



# INDIA GLYCOLS LIMITED

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Website : www.indiaglycols.com

Ref: AG/MoEF & CC/EC COMP/HERBAL/2019/02

Date: November 28<sup>th</sup>, 2019

To,  
Dr. S.C. Katiyar, Scientist 'E', GOI  
Ministry of Environment, Forests & Climate Change  
Regional Office (North-Central Zone)  
25, Subhash Road, Dehradun - 248001

**Sub: Six Monthly Compliance Report of the Conditions of Environmental Clearance of Expansion of Super Critical Fluid Extraction (SCFE) Unit for production of Natural Health Product (150 to 1050 kg/day) at Plot No 03 - 04, Pharma City, "SIIDCUL", Selaqui Industrial Area, Dehradun by M/s India Glycols Limited.**

EC Clearance Letter No: *F. No. J - 11011/770/2007 - IA II (I), Dated 12.03.2008*

Dear Sir,

Please find enclosed herewith the Compliance Report of the Conditions of Environmental Clearance of *Expansion of Super Critical Fluid Extraction (SCFE) Unit for production of Natural Health Product (150 to 1050 kg/day)* at Plot No 03 - 04, Pharma City, "SIIDCUL", Selaqui Industrial Area, Dehradun by M/s India Glycols Limited, for the Period **April, 2019 to September, 2019** along with dully filled Data - Sheet.

We hope that the given data would be sufficient to meet the requirement.

With best regards,

Yours faithfully  
For M/s INDIA GLYCOLS LIMITED

(Dr. Ashutosh Gautam)  
Head (Environment)



Encl: Compliance Report for the Period of April, 2019 to September, 2019

CC: CPCB, Zonal Office (North), PICUP Bhawan, Vibhuti Khand, Gomti Nagar, Lucknow  
226010

UEPPCB, "Goura Devi Paryavaran Bhawan", 46 B, I.T. Park, Sahastradhara Road  
Dehradun - 248001, Uttarakhand

**ANNEXURE – 1**

**M/s INDIA GLYCOLS LIMITED**

**Name of the Project:** Expansion of Super Critical Fluid Extraction (SCFE) Unit for the production of Natural Health Production (150 to 1050 kg/day) at Plot No. 03 – 04, Pharma City, SIIDCUL, Selaqui Industrial Area, Dehradun, Uttarakhand.

**Clearance Letter No:** – J-11011/770/2007 – IA II (I), Dated 12.03.2008

**Period of Compliance Report:** April, 2019 to September, 2019

| <b>A. SPECIFIC CONDITIONS</b>   |   |
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| <b>CONDITIONS</b>   | <b>COMPLIANCE STATUS</b>  |
| <b>i.</b> Stack of proper height and adequate pollution control equipment's 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.   | : Stack height of the Boiler and DG sets is kept as per the Norms of UEPPCB (42 m & 15 m AGL respectively). Emissions are well within the Norms.<br><br>Stack emission monitoring report (Month of June 2019) is attached as <u>Annexure – I</u> .<br><br>We are regularly submitting Six Monthly Compliance Report well within the due course to the respective Offices.   |
| <b>ii.</b> 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.  | : All the Solvents used for Extraction process are recycled back to the next batch after recovering through Evaporation and Condensation Process of Super Critical Fluid Extraction.  |
| <b>iii.</b> 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 Board Authority (SGWB/CGWA). All the waste water 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. | : Ground water is being extracted from existing bore well and the NOC from Central Ground Water Board Authority (CGWA) has been obtained. A copy of the same is attached as <u>Annexure – II</u> .<br><br>Water is being used for Domestic purpose is 4.0 KL / day. Domestic effluent is subjected to existing STP cum ETP.<br>Net Water requirement for Production of Natural Health Products (Concentrate Syrup/Powder) is 23.90 KLD.<br>We have installed 10.0 KLD capacity of |



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|      |  |   | <p>STP cum ETP of advance technology for recovery of treated water in a scientific manner. The major advantage in this Plant is that it can treat sewage in one common unit for final utilization as make up water for Cooling Towers. Analysis report of STP cum ETP O/L is attached as <u><i>Annexure – III.</i></u></p> <p>No effluent generation from the Process, all the water from Aqueous Alcoholic Extraction Process, SCFE Process, Semi Mechanized, and Steam Distillation Process is being recycled back to Cooling Towers and steam condensate is being recycled back to the Boiler.</p> |
| 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. | : | <p>Solid Herbal Parts (Flowers/ Roots/ Leaves/Stems) obtained after extraction process is being used in briquette formation &amp; utilized as a fuel in the existing boiler. Packaging material is being sold to the respective vendors.</p>  |
| 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.  | : | <p>A number of Trees suitable to the local condition have been planted in vacant space under Green belt development in such a fashion, to create an effective barrier between the Plant and the surroundings, and regular practice is being continued for strengthened the Green-belt. <u><i>Annexure –IV.</i></u></p>  |
| vi.  | No Captive Power Plant shall be installed without prior approval of the Ministry.  | : | <p>No Captive Power Plant will be installed without getting the prior approval of the MoEF&amp; CC, New Delhi.</p>  |
| vii. | Acoustic enclosures shall be provided around the DG set (750 KW x 02) to control noise level within the permissible limits.  | : | <p>Green insulated DG sets are installed and operated whenever there is a Power failure from UPCL. Acoustic enclosure is provided for DG set therefore noise level is well below the permissible limits. Ambient Noise monitoring reports are attached as <u><i>Annexure – V.</i></u></p>   |

### B. GENERAL CONDITIONS

| CONDITIONS |  | : | COMPLIANCE STATUS                                    |
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| i.         | The Project authorities must strictly adhere to the stipulations made by the Uttaranchal | : | <p>Agreed.<br/>Company is complying with all the</p> |



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|       | Environmental Protection and Pollution Control Board (UEP&PCB) and the State Government.  |   | stipulations made by the UEPPCB and the State Government. Copy of CCA is attached as per <u>Annexure – VI</u> .   |
| ii.   | No further Expansion / Modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.   | : | Further Expansion & Modification work will not be carried out without prior approval of the MoEF& CC, New Delhi.  |
| iii.  | Ambient Air quality monitoring Stations shall be set up in the down wind direction as well as where maximum ground level concentration are anticipated in consultation with the UEP&PCB and report submitted to UEP&PCB.  | : | Facilities for Ambient Air Quality Monitoring have been provided to monitor PM <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> , in the down wind direction as well as where maximum ground level concentration are anticipated. (AAQ Monitoring reports are attached as per <u>Annexure- VII</u> ).  |
| iv.   | Fugitive emissions in the work zone environment, product and raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the UEP&PCB.   | : | No fugitive emission is takes place. Work zone monitoring is attached also.   |
| 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 waste water. | : | Roof top Rain water harvesting scheme has been implemented within the premises by providing 04 Nos. of recharge pits. Approx. 5000 Cum/Annum of Rain Water will be available for Recharge. Photo's are attached as <u>Annexure – VIII</u> .<br><br>Recycling / reuse of Condensate water / Boiler blow down are being adopted.<br>Treated water from STP cum ETP is being reused in green belt & cooling tower. |
| vi.   | Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.   | : | Regular checkup of the employee's health is being done and record is maintained.  |
| 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.                 | : | Company is already engaging to undertake various eco – developmental measures and community welfare activities.<br><br>EIA/EMP measures are implemented & being followed decently.  |
| 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.   | : | A Panel of experienced Technical Personnel & qualified Chemists are engaged for Environment Management Division. Enclosed as per <u>Annexure – IX</u> .   |



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| <b>ix.</b> | 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 Forest as well as the State Government. The funds so provided shall not be diverted for any other purposes. | : | Recurring and non-recurring fund are arranged by the management as per the requirement to implement the conditions stipulated by MoEF & CC and SPCB. |
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