



# INDIA GLYCOLS LIMITED



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Website : www.indiaglycols.com

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

Date: Nov 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 Herbal Extraction Unit based on Super Critical Fluid Extraction (SCFE) Technology in the Existing Complex by M/s India Glycols Limited.**

Environmental Clearance Letter No. : 206.9(7)/2013 dated 21 October, 2013

Dear Sir,

Please find enclosed herewith the Compliance Report of the Conditions of Environmental Clearance of *Expansion of Existing Herbal Extraction Unit based on Super Critical Fluid Extraction (SCFE) Technology to Produce Natural Health Products by Processing of Spices & Herbs* at Plot No 02 - 05, Pharma City, "SIIDCUL", Selaqui Industrial Area, Dehradun by M/s India Glycols Limited, for the 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

State Level Environment Impact Assessment Authority (SEIAA)  
653, Indira Nagar Colony, Seemadwar Road, Dehradun, Uttarakhand



**M/s INDIA GLYCOLS LIMITED**

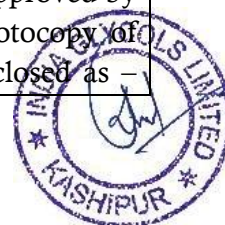
**Compliance Report of Stipulated Conditions of Environmental Clearance**

**Project Name:**Expansion of existing Herbal Extraction Unit based on SCFE Technology to produce Natural Health Products at Plot No. 02-05, SIIDCUL, Selaqui Industrial Area, Pharma City, Dehradun

**Environmental Clearance Letter No. :** 206.9(7)/2013 dated 21 October, 2013

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

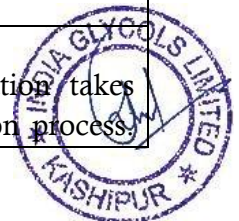
<b>S. No.</b>	<b>Conditions</b>	<b>:</b>	<b>Compliance Status</b>
1.	The Environmental Clearance is being granted for the expansion Super Critical Fluid Extraction (SCFE) unit for the production of natural health products with enhanced production capacity of 2050 Kg per Day.	:	Agreed, The Environmental Clearance is granted for the expansion of Herbal Extraction Unit base on Super Critical Fluid Extraction (SCFE) for the production of natural health products.
2.	Any further expansion or modification in the process formulation shall require fresh Environmental Clearance.	:	Agreed & accepted.
3.	Consent to Establish/Consent to Operate shall be obtained from Uttarakhand Environment Protection and Pollution Control Board under relevant provisions of Central. Air Act and Central Water Act before starting up of any construction activity at the site.	:	Yes, Consent to Establish and Consent to Operate has been obtained from Uttarakhand Environment Protection and Pollution Control Board (UEPPCB) under relevant provisions of Central. Air Act and Central Water Act. <i>(Annexure – I)</i>
4.	The construction of new unit and installation of additional equipment's /machineries shall be done in the part vacant land lying in the plant premises.	:	Agreed, additional equipment's i.e. Rotary Extractors, WFE, SS Reactor, Pumps, Solvent drums, Storage shed, Cooling tower has been installed in the part vacant land.
5.	The Site Lay out Plan and Building Plan should be approved by the concerned Department/Agency of the State Government before work start up at the construction site. The structural design and other aspects of the building shall	:	Agreed. Industry is situated in "SIIDCUL" Selaqui industrial area & Site Lay out Plan has been duly approved by competent authority. photocopy of Site Lay Out Plan is enclosed as -



	comply with guidelines of National Building Code. This shall be ensured by concerned Department of State Government/Accredited Agencies.		<u><i>(Annexure – II)</i></u>
6.	During any type of construction in the existing land area, the topsoil excavated shall be used for backfilling/landscape development/green belt development. The same shall not be disposed off outside the boundaries of project site without approval of Competent Authority.	:	During the construction phase, top soil so excavated has been used for landscape /green belt development.
7.	The water requirement during construction phase shall be met from regular water supply/tankers . Construction work requiring water shall not be carried out during 30 <sup>th</sup> April to 15 <sup>th</sup> June in the year.	:	Agreed and Accepted
8.	The use of groundwater from tube wells shall be restricted to emergency purposes/additional requirement as approved by Competent Authority. The use of ground water shall be allowed after approval of Central Ground Water Board.	:	Agreed Permission from Central Ground Water Board Authority (CGWA) has been obtained. A photocopy is enclosed as <u><i>(Annexure – III)</i></u>
9.	The soil and ground water samples shall be tested from accredited labs and it shall be ensured that test results comply with CPCB standards so as to ensure that there is no threat to groundwater quality by leaching of heavy metals and toxic contaminants.	:	The soil and ground water samples are analyzed by accredited laboratory. This is a Herbal Extraction Unit and no use of hazardous chemicals. So there is no possibility of leaching of heavy metals and other toxic contaminants in to the ground water. Analysis Reports are enclosed as per <u><i>(Annexure – IV)</i></u> .
10.	The plant premises shall adopt suitable surface as well as roof top rain water harvesting measures to harvest the runoff water for recharge of ground water. Methods shall be adopted for the conservation of water through and recycling and reusing 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 is available for Recharge. Photo's are attached as <u><i>Annexure – V.</i></u>  Recycling / reuse of Condensate



		water / Boiler blow down are being adopted. Treated water from STP cum ETP is being reused in green belt & cooling tower.
11.	Boiler of capacity 2000 Kg/Hr will be installed. DG set of capacity 500 KVA will be installed. No captive power plant shall be installed.	: Proposal for installing 2000 kg/hr boiler dropped and only DG set of capacity 500 KVA installed.
12.	Acoustic enclosures shall be provided with all machineries and DG sets on site complying with Noise Levels of CPCB standards.	: Green insulated DG Set has been installed with Acoustic enclosures. Existing Green belt is being strengthened within the project boundary to reduce the noise escape in surroundings area. Noise Levels will be monitored regularly. Ambient Noise Level Monitoring Reports are enclosed as - ( <u>Annexure – VI</u> )
13.	Stacks of proper height and adequate pollution control equipments shall be provided to the boiler and DG sets to control gaseous emissions within the parameter limits of CPCB. Scrubbers shall be provided to scrub the gases.	: Stack height has been provided to the boiler and DG sets as per CPCB standards (42 m & 15 m AGL respectively). Stacks emission report is attached as ( <u>Annexure – VII.</u> )
14.	The raw materials used shall be procured from authorized dealers. Any raw material categorized as endemic/rare by the State Biodiversity Board shall be procured from dealers after obtaining authorization certificate from the State Biodiversity Board.	: Raw materials are purchased from authorized dealers. As per Biological diversity Act, 2002 and Biological diversity Rules, 2004, no any species of plants which are on the verge of extinction will be used the production process. Only those Herbs which are commercially grown are utilized for proposed production of Natural Health products.
15.	All solvents used during aqueous alcoholic extraction process shall be recycled and reused after recovering through evaporation and condensation process.	: All the Solvents used for Extraction process are recycled back to the next batch after recovering through Evaporation and Condensation Process.
16.	No waste water shall be discharged outside the plant boundary and Zero discharge shall be ensured. Domestic	: Agreed. No waste water generation takes place from the production process.




	effluent shall be treated in the STP and treated water shall be used for green belt, road washing and other miscellaneous purposes.	Sewage is being treated through STP cum ETP (10.0 KLPD) & treated effluent is being utilized as make up water for Cooling Tower. Analysis Report of STP cum ETP O/L is attached as <u><i>Annexure – VIII.</i></u>
17.	All solid waste generated shall be used as manure after bio-composting process and shall not be disposed off outside the premises.	: Solid Herbal Parts (Flowers/ Roots/ Leaves/Stems) remains after extraction process is being used in briquette formation & utilized as a fuel in the existing boiler.
18.	All the residue and wastes arising from this formulation including cleaning residue process shall be either sent to TSDF for land filling or for incineration. Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc. Flame arresters shall be provided at desired points like flares and Solvent transfer shall be done by pumps such kind. Regular monitoring of HC and VOC shall be carried out in solvent storage areas at all vents, in work zone area and in the ambient air at probable locations in and around the plant.	: Since its a herbal extraction unit there is no generation of any type of Hazardous chemicals. During Aqueous – Alcoholic Extraction Process some quantity of Methanol, Hexane, Acetone, Ethyl Acetate and IPA are being used. All the above are recycled after recovering through evaporation and condensation process. Empty barrels and Used oil are being sold to the Authorized Recyclers of UEPPCB only. Work zone monitoring is being carried out regularly.
20.	The hazardous chemicals used shall have separate storage areas and handling units. It should be placed in isolated conditions with proper air conditioning and ventilation. Disposal of the barrels shall be done through authorized TSDF dealers.	: Agreed.
21.	The gaseous emissions (SO <sub>x</sub> , NO <sub>x</sub> , CO, VOC and HC) 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	: Ambient air quality, work zone monitoring is being done regularly from accredited laboratory of NABL/MoEF and copy of reports are enclosed as - ( <u><i>Annexure – IX</i></u> )



	adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	
22.	The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storages and Import of Hazardous Chemicals Rules, 1989, as amended from time to time. Authorization from the UEPPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.	: Agreed. Hazardous waste authorization has been obtained from UEPPCB & complied accordingly.
23.	All liquid raw materials shall be stored in storage tanks and drums. Closed handling systems for chemicals and solvents shall be provided. Magnetic seals shall be provided for pumps/agitators for reactors for reductions of fugitive emissions. Solvents traps shall be installed wherever necessary. Reactor generation solvent vapours will be connected to condensers with receivers.	: Respective measures are being followed for handling/storage of all the raw materials.
24.	All venting equipment shall have vapour recovery system. All the pumps and other equipments where there is a likelihood of Hydrocarbon leakages shall be provided with Leak Detection and Repair (LDAR) system and LEL indicators and Hydrocarbon detector. Provision for immediate isolation of such equipment, in case of a leakage shall also be made. The company shall provide a well defined Leak Detection and Repair (LDAR) program for quantification and control of fugitive emissions.	: All the mitigation measures are adopted & Guidelines are being followed to prevent exposure to avoid any hazard. NOC of Safety department is attached as <u>Annexure – X.</u>
25.	The vehicles used at the factory site should comply with emission norms and noise level standards of CPCB and State Transport Department. They should be operated only during non peak hours.	: It is being ensured.
26.	All necessary efforts shall be made to	: On-site Emergency Preparedness



	ensure safety and hygiene of workforce. Safety kit shall be provided to the workforce. First Aid facility shall be established and trained manpower to deal with emergency cases shall be engaged. The labour force engaged on site shall be screened for health from time to time.		Plan has been prepared, All safety measures are being adopted & adequate PPE'S are being provided to the workers. Training is being provided to the workers regularly for first aid measures in case of accident. Training / Awareness program on Safety is being conducted on regular basis.
27.	Adequate drinking water and sanitation facility shall be provided on site for the workforce. Provision shall be made for supply of domestic fuel to the workforce so that they do not remain dependent on adjoining forest areas for fuel wood.	:	Drinking water and sanitation facility has been provided on site for the workforce.
28.	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.	:	Training/awareness on safety & health aspects is being conducted regularly. Periodical medical examinations for all employees are being done also.
29.	The project authority shall also comply with all the environment protection measures and safeguards proposed in the EIA/EMP report. All the recommendations made in respect of environmental management and risk mitigation measures relating to the project shall be implemented.	:	Agreed and Accepted.
30.	If the area falls within 10 km radial distance from National Park/Sanctuary, then prior approval from National Board of Wild Life is required before work startup.	:	Not Applicable No National Park/Sanctuary coming within 10.0 Km radius.
31.	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	:	Complied. 
32.	The project proponent should advertise	:	Complied, Copy of advertisement

	in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded environmental clearance and copies of clearance letters are available in the office of SEIAA,Uttarakhand. The advertisement should be made within 7 days from the day of issue of the clearance letter.		are enclosed as - <i>(Annexure – XI)</i>
33.	The SEIAA Uttarakhand reserves the right to withdraw the Environmental Clearance subject to any change in the Government policy as may be applicable to this project.	:	Agreed
34.	If this Environmental Clearance is transferred then fresh Environment Clearance is to be obtained under EIA notification dated 14.09.2006. However, no activity shall be undertaken till the Environment Clearance is transferred in his name and he is lawfully bound to Comply with the conditions of the Environmental Clearance.	:	Agreed and Accepted
35.	Any appeal against this Environment Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section of the National Green Tribunal Act, 2010.	:	Agreed

