



INDIA GLYCOLS LIMITED



Works & Registered Office : A-1, Industrial Area, Bazpur Road, Kashipur - 244713, Distt. Udham Singh Nagar (Uttarakhand)
Tel. No.: +91 5947 269000 / 269500 / 275320, +91 9411108202, Fax No.: +91 5947 275315, 269535
Website : www.indiaglycols.com

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

Dated: November 28th, 2019

To,

**Dr. S.C. Katiyar, Scientist 'E', GOI
Ministry of Environment, Forest & 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 and Modernization of existing Chemicals Manufacturing Unit and 21 MW of Captive Power Generation.

Dear Sir,


Please find enclosed herewith the Compliance Report of the Conditions of Environmental Clearance for the Expansion and Modernization of existing Chemicals Manufacturing Unit and 21 MW of Captive Power Generation at A - 1, Industrial Area, Bazpur Road, Kashipur, District - Udham Singh Nagar, Uttarakhand by M/s India Glycols Limited for the Period of **April, 2019 to September, 2019** along with duly filled Data - Sheet.

We assure you that we are complying with all the conditions as stipulated in the EC granted by Ministry of Environment and Forests, 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)**



Himanshu
02/12/19



Encl.: Compliance Report for the Period of April, 2019 to September, 2019

**CC: CPCB, Zonal Office (North), PICUP Bhawan, Vibhuti Khand, Gomti Nagar, Lucknow
226010
UEPPCB, "Goura Devi Paryavaran Bhawan", 46 B, I.T. Park, Sahastradhara Road
Dehradun - 248001**

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HEAD OFFICE : Plot No. 2-B, Sector -126, NOIDA-201304, Distt. Gautam Budh Nagar, Uttar Pradesh, Tel. : +91 120 6860000, 3090100, 3090200

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CIN : L24111UR1983PLC009097

M/s INDIA GLYCOLS LIMITED

Name of the Project: Expansion & Modernization of Existing Chemicals Manufacturing Unit and 21 MW of Captive Power Generation at A – 1 Industrial Area, Bazpur Road, Kashipur, Distt. Udham Singh Nagar, Uttarakhand.

Clearance Letter No: J – 11011/121/2008 – IA II (I) Dated: May 13, 2009

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

ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT


A. SPECIFIC CONDITIONS:

S. No.	Conditions	Compliance Status
i.	There shall be no process effluent generation. The waste water (900 – 1000 m ³ /d) generated due to floor washing shall be neutralized in the existing pit and after pH correction shall be discharged into the industrial drain.	No effluent is generated from the production process. The waste water generated due to washing/condensate (20 – 21 m ³ /hr) is passed through Distillation Column to remove VOC fraction and then treated in ETP having Activated Sludge Process followed by Sand filter and Activated Carbon filter & finally disposing off to industrial drain. On-line continuous effluent monitoring system (OCEMS) has been installed at discharge point & connected with CPCB/SPCB server. <i>(Annexure – I)</i>
ii.	The process emissions in the form of HCL shall be scrubbed with scrubber and emissions shall conform to the prescribed standards. For dispersion of particulate emissions from 30 TPH biogas / bagasse / coal fired boiler shall be controlled by installation of ESP and emissions shall be dispersed through stack of adequate height as per CPCB standards.	Process emissions in the form of HCL is being scrubbed through Scrubber and emissions are well within the prescribed standards. ESP has been installed with 30 TPH Coal fired Boiler & adequate stack height (45 m AGL) has been provided. Stack monitoring is being carried out in house & NABL/MoEF & CC approved laboratory regularly to ensure the emission norms as stipulated. <i>(Annexure – II)</i>



iii.	The Company shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on SPM, SO ₂ , NO _x and HCL on the website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the State Pollution Control Board. The VOC shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	: We have uploaded the Six Monthly Compliance Reports of the Environmental Clearance conditions on Company Website. Work zone monitoring is being carried out quarterly at Chemical Plant. Monitoring report is attached as <u>Annexure – III</u> . Six Monthly Compliance Report of the stipulated Environmental Clearance conditions is being regularly submitted (physical & soft copy) to the respective Offices. A Display Board with pertinent informations is provided at main gate of company.
iv.	The Company shall adopt cleaner production technology to minimize the quantity of fresh water requirement and process effluent generation.	: We have already taken several measures for recycling of effluent viz. washing from one reactor is used for washing of another reactors, boiler blowdown from the flash tank is used for cooling tower makeup water, blow down from cooling tower is used for dust suppression & green belt, DM Plant waste water is being used as make up water for F & S storage tanks, hot condensate from process is recycled back to the boilers. We have adopted the measures to utilize the waste water of drain for spraying on coal storage areas as well as internal roads also. Treated sewage through Sewage Treatment Plant is being utilized in Green Belt.
v.	The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000. All Transportation of Hazardous Chemicals shall be as per the MVA, 1989.	: Industry is already complying with Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 as amended in October, 1994 and January, 2000. Company has obtained Hazardous waste authorization from UEPPCB for generation, collection & storage. HW is being disposed through authorized recyclers only. Copy of CCA is attached. (<u>Annexure – IV</u>)



<p>vi.</p>	<p>The Company shall undertake following Waste Minimization measures:-</p> <ul style="list-style-type: none"> ➤ Metering & control of quantities of active ingredients to minimize waste. ➤ Reuse of by-products from the process as raw materials substitutes in other processes. ➤ Use of automated filling to minimize spillage. ➤ Use of “Close Feed’ system into Batch reactors. ➤ Venting equipment through vapour recovery system. ➤ Use of high pressure hoses for equipment cleaning to reduce waste water generation. 	<p>: Company has adopted all the provisions of Waste Minimization such as:</p> <ul style="list-style-type: none"> ➤ Magnetic Flow meter is installed at discharge point of treated effluent. We have installed on line continuous effluent monitoring system (OCEMS) at the outlet of ETP & data is being send to CPCB, SPCB. <i>(Annexure – V)</i> ➤ By-product i.e. HCL from the Formulation Process is being reused as raw material for other Processes. ➤ Automated filling has been adopted to minimize spillage. ➤ “Close Feed’ system is being applied for Batch reactors. ➤ VAM Unit has been installed & is being used for Chiller Unit. ➤ High pressure hoses are used for equipment cleaning to reduce waste water generation.
<p>vii.</p>	<p>Fugitive emissions in the work zone environment, product, raw material storage area shall be regularly monitored. The emissions shall conform to the limits imposed by SPCB.</p>	<p>: We have already installed water spraying systems for suppressing fugitive emissions from coal ash loading points and also had covered area for storage of coal. We have regularly monitored work zone area of our chemical plant. Monitoring report of fugitive emission are attached as <i>Annexure – III.</i></p>
<p>viii.</p>	<p>Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc. an area of 33% shall be developed as green belt. Selection of plants species shall be as per the guidelines of CPCB.</p> 	<p>: Hazardous Chemicals are already being stored in tanks, drums, carboys etc at confined area.</p> <p>A number of trees suitable to the local condition have been planted in vacant space under Green Belt Development in such a fashion, to create an effective barrier between the Plant & surroundings. Green belt has already been developed approx. 34% of the total land area as per CPCB & planted approximately 100000 Plants of different Species. Existing green belt is being strengthened regularly by planting new saplings in each monsoon season.</p> <p><i>(Annexure – VI)</i></p>

ix.	Permission shall be obtained from the State Ground Water Department / Central Ground Water Board to draw the water as may be applicable in this case.	: Necessary permission for abstraction of 5096 m ³ /day (26 th February 2009) and 3056 m ³ /day (15 th January 2016) has been taken from Central Ground Water Board. <i>(Annexure – VII)</i>
x.	The Company shall harvest surface as well as rainwater from the rooftops of the buildings and storm water drains to recharge the ground water and use the same for the various activities of the project to conserve fresh water.	: Roof top rain water harvesting has been implemented by the Industry and a natural pond is also available within the premises for recharge the ground water. Digital Piezometer is also installed to regular monitor the ground water level. For Artificial Recharge a Pond at Village - Bhagatpur Tanda, District - Moradabad and Gabion Structure at Gabua Nala, Near Village - Kishanpur Kotli, Ramnagar are also maintained by the company. <i>(Annexure – VIII)</i>
xi.	Occupational health surveillance of the workers shall be carried on a regular basis and records shall be maintained as per the factories Act.	: Occupational health surveillance programme is under practice. Regular check-up of the employee's health is being done & record is maintained.

GENERAL CONDITIONS:

i.	The project authorities shall strictly adhere to the stipulations made by the State Pollution Control Board.	: We are strictly complying with Specific & General conditions stipulated with CCA Order & submitting compliance report to the UEPPCB regularly. <i>(Annexure - IX)</i>
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment & Forests. In case of deviations or alterations in the project proposal from those submitted to this ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	: Further Expansion or Modifications in the Plant shall not be carried out without prior approval of the Ministry of Environment, Forests & Climate Change (MoEF & CC).



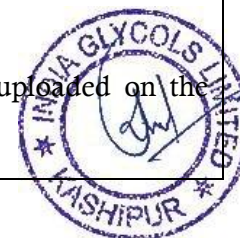
iii.	At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	: Noted & it shall be complied. Stack monitoring is being carried out in house & NABL/MoEF & CC approved laboratory regularly to ensure the emission norms as stipulated. <u>(Annexure – II)</u>
iv.	The gaseous emissions (NO _x , SO ₂ and SPM) and particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concern authorities from time to time. At no time, the emission level shall go beyond the stipulated standards, in the event of failure of pollution control system(s) adopted by the unit; the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Stack monitoring for SO ₂ , NO _x and SPM shall be carried.	: Provision has been made to control the air pollution in such a way that quantity of emitted pollutants meet with prescribed standards of board. NO _x , SO ₂ and SPM concentration from various stack is well below the prescribe norms of Board. During accidental circumstances, if emission of pollutants will be more than prescribed standards, the respective Unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. AAQ Monitoring is being carried out in house & by approved Laboratory. <u>(Annexure – X)</u>
v.	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Board (SPCB) and it shall be ensured that at least one station is installed in the up wind & downwind direction as well as where maximum ground level concentrations are anticipated.	: Location for ambient air quality monitoring has been already identified in consultation with SPCB, to monitor SPM, SO ₂ , NO _x , in the up wind & downwind direction as well as where maximum ground level concentrations are anticipated. <u>Annexure – XI</u>
vi.	The overall noise levels in and around the plant shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 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 done on yearly basis by EMC/ F&S. Company has provided all the noise control measures including Acoustic Hoods, Silencers, Enclosures & green belt etc. <u>(Annexure – XII)</u>
vii.	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 under taken on regular basis.	: For safe Storage, Handling & use of Chemicals following measures are being adopted:- <ul style="list-style-type: none"> • On-site preparedness plan is already in place. • Training/Awareness program on safety for each employee is being conducted on regular basis.



		<ul style="list-style-type: none"> • Fire Extinguishers are installed at strategic points all over the premises, checked at regular intervals and records are maintained. • First aid facilities have been provided. • Ambulance is always on ready for instant mobilization during emergency. • The workers have been provided with the training for the First aid measures in case of accident. • Pre-employment and routine periodical medical examinations for all employees are being done periodically by qualified Doctors of Medical Centre.
viii.	Usage of PPEs by all employee / workers shall be ensured.	: Company ensures that all employee / workers use PPEs. PPEs such as Helmets, Safety Shoes, Hand Gloves, Mask, Goggles and Apron are provided while dealing with the Raw Materials / Product.
ix.	The project shall also comply with all the environmental protection measures and safeguards proposed in the project report submitted to the ministry. All the recommendations made in respect of environmental management and risk mitigation measures related to the project shall be implemented.	: All the environmental protection measures as proposed in the Project Report have been implemented & recommendations for environmental management and risk mitigation have been implemented also. To ensure the public safety the Company has regularly taken Public Liability Insurance. <u>(Annexure – XIII)</u>
x.	The Company will undertake all relevant measures for imposing the Socio-economic conditions of the surrounding area. CSR activities will be undertaken by involving local villages & administration.	: The Company's Directors and Employees contribute time and resources to the Company's various CSR initiatives. IGL is actively involved to render the CSR activities in the surrounding areas for Health, Education, Community Welfare & Environment. Periodic assessment of the implemented schemes is being carried out also to assess the success of such



			schemes. <i>(Annexure – XIV)</i>
xi.	The Company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	:	<p>The Company has undertaken various eco-developmental measures including community welfare measures in surrounding areas such as:</p> <ul style="list-style-type: none"> ▪ Facilitating Tree Plantation. ▪ Free Medical Assistance. ▪ Free distribution of Medicine. ▪ Organizing Blood donation Camps. ▪ Facilitating the construction of Roads, Bridges and Drains. ▪ Financial assistance to poor villagers ▪ Installing Street Lamps and Hand Pumps for drinking water in areas around the Company's facilities ▪ Organized Swachhta Pakhwara - Cleaning of Pond
xii.	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management & Monitoring functions.	:	The company has a clear Environmental Policy. The Unit is already having Environmental Management Division headed by the Environment Experts. Separate Environmental Management Division is already functional. <i>(Annexure – XV)</i>
xiii.	The project authorities shall earmark adequate funds to implement the conditions stipulated by the Environment & Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	:	Desired funds is easily available to implement the conditions stipulated by MoEF & SPCB. In addition recurring funds are allocated every year to meet the requirement of running plant effectively.
xiv.	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website	:	<p>A copy of the Clearance Letter has been already sent by the proponent to all the concerned authorities.</p> <p>A copy of clearance latter has been already uploaded on the website of company.</p>



	of the company by the proponent.		
xv.	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.	:	Noted.
xvi.	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 SPCB/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 concerned Regional Office of the Ministry.	:	Information about Environmental Clearance was already published. <i>(Annexure – XVI)</i>
xvii.	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 the project.	:	We have already informed to the concerned authorities with the relevant informations.

