



रामगुंडम फर्टिलाइजर्स एण्ड केमिकल्स लिमिटेड

Ramagundam Fertilizers And Chemicals Limited

रामगुंडम फर्टिलाइजर्स एण्ड केमिकल्स लिमिटेड

(A Joint Venture Company)

Site Office : Fertilizers City, Ramagundam - 505 210, Dist. Peddapalli, Telangana

Telephone : +91 8728 257488, E-mail : rfcl.ramagundam@rfcl.co.in

GSTIN : 36AAHCR2335P1ZY, CIN : U24100DL2015PLC276753

RFCL/Env/MoEF/01/2022/

Dated: 22.02.2022

To,
Director,
Regional Office,
Ministry of Environment, Forest and Climate Change,
1st and 2nd Floor, HEPC Building,
No:34, Cathedral Garden Road,
Nungambakkam,
Chennai-600034.

Ref. : MoEF Ref. F No.- J-11011/371/2013-IA II (I) dated 16th October,2015.

Subject : Submission of Half Yearly Environmental Clearance (EC) Compliance Report for RFCL Ramagundam, Telangana for the period of June'2021 to December'2021.

Respected Sir,

RFCL started its commercial operations on 22.03.21 and same was informed to MoEF wide letter RFCL/Env/03/2021/1962 dated 28.08.21. However, RFCL continuous operation started after receiving CFO (consent order no. 210523004209 dated 07.06.21) in June'21. Half-yearly Environmental Clearance Compliance report along with the Environment monitoring data for the period of June'2021 to December'2021 is enclosed herewith.

Trust that you find the above information in order.

Yours Sincerely

S.K. Jha

GM (Project)

Ramagundam Fertilizers and Chemicals Limited
Dist. Peddapalli-505 210, Telangana State

Enclosure: As above.

Copy to:

- Joint Chief Environmental Engineer (TSPCB), Hyderabad, Telangana.
- Zonal Office, CPCB, Bengaluru, Karnataka.
- Environmental Engineer, Ramagundam, Telangana.

Corporate Office: Ramagundam Fertilizers and Chemicals Limited; 4th Floor, Wing- A, Kribhco Bhawan, Sector-1,; Noida, Uttar Pradesh; Pin Code- 201301

Registered Office: Ramagundam Fertilizers and Chemicals Limited; Scope Complex, Core No. III; 7, Institutional Area, Lodhi Road, New Delhi-110003



Registered & Corporate Office : 3rd & 4th Floor, Mehta Building,
4, Bhikaji Cama Place, New Delhi - 110066.

RAMAGUNDAM FERTILIZERS AND CHEMICALS LIMITED, RAMAGUNDAM

Ammonia (2200 MTPD) / Urea (3850 MTPD) Fertilizer Complex

Subject : Six monthly compliance report of Environmental Clearance. (Period : June 2021-December 2021)

Ref: MoEF&CC letter No: J-11011/371/2013-IA II (I) dated 16th October, 2015.

| A. SPECIFIC CONDITIONS | | |
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| S.NO | DESCRIPTION | COMPLIANCE STATUS |
| i) | The gaseous emissions (SO ₂ , NO _x , NH ₃ , HC and Urea Dust) and Particulate matter from various process units shall conform to the norms prescribed by CPCB/ SPCB from time to time. At no time, the emission levels 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 continuously (24 x 7) as per CPCB guideline. | The Particulate matter and gaseous emissions from various process units conform to the norms prescribed by CPCB/ SPCB from time to time. In the event of emission exceeding beyond the stipulated norms, necessary corrective action being taken immediately to bring the emissions within the prescribed norms. Process stack emissions are being monitored continuously as per the CPCB guidelines. |
| ii) | Adequate stack height shall be provided to Ammonia Plant Reformer, Heat Recovery Steam Generator (HRSG), NG/RLNG fired Gas Turbine and Prilling Tower. Low NO _x burners shall be provided to control NO _x emissions. | Stack heights of Ammonia Plant Primary Reformer, Heat Recovery Steam Generator (HRSG), Utility Boiler & NG/RLNG fired Gas Turbine and Prilling Tower are as per the CPCB guidelines. Low NO _x burners have been installed in Primary reformer, HRSG & Utility Boiler to mitigate the NO _x emission. |
| iii) | In Urea Plant, particulate emissions shall not exceed 50 mg/Nm ³ . Monitoring of Prilling Tower shall be carried out as per CPCB guidelines. | Urea dust from the Prilling tower remains well below the prescribed limit as specified by CPCB (less than 50 mg/Nm ³) . |
| iv) | As proposed, Fertilizer plant shall be designed for Specific Energy Consumption of 5.0 Gcal/MT of Urea. | Urea Plant has been designed with Specific Energy Consumption of < 5.0 GCal/MT of Urea. |
| v) | Ambient air quality data shall be collected as per NAAQES standards notified by the Ministry vide G.S.R No. 826(E) dated 16th September, 2009 . The levels of PM ₁₀ (Urea Dust), SO ₂ , NO _x , Ammonia, Ozone and HC shall be monitored in the ambient air and displayed at a convenient location near the main gate of the company and at important public places. The Company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to Regional Office of MoEF, the respective Zonal office of CPCB and the Telangana State Pollution Control Board (TSPCB). | Continuous Ambient Air quality monitoring stations have been provided at two locations within the factory premises. PM ₁₀ , PM _{2.5} , Ammonia, SO ₂ , Ozone, HC & NO _x readings are being displayed at Factory Main Gate, Material Entry Gate and Technical Building Entrance. It is also connected to the TSPCB website. Environmental reports are being submitted to Regional office, Ramagundam on monthly basis. |
| vi) | In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/ materials, multi cyclone separator and water sprinkling system. Fugitive emissions in the work zone environment, product, raw material storage area etc shall be regularly monitored. The emissions should conform to the limits stipulated by the TSPCB. | Ammonia & Urea plants are Natural Gas based plants. For both feed & fuel, Natural gas is used. Therefore very limited fugitive emissions are generated during Urea product manufacturing . A very efficient urea dust collection and recovery systems (De-dusting System) are under Commissioning. Work place monitoring is carried out at regular interval, which helps to maintain emission level within the prescribed limit. |

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| S.NO | DESCRIPTION | COMPLIANCE STATUS |
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| vii) | The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG set to mitigate the noise pollution. | Stack height of DG set is as per CPCB standards. Acoustic enclosure has been provided to the DG set to mitigate the noise pollution. |
| viii) | Fresh water requirement from Yellampalli Barrage should not exceed 30500M ³ /day. Prior permission shall be obtained from Competent Authority and a copy submitted to the Ministry's Regional office at Bangalore. Efforts shall be made to bring down the water consumption upto 6 m ³ /MT urea production or as per CPCB guideline. | Fresh water drawl from Yellampalli Barrage does not exceed 30500 m ³ /day. Continuous efforts are being done for water conservation. Process Condensate & Turbine Condensate are reused as DM water in process after treatment as DM water. |
| ix) | Industrial wastewater shall be treated in the ETP. As proposed, Urea plant process condensate shall be treated in a deep hydrolyser followed by stripping. Ammonia Plant process condensate(APC) shall be stripped with steam followed by activated carbon and demineralisation. Treated condensate shall be recycled/reused in the process. Utilities waste water shall be treated in the ETP and treated effluent shall be recycled/reused. Treated effluent shall be monitored for Ammonical Nitrogen, Nitrate, Fluoride, pH etc. No process effluent shall be discharged in and around the Project Site. Sewage shall be treated in STP. | Urea plant process condensate is treated in a deep hydrolyser followed by stripping. Ammonia Plant process condensate is stripped with steam followed by activated carbon. Total process condensate is converted into DM water and reused in the process. Utility waste water is treated in ETP and treated water collected in guard ponds (02 Nos). Online Monitoring system has been provided for the treated effluent parameters Ammonical Nitrogen, Flow & pH and same has been connected to the CPCB & TSPCB servers. |
| x) | The treated effluent (not more than 250M ³ /Hr) shall be discharged in to the River Godavari after conforming to the standards prescribed for the effluent discharge and after obtaining permission from the State Pollution Control Board/CPCB. Treated effluent shall be passed through guard pond/holding pond before discharging outside the plant premises and Automatic/ online monitoring system (24 x 7 monitoring devices) for flow and relevant pollutants (i.e. pH, Ammonical Nitrogen, nitrate nitrogen etc) shall be provided with high level alarm system. The data to be made available to the respective SPCB and in the Company's website. | The treated effluent conforms to the specified standards before discharging to River Godavari. Consent For Operation recieved from TSPCB dated 07.06.2021 (Consent Order No: 21053004209). Automatic/ online monitoring system (24 x 7) for flow and relevant pollutants (pH, Ammonical Nitrogen, Nitrate Nitrogen etc) has been provided with high level alarm system and same is connected to TSPCB & CPCB server. Treated effluent discharge always remains less than 250 m ³ /hr. |
| xi) | Regular monitoring of ground water by installing peizometric wells around the guard ponds and sludge disposal sites shall be periodically monitored and reports shall be submitted to the concerned Regional office of the Ministry, CPCB and SPCB. | Ground water quality is being monitored at 08 locations around the plant site & near by villages and reports are submitted to RO, Ramagundam on monthly basis. |
| xii) | The company shall construct the garland drain all around the project site to prevent runoff of any chemical containing waste in to the nearby waterbodies. Effluent shall be properly treated and treated effluent shall conform to CPCB standards. | Garland drains have been provided around project site. Storm water drains, effluent drains & oily water collection pits are constructed separately to avoid mixing of effluent with storm water. |

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| S.NO | DESCRIPTION | COMPLIANCE STATUS |
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| xiii) | The Company shall obtain Authorisation 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 fire fighting facilities in case of emergencies. | Hazardous Waste Authorisation recieved from TSPCB (HWA No: 210523004209) dated 07.06.2021. Adequate fire-fighting equipments and Fire water network are in place. There is a separate Fire & Safety department with well trained and experienced professionals to handle any such untoward situation. |
| xiv) | Spent Catalysts and used oil shall be sold to authorised recyclers/re-processors only. | Noted. |
| xv) | The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules 1989 as amended time to time . All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA) 1989. | RFCL strictly complies with the rules and regulations regarding Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules 1989 as amended time to time and transportation of Spent catalyst/ Used oil as per the Motor Vehicle Act (MVA) 1989. |
| xvi) | Remote Operated valve placed on NH ₃ line to avoid leakage/ equipment check shall be performed to ensure that remote operated valve (ROV) is all time functional. | Remote Operated valves are placed on NH ₃ line to avoid leakage. Performance of the remote operated valve (ROV) is checked periodically for its all time functionality. |
| xvii) | The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environment Protection (CREP). | Noted. |
| xviii) | All the commitments made during the Public Hearing / Public Consultation meeting held on 11th March, 2015 shall be satisfactorily implemented and adequate budget provisions shall be made accordingly. | Being Complied, as applicable. |
| xix) | Sufficient funds shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial & physical breakup/ details shall be prepared & submitted to the Ministry's Regional Office at Bhopal. Implementation of such program shall be ensured in a time bound manner. | Noted. Capital cost incurred for implementation of Environmental Management Plan at RFCL has been sent to MoEF vide letter dated 28.08.2021.(Reply letter of Indian Audit & Accounts Department dated 22.07.2021) |
| xx) | Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act. | Occupational health surveillance system is in place and records are being maintained as per the Factory Act. |
| xxi) | As proposed, green belt over 46 Hectares area 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 roadsides etc. Selection of plant species shall be as per CPCB guidelines in consultation with the DFO. | Green Belt Development under progress in a phased manner. |
| xxii) | Provision shall be made for the housing of the Construction labour within the site with all necessary infrastructure & facilities. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment. | Construction labours involved were mostly local & residing in nearby areas. Safe drinking water , medical facilities etc had been provided to construction labours during construction phase of the project. |

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| B. GENERAL CONDITIONS | | |
| (i) | The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and any other statutory authority | All the conditions stipulated in CFE & CFO issued by TSPCB as well as conditions imposed by state authorities are complied with. |
| (ii) | No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in 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. |
| (iii) | The locations of ambient air quality monitoring stations shall be decided in consultation with the SPCB and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated. | Two Continuous Ambient Air Quality Monitoring Stations are operational. Locations of these monitoring stations were decided in consultation with Regional Office, TSPCB, Ramagundam. |
| (iv) | The overall noise level in and around the plant area shall be kept within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall conform to Environmental (Protection) Act , 1986 Rules 1989 viz. 75 dBA (day time) and 70 dBA (night time). | The selection of plant equipments have been done with the specifications of low noise levels. An adequate measure for the control of noise has been taken so as to keep the noise levels below the prescribed limit in the work environment. Persons working near the noisy machines like Ammonia plant compressor area, Urea Plant compressor area, GT etc. have been provided with well designed ear muffs / plugs. Emergency DG sets are equipped with acoustic enclosure. The ambient noise levels are being monitored at different locations and strictly conforming to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989. |
| (v) | The company shall harvest rainwater from the roof-tops of buildings and stormwater drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water. | RFCL has adopted roof top rain water harvesting measures to harvest the run off water for recharge of ground water. |
| (vi) | During transfer of materials, Spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic waste water and storm water drains. | Garland drains have been constructed to avoid mixing of accidental spillages with domestic waste and storm drains. |
| (vii) | Usage of Personnel Protection Equipments by all employees/workers shall be ensured | Necessary PPEs are made available for the plant personnel. |
| (viii) | 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. | Training being provided for employees on safety and health aspects of chemical handling on regular basis. Periodic medical check-up of the working staff is being carried out. |

| S.NO | DESCRIPTION | COMPLIANCE STATUS |
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| (ix) | The company 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 the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented. | Being Complied, as applicable. |
| (x) | The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area. | Noted. |
| (xi) | The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. | Being complied. |
| (xii) | A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. | Environmental Management Cell equipped with full fledged laboratory facilities to carry out the Environmental Management and Monitoring functions is in place and operational. |
| (xiii) | The company shall earmark sufficient funds for 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. | Noted and complied with. The funds earmarked for the environmental protection measures are not allowed to divert for other purpose. Capital cost incurred for implementation of EMP has been sent to MoEF vide letter dated 28.08.2021.(Reply letter of Indian Audit & Accounts Department dated 22.07.2021) |
| (xiv) | A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZilaParisad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/ representations, if any, were received while processing the proposal. | Complied. |
| (xv) | 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 the State Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company. | Complied. |
| (xvi) | The environmental statement for each financial year ending 31" March in Form-`V' as is mandated shall be submitted to the WB 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 Bhubaneshwar Regional Offices of MoEF by e-mail. | Noted. |

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| (xvii) | 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. | Complied. |
| xviii) | 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 | Commercial Operation of Urea has been started on 22.03.2021. |
| 8.0 | The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory. | Noted |
| 9.0 | The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions. | Noted |
| 10.0 | The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules. | Air/ Water and HWA Consent order obtained on 07.06.2021 and valid for a period up to 31st March 2026. Public Liability Insurance policy is taken on 10.02.2021. |

Rajiv
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