

F. No. J-11011/121/2008- IA II (I)  
Government of India  
Ministry of Environment and Forests  
(I.A. Division)

Paryavaran Bhawan  
CGO Complex, Lodhi Road  
New Delhi – 110 003  
E-mail : [plahujarai@yahoo.com](mailto:plahujarai@yahoo.com)  
Telefax: 011 – 2436 3973  
Dated: May 13, 2009

To,  
The Deputy General Manager (Environment)  
M/s Indian Glycols Limited  
A-1, Industrial Area, Bazpur Road, Kashipur Distt.,  
Udham Singh Nagar, Uttarakhand

E-mail : [agautam@indiaglycols.net](mailto:agautam@indiaglycols.net)

**Sub: Expansion and modernization of existing chemicals manufacturing unit and 21MW of Captive Power generation at A-1, industrial Area, Bazpur Road, Kashipur, Distt: Udham Singh Nagar, Uttarakhand by M/s Indian Glycols Limited- reg. environmental clearance**

Sir,

This has reference to your letter no. MOEF/AG/EC/KSP/596 dated 24.02.2009 along with Form-1 and pre-feasibility report on the above mentioned subject seeking environmental clearance under the Environmental Impact Assessment Notification, 2006.

2. The Ministry of Environment and Forests has examined your application. It is noted that M/s Indian Glycols Limited have proposed for expansion and modernization of existing chemicals manufacturing unit and 21 MW captive power generation at A-1, industrial Area, Distt: Udham Singh Nagar, Kashipur in Uttarakhand. Presently, the unit is manufacturing 1,20,000 MTPA of Mono Ethylene glycol (MEG), 9600 MTPA of Di ethylene glycol (DEG) and 1200 MTPA of Tri Ethylene glycol (TEG), 55,000 MTPA of Ethylene oxide (EO) and 20,000 MTPA of Ethylene oxide derivatives, condensates, sulphated, formulated, glycol ether and glycol ether acetate. Due to proposed expansion, the company proposes to manufacture additional chemical from the existing range under ethylene oxide derivatives, condensates, sulphated, formulated, glycol ether and glycol ether acetate. The total proposed capacity to be added 40,000 MTPA along with the installation of two nos. of 21 MW turbines for captive power generation. Proposed expansion will be within the existing unit having land area of 303 acres. No eco-sensitive areas are located within 10 km radius of the plant. River Kosi flows at a distance of 4.5 km from the unit. Cost of the project is Rs. 20.00 crores.

3.0 Water requirement of 459 m<sup>3</sup>/day will be met from the ground water source. There will be no process effluent generation. Only floor washings will be generated which will be neutralized and after pH correction will be discharged in to the industrial drain. Solid waste generation will be in the form of coal ash (40 MT/day) and will be provided to cement industry. Power requirement of 10-12 MW will be met from the UPCL/ proposed 21 MW turbines. Fuel for the boiler will be coal/biogas/bagasse (150MT/day). Process emissions generated in the form of HCl from sulphation reaction will be controlled by providing scrubber. ESP and stack height of 45 m is proposed to control particulate emissions from 30 TPH coal /bio gas/bagasse fired boiler. Existing boilers are having stack height of 45m, 68m and 86m.

4.0 The project activity is listed at serial no. 5(f) of schedule of EIA Notification, 2006 and categorized under "A" or "B" category depending upon the location of the plant outside or inside the notified industrial area. In the instant case, the plant is located within the notified industrial area and is covered under category "B". As the project is located within 10 km radius of inter-state boundary; hence, as per general condition of EIA Notification, 2006, the proposal was appraised at central level.

5.0 The Expert Appraisal Committee (I) considered the project in its 93<sup>rd</sup> meeting held during 14-16<sup>th</sup> April, 2009. The Committee recommended the proposal for environmental clearance under para 7(ii) of Environmental Impact Assessment Notification exempting the proposal from preparation of EIA/EMP report. As the unit is located in the industrial estate, the public hearing/consultation of the project is not required as per para 7 (i)-III (b) Stage (3) – public consultation of EIA Notification, 2006.

**A. SPECIFIC CONDITIONS:**

- i. There shall be no process effluent generation. The waste water (900 – 1000 m<sup>3</sup>/d) generated due to floor washing shall be neutralized in the existing pit and after pH correction shall be discharged into the industrial drain.
- ii. The process emissions in the form of HCl shall be scrubbed with scrubber and emissions shall conform to the prescribed standards. For dispersion of particulate emissions from 30 TPH biogas / baggase / coal fired boiler shall be controlled by installation of ESP and emissions shall be dispersed through stack of adequate height as per CPCB standards.
- iii. The company shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on SPM, SO<sub>2</sub>, NO<sub>x</sub> and HCl on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and the State Pollution Control Board. The VOC shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- iv. The company shall adopt cleaner production technology to minimize the quantity of fresh water requirement and process effluent generation.
- v. The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000. All Transportation of Hazardous Chemicals shall be as per the MVA, 1989.

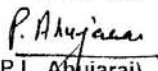
- vi. The company shall undertake following Waste Minimization measures :-
- Metering and control of quantities of active ingredients to minimize waste.
  - Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
  - Use of automated filling to minimize spillage.
  - Use of "Close Feed" system into batch reactors.
  - Venting equipment through vapour recovery system.
  - Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- vii. Fugitive emissions in the work zone environment, product, raw material storage area shall be regularly monitored. The emissions shall conform to the limits imposed by SPCB.
- viii. Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc. An area of 33% shall be developed as green belt. Selection of plants species shall be *as per* the Guidelines of CPCB.
- ix. Permission shall be obtained from the State Ground Water Department/ Central Ground Water Board to draw the water as may be applicable to this case.
- x. The Company shall harvest surface as well as rainwater from the rooftops of the buildings and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.
- xi. Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained *as per* the Factories Act

**B. GENERAL CONDITIONS:**

- i. The project authorities shall strictly adhere to the stipulations made by the State Pollution Control Board.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- iii. 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.

- iv. The gaseous emissions (NO<sub>x</sub>, SO<sub>2</sub> and SPM ) and Particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Stack monitoring for SO<sub>2</sub>, NO<sub>x</sub> and SPM shall be carried.
- v. The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the up wind and downwind direction as well as where maximum ground level concentrations are anticipated.
- vi. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- vii. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.
- viii. Usage of PPEs by all employees/ workers shall be ensured.
- ix. The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the project report submitted to the Ministry. All the recommendations made in respect of environmental management and risk mitigation measures relating to the project shall be implemented.
- x. The company will undertake all relevant measures for improving the Socio-economic conditions of the surrounding area. CSR activities will be undertaken by involving local villages and administration
- xi. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- xii. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions
- xiii. 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.

- xiv. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.
  - xv. The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's Regional Office at Lucknow /State Pollution Control Board/Central Pollution Control Board.
  - xvi. The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue 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.
  - xvii. The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
9. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
10. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.
11. Any appeal against this environmental clearance shall lie with the National Appellate Authority, if preferred, within a period of 30 days as prescribed under section 11 of the National Environment Appellate Authority Act, 1997.
12. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986 Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

  
(Dr.P.L. Ahujarai)  
Director

**Copy to :**

1. Secretary, State Department of Environment, Government of Uttaranchal, Dehradun, Uttaranchal.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 110032.
3. The Chairman, Uttaranchal Environmental Protection and Pollution Control Board, E-115, Nehru Colony, Dehradun, Uttaranchal.
4. The Chief Conservator of Forests, Regional Office (Central Region), Kendriya Sadan, Sector H, 5<sup>th</sup> Floor, Aliganj, Lucknow ? 226 024, U.P.
5. Adviser - IAI (I), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi. - 110003.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
7. Guard file.
8. Record file
9. Monitoring file.

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(Dr. P.L. Ahujarai)  
Director