



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/MoEF & CC/EC Comp-Ethanol/2021/01

Dated: May 28th, 2021

To,

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

Subject: Six Monthly Compliance Report of the Conditions of Environmental Clearance for Expansion of Distillery Unit by M/s India Glycols Limited at A – 1, Industrial Area Bazpur Road, Kashipur, District Udham Singh Nagar, Uttarakhand.

Dear Sir,

Please find enclosed herewith the Compliance Report of the Conditions of Environmental Clearance for the Expansion of Distillery Unit at A - 1, Industrial Area, Bazpur Road, Kashipur, District – Udham Singh Nagar, Uttarakhand by M/s India Glycols Limited for the Period <u>October, 2020 to</u> <u>March, 2021</u> 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 granted by Ministry of Environment & Forests, GOI, New Delhi.

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

Thanking You,

Yours Faithfully

For M/s INDIA GLYCOLS LIMITED

(Dr. Ashutosh Gautam) Head (Environment)

Encl.: 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

# Jitendra K Jawla

From: Sent: To: Cc: Subject:	Jitendra K Jawla 31 May 2021 21:04 'moef.ddn@gov.in' Dr.Ashutosh Gautam; Girish Lamba 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: Flag Status:	Follow up Flagged							
Tracking:	<b>Recipient</b> 'moef.ddn@gov.in' Dr.Ashutosh Gautam Girish Lamba	<b>Delivery</b> Delivered: 31-05-2021 21:05 Delivered: 31-05-2021 21:05	Read Read: 31-05-2021 21:21					

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 <u>MoEF Clearance Letter No. J-11011/219/2003-IA II Dated</u> 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\_1SX\_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. J – 11011/770/2007 – IA II (I), Dated 12.03.2008.

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 DISTILLERY UNIT** AT A-1, INDUSTRIAL AREA BAZPUR ROAD, **KASHIPUR, DISTRICT UDHAM SINGH** NAGAR, UTTARAKHAND **ENVIRONMENTAL CLEARANCE** J-11011/219/2003-IA.II DATED 24.06.2004 & J-11011/219/2003-IA11 (1) DATED 11.07.2006 Period of Compliance: October 2020 to March 2021



M/S INDIA GLYCOLS LIMITED

#### Annexure-B

## Name of the Project: Ethanol Plant (Capacity - 425 KL/Day) of M/s India Glycols Limited.

### Clearance Letter No: J-11011/219/2003-IA.II DATED 24.06.2004 & J-11011/219/2003-IA11 (1) DATED 11.07.2006

## Period of Compliance Report: October, 2020 to March, 2021

## Production Capacities as per Sr. No. 2 of EC & Present status as per CCA

Production Capacities as	per EC	:	Present Status						
The Company has obtained the			The Company has obtained "No increase in Pollution Load Certificate" from the Committee						
Environmental Clearance	vide Letter No: F.		constituted for change in product mix as per amended EIA Notification.						
No. J-11011/219/20	03-IA-II, dated		S.O. 3518 (E) dated 23.11.2016						
24.06.2004 and revision	of ETP scheme for		As per Notification further CCA was revised & amended CCA granted by UKPCB vide Letter No.						
achieving ZLD vide	Letter No. J-		-	UEPPCB/HO/Con/I-8/2019/853 dated 28.09.2020. CCA further renewed for the year 2021-22.					
11011/219/2003-IA II (			The revised product mix with capacities is given in t	5					
2006.	=================================								
Products	Capacity	:	Products	Capacity					
Rectified Sprit	Installed – 425.0	:	Rectified Sprit/Extra Neutral Alcohol/ Absolute	240 KLD (7200 KL/Month) Rectified					
(RS)/Extra Neutral	KLPD (as per EC)		Alcohol	Sprit/ENA					
Alcohol (ENA)				Or					
	Operational –			228 KLD (6840 KL/Month) Absolute Alcohol					
	240.0 KLPD (as			(One Product will be produced at one time)					
per CCA) i.e. 7200			The procedure for amendment in CCA has been	carried out as per the procedure defined in the					
	KL/Month		Notification S.O. 3518 (E) dated 23.11.2016 issued l	by MoEF & CC. Therefore, this intimation is being					
			submitted to MoEF & CC through Six Monthly Compliance Report of Environmental Clearance						
			granted by MoEF & CC vide Letter No. F. No.	J-11011/219/2003-IA-II, dated 24.06.2004 and J-					
			11011/219/2003-IA II (I), dated 11th July 2006 as an	mendment of EIA Notification 2006 for para 7(ii).					





A. Specific conditions w.r.t. the Environment Clearance for revision of ETP Scheme (<u>J-11011/219/2003-IA11 (1) DATED 11.07.2006</u>) for achieving zero discharge (Capacity 425.0 KLPD):

S.	CONDITIONS	:	COMPLIANCE STATUS
No.			
i).	Out of 425 KLPD Distillery Unit, capacity for the Molasses based	:	India Glycols Limited had established & commissioned a
	is 325 KLPD and Cane Juice based is 100 KLPD.		stand-alone 120.0 KLPD molasses based Distillery Plant in
			the year 1988-89. Due to increasing demand of alcohol IGL
			expanded distillery capacity from 120.0 KLPD to 205.0 KLPD in
			the year 1999 and 205.0 KLPD to 425.0 KLPD in the year 2004.
			NOC for establishing 120.0 KLPD distillery plant was granted
			vide letter no. 3944/NOC/India Glycols Ltd./87 dated
			13.03.1987 by Uttar Pradesh Pollution Control Board, Lucknow.
			(Annexure – A1) thereafter NOC for expansion of distillery
			capacity by 85.0 KLPD was granted vide letter no. G/98/7/C-
			5/3(N.O.C.)/6/46 dated 13.08.1999 by Uttar Pradesh Pollution
			Control Board. (Annexure - A2). IGL expanded distillery
			capacity from 205.0 KLPD to 425.0 KLPD in the year 2004. The
			Environment Clearance (EC) for 220.0 KLPD distillery (120.0
			KLPD from Molasses route and 100.0 KLPD from Cane Juice)
			was issued by Ministry of Environment & Forest (MoEF), Govt.
			of India, vide Letter No. J-11011/219/2003 - IA II (I), dated 24th
			June 2004 and Environment Clearance for revision of ETP
			scheme for achieving zero discharge (capacity - 425.0 KLPD)
			was issued vide Letter No. J-11011/219/2003 - IA II (I), dated
	CUYCO/A		11th July 2006 and both are enclosed as Annexure-A3 &
	AT THE		Annexure-A3.1.
			Distillery based on Cane juice (capacity - 100 KLD) was
	Eta *		operated for the period January 2006 to January 2010 along with



			<ul> <li>Molasses based (325.0 KLD) (Cane juice stream was stopped due to viability of product).</li> <li>Production Data October 2020 to March 2021: Alcohol production from Molasses – 129.87 KLPD (Average) Details of Month wise production is enclosed as <u>Annexure – I.</u></li> </ul>
ii).	Total effluent generation with the approved scheme without reboiler is 4600 m <sup>3</sup> /d, of which 3900 m <sup>3</sup> /d is from the molasses based route and 700 m <sup>3</sup> /d from cane juice process. Effluent generation after installation of RO plant is 3880 m <sup>3</sup> /d. Out of 3880 m <sup>3</sup> /d of effluent generation, 1960 m <sup>3</sup> /d are utilized for ferti- irrigation and remaining 1920 m <sup>3</sup> /d are composted with press mud. With the present approved scheme, 51% of effluent is treated by ferti-irrigation and 49% by bio-composting.	:	Presently it is not applicable due to implementation of Zero Liquid Discharge (ZLD). Ferti irrigation was started from January 2003 to utilize treated distillery effluent as per CPCB Protocol and remain in practice till June 2009. Bio composting was started in April 2003 and remain operational till June 2016. Bio composting operation was stopped w.r.t. ZLD Direction of CPCB/UEPPCB.
iii).	Effluent generation after reboiler from the molasses based operation will be 3250 instead of 3900 m <sup>3</sup> /d. The effluent from the cane juice based will be 700 m <sup>3</sup> /d, thus total effluent generation after installation of re-boiler will be 3950 m <sup>3</sup> /d. Total effluent generation after installation of RO will be 3650 m <sup>3</sup> /d. With the revised effluent treatment scheme, total effluent generation from molasses and cane juice would be 3650 m <sup>3</sup> /d i.e. 2950 m <sup>3</sup> /d from molasses based route and 700 m <sup>3</sup> /d from cane juice based route. Out of 3650 m <sup>3</sup> /d of effluent generation, 1800 m <sup>3</sup> /d will be concentrated in evaporator, 1100 m <sup>3</sup> /d will be used for fertiirrigation and 750 m <sup>3</sup> /d for bio-composting. The revised scheme envisages evaporation of spent wash (49%), utilization of effluent for ferti-irrigation (30%) and bio-composting of speet wash (21%).	:	ETP (Biogas Plant) was installed in the year 1989. Total 12 Nos. of bio-digesters were installed for treatment of raw spent wash in phase manner alongwith Secondary Treatment Plant. Reverse Osmosis Plant was installed in September 2006. However, at present, only two digester are in operation. Biogas is used in production of some value added chemicals at IGL. Therefore, for supply of biogas to chemical plant IGL is operating only two digester. Remaining 10 Nos. of digesters are not in operation & being dismantling. Operation of Multi- effect Evaporator started in December 2007. Ethanol Plant is achieving zero liquid discharge through MEE (Falling Film-03, Forced Circulation-02 & Falling Film-02 as standby) for enhancing the existing capacity) followed by well-designed



	slop boiler.
	Since Ferti irrigation & Bio composting were stopped in June
	2009 & June 2016 respectively as per ZLD condition of
	Distilleries. Therefore presently only Evaporation &
	incineration process is in practice to achieve ZLD by
	concentration of Spent wash in Multi effect Evaporator (MEE)
	followed by Incineration in Slop fired Boiler.
	Our Bio-methanation Plant is based on Biphasic Anaerobic
	Technology (Acid methane segregation process) & it is being
	closely monitored for efficient & effective Operation. We are
	operating the Bio gas Plant for $240 \text{ m}^3/\text{day}$ (max.) of spent
	wash. Bio-methanated wash is also subjected to MEE.
	Effluent Data October 2020 to March 2021:-
	Average Effluent generation – 1043.99 MT/day (@8.04 MT/KL
	of Alcohol production)
	Utilization in Evaporator – 100.00 %
	Details as per <u>Annexure – II</u>
	Brief Summary:
	Distillery operation (425.0 KLPD) for the period of 2004 to
	2013
	Initially IGL has Four routes for treatment & disposal of spent
	wash; (i) Biomethanation followed by biocomposting, (ii)
CHACOLO	Biomethanation, Membrane filtration (RO) followed by
	biocomposting, (iii) Biomethanation, Evaporation (MEE) and
(*( ON)E)	incineration, and (iv) Biomethanation, Aeration followed by
ETISHIOUR *	Ferti-irrigation for spent wash generated from cane juice
Constant of the second s	1 D a g a



	processing.
	W.r.t. the CPCB Direction dated 30.06.2006 under Section 5 of the Environment (Protection) Act 1986, IGL has install the MEE followed by Incineration Boiler. After installation of Evaporator 45-50% of spent wash treated through Evaporator, 29-30% through two stage activated sludge process followed by Ferti irrigation & remaining 25-27% through RO followed by Bio composting.
	IGL had stopped Rab Plant (Cane Juice) in January 2010 hence route no. (iv) not followed.
	Distillery based on Cane juice (100 KLD) were operated for the period January 2006 to January 2010 (stopped due to viability of product).
	Distillery operation (305.0 KLPD) for the period of 2013 to 2017
	IGL had restrict the production capacity to 305.0 KLD equivalent to the installed capacity of spent wash concentration & incineration system (207 KLD) plus bio- composting facilities through bio methanation followed by RO system (98 KLD) (ref CPCB Direction under Section 5 of the Environment (Protection) Act, 1986, dated 09.05.2013)
* Color	IGL had augment the MEE by Forced Circulation system at 4 <sup>th</sup> & 5 <sup>th</sup> Calandria's so that MEE Plant is adequate equivalent to 240.0 KLD of alcohol production Capacity.
Caller	5   Page

Bio-composting facilities through bio methanation followed by RO system (equivalent to 98.0 KLD distillery capacity) was stopped in Jan 2017. Distillery operation (240.0 KLPD) for the period of 2017 to till date February 2017 onwards our distillery is being operated on 240.0 KLD distillery capacity as per CPCB/UEPPCB Direction for achieving ZLD through MEE and burning in specially designed boilers. Distillery operation for Change in Product mix i.e. 240 KLD (7200 KL/Month) Rectified Sprit/ENA Or 228 KLD (6840 KL/Month) Absolute Alcohol The Company has obtained "No increase in Pollution Load Certificate" from the Committee constituted for change in product mix as per amended EIA Notification S.O. 3518 (E) dated 23.11.2016. As per Notification further CCA was revised & amended CCA granted by UKPCB vide Letter No. UEPPCB/HO/Con/I-8/2019/853 dated 28.09.2020. CCA further renewed for the vear 2021-22.



B. Specific conditions w.r.t. the Environment Clearance (J-11011/219/2003-IA.II DATED 24.06.2004) for Expansion of Distillery Unit (Capacity 425.0 KLPD):

i).	The Industry should ensure that the treated effluent and stack emissions from the unit are within the norms stipulated under EPA rules or SPCB, which is more stringent. In case of process disturbance / failure of pollution control equipments adopted by the unit, the respective unit should be shut down and should not be restarted until the control measures are rectified to achieve the desired efficiency.	:	Steam is being sourced from Slop fired Boiler (Installed Capacity- 55.0 TPH) equipped with ESP. Online continuous emission monitoring system (OCEMS) has been installed also to monitor the Particulate matter (PM) concentration & being accessed through link as under:- URL:PM_CEMS http://epdms.forbesmarshall.in:8080/enviroconnect Flow Meter & Web Cameras are installed to monitor operational activities and its connectivity is being accessed at CPCB/UKPCB through link as: http://tpro.telsys.in/account/password-reset We are achieving ZLD through MEE & Incineration Boiler. Stack emission monitoring report is attached as <u>Annexure - III</u>
ii).	The company shall adopt batch type and continuous fermentation technology. Out of the expanded capacity of 220 KLD, 120 KLD shall be manufactured from molasses and 100 KLD from cane juice.	:	Out of the expanded capacity 220.0 KLPD distillery (120.0 KLPD from Molasses route and 100.0 KLPD from Cane Juice). We have adopted Fed Batch Fermentation technology for 325.0 KLD of Molasses based capacity. However our Distillery is operated @240 KLD production capacity as per UKPCB Consent.
iii).	The quantity of spent wash generated from expanded capacity of 220 KLD shall not exceed 2140 m <sup>3</sup> /d (1440 m <sup>3</sup> /d from	: 011	This condition was complied w.r.t. the treatment facility viz. promethanation, reverse osmosis & biocomposting. Relevant 7   P a g e



	manufacture of 120 KLD of alcohol from molasses, and 700 m <sup>3</sup> /d		details are explain in Sr. No. A-iii of revised scheme of ETP.
	from manufacture of 100 KLD of alcohol from cane juice). Out of		
	the 2140 m <sup>3</sup> /d of effluent generated, 1440 m <sup>3</sup> /d of effluent after		
	primary treatment (biomethanation), shall be processed through		
	reverse osmosis, and 50 % of the clear effluent recovered (i.e. 720		
	$m^3/d$ ) shall be recycled to the process. The remaining 720 $m^3/d$		
	from reverse osmosis shall be stored in a dedicated storage lagoon		
	for RO reject and used for biocomposting. Spentwash storage		
	shall not be for more than 30 days. The entire effluent from cane		
	juice process (i.e. 700 m3/d which is equivalent to 59 KLD of		
	molasses based distillery) shall be treated by secondary aerobic		
	treatment. The treated effluent shall be stored in a separate		
	lagoon, and used for ferti-irrigation.		
iv).	The company shall achieve zero discharge for the existing	:	This condition was complied accordingly.
	distillery capacity of 205 KLD by December 2005, by under taking		Presently Zero discharge achieved through MEE &
	ferti-irrigation and bio composting, in accordance with the action		Incineration as per ZLD direction of Distilleries issued by
	plan submitted in the affidavit by the company on 22.4.04 to this		CPCB. Relevant details are explain in Sr. No. A-iii of revised
	ministry.		scheme of ETP.
	The company shall company to error of 40 error of land for		Ris composition was in greatice since April 2002 and generic
<b>v</b> ).	The company shall earmark a separate area of 40 acres of land for	•	Bio composting was in practice since April 2003 and remain
	existing capacity and 21 acres for augmented capacity, for bio composting on the basis of 1250 MT/press mud/acre/cycle, as		operational till June 2016. Bio composting operation was stopped w.r.t. ZLD Direction of CPCB/UEPPCB.
	per the action plan submitted in the affidavit. The quality of		stopped w.r.t. ZLD Direction of CrCb/ DEFFCB.
	manure produced shall meet the CPCB norms.		
	manure produced shall meet the CrCb norms.		
vi).	The company shall follow CPCB protocol for ferti-irrigation, and	:	Ferti irrigation was started from January 2003 to utilize treated
,	shall accordingly arrange for land requirement of 2344 acres for		distillery effluent as per CPCB Protocol and remain in practice
	existing capacity, and 1317 acres for expanded capacity, for forti-		till June 2009.
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	irrigation, as per the action plan submitted in the affidavit. The effluent to be used for ferti-irrigation shall meet the CPCB norms of BOD< 100 mg/L and TDS < 2100 mg/L.		Company has stopped controlled land application.
vii).	The company shall monitor the soil and ground water quality in the compost and project area on a regular basis and submitted half-yearly reports to SPCB and the Ministry.	•	Soil & Ground water quality is being monitored regularly. The analysis reports are being submitted regularly. <u>(Annexure – IV)</u>
viii).	The distillery shall not be operated for more than 330 days for molasses route, and 240 days for cane juice process, considering that alcohol is produced for captive consumption for production of specialty chemicals.	:	The distillery is being operated as per the directions.
ix).	In the event of non-availability/less availability of press mud for bio composting, the company shall ensure zero discharge by adopting either of these measures (a) installing additional RO units; (b) by increasing alcohol production from cane juice process and reducing alcohol production from molasses route; and (c) by increasing ferti-irrigation only for cane juice process. If the company is unable to achieve zero discharge by adopting these measures, the company shall reduce alcohol production proportionately.	:	Presently, we are achieving zero liquid discharge through Evaporation (MEE) and Incineration Boiler (equivalent to 240.0 KLPD distillery capacity).
x).	The company shall modify the existing anaerobic digesters and rectify the shortfalls in secondary treatment plant.	:	Total 12 Nos. of bio-digesters were installed for treatment of raw spent wash in phase manner alongwith Secondary Treatment Plant. Reverse Osmosis Plant was installed in September 2006. However, at present, only two digester are in operation. Biogas is used in production of some value added chemicals at IGL. Therefore, for supply of biogas to chemical plant IGL is operating only two digester. Remaining 10 Nos.



			digesters are not in operation & under dismantling. Anaerobic Digesters are operated on a low feed rate (8-10 m <sup>3</sup> /hr). Biogas is being used as blast gas in Chemical plant (MEG) process.
xi).	As reflected in the EIA/EMP, green belt of adequate width and density shall be provided to mitigate the effects of fugitive emissions all around the plant as per the CPCB guidelines in consultation with the local DFO.	:	Green belt has been developed more than 33% of the land area & it being strengthened regularly by planting new saplings. Approx. 100000 plants have been planted in existing land. The species planted are as per directions of local DFO. No fugitive emissions from the plant. We are regularly assessing the survival rate of the planted saplings & are planting new saplings on regularly basis in consultation with local DFO. Survival rate of the Plants is observed as $80 - 90\%$ . (Annexure – $\underline{V}$ )
xii).	Occupational health surveillance programme shall be undertaken as a regular exercise for all the employees and their medical records maintained.	:	Occupational health surveillance programme is under practice. Two Internal Audits per year and Two External Audits in a year (by certification body DNV-GL). Additional audits are also conducted, as and when required, for customer demand/ requirements. Details are attached as <u>Annexure –VI.</u>
xiii). NERAL	The company shall not commence production for the expanded capacity till a Sub-Committee visits the unit to ensure that all systems, as stipulated to achieve zero discharge, are in place.		A Sub-Committee comprising Sh. R.K. Garg, Dr. P.L. Ahujarai, Sh. B.P. Shukla & Sh. Purshotam Sakhare visited the site on 26- 27 May 2006 to ensure that all systems, as stipulated to achieve zero discharge, are in place.
S. No.	CONDITIONS	:	COMPLIANCE STATUS



i).	The project authorities must strictly adhere to the stipulations made by the Uttaranchal Pollution Control Board and the State Government.	:	IGL is strictly following the stipulations made by UKPCB. Air/Water consent for Ethanol plant for the period April 2021 – March 2022 was granted by UKPCB, Dehradun. We are submitting the CCA compliance report on quarterly basis. (Annexure – VII).
			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 directions as stipulated by the State Govt.
ii).	No further expansion or modifications in the plant should be carried out with out prior approval of the Ministry of Environment and Forests.	:	Noted, No further expansion will be carried out without prior approval of MoEF & CC.
iii).	Ambient Air Quality Monitoring Station should be set up in the down wind directions as well as where maximum ground level concentration of SPM, SO <sub>2</sub> , NOx are anticipated in consultation with the State Pollution Control Board	:	Ambient Air Quality Monitoring Stations (05 Locations as Bio Gas Plant – Behind Laboratory, Coal Yard near Slop 2 Control Room, Fire Station, IGL Colony Near STP & Near Main Gate Security Office) are set up in consultation with the State Pollution Control Board and monitoring is being carried out on quarterly basis by NABL/MoEF & CC accredited laboratory. (Details are attached as Annexure – VIII).
iv).	Adequate Number of influent and effluent quality monitoring stations should be set up in consultation with State Pollution Control Board. Regular monitoring should be carried out for relevant parameters.	:	We are achieving ZLD. Flow Meter & Web Cameras are installed to monitor operational activities and its connectivity is being accessed at CPCB/UKPCB through link. <b>Refer Specific conditions details</b> <b>given in Sr. No. B(i).</b>
3	* July III	1	11   P a g e

v).	The overall noise levels in and around the plant area should be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all the sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA rules, 1989 viz. 75 Dba (day time) and 70 dBA (night time).	:	All the measures have been implemented to keep noise levels in and around factory premises within the permissible norms. Noise monitoring is being done regularly by EMD/F&S. (Annexure – IX)
vi).	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA report.	•	All the environmental protection measures and safeguards recommended in the EIA Report have been implemented. (Details are attached as Annexure – X)
vii).	A separate environment management cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions. The project authorities will provide adequate funds both recurring and non recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any purpose.	:	<ul> <li>Separate Environment Management Division is already in functional. (Annexure - XI).</li> <li>So far ₹ 140.57 Crores spent as capital expenditure to implement the stipulated conditions. In addition recurring funds are allocated every year to meet the requirement of running plant effectively. Wherever funds required, are easily available.</li> <li>Environment management cell has setup objective agenda for training of plant personnel on Hazardous waste management &amp; review the same for its progress. Its progress report will be provided with compliance report.</li> <li>Recurring cost for environmental management and monitoring functions i.e. Continuous Emission Monitoring System (PM _CEMS) &amp; Data Connectivity Camera-Flow Meters -AMC is Rs. 2.30 Lac/Annum. Public liability insurance is attached as per (Annexure - XII)</li> </ul>



viii).	The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's Regional Office at Lucknow/ State Pollution Control Board, Central Pollution control Board. A six monthly compliance status report along with the monitoring data should be submitted to the monitoring	•	Last Site inspection was carried out on 24 <sup>th</sup> August, 2020 by Dr. A. Bhardwaj, Scientist C, GOI, MoEF & CC, Regional Office North-Central Zone, 25, Subhash Road, Dehradun. Regular compliance status report is being submitted to RO,
	agencies.		MoEF & CC.
ix).	The Project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/Committee and may also be seen at website of the Ministry of Environment & Forests at http:/envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional Office.	:	Already Complied.
x).	The project authorities shall inform the Regional Office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	:	Financial closure of the project was occurred in December 2007. We have already informed to the concerned authorities with the relevant informations.
	TETSHIPUR *		

