste at TSDF-Vatva and obtain prior permission of TSDF operator from time to time.
14. The unit shall dispose its distillation residue and other organic residue at the common incineration site only as per the Authorization of the GPCB.
15. Used oil / waste oil shall be sold to only to the registered recycler.
16. Discarded containers / liners shall be sold only to the registered recycler after decontamination.

A.4 SAFETY:

17. All necessary precautionary measures shall be taken to avoid any kind of accident especially due to handling of chlorine and bromine in addition to other chemicals. For this the applicant shall farther enhance their safety measures.
18. All the raw materials especially chlorine and bromine shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.
19. Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.
20. 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. Necessary tie up with the nearby doctor shall be made to ensure that the medical treatment is given within the shortest possible time in case of any adverse conditions.

21. Training shall be imparted to all the workers on safety and health aspects of chemicals handling.
22. 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.
23. Handling and charging of the chemicals shall be done in such a manner that minimal human exposure occurs.
24. 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 in letter and spirit based on study carried out by the agency.

A.5 HEALTH:

25. Periodical Medical checking in the industrial units shall 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 in Consultation with GPCB.

A.6 NOISE:

26. 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.7 CLEANER PRODUCTION AND WASTE MINIMISATION:

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

A.8 GREEN BELT AND OTHER PLANTATION:

28. 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:

29. 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.
30. The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environment Protection (CREP) for Chlor Alkali plants.
31. 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.
32. 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.
33. 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.
34. 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.
35. 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.
36. 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.
37. **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, 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.

38. 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.
39. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
40. 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.
41. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
42. 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.
43. 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 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 Member Secretary, 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.

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ANNEXURE-I

LIST OF PRODUCTS ALONGWITH THEIR PRODUCTION

SR. NO.	NAME OF PRODUCTS	PRODUCTION CAPACITY (MT/MONTH)	
		Existing	Total after proposed expansion
1	Dichlone (2:3, Dichloro, 1:4, Naphthaquinone)	2	25
2	N-Propyl Bromide (N. P. Br)	5	150
3	N-Butyl Bromide (N. B. Br)		
4	Iso-Propyl Bromide (I. P. Br)		
5	Ethyl Bromide		
6	Liquid Bromine	-	50
7	Hydro Bromic Acid	-	20
8	K.Br/NH ₄ Br/LiBr/ZnBr/NaBr	-	150
9	Iso-Amyl Bromine	-	20
10	Ethylene Di Bromide	-	20
11	Cyclo pentyl Bromide	-	20
12	Normal Hexyl Bromide	-	20
13	Sulfoxonium Bromide (T.M.S.O.Br)	-	20
14	Ethyl Bromo Acetate	-	20
15	Methyl Bromo Acetate		
16	Tertiory Butyl Bromo Acetate	-	5
17	2-Bromo Ethyl Butyrate	-	5
18	Ethyl Bromo Pyruvate	-	5
19	N-Bromo Succinimide	-	5
By Product			
20	Sodium Hypo Chloride	0.8	10
21	Ferrous Sulphate	50	50

SELEAA