

F. No. J-11011/770/2007- IA II (I)  
**Government of India**  
**Ministry of Environment and Forests**  
**(I.A. Division)**

**Paryavaran Bhawan**  
**CGO Complex, Lodhi Road**  
**New Delhi – 110 003**

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Dated 12<sup>th</sup> March, 2007

To,

✓  
M/s India Glycols Ltd.  
A-1, Industrial Area, Bazipur Road  
Kashipur-244 713. District U.S. Nagar  
Uttarakhand

**E-mail : [iglho@vsnl.com](mailto:iglho@vsnl.com) / [agautum@indiaglycols.net](mailto:agautum@indiaglycols.net)**  
**Fax No. : 05947-275315, 01126810390/26819410**

**Subject : Expansion of Super Critical Fluid Extraction (SCFE) Unit for the production of Natural Health Production (150 to 1,050 kg/day) at Plot No. 4, Pharma City, SIDCUL, Selaqui Industrial Area, Dehradun, Uttarakhand by M/s India Glycols Ltd. – Environmental clearance reg.**

Sir,

This has reference to your letter no. MOEF/AG/EC/DD dated 27<sup>th</sup> July, 2007 on the above mentioned subject alongwith duly-filled Form I, draft TORs and Pre-feasibility Report and subsequent communication vide letter dated 22<sup>nd</sup> October, 2007 seeking approval as per S.O. 102(E) Doon Valley Notification dated 1<sup>st</sup> February, 1989.

2.0 The Ministry of Environment & Forests has examined the application. It is noted that M/s India Glycols Ltd. has proposed for the expansion of Super Critical Fluid Extraction (SCFE) Unit for the production of Natural Health Production (150 to 1050 kg/day) at Plot No. 4, Pharma City, notified SIDCUL Selaqui Industrial Area, Dehradun, Uttarakhand. Total project area is 7,200 m<sup>2</sup>. Total cost of the project is Rs. 4.00 Crores.

3.0 Herbal raw materials like Ginger, Turmeric, Chilly, Stevia, Rosemary, Pyrethrum and Chemomomile etc. will be used to manufacture natural products. More than 50 products will be manufactured. Super Critical Fluid (i.e. CO<sub>2</sub>) Extraction Technology; Aqueous and Aqueous Alcoholic Recycling Batch Extraction Process; Aqueous Open Vessels Live Steam Heated Extraction Process and Semi-Mechanized Steam Distillation Process will be used for the production of natural health products.

4.0 Boiler will be provided with scrubbers to scrub the gases. Total ground water requirement will be 251 m<sup>3</sup>/day. No chemicals will be added in the process. Water will be recycled and reused in the cooling tower and boiler. No effluent will be generated from the production process. Solid waste generated in the form of herbal parts will be used as manure after bio-composting.

5.0 No public hearing is required as per Section 7 (ii) of EIA Notification, 2006 due to location of the project in the notified SIDCUL Selaqui Industrial Area. The Uttranchal

Environment Conservation and Pollution Control Board has accorded 'No Objection Certificate' vide letter no. UEPPCB/HO/NOC-662/06/791 dated 3<sup>rd</sup> August, 2006.

6.0 The Ministry of Environment and Forests has discussed the environmental impacts of the above project and grants permission under Doon Valley Notification dated 1<sup>st</sup> February, 1989 subject to the following conditions :

**A. SPECIFIC CONDITIONS :**

- i) Stacks of proper height and adequate pollution control equipments shall be provided to the boiler and DG sets to control gaseous emissions within the permissible limits prescribed by Uttaranchal Environment Protection and Pollution Control Board (UEP&PCB) and reports submitted to the Ministry's Regional Office at Lucknow, CPCB and UEP&PCB.
- ii) All the solvents used during aqueous alcoholic extraction process viz. methanol, hexane, acetone and IPA shall be recycled and reused after recovering through evaporation and condensation process. Spray driers shall be provided for the recovery of solvents.
- iii) Total ground water requirement shall not exceed 251 m<sup>3</sup>/day and prior permission for the drawl of ground water shall be obtained from the State Ground Water Board / Central Ground Water Authority (SGWB/CGWA). All the wastewater shall be recycled and reused as make up water for cooling towers or as steam condensate in the boiler or for green belt development. No effluent shall be discharged outside the premises and 'Zero' discharge shall be strictly adopted.
- iv) All the solid waste generated shall be used as manure after bio-composting process and shall not be disposed off outside the premises. All the packaging material shall be disposed off in the environment-friendly manner.
- v) Green belt shall be developed in 33 % area with suitable species of the plants as per the CPCB guidelines to mitigate the effects of fugitive emissions.
- vi) No captive power plant shall be installed without prior approval of the Ministry.
- vii) Acoustic enclosures shall be provided around the DG sets (750 KWx2) to control noise levels within the permissible limits.

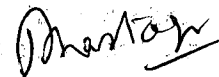
**B. GENERAL CONDITIONS:**

- i. The project authorities must strictly adhere to the stipulations made by the Uttaranchal Environmental Protection and Pollution Control Board (UEP&PCB) and the State Government.
- ii. No further expansion/modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.
- iii. Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentration are anticipated in consultation with the UEP & PCB and reports submitted to the UEP & PCB.

- iv. Fugitive emissions in the work zone environment, product, raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the UEP & PCB.
- v. The company shall adopt suitable surface as well as roof top rain water harvesting measures to harvest the run off water for recharge of ground water. Methods shall also be adopted for the conservation of water through and recycling and reusing the treated wastewater.
- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vii. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. The project proponent shall also comply with safeguards recommended in the EIA/EMP Report.
- viii. The project authorities shall set up a separate environmental management cell for effective implementation of all the above stipulations under control of Senior Executive.
- ix. Adequate funds shall be kept towards capital cost and recurring cost/annum for environmental pollution control measures and used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purposes.

7.0 The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

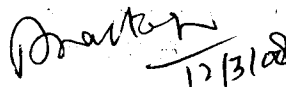
8.0 The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.



**(Dr. P. B. Rastogi)**  
Director

Copy to :

1. Secretary, Department of Environment, Government of Uttarakhand, Dehradun, Uttarakhand.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 110032.
3. The Chairman, Uttranchal Environmental Protection and Pollution Control Board, E-115, Nehru Colony, Dehradun, Uttarakhand.
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. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
6. Guard file.
7. Record file.
8. Monitoring file.



**(Dr. P. B. Rastogi)**  
Director