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INDIA GLYCOLS LIMITED

Works & Registered Office : A-1, Industrial Area, Bazpur Road, Kashipur - 244713 Dist. Udham Singh Nagar (Uttarakhand)
Tel. No.: +91 5947 269000 / 269500 / 275320, +91 9411108202, Fax No.: +91 5947 275315, 269535
Website : www.indiaglycols.com

Ref: AG/MoEF& CC/EC COMP/HERBAL/2018/

Date: 01st, December 2018

To,

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

Sub: Six Monthly Compliance Report of the Conditions of Environmental Clearance of Expansion of Super Critical Fluid Extraction Unit at Plot No 02 – 05, Pharma City, "SIDCUL", Selaqui Industrial Area, Dehradun by M/s India Glycols Limited.

EC Clearance Letter 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 Unit* at Plot No 02 – 05, Pharma City, "SIDCUL", Selaqui Industrial Area, Dehradun by M/s India Glycols Limited, for the Period **April, 2018 to September, 2018** 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
General Manager (Environment)



Encl: Compliance Report for the Period of April, 2018 to September, 2018

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

UEPPCB, 29/20, Nemi Road, Daalanwala, Dehradun – 248001

Vishal
5/12/18



ANNEXURE - 1

M/s INDIA GLYCOLS LIMITED

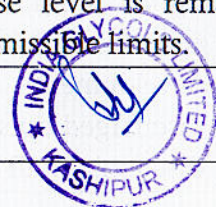
Name of the Project: Expansion of Super Critical Fluid Extraction (SCFE) Unit for the production of Natural Health Products at Plot No. 02 - 05, Pharma City, SIDCUL, Selaqui Industrial Area, Dehradun, Uttarakhand

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

A. SPECIFIC CONDITIONS	
CONDITIONS	COMPLIANCE STATUS
i. 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 (UEPPCB) and reports submitted to the Ministry's Regional Office at Lucknow, CPCB and UEPPCB.	: Stack height of the Boiler and DG sets (42 m & 15 m AGL respectively) is kept as per the Norms of UEPPCB. Emissions are well within the Norms. Stack emission monitoring report is enclosed as <u>Annexure - I</u> . We are regularly submitting Six Monthly Compliance Report well within the due course to the respective Offices.
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.	: 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.
iii. Total ground water requirement shall not exceed 251 m ³ / 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 permission from Central Ground Water Board Authority (CGWA) has been obtained. A photocopy is enclosed as <u>Annexure - II</u> . Water is being used for Domestic purpose is 4.0 KL / day. Domestic effluent is subjected to existing STP cum ETP. Net Water requirement for Production of Natural Health Products i.e. Concentrate Syrup / Powder 2000 KL.

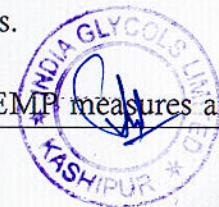


			<p>We have installed adequate capacity of STP cum ETP of advance technology for recovery of treated water in a scientific manner. The major advantage in this Plant is that it can treat sewage in one common unit for final utilization as make up water for Cooling Tower.</p> <p>No effluent generation from the Process, all the water from Aqueous Alcoholic Extraction Process, SCFE Process, Semi Mechanized, and Steam Distillation Process is being recycled back to Cooling Tower 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>Residual agricultural waste i.e. Biomass generated from processing of Spices & Herbs in the existing process is being used as a fuel (briquette form) in the Boiler.</p> <p>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. <i>Annexure –III.</i></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& 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>Silent insulated green DG sets are installed and operated whenever there is a Power failure from UPCL. All the Process is in closed loop condition; therefore noise level is remaining well below the permissible limits.</p>



B.GENERAL CONDITIONS

CONDITIONS		:	COMPLIANCE STATUS
i.	The Project authorities must strictly adhere to the stipulations made by the Uttaranchal Environmental Protection and Pollution Control Board (UEPPCB) and the State Government.	:	Agreed. Company is complying with all the stipulations made by the UEPPCB. Copy of CCA is attached as per <u>Annexure – IV</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 UEPPCB and report submitted to UEPPCB.	:	Facilities for Ambient Air Quality Monitoring have been provided to monitor PM _{2.5} , PM ₁₀ , SO ₂ , NO _x , in the down wind direction as well as where maximum ground level concentration are anticipated. (AAQ Monitoring reports are attached as per <u>Annexure- V</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 UEPPCB.	:	No fugitive emission is takes place.
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.	:	Rain water harvesting scheme has been implemented. Recycling / reuse of Condensate water / Boiler blow down are being adopted.
vi.	Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	:	Regular check up 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	:	Company is already engaging to undertake various eco – developmental measures and community welfare activities. EIA / EMP measures are being followed



	in the EIA / EMP Report.		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 - VI</u> .
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 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.

