



**STATE EXPERT APPRAISAL COMMITTEE, PUNJAB**  
**Ministry of Environment and Forests, Government of India**

O/O Punjab Pollution Control Board,  
Vatavaran Bhawan, Nabha Road,  
Patiala – 147 001  
Telefax:- 0175-2215802

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**No. SEAC/138/14559**

**Dated 8/5/2009**

**Speed Post**

To

M/s Vardhman Chemtech Limited,  
525, Industrial Area, Phase-II,  
Chandigarh.

**Sub: Application for grant of environmental clearance for Industrial project to be developed by M/s Vardhman Chemtech Ltd. at Plot No. D-6, Industrial Focal Point, Dera Bassi, Mohali.**

This has reference to your application for grant of environmental clearance for expansion of the project in its existing industrial premises at Plot No. D-6, Industrial Focal Point, Dera Bassi, Mohali. The case was reconsidered in the 21<sup>st</sup> meeting of State Expert Appraisal Committee held on 11/4/2009.

After detailed deliberations on the presentation by the Members, it was decided to categorise the project into B1 category and that the industry should submit an Environment Impact Assessment Study Report. After further deliberations on the proposed Terms of Reference (TOR) suggested by the project proponent, the Committee approved the following Terms of Reference (TOR) for Environmental Impact Assessment Study of the proposed project:-

**A. Project Description**

- Executive summary of the project
- Compliance status to the conditions stipulated while according environmental clearance to the existing project / NOC granted.
- Justification of the project.
- Promoters and their back ground

- Project site location alongwith site map of 10 Km area and site details providing various industries, surface water bodies, forests etc.
- Project cost
- Regulatory framework
- Project location and plan layout
- Existing infrastructure facilities including power sources.
- Existing environmental scenario, stack emission data
- Total cost of the project alongwith cost for environment protection measures.
- Water source and utilization including existing and proposed water balance.
- Product spectrum (existing and proposed products alongwith production capacity) and processes.
- List of hazardous chemicals with their toxicity levels.
- Storage and Transportation of raw materials and products.
- Mass balance of each product alongwith the batch size.
- Pollution potential from the proposed products
- Detailed scheme for wastewater treatment alongwith characteristics of inlet and outlet wastewater. The treatment scheme to meet discharge norms of as prescribed by Punjab Pollution Control Board.

**B. Description of the Environment and Baseline Data Collection**

- Demarcation of Impact boundary (5 Km from the project site)
- Micrometeorological data for wind speed, direction, temperature, humidity and rainfall in 5 km area.
- Study of data from secondary sources.
- Topography, drainage and soil characteristics. Local area hydrology, storm water drainage etc.
- Details of the water source available in the impact area (depth of ground water table, data from the available secondary sources)
- Other industries in the impact area.
- Prevailing environment quality standards.

- Existing environmental status vis-à-vis air, water, noise, soil in 5 km area from the project site for SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> and NH<sub>3</sub>.
- Periodic monitoring of vents from condensers in the existing plant.

### **C. Socio Economic Data**

- Existing socio-economic status, land use pattern and infrastructure facilities available in the study area were surveyed.

### **D. Impact Identification and Mitigatory Measures**

- Identification of impacting activities from the proposed project during construction and operational phase.
- Impact on air (Organic and inorganic pollutants) and mitigation measures including green belt.
- Impact on water environment and mitigation measures (details of effluent treatment plant design will be in EMP). Location of final disposal and downstream usage of disposal point.
- Soil pollution source and mitigation measures.
- Noise generation and control.
- Ground water abstraction and its impact on water sources.
- Solid waste quantification and disposal.
- Control of fugitive emissions.

### **E. Environmental Management Plan**

- Details of pollution control measures.
- Environment Management team.
- Proposed schedule for environmental monitoring including post project monitoring for air, water, soil and noise.
- Chillers should be provided for chilled brine circulation to condensate the solvent vapors and reduce solvent losses.
- Solvent recovery plant should be installed to recover the solvents and solvents generated from the vents and in the work zone environment should be monitored.

- Industry should treat the effluent and treated effluent shall comply with the industry specific standards.

#### **F. Risk Assessment**

- Objectives, Philosophy and methodology of risk assessment
- Details of manufacturing process of proposed products.
- Details on storage facilities.
- Process safety, transportation, fire fighting systems, safety features and emergency capabilities to be adopted.
- Identification of hazardous.
- Compatibility studies and special hazardous.
- Consequence analysis through occurrence and evaluation of incidents.
- Selection of incidents and consequence calculations.
- Recommendations on the basis of risk assessment done
- Disaster Management Plan
- Safety precautions for the storage of chemicals and vapour condensation.
- Safety precaution for handling and transportation of Bromine.

#### **G. Occupational Health and Safety Program for the Project**

#### **H. Information on Rain Water Harvesting**

#### **I. Green Belt Development Plan**

It was decided that TORs prescribed by the State Expert Appraisal Committee should be considered for the preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix-III and IIIA in the EIA Notification, 2006 and apply to the Chairman, Punjab Pollution Control Board for conducting public hearing as per EIA Notification, 2006 on submitting EIA / EMP prepared by the industry as per additional TORs.

After completing the process of public hearing / public consultation, the industry should submit final EIA / EMP Report to the State Expert Appraisal Committee after incorporating all the issues raised during public hearing / public consultation for Appraisal of its project.

**Secretary (SEAC)**

**Endst. No.** \_\_\_\_\_

**Dated** \_\_\_\_\_

A copy of the above is forwarded to the following for information and necessary action :-

1. The Secretary to Govt. of India, Ministry of Environment & Forests, Govt. of India, CGO Complex, Lodhi Road, New Delhi.
2. The Director, Northern Regional Office, Ministry of Environment & Forests, Bays No. 24-25, Sector 31-A, Dakshin Marg, Chandigarh.
3. The Member Secretary, State Environment Impact Assessment Authority, Vatavaran Bhawan, Nabha Road, Patiala.
4. The Member Secretary, Punjab Pollution Control Board, Vatavaran Bhawan, Nabha Road, Patiala.
5. The Senior Environmental Engineer (Computer), Punjab Pollution Control Board, Head Office, Patiala. He is requested to display the approved Terms of Reference given to the industry on the website of State Environment Impact Assessment Authority.

**Secretary (SEAC)**