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Website: www.indiaglycols.com

Ref: AG/MoEF & CC/EC COMP/HERBAL/2021/01

Dated: May 28th, 2021

To,

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

Sub: Six Monthly Compliance Report of the Conditions of Environmental Clearance for Expansion of Super Critical Fluid Extraction (SCFE) Unit for production of Natural Health Product (150 to 1050 kg/day).

Ref: EC No: F. No. J - 11011/770/2007 - LA 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 October, 2020 to March, 2021 along with dully 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.

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: Point wise Compliance Report for the Period of October, 2020 to March, 2021

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

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

CIN: L24111UR1983PLC009097

Jitendra K Jawla

From: Jitendra K Jawla

Sent: 31 May 2021 21:04

To: 'moef.ddn@gov.in'

Cc: Dr.Ashutosh Gautam; Girish Lamba

Subject: Six Monthly EC Compliance Reports of Ethanol, Chemical & Lignocellulosic

Biomass based Pilot Plant of IGL Kashipur and IGL Herbal Extraction Unit,

Dehradun

Attachments: 3) IGL_KSP_Ligno cellulosic Biomass based Pilot Plant_EC Compliance_October

2020 to March 2021.pdf; 1) IGL_Ethanol Plant_EC Compliance _October 2020 to March 2021.pdf; 2) IGL_KSP_Chemical Plant_EC Compliance_October 2020 to March 2021.pdf; 1. IGL_DDN_Herbal Extraction_2008 EC Compliance_October 2020

to March 2021.pdf

Follow Up Flag: Follow up Flag Status: Flagged

Tracking: Recipient Delivery Read

'moef.ddn@gov.in'

Dr.Ashutosh Gautam Delivered: 31-05-2021 21:05 Read: 31-05-2021 21:21

Girish Lamba Delivered: 31-05-2021 21:05

Dear Sir,

Greetings of the Day....!!

Please find attached herewith the <u>Six Monthly Compliance Report of Environmental Clearance</u> of M/s India Glycols Limited (Ethanol Plant Chemical Plant & Lignocellulosic Biomass based Pilot Plant) at A1 Industrial Area, Bazpur Road, Kashipur, District U.S. Nagar, Uttarakhand for the Period of <u>October 2020 - March 2021.</u>

IGL, Kashipur Plant:-

Environmental Clearance Details:

- 1. Expansion of Distillery Unit vide MoEF Clearance Letter No. J-11011/219/2003-IA II Dated 24.06.2004 & J-11011/219/2003-IA11 (1) Dated 11.07.2006.
- 2. Expansion and Modernization of existing Chemicals Manufacturing Unit and 21 MW of Captive Power Generation vide MoEF Clearance Letter No. J 11011/121/2008 IA II (1) Dated 13.05.2009.
- 3. Installation of Lignocellulosic Biomass Processing Pilot Plant for taking trials to Produce Ethanol vide MoEF Clearance Letter No. J 11011/488/2010-IA II (I) Dated 22.03.2013.

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

Encls:

- 1. Compliance Report of Ethanol Plant alongwith Pertinent Annexures: https://drive.google.com/file/d/1MoCLL-5ezx0Wt_lSX_VLCAQldh-KVEhA/view?usp=sharing
- 2. Compliance Report of Chemical Plant alongwith Pertinent Annexures: https://drive.google.com/file/d/1qTiv9lyZry6s55KC793xWA5IJdTt0-tH/view?usp=sharing
- 3. Compliance Report of Lignocellulosic Biomass Processing Pilot Plant: https://drive.google.com/file/d/1mvGiBD0Z7hpF-3m59coqcpXYtK9PG2VU/view?usp=sharing

Herbal Extraction Unit IGL, Dehradun Plant:-

Environmental Clearance Details:

1. Expansion of Super Critical Fluid Extraction (SCFE) Unit for production of Natural Health Product (150 to 1050 kg/day) vide MoEF EC No. <u>J - 11011/770/2007 - IA II (I)</u>, <u>Dated 12.03.2008</u>.

Encls:

Compliance Reports of Herbal Extraction Unit alongwith Pertinent Annexures: https://drive.google.com/file/d/1g0HnH02ic8gbhpK941Emq9Bq5j0JNOV4/view?usp=sharing

Thanks & Regards

Jitendra K Jawla IGL, Kashipur

SIX MONTHLY COMPLIANCE REPORT OF THE CONDITIONS

OF

ENVIRONMENTAL CLEARANCE FOR

EXPANSION OF SUPER CRITICAL FLUID
EXTRACTION (SCFE) UNIT FOR
PRODUCTION OF NATURAL HEALTH
PRODUCT (150 TO 1050 KG/DAY)
AT

PLOT NO 02 – 04, PHARMA CITY,
"SIIDCUL", SELAQUI INDUSTRIAL AREA,
DEHRADUN
ENVIRONMENTAL CLEARANCE

J – 11011/770/2007 – IA II (I) Dated 12th March, 2008

Period of Compliance: October 2020 to March 2021



M/S INDIA GLYCOLS LIMITED
HERBAL EXTRACTION UNIT

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: October, 2020 to March, 2021

	A. SPECIFIC CONDITIONS		
	CONDITIONS	:	COMPLIANCE STATUS
i.	Stack of proper height and adequate	:	Stack height of the Boiler and DG sets is
	pollution control equipment's shall be		kept as per the Norms of UKPCB (42 m
	provided to the Boiler and DG sets to		& 15 m AGL respectively). Emissions
	control gaseous emissions within the		are well within the Norms.
	permissible limits prescribed by Uttaranchal		
	Environment Protection and Pollution		Boiler & DG Stack emission monitoring
	Control Board (UEP&PCB) and reports		reports (Month of March 2021) is
	submitted to the Ministry's Regional Office		attached as <i>Annexure – I.</i>
	at Lucknow, CPCB and UEP&PCB.		
			We are regularly submitting Six
			Monthly Compliance Report well
			within the due course to the respective
			Offices.
ii.	All the Solvents used during Aqueous	:	All the Solvents used for Extraction
	Alcoholic Extraction Process viz.		process are recycled back to the next
	Methanol, Hexane, Acetone and IPA shall		batch after recovering through
	be recycled and reused after recovering		Evaporation and Condensation Process
	through evaporation and condensation		of Super Critical Fluid Extraction.
	process. Spray driers shall be provided for		
	the recovery of solvents.		
iii.	Total ground water requirement shall not		Ground water is being extracted from
	exceed 251 m ³ / day and prior permission		existing bore well and the NOC from
	for the drawl of ground water shall be		Central Ground Water Board Authority
	obtained from the State Ground Water		(CGWA) has been obtained. A copy of
	Board / Central Ground Water Board		the same is attached as <u>Annexure – II.</u>
	Authority (SGWB/CGWA). All the waste		
	water shall be recycled and reused as make		Water is being used for Domestic
	up water for Cooling Towers or as steam		purpose is 4.0 KL / day. Domestic

effluent is subjected to existing STP cum condensate in the Boiler or for Green belt effluent development. No shall ETP. discharged outside the premises and "Zero" Net Water requirement for Production discharge shall be strictly adopted. Natural Health **Products** (Concentrate Syrup/Powder) is 23.90 KLD. We have installed 10.0 KLD capacity of STP cum ETP (further augmented with 50.0 KLD) 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. STP cum ETP Mass Balance & Analysis report of STP cum ETP O/L is attached as Annexure - III. 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. Photographs showing Recycling/reuse of water are attached as *Annexure – IV*. iv. All the solid waste generated shall be used : Solid Herbal Parts (Flowers/ Roots/ as manure after Bio - composting process Leaves/Stems) obtained after extraction and shall not be disposed off outside the process is being used in briquette premises. All the packaging material shall formation & utilized as a fuel in the be disposed off in the environment existing boiler. friendly manner. Packaging material is being sold to the respective vendors. A number of Trees suitable to the local Green belt shall be developed in 33% area v. with suitable species of the plants as per the condition have been planted in vacant CPCB guidelines to mitigate the effects of space under Green belt development in fugitive emissions. 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 –V</i> .
vi.	No Captive Power Plant shall be installed without prior approval of the Ministry.	•	No Captive Power Plant will be installed without getting the prior approval of the MoEF& CC, New Delhi.
vii.	Acoustic enclosures shall be provided around the DG set (750 KW x 02) to control noise level within the permissible limits.	:	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 <i>Annexure – VI</i> .
D CENEDAL CONDITIONS			

B.GENERAL CONDITIONS

CON	IDITIONS	:	COMPLIANCE STATUS
i.	The Project authorities must strictly adhere	:	Agreed.
	to the stipulations made by the Uttaranchal		Company is complying with all the
	Environmental Protection and Pollution		stipulations made by the UKPCB and
	Control Board (UEP&PCB) and the State		the State Government. CCA is valid
	Government.		upto 31 March 2022. Copy of CCA &
			receiving copy of its compliance report
			are attached as per <i>Annexure – VII</i> .
ii.	No further Expansion / Modifications in	:	Further Expansion & Modification
	the plant shall be carried out without prior		work will not be carried out without
	approval of the Ministry of Environment		prior approval of the MoEF& CC, New
	and Forests.		Delhi. Further Expansion of the plant
			(1050 kg/d to 2050 kg/d) was carried
			out vide EC no. 206.9(7)/2013 dated 21
			October 2013 granted by SEIAA,
			modernization for replacement of
			existing HSD Boiler with new Biomass
			fired Boiler vide EC no. 545-9(24)/2014,
			dated 20 August 2014 granted by
			SEIAA and further modernization for
			value addition of products alongwith
			enhancing the existing utilities vide EC
			no. 7-9(03)/2018 dated 01 February
	OVCOV		2019 granted by SEIAA, Uttarakhand.

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 _{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 <i>Annexure-VIII</i>).
iv.	Fugitive emissions in the work zone environment, product and raw materials storage area shall be regularly monitored. The emissions shall confirm 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 is available for Recharge. Photo's are attached as <i>Annexure – IX</i> .
			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.
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. 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	•	A Panel of experienced Technical Personnel & qualified Chemists are engaged for Environment Management

	above stipulations under control of Senior		Division. Enclosed as per <i>Annexure – X</i> .
	Executive.		
ix.	Adequate funds shall be kept towards	:	Recurring and non-recurring fund are
	Capital Cost and Recurring Cost/Annum		arranged by the management as per the
	for Environmental pollution control		requirement to implement the
	measures and used to implement the		conditions stipulated by MoEF & CC
	conditions stipulated by the Ministry of		and SPCB.
	Environment and Forest as well as the State		
	Government. The funds so provided shall		
	not be diverted for any other purposes.		

