

Ref: Letter No. KFCL/TS/ENV2021-2/12

Date: 12.05.2021

The Director  
Ministry of Environment, Forest and Climate Change  
Regional Office (Central Region)  
Kendriya Bhawan, 5<sup>th</sup> floor, Sector - H,  
Aliganj, Lucknow - 226 024 (UP)

**Subject:** Expansion of Ammonia Urea Fertilizer Plant at Udyog Nagar Industrial Area, Panki, Kanpur, Uttar Pradesh - Kanpur Fertilizer & Chemicals Limited - Six monthly environmental compliance report for the period October' 2020 - March' 2021.

**Reference:** MoEF&CC, Environmental Clearance letter no.J-11011/130/2014-IA.II (I), dated 20.04.2017

Dear Sir,


With reference to general condition no. xiv, as stipulated in the Environmental Clearance dated 20.04.2017, We are pleased to enclose herewith the six monthly compliance report of the conditions contained in the Environmental Clearance for the period October' 2020 - March' 2021 as per the guidelines.

The above stated compliance report is being submitted in the form of hard copy as well as in soft copy (CD & email) for display on website.

Kindly acknowledge the same.

Thanking you.

Yours faithfully  
for Kanpur Fertilizers & Chemicals Limited

  
**Anil Mohan**  
Director & Occupier

- CC to:
1. **Zonal Office of CPCB**  
Regional Directorate (North), PICUP Bhawan, Vibhuti Khand,  
Gomti Nagar Lucknow - 226 010
  2. **Member Secretary**  
U.P. Pollution Control Board  
PICUP Bhawan, 3<sup>rd</sup> Floors, B Block, Vibhuti Khand,  
Gomti Nagar, Lucknow - 226 010
  3. **Regional Officer**  
U.P. Pollution Control Board, Kanpur

Encl: As stated above.



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## ENVIRONMENTAL COMPLIANCE REPORT

**Name of the Project** :: Expansion of Ammonia – Urea Fertilizer plant at KFCL , Kanpur

**Clearance Letter No.** :: MoEF Vide Letter no. J-11011/30/2014-IA-II (I) dated April 20, 2017

**Project Code** :: Applied for

**Period of Compliance Report** :: October' 2020— March' 2021

### A. SPECIFIC CONDITIONS

SR. NO.	CONDITIONS	STATUS
1	The gaseous emissions ( SO <sub>2</sub> , NO <sub>x</sub> , NH <sub>3</sub> , HC and Urea Dust ) & particulate matter from various processes units shall conform to the norms prescribed by the CPCB / SPCB from time to time. At no time, the emission level shall go beyond the prescribed standards. In the event of failure of any 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. Stack emissions shall be monitored regularly	Financial closure of expansion project is in progress and therefore the project implementation start is yet to take place . We shall comply with prescribed norms at the time of implementation of expansion project  In existing plant, the gaseous emissions ( SO <sub>2</sub> , NO <sub>x</sub> , NH <sub>3</sub> , HC and Urea Dust ) and particulate matter from various process units conforms to the standard prescribed by the CPCB/UPPCB ( as applicable to old plant with ICI Ammonia technology with Casale modifications and Toyo Koatsu C process for Urea plants ) are being complied in totality & reports are being submitted to UPPCB. All existing stack emissions are being monitored. At no time the emission has gone beyond prescribed limits. The unit has already commissioned "On line emissions monitoring and reporting " system for "On line" review by CPCB , in respect of existing running unit
2	Adequate stack height shall be provided to Ammonia plant reformer, Heat recovery steam generator (HRSG) , NG / RLNG fired gas turbine and granulation. Low NO <sub>x</sub> burners shall be provided to control NO <sub>x</sub> emissions.	Financial closure of the project is in progress, However, all stipulations for stack height for Ammonia reformer, GT – HRSG etc. shall be incorporated during engineering and procurement phase for compliance.
3	As proposed , exhaust air from the Granulator shall be passed through Scrubber and conform to the norms prescribed by CPCB / SPCB from time to time.	Shall be complied
4	Water requirement for existing unit and proposed expansion shall not exceed 21,200m <sup>3</sup> /day. No ground water shall be used.	We shall not use any ground water and also confirm that for expanded capacity Ammonia , Urea & Utilities, the total water requirement shall not exceed 21,200 m <sup>3</sup> /day
5	PP has constructed two water reservoirs having capacity of 32 and 64 million gallons within plant premises and their collection surfaces are 34,350 m <sup>2</sup> and 56,550 m <sup>2</sup> respectively.  PP has also constructed a big catchment pond.	The two reservoirs with specified capacity and surface area exist and are in operation in the existing plant.  We confirm completion of construction of a big catchment pond within the existing premises.

SR. NO.	CONDITIONS	STATUS
6	<p>Industrial wastewater shall be treated in the ETP. As proposed, Urea plant process condensate shall be treated in a deep hydrolyser followed by stripping.</p> <p>Ammonia plant process condensate shall be stripped with steam followed by activated carbon and demineralization. Treated condensate shall be recycled / reused in the process.</p> <p>Utilities waste water shall be treated in the ETP and treated effluent shall be recycled / reused.</p> <p>Treated effluent shall also be monitored for the parameters namely Ammoniacal Nitrogen, Nitrate, Fluoride, PH etc.</p> <p>As proposed 3725 m3/day of treated effluents shall be recycled back to plant. Balance only 19m3 /day of sludge will be disposed off through Common Hazardous Waste Treatment Storage and Disposal Facility (CHW TSDF ) of M/s Uttar Pradesh Waste Management Project (UPWMP).</p> <p>Sewage shall be treated in STP.</p> <p>The plant shall adopt ZLD concept</p>	<p>All stipulated conditions shall be complied.</p>
7	<p>Regular monitoring of ground water by installing peizometric wells around the guard pond and sludge disposal sites shall periodically be done and report submitted to the Chennai regional office of the Ministry , CPCB and SPCB.</p>	<p>Studies for identification of required no. of points around guard pond for installation of Peizometric wells going on. Action shall be initiated as per project planning and schedule for installation of required no. of Peizometric wells around Guard pond and sludge disposal sites.</p> <p>Monitoring of ground water quality and report shall be submitted to Regional office , MOE&amp;F CC, CPCB and SPCB.</p>
8	<p>The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes. Measures shall be taken for firefighting facilities in case of emergency.</p>	<p>Authorization shall be obtained for management of Hazardous waste including collection, storage and disposal of hazardous waste under The Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and all applicable amendments.</p> <p>Required facilities for fire fighting in emergency conditions already exist for the existing unit. However, these will be suitably augmented for additional / new Plant &amp; Machinery and the technology for the expanded capacity.</p>

SR. NO.	CONDITIONS	STATUS
9	The by-products which fall under the purview of the Hazardous Waste Rules, be handled as per the provisions of the said Rules and necessary permissions shall be obtained under the said rules.	All by-products, which fall under the purview of <u>Hazardous Waste Rules</u> , shall be handled as per applicable rules and procedures.  We shall seek necessary permissions, as applicable, well in advance for above.
10	Spent catalysts and used oil shall be sold to authorized recyclers/re-processors only.	Shall be fully and strictly complied.
11	The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP).	We undertake and confirm that we shall follow / execute / comply with all recommendations mentioned in the Charter on <u>Corporate Responsibility for Environmental Protection (CREP)</u> .
12	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per Factories Act.	Noted and agreed
13	As proposed, Green Belt area of about 81 acres constituting more than 33 % of the total area 243.43 acres shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of the plant species shall be as per the CPCB guidelines in consultation with the DFO.	The KFCL possesses nearly 243.43 Acres of area out of which about 20.75 Acres is utilized in plant operations and 81 Acres (33%) meant for green belt as per mandatory requirement. Approximately 33% of the total area has already been developed.  Monitoring and Maintenance of the green belt is being carried out regularly.
14	All the commitments made during the Public Hearing / Public Consultation meeting held on 14.07.2015 at 2.00 pm in State Inter College , Bhaunti, Kanpur shall be satisfactorily implemented and adequate budget provision shall be made accordingly.	Shall be complied.
15	2.5 % of the total cost of project shall be earmarked towards Enterprise Social Commitment ( ESC ) based on local needs and action plan with financial and physical breakup . Details shall be prepared and submitted to the Ministry's Regional Office. Implementation of such programme shall be ensured accordingly in a time bound manner.	Noted
16	Remote operated valves placed on NH <sub>3</sub> line to avoid leakage / equipment check should be performed to ensure that Remote Operated Valve ( ROV ) is all the time functional.	We shall provide ROVs on NH <sub>3</sub> line, wherever required and shall provide necessary instrumentation / system for 'all time functionality' of these valves.
17	A well equipped Environment Management Cell shall be formed with a Environment Manager having post graduate qualification in Environmental Sciences / Engineering.	We confirm that we shall establish a fully fledged "Environment Management Cell" which shall have a well qualified Environment Manager, as prescribed at the time of start of project implementation. The project schedule shall be firmed up after Project Financial closure.

**B. GENERAL CONDITIONS**

<b>SR. NO.</b>	<b>CONDITIONS</b>	<b>STATUS</b>
<b>1</b>	The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and any other statutory authority.	We shall comply with all environmental stipulations made by UP Pollution Control Board, CPCB and U.P. Govt. We shall execute all plans and schemes, supporting the stipulations.
<b>2</b>	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and 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.	Noted and Agreed.
<b>3</b>	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	We shall comply fully with the stipulations for fixing location of ambient air quality monitoring stations for the Capacity Expansion Project.
<b>4</b>	The National Ambient. Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) date 16 <sup>th</sup> , November, 2009 shall be followed.	Regular "On line" monitoring of ambient air is being done and report submitted to UPPCB / CPCB regularly for existing plant. We shall comply with all stipulations for proposed expansion.
<b>5</b>	The overall noise levels in and around the plant area 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.75dBA (day time) and 70 dBA (night time).	Regular noise level is being monitored around all Process plants, Plant Buildings, Utilities and plant boundaries etc. and measured values are well within the prescribed limits.  We confirm implementing similar monitoring for expansion project. We also plan to provide 'Silencers' in all new Blowers, Air and process gas compressors , Turbines , Pumps etc.
<b>6</b>	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	We confirm total compliance & provide rainwater harvesting facilities , on the roof top of plant buildings ( wherever technically feasible ) and also provide 'Storm Water' drains and integrate with designs for use of the harvested rain water in the process.. Feasibility has been studied and the evaluation of the parties is in progress.
<b>7</b>	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 to all employees on handling of chemicals shall be imparted.	We confirm total compliance with all stipulations / requirements under "Training" including routine medical examination of all employees.

SR. NO.	CONDITIONS	STATUS
8	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	We confirm total compliance for all stipulations, defined in EIA/EMP, risk mitigation measures and also those provisions, as identified during 'Public Hearing'.
9	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	Detailed CSR Plan under proposed expansion project is attached as <b>Annexure- I</b> & shall be implemented during operation of the plant on expanded capacity.
10	The company shall undertake eco developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Shall be complied
11	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	We confirm categorically that we shall establish a fully fledged "Environment Management Cell" and Laboratory Facilities for carrying out environmental management and monitoring functions & initiate steps after Project's Financial closure.
12	The company shall earmark sufficient funds towards capital cost and recurring cost per annum 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 earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	We undertake and confirm that we shall earmark funds towards capital cost for setting up the required facilities / systems / plants and also for their operation / maintenance / management & control. We undertake to state that we shall not divert these funds / budget provisions for any other purpose except those which are required under environment management and pollution control.
13	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	We have already sent copy of the Environmental Clearance letter to DM Kanpur, Kanpur Municipal Corporation, Waste collection Agency (ies) and / or Processors vide letter no. KFCL / T.S./ENV / 01 / 2017 -18 dated 16 <sup>th</sup> November, 2017. We have also sent copy of the Environmental Clearance letter to the concerned Panchayat and Zila Parishad vide letter no. KFCL / T.S./ENV / 02/ 2017-18 dated 16 <sup>th</sup> November, 2017.
14	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	Noted and complied.  The six monthly EC compliance report is regularly submitted as per schedule. Six monthly report for the period of April' 2020— September 2020 was submitted vide Letter No. Ref: Letter No. KFCL/TS/ENV2020-1/11 Dated: 29.10.2020 to all concerned.

SR. NO.	CONDITIONS	STATUS
15	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MOEF & CC by e-mail.	We confirm total compliance with all stipulations under Environment (Protection) Rules, 1986.
16	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 Committee and may also be seen at Website of the Ministry at <a href="http://moef.nic.in">http://moef.nic.in</a> . 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.	<p>We have already put the required advertisement informing public on 2<sup>nd</sup> May , 2017 regarding receipt of Environmental Clearance to the project from MOEF &amp; CC , Govt. of India. We have published the same in two local dailies ( i ) Amar Ujala ( ii ) Hindustan Danik.</p> <p>A copy each of this advertisement ( in Amar Ujala and Hindustan Danik ) has already been sent to the Regional Office of MOEF &amp; CC vide Letter No. KFCL/TS/ENV/04/2017-18 dated: 16.10.2017.</p>
17	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 undertake and confirm that we shall inform the Regional Office & Ministry about Project Approval by concerned authorities and also about Project Financial Closure, as soon as we receive the same.

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**EXPANSION OF AMMONIA – UREA FERTILIZER PLANT**  
**at Udyog Nagar Industrial Area, Panki, Kanpur, Uttar Pradesh**  
**Kanpur Fertilizers & Chemicals Limited**

**CSR PLAN**

Kanpur Fertilizers & Chemicals Limited. (KFCL) has taken over assets of Fertilizer Plant, which has a legacy of about 40 years, initially operated by ICI and subsequently by Duncan (Goenka Group of Industries). During its existence, various on – going activities of social service/ up – bringing of local habitat have been implemented.

KFCL, further intends to strengthen its ESR / CSR related activities in the following areas, considered to be much needed by the locals, in a generally developed area of Kanpur. As part of corporate philosophy, Jaypee Group have taken such initiatives in all the project / plant sites with a view to live with the local population as a part of family and principle of Co-habitants.

**ACTION PLAN FOR IMPLEMENTATION OF CSR ACTIVITIES**

<b>S. No.</b>	<b>Year of Operation</b>	<b>Activity</b>	<b>Budgetary Provision (Rs. in Lacs)</b>
1.	Year - I	Medical Van(S) deployment with doctor/attendant and Pathological Services – 2 Nos.	20.0
2.	Year - II	(a) Organizing Medical Camps - 4 Nos.  (b) Education to Children from disadvantaged sections of society in neighborhood – 30 to 40 Nos.	10.0  5.0
3.	Year - III	Skill Building/ Vocational Training to youth with technical aptitude for a period of 3 months to 6 months – 10-15 Nos.	6.0
4.	Year - IV	Establishment of ITI and operation of the same for providing Vocational Training.	60.0
5.	Year - V	Establishment of Dispensary –No. 1	30.0
<b>Total</b>			<b>131.0</b>