



## INDIA GLYCOLS LIMITED



Works & Registered Office : A-1, Industrial Area, Bazpur Road, Kashipur - 244713, Distt. Udham Singh Nagar (Uttarakhand)  
Phone : +91 5947 269000 / 269500, Fax : +91 5947 275315, 269535  
Website : www.indiaglycols.com

Ref: AG /MoEFCC/EC COMP/VALUE ADDITION/2021/01

Dated: May 28<sup>th</sup>, 2021

To,

**Dr. Krishnendu Mondal, Scientist 'C', GOI**  
**Ministry of Environment, Forests & Climate Change**  
**Regional Office (North-Central Zone)**  
**25, Subhash Road, Dehradun - 248001**

**Sub: Compliance Report of the Conditions of Environmental Clearance of Proposed modernization & expansion of existing Herbal Extraction Unit based on Super Critical Fluid Extraction (SCFE), Green Solvent Extraction and proposed Biotransformation Technology (value addition) to Produce Natural Health Products.**

**Ref: EC No. : 7-9(03)/2018 dated 01 February, 2019 granted by SEIAA, Dehradun.**

Dear Sir,

Please find enclosed herewith the Compliance Report of the Conditions of Environmental Clearance of *Proposed modernization & expansion of existing Herbal Extraction Unit based on Super Critical Fluid Extraction (SCFE), Green Solvent Extraction and proposed Biotransformation Technology (value addition) to Produce Natural Health Products by Processing of Herbs* for the Period of **October, 2020 to March, 2021** along with duly filled Data – Sheet.

We assure that we are adhering all the safety measures at work place alongwith the guidelines to implement strict social distancing and isolation measures to contain the spread of COVID-19 and complying with all the conditions as stipulated in the EC.

With best regards,

Yours faithfully

for M/s INDIA GLYCOLS LIMITED

**(Dr. Ashutosh Gautam)**  
**Head (Environment)**

**Encl:** EC Compliance Report for the Period of October, 2020 to March, 2021

**CC:** State Level Environment Impact Assessment Authority (SEIAA) Uttarakhand, 653, Indiranagar Colony, Seemadwar Road, Dehradun – 248006

**UKPCB, "Goura Devi Paryavaran Bhawan", 46 B, I.T. Park, Sahasthradharma Road, Dehradun – 248001, Uttarakhand**

## Jitendra K Jawla

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**From:** Jitendra K Jawla  
**Sent:** 31 May 2021 21:34  
**To:** 'moef.ddn@gov.in'; 'seiaa.seac.uk@gmail.com'  
**Cc:** Dr.Ashutosh Gautam; Girish Lamba  
**Subject:** Six Monthly EC Compliance Report of Herbal Extraction Unit, IGL Dehradun  
**Attachments:** 1. IGL\_DDN\_Herbal Extraction Unit\_2013 EC Compliance\_October 2020 to March 2021.pdf; 2. IGL\_DDN\_Herbal Extraction Unit\_2014 EC Compliance\_October 2020 to March 2021.pdf; 3. IGL\_DDN\_Herbal Extraction Unit\_2019 EC Compliance\_October 2020 to March 2021.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Dear Sir,  
Greetings of the Day.....!!

Please find attached herewith the **Six Monthly Compliance Report of Environmental Clearance** of **Herbal Extraction Unit of M/s India Glycols Limited at Plot No. 02 – 05, Pharma City, “SHDCUL”, Selaqui Industrial Area, Dehradun, Uttarakhand** for the Period of **October 2020 - March 2021**.

Herbal Extraction Unit IGL, Dehradun Plant:-

Environmental Clearance Details:

- 1. Expansion of Existing Herbal Extraction Unit based on Super Critical Fluid Extraction (SCFE) Technology to Produce Natural Health Products by Processing of Spices & Herbs** vide EC No. **206.9(7)/2013 dated 21 October, 2013 granted by SEIAA, Uttarakhand.** [https://drive.google.com/file/d/19s406GfdSeiTsEkaWiRkmc4tkdWD\\_kPt/view?usp=sharing](https://drive.google.com/file/d/19s406GfdSeiTsEkaWiRkmc4tkdWD_kPt/view?usp=sharing)
- 2. Proposed Modernization for replacement of existing HSD Fired Boiler (4.0 MT/Hr) with New Biomass Fired Boiler (5.0 MT/Hr) in the existing Complex** vide EC No. **545 –9(24)/2014, dated 20 August, 2014 granted by SEIAA, Uttarakhand.** [https://drive.google.com/file/d/1xlbLBbs4-UZm7T4u8XD\\_GiGnjvTflfs2/view?usp=sharing](https://drive.google.com/file/d/1xlbLBbs4-UZm7T4u8XD_GiGnjvTflfs2/view?usp=sharing)
- 3. Proposed modernization & expansion of existing Herbal Extraction Unit based on Super Critical Fluid Extraction (SCFE), Green Solvent Extraction and proposed Biotransformation Technology (value addition) to Produce Natural Health Products** vide EC No. **7-9(03)/2018 dated 01 February, 2019 granted by SEIAA, Uttarakhand.** <https://drive.google.com/file/d/1OSa0uGMhSnOqR4KZUj7ulSdQDCZLvR4/view?usp=sharing>

Since File size is large, therefore please refer the above mentioned Google Drive Link for Compliance Report alongwith the Annexures

Thanks & Regards

Jitendra K Jawla  
IGL, Kashipur

**SIX MONTHLY COMPLIANCE REPORT  
OF  
THE CONDITIONS  
OF  
ENVIRONMENTAL CLEARANCE  
FOR**

**MODERNIZATION & EXPANSION OF EXISTING HERBAL  
EXTRACTION UNIT BASED ON SUPER CRITICAL FLUID  
EXTRACTION (SCFE), GREEN SOLVENT EXTRACTION AND  
PROPOSED BIOTRANSFORMATION TECHNOLOGY (VALUE  
ADDITION) TO PRODUCE NATURAL HEALTH PRODUCTS  
AT**

**PLOT NO 02 – 05, PHARMA CITY, “SIIDCUL”, SELAQUI  
INDUSTRIAL AREA, DEHRADUN**

**ENVIRONMENTAL CLEARANCE**

**7-9(03)/2018 dated 01 February, 2019 granted by SEIAA,  
Dehradun**

**Period of Compliance: October 2020 to March 2021**



**M/S INDIA GLYCOLS LIMITED  
HERBAL EXTRACTION UNIT**

**M/s INDIA GLYCOLS LIMITED**

**Compliance Report of Stipulated Conditions of Environmental Clearance for the Period  
October, 2020 to March, 2021**

**Project Name:** Proposed modernization & expansion of existing Herbal Extraction Unit based on Super Critical Fluid Extraction (SCFE), Green Solvent Extraction and proposed Biotransformation Technology (value addition) to Produce Natural Health Products by Processing of Herbs in the existing complex at Plot No. 02-05, SIIDCUL, Selaqui Industrial Area, Pharma City, Dehradun

**Environmental Clearance No. :** 7-9(03)/2018 dated 01 February, 2019

**Pre Operation:**

<b>S. No.</b>	<b>Condition</b>	<b>:</b>	<b>Compliance</b>
<b>01</b>	The project proponent should advertise with basic details at least in two widely circulated local newspapers, within seven (7) days of the receipt of the clearance letter informing that the project has been accorded environmental clearance which is available with the State Environment Impact Assessment Authority, Dehradun and a copy of the same is being sent to the Regional Office of Ministry of Environment and Forest, Government of India located at 25 Subhash Road, Dehradun.	<b>:</b>	Agreed, we have publish the basic details informing that the project has been accorded environmental clearance which is available with the State Environment Impact Assessment Authority, Dehradun. Copy of advertisement (Times of India & Dennik Jagaran, dated 21.02.2019) are attached as - <u>(Annexure – I)</u>
<b>02</b>	A copy of the Environmental Clearance letter shall be sent by the proponent to the concerned Panchayat and the local NGO, if any from whom suggestion/representation, if any, were received while processing the proposal.	<b>:</b>	Complied.
<b>03</b>	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.	<b>:</b>	Yes, Consent to Establish and Consent to Operate has been obtained from Uttarakhand Environment Protection and Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before commencing any construction activity. We have obtain CTE-Expand and CCA-Expand from UEPPCB. Our CCA is valid upto 31 March 2022. <u>(Annexure – II).</u>
<b>04</b>	There shall be no felling of tress at the	<b>:</b>	The installation of equipment's




	construction site and further no damage to the local vegetation shall be done. The installation of equipments/machineries shall be done within the vacant space available in the plant premises.	/machineries has been done within the vacant space available in the plant premises. Photograph of STP cum ETP & DG Set are attached as <u>Annexure – III</u> . Installation/Commissioning of Biomass (briquette) fired Boiler (Capacity 6.0 TPH) has been completed and now operation since November 2020 by adopting all the safety measures.
05	The Project Authority shall strictly comply with provisions of Doon Valley Notification, 1989. The site layout plan should be approved by the authorized agency/department of the State Government.	: Agreed & accepted.
06	The proposed activity does not involve any fresh construction or clearance of land / vegetation / building. There shall be no temporary / permanent change in land use as existing unit is already located in notified industrial area. The machinery for setting up the unit shall be installed with the existing rented facility through modular modifications suitable to cosmetic manufacturing (as per the approved lay out plan).	: Agreed. Industry is situated in Pharma City “SIIDCUL” Selaqui industrial area & Site Lay out Plan has been duly approved by competent authority.

**During Operation Phase:**

01	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 under relevant provisions of Central. Air Act and Central Water Act. We have obtain CTE-Expand and CCA-Expand from UEPPCB. Our CCA is valid upto 31 March 2022 ( <u>Annexure – II</u> ).
02	The building plan and structural design of the unit shall comply with requirements of Seismic Zone-V as outlined in National Building Code.	: Agreed. Site Lay out Plan is attached as <u>Annexure – IV</u> .
03	No further expansion or modification in the plan shall be carried out without the prior approval of competent authority.	: Agreed & accepted.
04	The project Authority shall strictly comply with provisions of Doon Valley	: Agreed



	Notification, 1989.		
05	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 (foundation of Plant/machineries), top soil so excavated was stacked separately & used for landscape /green belt development.
06	The soil and groundwater 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, Value addition of existing products (7.0 kg/d) has been intended by proposed Biotransformation Process and no use of Toxic chemicals takes place. So there is no possibility of leaching of heavy metals and other toxic contaminants in to the ground water. Ground water analysis report is attached as <u>Annexure – V.</u>
07	All stacking and loading areas should be provided with proper garland drains equipped with baffles to prevent runoff from the site to enter any adjoining water body. Construction spoils including bituminous materials should not be followed to contaminate water course and dumpsites as such materials leach into ground water.	:	Existing facilities for stacking and loading areas are utilized.
08	The manufacturing process shall be carried out in closed atmosphere without having any air emissions. However air emissions from DG set should comply with CPCB norms by designing stack of adequate height.	:	No air emissions is envisaged from manufacturing process since operation shall be carried out in closed loop. DG set has been provided 15.0 m stack height. Technical details of APCs , Stack & work zone monitoring are being carried out regularly by accredited laboratory of NABL/MoEF and copy of reports are enclosed as - ( <u>Annexure – VI</u> )
09	No waste water shall be discharged outside the plant boundary and Zero Discharge shall be strictly adhered to permissible standards after installation of ETP & STP.  	:	Agreed. All the waste water generated from Domestic & Industrial activities will be treated in the existing augmented STP cum ETP & reuse in CT, green belt and cleaning/washing activities. Existing STP cum ETP is being augmented up to 50.0 KLD Capacity. Photograph of STP cum ETP & breakup of treated effluent in relation to recycling are attached

		as <u>Annexure – III.</u> Zero discharge will be achieved.
10	All the hazardous residue and wastes arising from units 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.	: Hazardous waste i.e. Waste oil from DG set & Discarded Containers/ liners /barrels are being handed over to PCB authorized recyclers/re-processors. Annual Return in Form 4 is being submitted to UKPCB regularly. MOU signed with the authorized hazardous waste recycler is delay due to Covid-19 situation. It will be submitted at the earliest.
11	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 adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	: Ambient air quality monitoring is being carried out regularly from accredited laboratory of NABL/MoEF & CC. <u>Annexure – VII.</u>
12	Fugitive emissions in the work zone environment, product and raw materials storage areas shall be regularly monitored. The emissions shall conform to the limits imposed by the UEPPCB/Central Pollution Control Board. Dust / Powder from the formulation process shall be collected by dust extractor.	: Agreed Work zone monitoring is being carried out regularly. ( <b>Annexure – VI</b> ).
13	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 UKPCB & complied accordingly.
14	The DG sets shall use Low Sulphur Diesel type fuel and should have stack height complying with CPCB norms. DG set should be operated only during power failure in emergency situation.	: Adequate stack height has been provided to the proposed DG set (Capacity - 500 KVA). HSD is used as fuel in the DG set & will be operated during power failure in emergency situation only.
15	The ambient air quality and noise levels as per CPCB norms shall be ensured through a monitoring system. Dust Suppression	: Ambient air quality and noise levels is being monitored regularly at different locations of the plant. Water sprinkling will



	during construction activity shall be ensured. Acoustic enclosures shall be provided with all machineries and DG sets on site complying with Noise Levels of CPCB standards.		be adopted for Dust Suppression during construction activity. Acoustic enclosures is provided with DG sets. Ambient Noise Level Monitoring Reports are attached as <b><u>Annexure – VIII.</u></b>
16	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.	:	Respective measures are followed for handling/storage of all the raw materials.
17	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.
18	All necessary efforts shall be made to ensure safety and hygiene of 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.	:	On-site Emergency Preparedness Plan has been prepared, All safety measures are adopted & adequate PPE'S are provided to the workers. Training / Awareness program on Safety is conducted on regular basis.
19	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.	:	Adequate drinking water and sanitation facility is provided by the unit at site. No worker is living inside the factory premises so no need of domestic fuel to the workforce.
20	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. It shall be further continue also.
21	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	:	Environmental Management Cell is already in functional to carry out the Environmental Management and Monitoring functions. <b>(Annexure - IX)</b>
22	The fire safety arrangements and emergency exit plan should be as per the norms of the concerned regulatory authority/agency.	:	Agreed. NOC from Fire & Safety department has been taken & reviewed annually. <b>(Annexure - X)</b>
23	Rainwater harvesting for surface run off shall be ensured. Before recharging the surface run off, pre- treatment must be	:	Roof top Rainwater harvesting has been designed & installed in a scientific manner. 04 No. Rain water Harvesting recharge pits





	done to remove suspended matter, oil and other particles.		have been provided within Premises to Recharge the ground water. Approx. 5000 Cum/Annum of Rain Water is available for Recharge. ( <b>Annexure - XI</b> )
24	Energy consumption measures like installation of LED/TFL for the external lighting area shall be ensured. The disposal of used LED/TFL shall be properly collected and disposed off as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination	:	Energy consumption measures are adopted like installation of LED/TFL for the external lighting area. Disposal of used LED/TFL will be done as per the e- waste guidelines/rules.
25	One third of the total project site area shall be converted into green belt. The green belt shall not include kitchen garden, flower pots and grasses/herbs in the area. It shall comprise of tree stand of aesthetic/fruit/timber value. Quality planting material shall be used during plantation as per standards of State Forest Department. The species selection should include criterion of fruit bearing and fast growing tall trees. The concerned official of State Forest Department shall ensure the compliance	:	Existing Green belt is being strengthened within the project boundary by planting various native plant species. Photographs of existing Greenbelt are attached as <u><b>Annexure – XII.</b></u>
26	Solar panel/energy should be encouraged/installed in the premises.	:	Agreed.
27	The project proponent shall undertake in eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment	:	The Company contribute in various CSR/CER initiatives. IGL's activities begin in the areas of Health, Education, Welfare and Environment. Details are attached as <u><b>Annexure – XIII.</b></u>
28	The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project	:	Agreed.
29	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated E.C conditions including results of monitored data both in hard copy & soft copy to this Authority and regional office of MoEF, Govt. of India at Dehradun	:	Six monthly reports on the status of the compliance of the stipulated E.C conditions is being submitted regularly to the respective authorities.

**Entire Life:**



1	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.	:	Agreed. PUC certificates of the vehicles using at the factory site are attached as <u>Annexure – XIV.</u>
2	All necessary efforts shall be made to ensure safety and hygiene of 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	:	It is being ensured.
3	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	:	Adequate drinking water and sanitation facility is provided by the unit at site. No worker is living inside the factory premises so no need of domestic fuel to the workforce.
4	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. Unit is conducting medical examinations for all employees on annual basis. Details are attached as <u>Annexure – XV.</u>
5	The project authority shall also comply with the entire 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.	:	Environmental management and risk mitigation measures relating to the project is being implemented.
6	The fire safety arrangements and emergency exit plan should be as per the norms of the concerned regulatory authority/agency	:	Agreed. NOC from Fire & Safety department has been taken & reviewed annually.
7	Rainwater harvesting for surface run off shall be ensured. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and other particles	:	Roof top Rainwater harvesting has been designed & installed in a scientific manner. 04 No. Rain water Harvesting recharge pits have been provided within Premises to Recharge the ground water. Approx. 5000 Cum/Annum of Rain Water is available for Recharge.
8	Energy consumption measures like installation of LED/Solar light panels for the external lighting area shall be ensured, The disposal of used LED [Solar light	:	Energy consumption measures shall be ensured.



	panels shall be properly collected and disposed off as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination		
9	The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force as applicable to the project	:	Agreed & accepted.
10	The above environmental safeguards shall be implemented in letter and spirit. The project proponent shall establish Environment Monitoring Cell and also submit six monthly compliance reports to this Authority and regional office of MoEF, Govt of India at Dehradun.	:	Agreed & accepted.
11	The name of person incharge for implementation of conditions stipulated in Environmental Clearance should be communicated to this office and GoI office within 15 days receipt of this letter.	:	Agreed.
12	The SEIAA reserves the right to include additional safeguard measures if found necessary and also to take action including revoking of the EC granted under provision of EIA Notification 2006. This EC is being granted subject to compliance of Hon'ble Court Orders issued from time to time	:	We will follow all directions are directed by SEIAA, Uttarakhand/SPCB.
13	The SEIAA Uttarakhand reserves the right to withdraw the Environmental Clearance or add additional conditions.	:	Agreed.
14	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.	:	Noted
15	Ash should be safely disposed within premises and a record maintained.	:	It is being ensured.

