INDIA GLYCOLS LIMITED

SYSTEM CERTIFICATION DNV GL ISO 9001 ISO 14001; ISO 45001; ISO 22000; FSSC 22000; SA 8000; ISO 50001

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: MoEF&CC/EC Comp-Ethanol/2022/02 **Dated: 30.11.2022**

To,

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

Subject: Submission of Six-Monthly Compliance reports of the conditions stipulated in 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.

Sir,

Please find enclosed herewith the compliance report of the conditions stipulated in Environmental Clearance for Expansion of Distillery unit by M/s India Glycols Limited for the period **April, 2022 to September, 2022.**

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

Thanking you,

Yours Faithfully

For M/s India Glycols Limited

INDIA GLYCOLS LIMITED * KASHIPUR *

(Authorized Signatory)

Encl.: Compliance report for the period of April, 2022 to September, 2022.

Copy to:

- **Central Pollution Control Board, Zonal Office (North), PICUP Bhawan, Vibhuti Khand, Gomti Nagar, Lucknow - 226010**
- **Uttarakhand Pollution Control Board, "Goura Devi Paryavaran Bhawan", 46-B, I.T. Park, Sahastradhara Road, Dehradun - 248001**

CORPORATE OFFICE : 3A, Shakespeare Sarani, Kolkata - 700071, Phone : +91 33 22823585, 22823586
HEAD OFFICE : Plot No. 2-B, Sector -126, NOIDA-201304, Distt. Gautam Budh Nagar, Uttar Pradesh, Tel. : +91 120 6860000, 3090100, 3090200
Fax : +91 120 3090111, 3090211 E-mail : iglho@indiaglycols.com
CIN : L24111UR1983PLC009097

Chakresh Pathak

From: Chakresh Pathak
Sent: 01 December 2022 09:43
To: moef.ddn@gov.in
Cc: Jitendra K Jawla
Subject: M/s India Glycols Limited (Ethanol Plant) - Six Monthly Compliance report for the Period April, 2022 to September, 2022
Attachments: Six Monthly Compliance report for Expansion of Distillery Unit by Ms India Glycols Limited for the Period April 2022 to September 2022.pdf

Sir,

Please find attached herewith the **Six-Monthly Compliance Report of Environmental Clearance** of **M/s India Glycols Limited (Ethanol Plant)** at A1 Industrial Area, Bazpur Road, Kashipur, District U.S. Nagar, Uttarakhand for the Period of **April, 2022 to September, 2022.**

Environmental Clearance Details:

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.**

With Regards

Dr. Chakresh Pathak
Environment Management Division
M/s India Glycols Limited
Kashipur

Name of the Project: Expansion of Distillery Unit by M/s India Glycols Ltd. at Kashipur, Udham Singh Nagar, District, Uttaranchal.

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

Period of Compliance Report: April, 2022 to September, 2022

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 Environmental Clearance vide Letter No: F. No. J-11011/219/2003-IA-II, dated 24.06.2004 and revision of ETP scheme for achieving ZLD vide Letter No. J-11011/219/2003-IA II (I), dated 11th July 2006.		**:**	The Company had applied for **no increase in pollution load as per Notification vide SO No. 980 (E) dated 02.03.2021**. we had uploaded the proposal vide single window No. SW/412/2021 on 30.04.2021 for no increase in pollution load with reference to change in raw material mix from molasses to grain/molasses based for production of Ethanol along with enhancement of production capacity of ethanol from 240 KLD to 305 KLD or absolute alcohol from 228 to 290 KLD (only one product to be manufactured at a given time). Meeting on above matter was conducted as per Notification vide S.O. (E) dated 02.03.2021 and a committee was constituted on 15.06.2021 and First meeting was held on 17.07.2021 and the committee consider and recommend the matter for no increase in pollution load vide their MoM number UEPPCB/HO/Gen-457-/2021/595 dated 17.08.2021. Amended CCA granted by UKPCB vide letter No. UKPCB/HO/Con/I-8/2022/687 dated 25.06.2022. The revised change in raw material mix from molasses to grain/molasses with capacities is given as under:	
Products	**Capacity**	**:**	**Products**	**Capacity**
Rectified Sprit (RS)/Extra Neutral Alcohol (ENA)	**Installed** – 425.0 KLPD (as per EC) **Operational** – 305.0 KLPD (as per CCA) : 305	**:**	Rectified Sprit/Extra Neutral Alcohol/ Absolute Alcohol – Molasses & Grain Route	**1).** 305 KLD R.S./E.N.A or Absolute Alcohol – 290 KLD by using Raw Material 412 MTD (Molasses) product will be 120 KLD of R.S./E.N.A By using raw material 463 MTD (broken rice/corn) product will be 185 KLD of R.S./E.N.A.

	KLD R.S./E.N.A. or Absolute Alcohol – 290 KLD Or 240 KLD R.S./E.N.A. or Absolute Alcohol – 228 KLD			Or **2).** 240 KLD R.S./E.N.A. or Absolute Alcohol – 228 KLD (by using 823 MTD of Molasses) **Note: One Product shall be manufactured at one time**
			The procedure for amendment in CCA for change in product mix without increasing pollution load has been carried out as per the procedure defined in the Notification S.O. 3518 (E) dated 23.11.2016 & Change in raw material mix as per notification **vide SO No. 980 (E) dated 02.03.2021** issued 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 amendment of EIA Notification 2006 for para 7(ii).	

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

S. No.	CONDITIONS	:	COMPLIANCE STATUS
i).	Out of 425 KLPD Distillery Unit, capacity for the Molasses based is 325 KLPD and Cane Juice based is 100 KLPD.	:	India Glycols Limited had established & commissioned a 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 11th July 2006 and both are enclosed as **Annexure-A3 & Annexure-A3.1.** Distillery based on Cane juice (capacity – 100 KLD) was operated for the period January 2006 to January 2010 along with Molasses based (325.0 KLD) (Cane juice stream was stopped due to viability of product). **Production Data April, 2022 to September, 2022:** Alcohol production – 89.75 KLPD (Average) Details of Month wise production is enclosed as **Annexure – I.**
ii).	Total effluent generation with the approved scheme without reboiler is 4600 m^3/d, of which 3900 m^3/d is from the molasses based route and 700 m^3/d from cane juice process. Effluent generation after installation of RO plant is 3880 m^3/d. Out of 3880 m^3/d of effluent generation, 1960 m^3/d are utilized for ferti-irrigation and remaining 1920 m^3/d are composted with press mud. With the present approved scheme, 51% of effluent is	:	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.

	treated by ferti-irrigation and 49% by bio-composting.		
iii).	Effluent generation after reboiler from the molasses-based operation will be 3250 instead of 3900 m^3/d. The effluent from the cane juice based will be 700 m^3/d, thus total effluent generation after installation of re-boiler will be 3950 m^3/d. Total effluent generation after installation of RO will be 3650 m^3/d. With the revised effluent treatment scheme, total effluent generation from molasses and cane juice would be 3650 m^3/d i.e. 2950 m^3/d from molasses based route and 700 m^3/d from cane juice based route. Out of 3650 m^3/d of effluent generation, 1800 m^3/d will be concentrated in evaporator, 1100 m^3/d will be used for ferti-irrigation and 750 m^3/d for bio-composting. The revised scheme envisages evaporation of spent wash (49%), utilization of effluent for ferti-irrigation (30%) and bio-composting of spent 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 m^3/day (max.) of spent wash. Bio-methanated wash is also subjected to MEE. **Effluent Data April, 2022 to September, 2022:-**

			Average Effluent generation – 729.38 MT/day (@8.12 MT/KL of Alcohol production) **Utilization in Evaporator – 100.00 %** Details as per **Annexure – II** **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) Biomethanation, Membrane filtration (RO) followed by biocomposting, (iii) Biomethanation, Evaporation (MEE) and incineration, and (iv) Biomethanation, Aeration followed by Ferti-irrigation for spent wash generated from cane juice 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). **<u>Distillery operation (305.0 KLPD) for the period of 2013 to 2017</u>** **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)** IGL had augment the MEE by Forced Circulation system at 4th & 5th Calandria's so that MEE Plant is adequate equivalent to 240.0 KLD of alcohol production Capacity. Bio-composting facilities through bio methanation followed by RO system (equivalent to 98.0 KLD distillery capacity) was stopped in Jan 2017. **<u>Distillery operation (240.0 KLPD) for the period of 2017 to till date</u>** 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. **<u>Distillery operation for Change in Product mix i.e. 240 KLD (7200 KL/Month) Rectified Sprit/ENA</u>**

			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 year 2022-2023. **Distillery operation for Change in Product mix i.e. 305 KLD Rectified Sprit/ENA or Absolute Alcohol – 290 KLD** **Or** **240 KLD R.S./E.N.A. or Absolute Alcohol – 228 KLD** Now, we are obtaining No increase in pollution load for change in raw material mix from molasses based to grain /molasses based alcohol production and enhancement of manufacturing capacity to the tune of 305 KLD R.S./E.N.A or Absolute Alcohol – 290 KLD by using Raw Material 412 MTD (Molasses) product will be 120 KLD of R.S./E.N.A. By using raw material 463 MTD (broken rice/corn) product will be 185 KLD of R.S./E.N.A. Or **2).** 240 KLD R.S./E.N.A. or Absolute Alcohol – 228 KLD (by using 823 MTD of Molasses) **Note: One Product shall be manufactured at one time**

			As per Notification further CCA was revised & amended CCA granted by UKPCB vide Letter No. UKPCB/HO/Con/I-8/2022/687 dated 25.06.2022.

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 **Annexure – III**
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 @305 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^3/d (1440 m^3/d from manufacture of 120 KLD of alcohol from molasses, and 700 m^3/d from manufacture of 100 KLD of alcohol from cane juice). Out of the 2140 m^3/d of effluent generated, 1440 m^3/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 m^3/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.	**:**	This condition was compiled w.r.t. the treatment facility viz. biomethanation, reverse osmosis & biocomposting. **Relevant details are explain in Sr. No. A-iii of revised scheme of ETP.**
iv).	The company shall achieve zero discharge for the existing distillery capacity of 205 KLD by December 2005, by under taking ferti-irrigation and bio composting, in accordance with the action plan submitted in the affidavit by the company on 22.4.04 to this ministry.	**:**	This condition was complied accordingly. Presently Zero discharge achieved through MEE & Incineration as per ZLD direction of Distilleries issued by CPCB. Relevant details are explain in **Sr. No. A-iii of revised scheme of ETP**.
v).	The company shall earmark a separate area of 40 acres of land for existing capacity and 21 acres for augmented capacity, for bio composting on the basis of 1250 MT/press mud/acre/cycle, as per the action plan submitted in the affidavit. The quality of	**:**	Bio composting was in practice since April 2003 and remain operational till June 2016. Bio composting operation was stopped w.r.t. ZLD Direction of CPCB/UEPPCB.

	manure produced shall meet the CPCB norms.		
vi).	The company shall follow CPCB protocol for ferti-irrigation, and shall accordingly arrange for land requirement of 2344 acres for existing capacity, and 1317 acres for expanded capacity, for ferti-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.	**:**	Ferti irrigation was started from January 2003 to utilize treated distillery effluent as per CPCB Protocol and remain in practice till June 2009. 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 **(Annexure – IV).**
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	**:**	Total 12 Nos. of bio-digesters were installed for treatment of

	rectify the shortfalls in secondary treatment plant.		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^3/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. The species planted are as per directions of local DFO. No fugitive emissions from the plant**.** Green belt Photographs is attached as **Annexure – 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. Health checkups records are attached as **Annexure –VI.**
xiii).	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.

GENERAL CONDITIONS:

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. Consolidated consent to Operate & Authorization for Ethanol plant for the period April 2022 – March 2023 was granted by UKPCB, Dehradun. We are submitting the CCA compliance report on quarterly basis. **(Annexure – VII).**
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_2, 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. Ambient Air Quality Test Reports 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 as: http://tpro.telsys.in/account/password-reset
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,	:	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.

	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).		Ambient Noise Monitoring Reports are attached as **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.
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.	**:**	Separate Environment Management Division is already in functional. 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. Environment management cell has setup objective agenda for training of plant personnel on Hazardous waste management & review the same for its progress. Its progress report will be provided with compliance report. Recurring cost for environmental management and monitoring functions i.e. Continuous Emission Monitoring System (PM _CEMS) & Data Connectivity Camera-Flow Meters –AMC is Rs. 2.30 Lac/Annum.
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	**:**	Last Site inspection was carried out on 24th August, 2020 by Dr. A. Bhardwaj, Scientist C, GOI, MoEF & CC, Regional Office North-Central Zone, 25, Subhash Road, Dehradun.

	control Board. A six monthly compliance status report along with the monitoring data should be submitted to the monitoring agencies.		Regular compliance status report is being submitted to RO, MoEF & CC; Member Secretary, UKPCB and Zonal Office, CPCB.
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. Advertisement has already been submitted.
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.