

Chambal Fertilisers and Chemicals Limited
CFG3 Project
Environment Clearance_ Compliance Report (Feb 28, 2018)

Reference: Environment clearance to CFG3 Project vide MOEF letter .no. J-11011/664/2008-IAII (I) dated 22nd April 2010 & their after amended through letter no. J-11011 / 664 / 2008-IA II (I) dated 10th June, 2011 and further validity extended till April-2020 vide MOEF letter no. J-11011/664/2008-IA II (I) dated 22nd June, 2015.

A. SPECIFIC CONDITIONS:

Clause No.	Description	Status as on Date
Point no. (i)	The company shall comply with all the conditions stipulated in the environmental clearances issued vide letters no. J-11011/2/96-IA-II dated 24.7.1996, and letter no. J-11011/152/2006-IA-II (I) dated 18.9.2007.	Being complied and half-yearly compliance report is being submitted to MOEF – Lucknow.
Point no. (ii)	The company shall undertake measures for water conservation. The specific water consumption shall not exceed 8 m ³ /MT of Urea. The waste water generated from all the sources after treatment shall be recycled back in the process to maintain Zero discharge condition. The process water condensate shall be recycled as boiler feed water. The waste water generation shall not exceed 5 m ³ /MT of urea produced.	Plants are designed to achieve water consumption not exceeding 8 m ³ /MT of Urea. The waste water generated shall be treated and recycled into the process. RO-ZLD unit are under installation and shall be ready for operations by 31-March, 2018. The process water condensates (Ammonia & Urea Process condensates, Turbine Condensates and Steam Condensates shall be recycled as boiler feed water. Plants are designed to achieve waste water generation not exceeding 5 m ³ /MT of Urea.
Point no. (iii)	The project authority shall obtain prior permission from State Irrigation Department. A copy of permission shall be submitted to the Ministry's Regional Office at Lucknow.	Permission from Water Resource department received. Copy attached.
Point no. (iv)	The gaseous emissions (NO _x , NH ₃ , Urea dust) from various units shall conform to the prescribed standards. At	Plants are designed to maintain the emissions well within the prescribed standards. Monitoring report by MoEF

	no time, the emission levels 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.	approved lab shall be submitted after commissioning of different sections of the plant. Unit shall not be kept operational if there is any deviation from permissible limits/ norms until the control measures are rectified to achieve the desired efficiency
Point no. (v)	The company shall upload the status of compliance of the stipulated environmental clearance conditions. Including results of monitored data on its 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 level of PM10 ,NH3, methane and NOx (ambient levels) and emission from the stacks shall be monitored and displayed at a convenient location near the main gate of the company and at important public places.	Status of the compliance is updated on the CFCL website and simultaneously reports are submitted to MoEF Lucknow office and CPCB Bhopal office with a copy to RPCB Jaipur once in six months. As directed by MoEF, .Ambient air quality is displayed near the main gate. Stack emissions shall be displayed once the commissioning of unit is completed.
Point no. (vi)	To control fugitive emissions, regular monitoring of shop floor environment shall be carried. Leakages in the form of gases, liquid and dust emission shall be checked and mitigative measures taken. The company shall provide de-dusting system at all the transfer points in the bagging system. The dust emissions from the urea plant shall conform to the prescribed standards.	Noted and shall be complied since beginning of the production. System for de-dusting has been provided in Bagging plant to control the dust emissions within the prescribed limits.
Point no. (vii)	The company shall install low NOx burners in primary reformer furnaces and in gas turbine to mitigate the NOx emission.	Low NOx burners have been installed in primary reformer and gas turbine for power generation to mitigate the NOx emission.
Point no. (viii)	It is noted that the residual from RO unit shall be disposed to the brick kilns. The company shall review the scheme for	Scheme for disposal of RO plant rejects has been prepared and submitted to MoEF & RPCB. Copy attached.

	disposal of RO rejects and submit to the ministry.	
Point no. (ix)	The company shall develop the green belt in 33% area out of total area to mitigate the effect of fugitive emissions and noise as per the guidelines CPCB.	Noted and is being complied.
Point no. (x)	The company shall implement all the recommendations made in the charter on corporate responsibility for Environmental protection (CREP) for fertilizer industries.	Noted. Plant is designed to take care of all the recommendations made in the charter on corporate responsibility for Environmental protection (CREP) for fertilizer industries.
Point no. (xi)	Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Act.	Noted, Occupational health surveillance system is in place and records are being maintained as per rules.
Point no. (xii)	The company shall undertake adequate protection measures for handling of ammonia vapor in case of plant upset condition. Safety valve exhaust & drains shall be connected to flare and vent stack.	Noted and shall be complied for new facilities.
Point no. (xiii)	The company shall review the need for additional storage of ammonia. While decommissioning naphtha storage tank which shall be ensured that the tank is fully empty & made free of hydrocarbons.	Noted and reviewed. As directed, no additional ammonia storage tank is being installed. Complied with. Naphtha storage tanks decommissioning and dismantling job completed.
Point no. (xiv)	The company shall comply with the recommendations made in the EIA / EMP and Risk assessment reports.	Noted, Plant is designed to take care of all the recommendations made in the EIA / EMP and Risk assessment reports.
Point no. (xv)	The company shall make the arrangement for protection of possible fire hazards during manufacturing	Noted. Fire water hydrant system is designed as per TAC guidelines and implemented in CFG#3 plants. Adequate

	process in material handling.	fire protection measures have been taken in design stage itself to protect any fire hazards during manufacturing process in material handling.
Point no. (xvi)	During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic waste and storm drains.	Noted. Garland drains construction is included in plant design to avoid mixing of accidental spillages with domestic waste and storm drains.
Point no. (xvii)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure & facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Noted. Labour colony is constructed with all the amenities required for the workers.

B. GENERAL CONDITIONS:

Clause No.	Description	Status as on Date
Point no. (i)	The project authorities shall strictly adhere to the stipulations of the SPCB/ State Government or any other statutory body.	Noted.
Point no. (ii)	The gaseous emissions (SO ₂ , NO _x , NH ₃ , Fertilizer dust) and particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. Emission data shall be periodically monitored and reports submitted to Ministry's Regional office, CPCB and SPCB.	Noted and shall be complied as explained above in point no. (iv) and point no (vii). Emission data shall be periodically monitored and reports shall be submitted to MoEF Lucknow, CPCB Bhopal and RPCB Jaipur once the plant is commissioned.
Point no. (iii)	All the waste waters generated from the various processes shall be recycled / reused in the plant and zero discharge	Waste water generated from various processes shall be treated and recycled into the process. RO-ZLD unit is under

	shall be maintained. The domestic waste water shall be treated in septic tanks and treated waste shall be used for irrigation in the green belt.	installation and shall be made ready for operation by 31-March 2018. Domestic waste water shall be treated in STP plant. Beside existing STPs (02 nos) one new STP is under installation. Treated domestic effluent shall be used for irrigation in green belt.
Point no. (iv)	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.
Point no. (v)	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 and shall be complied.
Point no. (vi)	The location of ambient air quality monitoring stations shall be reviewed in consultation with the State Pollution Control Board (SPCB) and additional stations shall be installed, if required, in the down wind direction as well as where maximum ground level concentrations are anticipated.	Noted. Five ambient air quality monitoring stations have been constructed. Location of these monitoring stations were decided in consultation with Regional Office, RSPCB, Kota.

Point no. (vii)	Dedicated scrubbers and stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided to control the emissions from various vents. The scrubbed water shall be sent to ETP for further treatment.	Noted and shall be complied.
Point no. (viii)	All the storage tanks will be under negative pressure to avoid any leakages. Breathers valves, N2 blanketing and secondary condensers with brine chilling system shall be provided for all the storage tanks to minimize Vapour losses. All liquid raw material shall be stored in storage Tanks and Drums.	These measures are considered during engineering of the plants where-ever applicable and feasible.
Point no. (ix)	The company shall undertake following waste Minimization measures. <ul style="list-style-type: none"> ➤ Metering and control of quantities of active ingredients to minimize waste. ➤ Reuse of by-products from the process as raw material or as raw material substitutes in other processes. ➤ Use of automated filling to minimize spillage. ➤ Use of 'Closed Feed' system into batch reactors. ➤ Venting equipment through vapour recovery system. ➤ Use of high pressure hoses for equipment cleaning to reduce wastewater generation. 	Noted and shall be complied with.
Point no. (x)	Fugitive emissions in the work zone environment, product, and raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the State Pollution Control Boards/Central	Noted and shall be complied.

	Pollution Control Board.	
Point no. (xi)	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 & January, 2000.	Noted and shall be complied.
Point no. (xii)	The overall noise levels in and around the plant area shall be kept well within the standard 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).	Noted and shall be complied. Required protection measures for noise control have been included in the plant design.
Point no. (xiii)	The company shall develop rain water harvesting structures to harvest the run off water for recharge of ground water.	CFCL has already taken the steps towards Rain water harvesting structures. State government has approved construction of low height dams at river Parwan and river Kalisindh. Construction of Low-height Dam at Rajgarh on Parwan River is completed. Construction of Low Height Dam at Khan-ki-Jhopri on Kalisindh river is completed.
Point no. (xiv)	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan should be submitted to the SPCB within three months of receipt of this letter for approval.	Eco development plan for the proposed project was submitted to State pollution control board on 16 July'2010 vide letter no. SMEQC/07/40/134294. Being a brown-field project, CFCL site has already taken up eco development measures.

Point no. (xv)	A Separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	A Separate Environmental Management Cell equipped with full fledged laboratory facilities to carry out the Environmental Management and Monitoring functions is in place.
Point no. (xvi)	The Project authorities shall earmark adequate funds 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 shall not be diverted for any other purpose.	Noted and shall be complied.
Point no. (xvii)	The implementation of the project vis-à-vis environmental action plans shall be monitored by the concerned Regional office of the Ministry/SPCB/CPCB. A six monthly compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the company.	Six monthly compliance status report is being submitted regularly to the concerned authorities and posted on the website of the company.
Pointno. (xviii)	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/representations, if any were received while processing the proposal.	Complied with.
Point no. (xix)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC 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 the State Pollution Control Board	Noted and being complied. Stack Monitoring data shall be submitted after commissioning of the plant.

Point no. (xx)	The environmental statement for each financial year ending 31 st 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 by e-mail.	Noted and shall be complied.
Point no. (xxi)	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 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.	Public was informed through published information in two local newspapers and copy was submitted to the Regional Office. Public notification was also displayed on CFCL website.
Point no. (xxii)	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure & final approval of the project by the concerned authorities and date of start of the project.	Financial closure achieved and date of start of CFG3 project is 15-March-2016.

C. ADDITIONAL CONDITIONS SPECIFIED IN VALIDITY EXTENSION LETTER DATED 22-JUN-2015:

Clause No.	Description	Status as on Date
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Point no. (3)	No effluent shall be discharged outside the plant premises and 'Zero effluent discharge condition shall be implemented.	Noted. For process effluent, RO-ZLD unit installation is under progress. Domestic effluent shall be treated in STP plant (Existing STP facility is being augmented) and treated domestic effluent shall be used for green belt development.
Point no. (4)	Company shall install continuous monitoring system (24x7 monitoring devices) for flow measurement and relevant pollutants in the treatment system and gaseous emission. The data to be made available to the respective SPCB and in the company's website.	Noted, Online monitoring systems (for emissions and effluent stream) installation is under progress and same shall be connected to State Board server & CPCB as soon as these units' operation is stabilized.