



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/IND3/214585/2021 dated 14 Jan 2022. The particulars of the environmental clearance granted to the project are as below.

- | | |
|--|---|
| 1. EC Identification No. | EC22A016MH199615 |
| 2. File No. | IA-J-11011/240/2021-IA-II(I) |
| 3. Project Type | New |
| 4. Category | A |
| 5. Project/Activity including Schedule No. | 5(a) Chemical fertilizers |
| 6. Name of Project | REGULARIZATION OF EXISTING AN MELT PLANT ALONG WITH PRODUCTION ENHANCEMENT FROM 1.4 LMT TO 1.9 LMT PER YEAR AT EXISTING RCF FACILITY, TROMBAY |
| 7. Name of Company/Organization | Rashtriya Chemicals and Fertilizers Ltd |
| 8. Location of Project | Maharashtra |
| 9. TOR Date | 15 Jun 2021 |

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

Date: 17/02/2022

(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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File No. IA-J-11011/240/2021-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan
Vayu Wing, Jorbagh Road,
New Delhi - 110003

Dated: 17th February, 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: Expansion of Ammonium Nitrate Melt Plant from 1.4 LMT/Annum to 1.9 LMT/Annum located at Existing RCF Facility, Trombay, Maharashtra by M/s Rashtriya Chemicals and Fertilizers (RCF)– Consideration of Environmental Clearance-Regarding.

Sir,

This has reference to your proposal No. IA/MH/IND3/214585/2021, dated 14.01.2022, on the above subject matter.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for Expansion of Ammonium Nitrate Melt Plant from 1.4 LMT/Annum to 1.9 LMT/Annum located at Existing RCF Facility, Trombay, Maharashtra by M/s Rashtriya Chemicals and Fertilizers (RCF).

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

Product Details	Existing Quantity	Proposed Quantity	Total Quantity
Ammonium Nitrate Melt (ANMelt)	1.4 LMT/Annum	Additional quantity of 0.5 LMT/Annum	1.9 LMT/Annum

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 no. IA-J-11011/240/2021-IA-II(I) dated 15th June, 2021. The MPCB granted CTO for the production of 1.4 LMT Ammonium Nitrate Melt on 30.03.1989 and PP is operating the Unit for production of 1.4 LMT Ammonium Nitrate Melt with CTO and EC was not required in 1989.

Now, PP want to enhance the capacity therefore submitted the EC application under provisions of the EIA Notification, 2006. PP also reported that MPCB renewed the CTO from time to time and Unit has never enhanced the production capacity and operated with valid CTO. The SPCB vide letter dated 05.01.2022 has submitted the certified compliance status of CTO conditions. Public Hearing proposed project has been conducted by the State Pollution Control Board on 26/11/2021 which was presided over by Addl. District Magistrate.

6. The PP reported that the Existing land area 0.02ha and will be used for proposed AN melt production enhancement project. Industry has already developed greenbelt in an area of 37 % i.e. 344348 m² out of total open available space at Trombay unit of 932738 m² area in compliance to the conditions of CTO issued by MPCB. The estimated project cost is Rs 61.75 Lakhs. Total capital cost earmarked towards environmental pollution control measures is Rs 8.0 Lakhs and the Recurring cost (operation and maintenance) will be about Rs 18.0 Lakhs per annum.

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. Total water requirement is 470 m³/day of will be met from Treated water generated from STP. Effluent of 242.24 KLD quantity will be treated through ETP plant of capacity 2880 KLD.

8. Power requirement after enhancement will be 533 kVA and presently met from TATA Power and in future, Gas Turbine Generator to be commissioned shortly by RCF. Existing unit has DG sets of 600 kVA capacity, additionally DG sets are used as standby during power failure. Stack (height 30 meter) provided as per CPCB norms.

9. **Details of Process emissions generation and its management:** Maximum incremental GLC of Ammonia will be 0.02 µg/m³ and resultant GLC will be 47.32 µg/m³ which is under prescribed limit.

10. **Emission control measures:** For reducing the dust and AN content in gaseous emission generated in an plant, Scrubber will be used. Scrubber will be provided to clean process air of entrained ammonium nitrated dust and droplets of ammonium nitrate solution.

11. **Details of Solid waste/Hazardous waste generation and its management.**

Waste	Yr. 2019	Yr. 2020	UOM
Hazardous Waste			
a) From Process			
Used or spent oil	72.865	141.330	MT/A
Spent Catalyst	25.98	57	MT/A
Process acidic residue, filter cake, dust	22.977	16.5	MT/A
b) From pollution control Facilities			
Chemical Sludge from waste water treatment	2795.5	2774.94	MT/A
Solid Waste			
a) From Process (Non Hazardous waste type)			
Chalk	15789.1	0	MT/A



Gypsum	46511.2	48140.72	MT/A
b) From Pollution control Facility (Non Hazardous waste type)			
Metal waste solid	1000.945	694.24	MT/A
Non Metal waste solid	331.775	243.285	MT/A
c) Quantity Recycled or Re-utilized within the unit			
Process acidic residue, filter cake, dust	15.977	6.270	MT/A
Chemical sludge from waste water treatment	1801.49	1434	MT/A

12. The 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 which can be accessed at <http://parivesh.nic.in>.

13. The proposal was considered by the 25th Expert Appraisal Committee (Industry-3 sector) meeting held on **27-28 January 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 14.2.2022], presented the EIA & EMP report. The minutes of the meeting and all the project documents are available on PARIVESH portal.

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 reports 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 the MPCB granted CTO for the production of 1.4 LMT Ammonium Nitrate Melt on 30.03.1989 and PP is operating the Unit for production of 1.4 LMT Ammonium Nitrate Melt with CTO and EC was not required in 1989. Now, PP want to enhance the capacity therefore submitted the EC application under provisions of the EIA Notification, 2006. PP also reported that MPCB renewed the CTO from time to time and Unit has never enhanced the production capacity and operated with valid CTO. The SPCB



vide letter dated 05.01.2022 has submitted the certified compliance status of CTO conditions. The Committee deliberated the compliance status of CTO which is submitted by SPCB and found in order.

The Committee noted that M/s Rashtriya Chemicals and Fertilizers (RCF) has obtained EC on 08.02.1990 for Ammonia and Suphala Unit before EIA notification, 1994. The MoEFCC IRO, Nagpur, vide letter dated 23.01.2018, has submitted the certified compliance report of earlier EC. The IRO MoEFCC has observed that there are three conditions (Ammonia storage, Particulate matters level, greenbelt) which are partially complied. In this context, PP submitted the Action Plan on Points and the same was deliberated by the EAC and found in order. EAC also observed that PP has regularly submitting the six monthly compliance report to the IRO, MoEFCC. The deliberated the compliance status and found in order.

The Committee also deliberated the action plan on the issues raised during public hearing and found in order. 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 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.

14. 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.

15. 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 **Environmental clearance for Expansion of Ammonium Nitrate Melt Plant from 1.4 LMT/Annum to 1.9 LMT/Annum, located at Existing RCF Facility, 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 centre 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). The Effluent of 242.24 KLD quantity proposed to treat through ETP. The project proponent shall explore possibilities for recycling and reusing of treated water in the unit to reduce the fresh water demand and waste disposal.
- (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). Total fresh water requirement, sourced from ground water, shall not exceed 470 m³/day. Prior permission in this regard shall be obtained from the concerned regulatory authority.
- (viii). 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.
- (i). 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 project area, mainly along the plant periphery/ additional land as committed by the PP and mentioned in earlier CTO. 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 EC condition granted.
- (xiii). The activities and the action plan proposed by the project proponent 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. All the commitments made shall be satisfactorily implemented.
- (xiv). 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 energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
- (iv) 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).
- (v) 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.



- (vi) 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.
- (vii) 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.
- (viii) 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.
- (ix) 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.
- (x) 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.
- (xi) 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.
- (xii) 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.

16. 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.

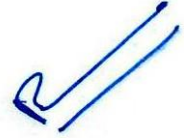
17. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

18. 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.



19. 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.

20. This issues with approval of the competent authority.



(Dr. R. B. Lal)
Scientist 'E'/Additional Director
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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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