



Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

To,

The Executive Director Trombay Incharge
Rashtriya Chemicals and Fertilizers Ltd
RCF Ltd, Administrative Building, Chembur, Mumbai,,Mumbai
(Suburban),Maharashtra-400074

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/MH/IND3/212615/2021 dated 25 Jan 2022. The particulars of the environmental clearance granted to the project are as below.

- | | |
|--|---|
| 1. EC Identification No. | EC22A016MH168146 |
| 2. File No. | IA-J-11011/216/2021-IA-II(I) |
| 3. Project Type | New |
| 4. Category | A |
| 5. Project/Activity including Schedule No. | 5(a) Chemical fertilizers |
| 6. Name of Project | SETTING UP NEW AN MELT PLANT (425 MTPD) IN EXISTING RCF FACILITY, TROMBAY |
| 7. Name of Company/Organization | Rashtriya Chemicals and Fertilizers Ltd |
| 8. Location of Project | Maharashtra |
| 9. TOR Date | 08 Jun 2021 |

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 02/03/2022

(e-signed)
Dr. R.B. Lal
Scientist E
IA - (Industrial Projects - 3 sector)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.

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PARIVESH

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and Virtuous Environment Single-Window Hub)



File No. IA-J-11011/216/2021-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan
Jorbagh Road,
New Delhi - 110003

Dated: 2nd March, 2022

To,

M/s Rashtriya Chemicals and Fertilizers Ltd
RCF Ltd, Administrative Building,
Chembur, Mumbai,
Kurla, Mumbai (Suburban)
Maharashtra-400074

Email: anproject21@rcfltd.com

Project: Proposal for Setting up new AN melt plant with proposed production capacity of 425 MTPD, located in existing RCF facility at Trombay, Maharashtra by M/s Rashtriya Chemicals and Fertilizers (RCF)–Environmental Clearance Regarding.

Sir,

This has reference to your proposal No. IA/MH/IND3/212615/2021, dated 25.01.2022, and further information dated 17.02.2022 on the above subject matter.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for Setting up new AN melt plant with proposed production capacity of 425 MTPD, located in existing RCF facility at Trombay, Maharashtra by M/s Rashtriya Chemicals and Fertilizers (RCF).

3. The details of products with quantities are as under:

Product Details	Proposed Quantity	Total Quantity
Ammonium Nitrate Melt (AN Melt)	425 MTPD	425 MTPD

4. The project/activities are covered **under Category 'A' of item 5 (a) 'Chemical fertilizers'** of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal at Central Level by the Expert Appraisal Committee (EAC) in the Ministry.

5. The Standard ToR has been issued by the Ministry vide letter of even no. dated 8th June 2021. The Public Hearing for the proposed project has been conducted by the State Pollution Control Board on 26.11.2021 which was presided over by Addl. District Magistrate, Mumbai Suburban District, Maharashtra. The main issues raised during the public hearing are related to Ammonia storage, tanker movement, plantation drive, etc. The Committee

deliberated the Action Plan with mitigation measures and found in order.

6. The PP reported that the estimated land area required for the AN melt plant is 0.14 Ha. No additional land acquisition is required for setting-up the plant, as the proposed plant shall be constructed within the existing factory premises. The available open land in Trombay factory is 93.27 Ha and green belt cover in Trombay factory is 34.43 Ha. This area is the plantation area in the factory and excludes para grass, meadows, preserved wild vegetation for bio diversity, water bodies etc. in the Trombay factory. RCF has also developed green belt/cover in its Township located adjacent to Trombay factory. The green belt area in the township is about 23.5 Ha. Considering this, the percentage of Green Cover developed by the Unit is 62.22% (both in township & Industry). The estimated project cost is Rs. 88.50 Crore. Total cost earmarked towards environmental pollution control measures is Rs.8.0 lakhs and the Recurring cost (operation and maintenance) will be about Rs 0.18 Crore per annum. During construction phase of the proposed project, about 200 people would be engaged for carrying out constructional activities. During operation phase 41 permanent skilled manpower will be required. Industry proposes to allocate Rs. 6.87 Crores towards CER activities.

7. The PP reported that there are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance of the project site. Mithi River is flowing at a distance of 3km in North direction.

8. The Ambient air quality monitoring was carried out at 8 locations during March to June 2021 and the baseline data indicates the ranges of concentrations as: PM10 (36-86 $\mu\text{g}/\text{m}^3$), PM2.5 (16-52 $\mu\text{g}/\text{m}^3$), SO2 (10.5-25.5 $\mu\text{g}/\text{m}^3$) and NO2 (22.5-52.8 $\mu\text{g}/\text{m}^3$). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.041 $\mu\text{g}/\text{m}^3$ for NH3 only. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

9. Total water requirement is 247 KLD of will be met from Treated water generated from Sewage Treatment Plants (STPs) within the factory premises. Effluent of 212.5 KLD quantity will be treated through ETP plant having capacity of 2880 KLD.

10. Power requirement for the proposed project will be 2975 KW/ day. Presently, the power requirement for the Trombay unit is being met by sourcing it from M/s Tata Power Ltd. and in future, power requirement shall be met through in-house Gas Turbine Generator (GTG) which will be operational shortly. DG sets of 125 kVA capacity shall be installed as standby during power failure. Stack of sufficient height will be provided as per CPCB norms. Existing fertilizer complex has 3 number of 170 TPH (maximum two running and one standby), Natural Gas fired boiler. The tail gas from the boilers is connected to a stack having height of 80 meter. No additional Boiler will be required to install for the project.

11. The Project proponent committed that they shall comply with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996. The Onsite and Offsite Emergency plan will be implemented as cited in the provisions of the Rules.

12. **Details of Process emissions generation and its management:** Maximum incremental GLC of Ammonia will be 0.041 $\mu\text{g}/\text{m}^3$ and resultant GLC will be 47.36 $\mu\text{g}/\text{m}^3$ which is under prescribed limit.



Emission control measures: For reducing the traces of Ammonia gas which will be evolved in proposed AN Melt plant, water scrubbing system will be used.

13. Details of solid waste/hazardous waste disposal and process emissions generation and its management are as per the plan provided in the EIA & EMP report and as deliberated in the EAC. The project documents are available on PARIVESH portal.

14. Details of Earlier ECs/CTO in RCF Facility: The PP reported that RCF has obtained EC for Ammonia and Suphala plant before EIA notification, 1994. The Ministry has granted earlier EC vide letter no. 'J11011/28/88-IA-II' dated 08.02.1990 for the rehabilitation of Suphala & Ammonia Plant. The IRO, MoEFCC, Nagpur, vide letter no. F.No.:5-19/1992(ENV)/ dated 23.01.2018, has given the certified compliance report of earlier EC. The IRO, MoEFCC has observed that there are three conditions (Ammonia storage, Particulate matters level, green belt) which are partially complied. RCF vide letter no. 'RCF/DGM/Comp/2018-01' dated 24.01.2018 submitted the reply with justification along with supporting documents on observations made by IRO, MoEFCC. RCF has been regularly submitting the six monthly compliance report to the IRO, MoEFCC. Maharashtra Pollution Control Board (MPCB) granted CTO for the production of Fertilizers and Industrial Chemicals at its Trombay Unit on 30.03.1989. MPCB has renewed the CTO from time to time. The MPCB vide letter dated 05.01.2022 has submitted the certified compliance status of CTO conditions. It is also informed to the EAC that the EAC has recommended the EC for Expansion of Ammonium Nitrate Melt Plant from 1.4 LMT/Annum to 1.9 LMT/Annum, in existing RCF Facility, Trombay, Maharashtra. The EC was granted by the Ministry on 17.02.2022.

15. The proposal was considered by the 26th Expert Appraisal Committee (Industry-3 sector) meeting held on **16-17 February 2022** in the Ministry through video conferencing, wherein Project Proponent and their accredited Consultant [M/s. Projects & Development India limited having accreditation number QCI/NABET/EIA/ACO/21/2129 valid till 10.05.2022], presented the EIA & EMP report. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <http://parivesh.nic.in>.

The EAC, constituted under the provision of the EIA Notification, 2006 comprising Experts Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in the desired format along with EIA& EMP reports prepared and submitted by the Consultant accredited by the QCI/NABET on behalf of the Project Proponent.

The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of their knowledge and belief and no information has been suppressed in the EIA & EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the EIA/EMP report is in compliance of the TOR and reflect the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measures towards Air,



Water, Noise and Soil pollutions. The Committee also suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices. The Committee also deliberated on the water balance data and found it satisfactory. The Committee also deliberated the onsite/offsite emergency plan and various mitigation measures to be proposed during implementation of the project.

The Committee noted that M/s RCF has obtained EC for Ammonia and Suphala plant before EIA notification, 1994. The Ministry has granted earlier EC vide letter no. J11011/28/88-IA-II, dated 08.02.1990 for the rehabilitation of Suphala & Ammonia Plant. The IRO, MoEFCC, Nagpur, vide letter no. F.No. 5-19/1992(ENV)/ dated 23.01.2018, has given the certified compliance report of earlier EC. The IRO, MoEFCC has observed that there are three conditions (Ammonia storage, Particulate matters level, green belt) which are partially complied. M/s RCF vide letter no. 'RCF/DGM/Comp/2018-01', dated 24.01.2018 submitted the reply with justification along with supporting documents on observations made by IRO, MoEFCC. RCF has been regularly submitting the six monthly compliance report to the IRO, MoEFCC. Maharashtra Pollution Control Board (MPCB) granted CTO for the production of Fertilizers and Industrial Chemicals at its Trombay Unit on 30.03.1989. MPCB has renewed the CTO from time to time. The MPCB vide letter dated 05.01.2022 has submitted the certified compliance status of CTO conditions. The deliberated the compliance status and found in order. The EAC also noted that the EC proposal was also recommended in EAC meeting held on January 27-28, 2022 for Expansion of Ammonium Nitrate Melt Plant from 1.4 LMT/Annum to 1.9 LMT/Annum, in existing RCF Facility, Trombay, Maharashtra. The EC was also granted by the Ministry on 17.02.2022.

The Committee also deliberated the action plan on the issues raised during public hearing and the accreditation certificate of the consultant. The Committee suggested that the greenbelt development shall be taken up actively by the PP and trees shall be planted considering 2m x 2m ratio and suggested to complete plantation within six months. The Committee deliberated on the proposed mitigation measures towards Air, Water, Noise and Soil pollutions. The Committee also suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices. The proponent also informed that for the instant proposal, no additional fuel will be required and no new boiler is needed, the fuel will be used from existing boiler.

The EAC deliberated on the proposal with due diligence using the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC also found the proposal in order and recommended for the grant of environmental clearance.

16. The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974



and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

17. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-3 Sector), Ministry of Environment, Forest and Climate Change hereby accords ***Setting up new AN melt plant with proposed production capacity of 425 MTPD, located in existing RCF facility at Trombay, Maharashtra by M/s Rashtriya Chemicals and Fertilizers (RCF)*** under the provisions of the EIA Notification, 2006, subject to the compliance of terms and conditions as under: -

A. Specific Conditions:

- (i). The PP shall 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, and risk mitigation measures relating to the project shall be implemented.
- (ii). The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
- (iii). The occupational health center for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (iv). Total water requirement will be 247 KLD which will be met from Treated water generated from Sewage Treatment Plants (STPs) within the factory premises. The Effluent of 212.5 KLD quantity proposed to treat through ETP.
- (v). The unit shall make the arrangement for the prevention and protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms. Mock drill shall be conducted regularly.
- (vi). Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (vii). The storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
- (viii). The continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (if applicable).



- (ix). The solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space provided with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valves to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (x). Process organic residue and spent carbon, if any, shall be sent to Cement or other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF. There shall be commitment from the brick manufacturer to take the fly ash from the plant. The Unit is to be started after getting the commitment from the brick manufacturer / cement plant.
- (xi). The PP shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high-pressure hoses for equipment clearing to reduce wastewater generation.
- (xii). The green belt of at least 5-10 m width shall be developed in at least 37% of the total area of RCF facility, mainly along the plant periphery and other designated area in the premises. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map. Trees have to be planted with spacing of 2m x 2m and the number of trees has to be increased accordingly. The plant species can be selected that will give better carbon sequestration. All trees must be planted within six months. PP shall also implement the green belt development as per earlier ECs condition granted.
- (xiii). The activities and the action plan of the issues raised during public hearing to address the socio-economic issues in the study area, shall be completed as per the schedule presented before the Committee and as described in the EMP report in letter and spirit. The compliances report shall be submitted to IRO, MoEFCC Nagpur.
- (xiv). Necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The Project proponent shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation measures as prescribed under the rules and guidelines issued in the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996.
- (xv). A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.



B. General Conditions: The grant of environmental clearance is further subject to compliance of other general conditions as under: -

- (i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. 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/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (ii) The Project proponent shall strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, and Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 and other rules notified under various Acts.
- (iii) The Project proponent shall strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, and Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 and other rules notified under various Acts.
- (iv) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
- (v) 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 the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (vi) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. The activities shall be undertaken by involving local villages and administration. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (vii) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change 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.
- (viii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while



processing the proposal.

- (ix) The project proponent shall also upload/submit six monthly reports on Parivesh Portal on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data to the respective Integrated Regional Office of MoEF&CC, 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.
- (x) 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 Integrated Regional Office of MoEF&CC by e-mail.
- (xi) 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 and at <https://parivesh.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.
- (xii) 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.
- (xiii) This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

18. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

19. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

20. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

21. The above conditions shall be enforced, *inter-alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991



along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

22. This issues with approval of the competent authority.

(Dr. R. B. Lal)
Scientist 'E'/Additional Director
Tele-fax: 011-20819346
Email-rb.lal@nic.in

Copy to: -

1. The Deputy DGF (C), MoEF&CC Regional Office(WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Line, Nagpur - 1
2. The Secretary, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, Mumbai - 32
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th Floor, Opp. Cine Planet, Sion Circle, Mumbai – 22
5. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
6. The District Collector, District Mumbai (Suburban), Maharashtra
7. Guard File/Monitoring File/Website/Record File/Parivesh Portal

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