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

Date **30/09/2026**

To,

Sh. Anil Mathur
RASHTRIYA CHEMICALS AND FERTILIZERS LIMITED
Priyadarshini Building Eastern Express Highway Sion , MUMBAI, MAHARASHTRA, 400022
corptech@rcfltd.com

Subject: Grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 -regarding.

Sir/Madam,

This is in reference to your application submitted to MoEFCC vide proposal number IA/MH/IND3/576408/2026 dated 13/05/2026 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC26A1904MH5762543N
(ii) File No.	IA-J-11011/216/2021-IA-II(I)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	5(a) Chemical fertilizers
(vi) Sector	Industrial Projects - 3
(vii) Name of Project	Modernization of Nano-Urea Fertilizer Plant at RCF Trombay, Chembur, Suburban Mumbai, Maharashtra-400074 by M/s Rashtriya Chemicals and Fertilizers Limited (Government of India Undertaking)
(viii) Name of Company/Organization	RASHTRIYA CHEMICALS AND FERTILIZERS LIMITED
(ix) Location of Project (District, State)	MUMBAI, MAHARASHTRA
(x) Issuing Authority	
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

3. The Ministry of Environment, Forest and Climate Change has examined the proposal seeking environmental

clearance under 7 (ii) a of EIA Notification 2006 for the proposed “Modernization of Nano-Urea Fertilizer Plant at RCF Trombay, Chembur, Suburban Mumbai, Maharashtra-400074 by M/s Rashtriya Chemicals and Fertilizers Limited (Govt. of India Undertaking).

4. The project is covered under the Category A of item 5(a) of the Schedule of Environment Impact Assessment (EIA) Notification, 2006 (amended from time to time).

5. RCF Trombay has received Environmental clearances from MoEFCC for the following projects:
· “Rehabilitation of Suphala & Ammonia Plant” vide OM No. 11011/28/88-IA dated 08.02.1990.
· “Modernization of Fertilizer Plant by Installation of Gas Turbine Generator and Heat Recovery Steam Generator under Energy Saving Scheme” vide File. No. J-11011/193/2016-IA. II(I) dated 05.04.2018.
· “Regularization of existing AN Melt Plant along with production enhancement from 1.4 Lakh MTPA to 1.9 Lakh MTPA” vide File No. - IA-J-11011/240/2021-IA-II(I) dated 17.02.2022.
· “Setting up new AN Melt Plant (425 MTPD) in existing RCF Facility, Trombay” vide File No. IA-J-11011/216/2021-IA-II(I) dated 02.03.2022.
· “Installation of New Nano-Urea Fertilizer Plant of total capacity 27,375 KL/annum” in existing RCF facility, trombay vide F. No. IA-J-11011/216/2021-IA-II(I) dated 11.08.2023.

6. ToR is not applicable as the project proposal falls under 7(ii) (a) clause of EIA notification 2006. The project proposal was earlier considered by the Expert Appraisal Committee (Industry-3) in its 132nd meeting held on 18-19th June, 2026 wherein it was deferred for want of additional information. The project proposal was considered in the 139th EAC meeting held on 2-3 September 2026 wherein the the Project Proponent and the accredited Consultant, namely M/s. EQMS Global Pvt. Ltd. (NABET Accreditation Number: NABET/EIA/25-28/RA0465, valid till 23.11.2028) made a detailed presentation on the salient features of the project and informed that:

7. The Nano Urea Plant is located within an area of 11,900 m² (1.19 ha) inside the existing Trombay Unit premises, which has a total area of 216.41 ha. As the proposed activity is a modernization within the existing premises, no additional land acquisition is required. The breakup of the land use is given below:

S No	Plot No./Survey no./Gat no.	Plot area (acres)	Year of land allotment
1	1	295.3126	1967

8. The key components of the proposed capacity enhancement include:

The existing Nano Urea Fertilizer Plant has been in operation since February 2025 and is currently producing Nano Urea to meet the demand of the Indian fertilizer market. Based on detailed research and development efforts and advancements in nano fertilizer technology aligned with market requirements, modifications are now proposed in the product formulation and nitrogen content of Nano Urea. Under the proposed modernization, the nitrogen content in **Nano Urea will change from 4% to 20%,** necessitating corresponding changes in raw material inputs and final product specifications.
The total production capacity of the Nano Urea Plant shall remain unchanged at 27,375 KL per annum.

Details of Existing and Proposed Production

Sr. No.	Product	Unit	As per EC & CTO Quantity	After Proposed Modernization	Impact
Products					
1	Ammonia	MT/A	4,65,000	4,65,000	No Change
2	Concentrated Nitric Acid	MT/A	27,000	27,000	
3	Phosphoric Acid	MT/A	37,200	37,200	
4	Methanol	MT/A	69,960	69,960	
5	Methylamine	MT/A	5,242	5,242	

6	Ammonium Bicarbonate	MT/A	25,000	25,000	
7	Sodium Nitrate Nitrite	MT/A	5,230	5,230	
8	Sulphuric Acid	MT/A	1,11,600	1,11,600	
9	Nitric Acid (100%)	MT/A	3,98,040	3,98,040	
10	Biola	MT/A	1,200	1,200	
11	Microla	MT/A	1,200	1,200	
12	Sujala	MT/A	22,200	22,200	
13	Urea	MT/A	4,83,600	4,83,600	
14	Complex Fertilizer (Suphala + ANP)	MT/A	8,55,600	8,55,600	
15	Treated Water from Sewage Treatment Plant	KL/A	9,86,400	9,86,400	
16	Wall Plaster	MT/A	48,000	48,000	
17	Wall Putty	MT/A	7,200	7,200	
18	Rapid Wall Panel	Sqft/Y	15,06,9475	15,06,9475	
19	Grid Synchronized Solar PV Power Plant	MW	2	2	
20	Heat Recovery Steam Generation	MT/hr	130	130	
21	Gas Turbine Generation Unit	MW	64	64	
22	**Nano-Urea (4 to 20% nitrogen content)**	**KL/A**	**27,375**	**27,375**	**Only change in Nitrogen Content of Nano Urea Product (Change in product formulation from 4% to 20% nitrogen content).**
By-Products					
23	Argon *(Annual capacity 403,5500 Nm³/A)*	MT/A	3,36,292	3,36,292	No Change
24	Ammonium Nitrate Melt (80%)	MT/A	3,45,125	3,45,125	
25	Carbon Dioxide Gas	MT/A	4,80,000	4,80,000	

9. PP reported that there is no violation under EIA, 2006/court case/show cause/direction related to the project under consideration.

10. Certified compliance report was issued vide letter no. File No. EC-1701/RON/2022-NGP15243 dated 19.02.2026 by IRO, MoEF&CC, Nagpur.

11. Details/ Chronology of the existing EC, CTO, CTE:

S.	Environment related	Granted by	Particulars (Document No. & Date)

No.	Clearance / Permit Type		
1.	Environmental Clearance (EC)	Govt. of India	"Rehabilitation of Suphala & Ammonia Plant" vide OM No. 11011/28/88-IA dated 08.02.1990.
2.	Environmental Clearance (EC)	Ministry of Environment, Forest & Climate Change (MoEF&CC), Govt. of India	"Modernization of Fertilizer Plant by Installation of Gas Turbine Generator and Heat Recovery Steam Generator under Energy Saving Scheme" vide File. No. J-11011/193/2016-IA. II(I) dated 05.04.2018.
3.	Environmental Clearance (EC)	Ministry of Environment, Forest & Climate Change (MoEF&CC), Govt. of India	"Regularization of existing AN Melt Plant along with production enhancement from 1.4 Lakh MTPA to 1.9 Lakh MTPA" vide File No. - IA-J-11011/240/2021-IA-II(I) dated 17.02.2022.
4.	Environmental Clearance (EC)	Ministry of Environment, Forest & Climate Change (MoEF&CC), Govt. of India	"Setting up new AN Melt Plant (425 MTPD) in existing RCF Facility, Trombay" vide File No. IA-J-11011/216/2021-IA-II(I) dated 02.03.2022.
5.	Environmental Clearance (EC)	Ministry of Environment, Forest & Climate Change (MoEF&CC), Govt. of India	"Installation of New Nano-Urea Fertilizer Plant of total capacity 27,375 KL/annum" in existing RCF facility, trombay vide F. No. IA-J-11011/216/2021-IA-II(I) dated 11.08.2023.
6	Consent to Operate	Maharashtra Pollution Control Board (MPCB)	Consent to Operate granted by the Maharashtra Pollution Control Board (MPCB) vide Letter No. RED/L.S. I (R52) / Format-1.0 / CAC / UAN No. MPCB-CONSENT-0000208410 / CO / 2501000533, dated 06.01.2025, valid up to 31.07.2026

12. No ecologically sensitive areas found within 10 km buffer zone of the project site. River/water bodies like Mahul Creek is flowing adjacent to the plant boundary, Mahim/Mithi River is flowing at 1.52 Km in NW direction and Thane Creek is flowing 7.39 Km in SE direction (Recently been declared "RAMSAR WETLAND SITE" on 13.08.2022) from the project site.**Total 07 nos. of Schedule-1 species found in study area namely Indian Cobra, Jungle cat, Porcupine, Mongoose, Rhesus monkey, Russell's Viper, & Monitor Lizard were recorded in the study area**. The conservation plan has been prepared & submitted to the Forest Department for its approval.

Details of project site proximity (in Km) to sensitive areas:
· Habitation: Chembur Colony (0.31 km, E)
· School: Swami Vivekanand School Chembur (0.25 km, E)
· River/Waterbody: Mahul Creek (Adjacent, W)
Mahim/Mithi River is flowing at 1.52 Km in NW direction
· Hospital: RCF Hospital (0.70 km, E)
· Wetland: Thane Creek (7.39 km, SE) (RAMSAR WETLAND SITE)

13. Ambient air quality- Nine locations were monitored and assessed for ambient air quality in 10 km radius study area. The monitoring results of ambient air quality were compared with the National Ambient Air Quality Standards (NAAQS) prescribed by MoEF&CC; GoI Notification dated 16.11.2009. The maximum concentration of PM_{10}, $PM_{2.5}$, SO_2, NO and CO were 85 µg/m³, 38 µg/m³, 15.58 µg/m³, 23.40 µg/m³ and 0.98 mg/m³, respectively. The AQI Category for each of monitoring station has been found to be Satisfactory.

14. After proposed modernization, the overall freshwater requirement will increase from 34165 KLD to 34179 KLD. The water requirement will be met through existing supply i.e., BMC Supply & In-house STP (Capacity-2 x 22.75

MLD). After modernization, Fresh water required for Nano Urea plant will increase from 90 KLD to 104 KLD and will be supplied by existing sources only.

15. There is no generation of effluent from manufacturing process of Nano-Urea fertilizer. However, there is generation of 5.25 KLD wastewater from washing and operation of cooling tower in the plant along with 4 KLD domestic sewage generated. After proposed modernization, no additional wastewater generation is anticipated. Industrial wastewater generation shall be limited within the existing sanctioned quantity i.e., 15,798.05 KLD. Industrial effluent is being treated in ETP and treated effluent water is being reused for gardening and washing purposes to maximum extent & rest is being discharged to nearby creek (Mahul Creek). Domestic sewage sourced from BMC is treated in STP's (Capacity 2 x 22.75 MLD of sewage) and the treated water generated in this STPs is used as process water in the RCF Trombay Unit.

16. The contract demand of the RCF Trombay Unit is 43300 kVA, being met through power generated from in-house Gas Turbine Generators. Power supply from M/s TATA Power is also available as an alternate source of power sourced. For emergency backup, DG sets of capacities 1x250 kVA, 1x625 kVA, 2x750 kVA, 1x690 kVA, 1x600 kVA, 1x320 kVA & 1x312 kVA, 1x160 kVA & 1x 200 KVA have been installed at the RCF Trombay Unit

Particular	Unit	Existing including Nano Urea Fertilizer Plant	Proposed	After Proposed Modernization
Power Requirement (Contractual Demand)	kVA	43300	0	43300
Power Backup	kVA	1x250, 1x625, 2x750, 1x690, 1x600,1x320, 1x312, 1x160 & 1 x 200 kVA	0	1x250, 1x625, 2x750, 1x690, 1x600,1x320, 1x312, 1x160 & 1 x 200 kVA

17. The manufacturing process of nano-fertilizer is a closed loop reactor vessel setup with regulated control. Hence, nano-fertilizers will not contribute to air emissions. No additional Stack is proposed in the proposed modernization. There is no gaseous emission from Nano Fertiliser Unit.

18. **Details of fuel**: At Trombay Unit, Natural Gas the cleanest fossil fuel, is used as fuel. High Speed Diesel is being used as fuel for DG sets for back-up power within the Trombay Unit. For the Nano Urea plant, steam from the existing boiler will be used for operation. There will be no additional requirement of fuel for the Nano Urea plant.

19. **Details of Process emissions generation & its management**:The manufacturing process of Nano Urea fertilizer plant is a closed loop mixing reactor vessel setup with regulated control. Hence, the Nano Urea plant will not contribute to process gas emissions. No additional Stack is proposed.

20. **Details of Solid waste/ Hazardous waste generation and its management:**There is no Hazardous and Solid waste generation from Nano Fertiliser product during its operation. However, there is generation of Hazardous and other solid waste from associated activities like bottle and cap manufacturing facility, Offsite facilities etc. which is disposed as per the applicable law.

Authorization under Hazardous Waste Management Rules has been obtained from MPCB vide Letter No. 'RED/L.S. I (R52) No.: - Format 1.0/CAC /UAN No. 0000114391/CR/2206001329 dated 23/06/2022 valid till 31.07.2026. RCF strictly complies with the rules and regulations with regards to handling and disposal of hazardous waste in accordance with Hazardous & Other Waste (Management and Transboundary Movement) Amendment Rules, 2024.

Total solid waste generated from the Nano Urea fertilizer plant is being carefully segregated into biodegradable and non-biodegradable waste. Biodegradable waste is being disposed of through BMC-approved vendors, and recyclable

waste is being sent to respective authorized vendors/recyclers

Details of hazardous and non-hazardous Waste

Sr. No.	Type of Waste	Quantity (MT/A)	Treatment	Disposal
Hazardous				
1	Used or spent oil	100	Recycle	Sale to Authorized Party / Recycler / CHWTSDF
2	Process acidic residue, filter cake, dust	700	Reuse / Recycle / Landfill after treatment	Reuse in process / Sale to Authorized Party / CHWTSDF
3	Chemical sludge from waste water treatment	4900	Reuse / Recycle / Landfill	Reuse in process / Sale to Authorized Party / CHWTSDF
4	Chromium (VI) compounds (Sch.II- A64)	91.62	Reuse / Recycle / Secured Landfill	Reuse in process / Sale to Authorized Party / CHWTSDF
5	Cobalt compounds (Sch.II- A65)	10	Reuse / Recycle / Secured Landfill	Reuse in process / Sale to Authorized Party / CHWTSDF
6	Copper compounds (Sch.II- A66)	56	Reuse / Recycle / Secured Landfill	Reuse in process / Sale to Authorized Party / CHWTSDF
7	Molybdenum compounds (Sch.II- A67)	10	Reuse / Recycle / Secured Landfill	Reuse in process / Sale to Authorized Party / CHWTSDF
8	Nickel compounds (Sch.II- A68)	107.31	Reuse / Recycle / Secured Landfill	Reuse in process / Sale to Authorized Party / CHWTSDF
9	Vanadium compounds (Sch.II- A70)	37.27	Reuse / Recycle / Secured Landfill	Reuse in process / Sale to Authorized Party / CHWTSDF
10	Zinc compounds (Sch.II- A71)	120	Reuse / Recycle / Secured Landfill	Reuse in process / Sale to Authorized Party / CHWTSDF
Non-Hazardous				
11	Metal wastes	151.3	Recycle	Sale to Authorized Party
12	Ammonia synthesis catalyst	150	Recycle / Landfill	Sale to Authorized Party / CHWTSDF
13	Methylamine catalyst	1.8	Recycle / Landfill	Sale to Authorized Party / CHWTSDF
14	Spent ion exchange resin	8	Recycle / Landfill	Sale to Authorized Party / CHWTSDF
15	Gypsum	15500	Recycle	Sale to Authorized Party / Used in-house (Rapid Wall Panels, Plaster)
16	Chalk	7750	Recycle	Sale to Authorized Party / Used in-house (Biola Plant)
17	Plastic waste	3600	Recycle	Sale to Authorized Party / Recycler under EPR

Interim storage area earmarked for Hazardous waste about 200 sq. m.

21. Public hearing is exempted as application has been submitted under para 7 (ii) of EIA Notification, 2006.

22. **Details/Status of approved Water Supply Permission**:Entire water requirement will be met through existing supply from two no. of in-house Sewage Treatment Plants (STPs) (Capacity-2 x 22.75 MLD). Only drinking water is supplied bt BMC. After modernization, Fresh water required for Nano Urea plant will be supplied by existing sources only..

23. **Details/Status of approved Wildlife Conservation Plan**:Total 07 nos. of Schedule-1 species found in study area namely Indian Cobra, Jungle cat, Porcupine, Mongoose, Rhesus monkey, Russell's Viper, & Monitor Lizard were recorded in the study area.

24. **Details of Best Technology adopted**:The Nano Urea plant is based on patented Technology of IFFCO. RCF is committed to ensuring a clean environment beyond satisfying all stipulated requirements laid down by the statutory authorities, meeting the expectations of stake holders around its operating unit.

As per details provided by IFFCO – the Technology supplier, Nano Urea is a Nanotechnology based revolutionary Agri-input which provides nitrogen to plants. Nano Urea is a sustainable option for farmers towards smart agriculture and combat climate change. These fulfil the plant nutrient requirement as a fertilizer since Nano Urea is bio available to plants because of its desirable particle size about 20-50 nm and more surface area (10,000 times over 1 mm Urea prill) and number of particles (55,000 nitrogen particles over 1 mm Urea prill). Application of 1 bottle of Nano Urea is expected to effectively replace at least 1 bag (45 kg) of Urea. It has been tested on more than 90 crops across 11,000 locations in collaboration with ICAR- KVKs, Research Institutes, State Agriculture Universities, and progressive farmers of India. When sprayed on leaves, Nano Urea easily enters through stomata and other openings and is assimilated by the plant cells. It is easily distributed through the phloem from source to sink inside the plant as per its need. Unutilized nitrogen is stored in the plant vacuole and is slowly released for proper growth and development of the plant. Small size (20-50 nm) of Nano Urea increases its availability to crop by more than 80%. Hence, Nano Urea increases its availability to crop by more in higher Nutrient Use efficiency. In addition to this, Nano Urea helps in minimizing the environmental footprint by reducing the loss of nutrients from agriculture fields in the form of leaching and gaseous emissions which used to cause environmental pollution and climate change.

25. Status of Litigation Pending against the proposal, if any. There is no litigation is pending against the proposal.

26. RCF has developed approx. 34.43 Ha. of green area within the Trombay Unit. RCF has also developed green belt/cover in its township in about 23.5 Ha. The available open land in Trombay Unit is 93.27 Ha Considering this, the percentage of the green cover developed by Trombay Unit is approx. 62% of Open area (considering both township & industry).

27. About 150 no. of temporary employment was generated during installation phase via contractor/supplier. During operation phase, no additional Manpower is required in the project, the existing manpower is sufficient to operate the plant. The existing manpower (permanent) of the RCF Trombay unit is 1441 as on 01.03.2026. Industry proposes to allocate Rs 11.92 Cr which is 5% towards CER.

28. The estimated project cost is Rs 238 Crores RCF has spent approx. Rs.10016.61 Lakhs on environment management plan for compliance of standards, norms laid down by GOI and environmental sustainability. Proposed Budget planned on environment management plan for year (2025-26) will be Rs.9150.35 Lakhs The breakup of capital and recurring cost is as follows:

Existing EMP Budget

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Rs.Lakh)
Waste disposal & treatment cost (includes ETP /STP	Recycling of Hazardous	21.54

sludge & Sulphur sludge disposal cost.)	Waste	
Cost for air emissions Maintenance of Air & Stack monitoring Instruments (Wireless, Stack monitoring, filters, agents etc.)	Maintenance of Monitoring Equipment	36.63
External Party monitoring for Environment Parameters in and around the Factory.	Monitoring of Various Parameters by MoEFCC approved party	3.97
Operation and Maintenance, material and services, and related personnel costs for running ETP , Old STP and New STP (Trombay Unit)	Operation and Maintenance ETP, Old STP and New STP	9834.09
Cost for Recycling of Plastic Waste as per PWM 2016 as Brand Owner	CAs per the Plastic Waste Management Rule,2016	75.20
Cost for Maintenance of ISO Standards & Certificates in RCF, Trombay IMS training IMS External Audit	IMS Awareness & Audits from External Accredited Parties for ISO Standards training & Display Board	1.47
Cost for Maintenance of Real Time Display Board	Display Board for Displaying Real Time Environment Data for Public Display	1.41
Cost for Installation and Maintenance of Air Pollution Mitigation equipment in Diamond Garden & Anna Bahu Sathe Garden at Chembur initiated by MPCB	Air Pollution Control Machine Installed as instructed by MPCB for Controlling Air Pollution around Designated Chembur Area for Public Display	42.3
TOTAL		**10016.61**

Proposed EMP budget

Detail of measures for Environmental Protection	**Environmental Protection Measures**	**Capital Investment (Rs. Lakhs)**
Waste disposal & treatment cost (includes ETP /STP sludge & Sulphur sludge disposal cost.)	Recycling of Hazardous Waste	37.00
Cost for air emissions Maintenance of Air & Stack monitoring Instruments (Wireless, Stack monitoring, filters, agents etc.)	Maintenance of Monitoring Equipment’s	30.00
External Party monitoring for Environment Parameters in and around the Factory.	Monitoring of Various Parameters by MoEFCC approved party	5.5
Operation and Maintenance, material and services, and related personnel costs for running ETP, Old STP and New STP Trombay Unit)	Operation and Maintenance ETP, Old STP and New STP	9000.00
Cost for Recycling of Plastic Waste as per PWM 2016 as Brand Owner	CAs per the Plastic Waste Management Rule 2016	75.20
Cost for Maintenance of ISO Standards & Certificates in RCF, Trombay IMS training IMS External Audit	IMS Awareness & Audits from External Accredited Parties for ISO Standards training & Display Board	1.00
Cost for Maintenance of Real Time Display Board	Displaying Real Time Environment Data for Public	1.65

Display

Total			**9150.35**

S. No.	Particulars	Activity	Amount allocated (Rs. Cr.)
1	Total proposed cost	Plant & Machineries	238 Cr.
2	EMP Cost	ETP/STP/APCM/HW disposal/greenbelt development/Occupational health	Existing – 100.17 Cr. Proposed - 91.50 Cr.
3	Recurring cost	ETP/STP/APCM/HW disposal/greenbelt development/Occupational health	Existing – 1.32 Cr. Proposed – 0.72 Cr.
4	CER cost	Green belt development/Solar Street lights	11.92 Cr.
5	Land	No additional land required for expansion	0.00
6	P. H. Commitment and action plan in brief	Public hearing is not applicable.	0.00
7	Greenbelt development	Development of green belt as per CPCB guidelines	Rs.0.45 Cr
8	Conservation plan	Total 07 nos. of Schedule-1 species found in study area namely Indian Cobra, Jungle cat, Porcupine, Mongoose, Rhesus monkey, Russell's Viper, & Monitor Lizard	--
9	Water approval	Not Applicable as Process water requirement is met through two number of in-house Sewage Treatment Plants (STPs) at RCF Trombay.	--
10	Critical issues related to the Project, (if any)	None	

29. **SPCB comments:**

Proposal was referred to SPCB for seeking comments through work flow of PARIVESH portal and following comments were provided by MPCB:
RCF PARIVESH application for EC, Proposal No. 576408/2026: -
1. The industry is visited w.r.t. online application filed for obtaining EC for modernization of UREA Fertilizer Plant at RCF Trombay, Chembur, vide proposal no. 576408/2026 dated 13/05/2026.
2. Conducted site visit of the said industry for checking compliances, accordingly, visited the industry on 01/06/2026.
3. During visit it is noted that, industry has obtained C to O from the Board for manufacturing of various chemicals including "Nano Urea Fertilizer" having validity up to 31/07/2026.
4. Industry has also obtained EC on 11/08/2023 for installation of New Nano Urea Fertilizer Plant of Total capacity 27,375 Kl/Annum.
5. Now, Industry has filed application for obtaining EC for modernization of manufacturing plant and increase in Nitrogen content from 4 % to 4 to 20% (Without increase in production quantity however increase in pollution load)
6. During visit it is noted that, industry has not yet started any construction activity for modernization of aforesaid plant.
7. Proposed water consumption of the industry will be 34179.0 CMD (Present Consumption is 34165.0 CMD + 14.0 CMD = 34179.0 CMD)
8. Total trade effluent generation upon expansion of the industry will be 15798.05 CMD.
Further, MPCB, in its visit report uploaded on the PARIVESH portal, has indicated the status as 'Complied' by the industrial unit.

30. **Deliberations by the EAC:**

The following points were discussed in the meeting:

i. Regarding EC condition "to develop mangroves in the low-lying lands", M/s RCF has discussed the subject matter with concerned authority in Maharashtra Forest Department. Chief Conservator of Forests (Mangrove Cell), Maharashtra Forest Department, visited RCF Trombay Unit on 7th August 2026 in this connection. RCF vide letter no. 'RCF Tr./Env./2026-27' dated 7th August 2026 has sought guidance and assistance of Chief Conservator of Forests (Mangrove Cell), Maharashtra Forest Department regarding for mangroves plantation. In response, Chief Conservator of Forests, vide letter No/CCF/Mangrove Cell /Land /1152/2026-27 dated 19.08.2026 confirmed that, developing or undertaking mangrove plantation within the RCFL premises is not feasible considering the existing site conditions.However, the Mangrove Cell, Government of Maharashtra, expressed their willingness to undertake the plantation activity on behalf of RCF at a suitable location.RCF vide letter dated 20.08.2026, gave a consent to Mangrove Cell, Maharashtra Forest Department, for development of mangroves at appropriate location on behalf of RCF.In response, RCF received letter no. MFN/CSR/241/2026-27 dated 04.09.2026 from Mangrove and Marine Biodiversity Conservation Foundation of Maharashtra, stating that Mangrove Cell shall undertake mangrove plantation over one hectare of suitable land and provided the banking details for transfer of funds for taking up mangrove plantation. The approximate cost of undertaking mangrove plantation and its maintenance for a period of 10 years is Rs.8 lakhs. RCF has transferred the requisite funds for mangrove plantation & its maintenance for 10 years.

ii. PP informed that the industry is implementing rooftop rainwater harvesting scheme at its Priyadarshini Building (Corporate Office), Administrative Building and rainwater harvesting pond at R&D experimental farm in the Trombay Unit. M/s. RCF hasalso proposed to develop an additional rooftop rainwater harvesting pit at its R&D Building. PP also submitted photographs of under construction Recharge Well-01 at Administrative Building.

iii. PP informed that after proposed modernization, the overall freshwater requirement will increase from 34165 KLD to 34179 KLD. The water will be met through existing supply i.e., BMC Supply & In-house STP (Capacity-2 x 22.75 MLD). After modernization, Fresh water required for Nano Urea plant will increase from 90 KLD to 104 KLD.

iv. During the EAC meeting, PP informed that the total effluent generation from M/s. RCF after establishment of the proposed nano urea plant will be 8609 KLD out of which 5505 KLD will be recycled in the manufacturing process as well as cooling water makeup and toilet flushing and remaining 2500 KLD of treated effluent will be discharged into the sea as per the CTO letter dated 23.08.2026. It was informed that the industrial effluent generation from the proposed nano urea plant will be 5.25 KLD which will be treated in ETP and 4 KLD of domestic sewage will be treated in the STP. Industrial treated water will be recycled in the process. Domestic treated effluent will be recycled for gardening purpose.

v. PP informed the following details regarding development of greenbelt within plant premises:

Particulars	**Total Plot Area (in Ha)**	**Tree Cover Area (in Ha)**	**%**
Factory Area			
Admin (Administrative Area)	11	7.1	
Plant (Factory Area)	204	53	
Total	**215**	**60.1**	**28%**

PP further informed that due to the limited availability of space within the plant premises, significant additional greenbelt development within the plant area is not feasible. Accordingly, PP has informed that dense green belt has been developed in the township area which needs to be clubbed with the plant (factory) area, so that total greenbelt formed 39.69% of the total area as given below:

Particulars	**Total Plot Area (in Ha)**	**Tree Cover Area (in Ha)**	**%**
Admin (Administrative Area)	11	7.1	66%
Colony (Township Area)	69	53	77%
Plant (Factory Area)	204	53	26%
Total	**283**	**112**	**39.69%**

vi. The EAC noted that PP has already obtained EC for 27375 KLA nano-urea manufacturing. The instant proposal is only for change in Nitrogen content of Nano Urea Product i.e., Change in product formulation from 4% to 20%

nitrogen content which is a product mix change category. Committee suggested that the non-compliance point of previous EC regarding “plantation of mangroves”, should be stipulated as part of specific conditionsfor implementation in a time bound manner.

The committee was satisfied with the response provided by PP on above information.

The EAC deliberated the Onsite and Offsite Emergency plans and also the various mitigation measures proposed during the implementation of the project and advised the PP to implement the provisions of the Rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, as amended from time to time.
The EAC deliberated on the proposal with due diligence in 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 found the proposal in order and recommended for the grant of environmental clearance.
The EAC is of the view that its recommendation and grant of environmental clearance by the regulatory authority 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/ Subordinatelegislations, etc., as may be applicable to the project. The PP 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.

31. **The EAC, after detailed deliberations, recommended the project for the grant of environmental clearance, subject to the compliance of the terms and conditions as under, and general terms and conditions in Annexure-I.**

32. Minutes of the meeting may kindly be seen at https://parivesh.nic.in//utildoc/1240679823_1789054429356.pdf

33. Based on the recommendations made by EAC in its 139th meeting held on 2- 3 Sept 2026, the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance for **“Modernization of Nano-Urea Fertilizer Plant at RCF Trombay, Chembur, Suburban Mumbai, Maharashtra-400074 by M/s Rashtriya Chemicals and Fertilizers Limited (Govt. of India Undertaking)”** under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the Specific and General terms and conditions as mentioned at Annexure-1.

34. The Ministry reserves the right to stipulate additional conditions, if found necessary. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project. The Project Proponent is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.

35. General Instructions:

(a) The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.
(b) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
(c) The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and

balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.
(d) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.
(e) Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
(f) The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
(g) Any appeal against this EC 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.

This issues with the approval of the Competent Authority.

Copy To

1. The Member Secretary, CPCB, Parivesh Bhawan Cbd-Cum-Office Complex East Arjun Nagar, East, Delhi, mscb.cpcb@nic.in
2. The Member Secretary, SPCB/PCC, Kalptaru Point 2nd - 4th Floor Opp. Cine Planet Sion Circle Sion (E), Mumbai, Maharashtra, mpcbparivesh@mpcb.gov.in
3. The Member Secretary, CGWA, 18/11 Jamnagar House Man Singh Road, Central, Delhi, cgwa@nic.in
4. The Monitoring Cell MoEFCC, Compliance & Monitoring Division, Indira Paryavaran Bhawan Jor Bagh Road New Delhi, South, Delhi, moefcc-monitoring@gov.in
5. The Deputy Director General, Regional Office, Deputy Director General Of Forests (C) Ministry Of Environment Forest And Climate Change Integrated Regional Office Ground Floor East Wing New Secretariat Building Civil Lines Nagpur-440001., N/A, N/A, apccfcentral-ngp-mef@gov.in
6. The Secretary, Environment and Climate Change Department Govt. of Maharashtra, New Administrative Bhavan 15th Floor Madame Kama Road Mantralaya Mumbai - 400032maharashtra India., Mumbai, Maharashtra, psec.env@maharashtra.gov.in
7. The District Collector, DC Office, 10th Floor Collector Office Near Chetana College Govt.Colony Bandra East., Mumbai Suburban, Maharashtra, collector.mumbaisuburb@maharashtra.gov.in

Annexure 1

Specific EC Conditions for (Chemical Fertilizers)

1. Specific

S. No	EC Conditions
1.1	(i) The company 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.
1.2	(ii) With regard to the condition stipulated in EC dated 08.02.1990 pertaining to the development of mangroves in low-lying areas, M/s. RCF, vide letter dated 20.08.2026, has conveyed its consent to

S. No	EC Conditions
	the Mangrove Cell, Maharashtra Forest Department, for undertaking mangrove plantation over one hectare of suitable land at an appropriate location on behalf of RCF. Accordingly, M/s. RCF shall ensure that the mangrove plantation over one hectare of suitable land is undertaken within one year from the date of grant of Environmental Clearance. Necessary documentary evidence regarding the plantation and compliance shall be maintained and submitted to the IRO, Nagpur.
1.3	(iii) Stack height of 30 m along with acoustic enclosure shall be provided to the proposed D.G. sets (1x250 kVA + 1x625 kVA + 2x750 kVA + 1x690 kVA + 1x600 kVA + 1x320 kVA + 1x312 kVA + 1x160 kVA + 1x 200 KVA) as per CPCB/SPCB norms.
1.4	(iv) Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits imposed by SPCB.
1.5	(v) Total fresh water requirement from BMC water supply shall not exceed 104 KLD for nano-urea plant.
1.6	(vi) NOC from the Competent Authority shall be obtained before start of the construction of plant for drawing of the water for the proposed project expansion activities. State Pollution Control Board / Pollution Control Committees shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission.
1.7	(vii) Total industrial effluent generation from nano-urea plant shall not exceed 5.25 KLD. Industrial effluent shall be treated in the ETP. Treated effluent shall be recycled in the manufacturing process.4 KLD domestic sewage shall be treated in the STP and treated sewage shall be reused for horticulture and flushing purposes. The unit shall maintain Zero Liquid Discharge (ZLD).
1.8	(viii) The green belt of at least 5 m-10m width shall be developed in an area of 112 ha (39.69 %) within plant premises as well as residential colony. A total of 32,982 nos. of trees shall be planted within plant premises as well as residential colony. Tree saplings selected for the plantation should be of sufficient height, preferably 6-ft shall be planted in greenbelt area. Indigenous species shall only be developed as part of greenbelt and non-indigenous / alien species shall be replaced with native species. No invasive or alien or non-native tree species shall be selected for plantation. PP shall develop at least 20 variety of species as a part of greenbelt. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be developed. The budget earmarked for the plantation shall be kept in a separate account and should be audited annually. The PP shall annually submit the audited statement along with proof of activities viz. photographs (before & after with geo-location date & time), details of expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.
1.9	(ix) 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

S. No	EC Conditions
	to the CPCB and SPCB servers. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
1.10	(x) Rooftop rain water harvesting, by recharge ring well method, at three locations with potential of total recharging 3500 KL with 2 nos recharge wells; 2000 KL with 3 nos recharge wells & 1000 KL with 1 no recharge well respectively to the ground water table. A separate Rain water harvesting pond of total quantity 2587 KL using HDPE liner shall be provided and the water collected shall be recycled / reused within the plant as per requirements
1.11	(xi) A separate Environmental Management Cell (having qualified persons 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 by engaging Environment Officials. In addition to this, one safety & health officer as per the qualification given in Factories Act, 1948 shall be engaged within a month of grant of EC. The PP should annually submit the audited statement of amount spent towards the engagement of qualified persons in EMC along with details of person engaged to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during the previous year.
1.12	(xii) The company 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. The budget proposed under EMP Rs. 91.5 Crores(Capital cost) and Rs. 0.72 Croresper annum (Recurring cost) shall be kept in a separate account and should be audited annually. The PP should submit the annual audited statement along with proof of implementation of activities proposed under EMP duly supported by photographs (before & after with geo-location date & time) and other document as applicable to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during the previous year.
1.13	(xiii) Plantation of saplings shall be carried out as a part of tree plantation campaign "EK PED MAA ke NAAM" and details of the same to be uploaded in the Meri LiFE portal (https://merilife.nic.in) in respect to this Ministry's OM No. IA3-22/3/2024-IA.III(E-241594) dated 24th July 2024.
1.14	(xiv) All the hazardous waste shall be managed and disposed as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Hazardous waste such as Distillation Residue and Off Specification Products shall be either sent to common incineration site or send for coprocessing. Solid waste shall be segregated into dry and wet garbage at site in accordance to the Solid Waste Management Rules, 2026. Wet garbage shall be converted into compost and used as manure for greenbelt development.
1.15	(xv) The PP 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.

S. No	EC Conditions
1.16	(xvi) Proponent shall make arrangement to prevent air pollution due to the dust during construction period, constant water sprinkling on the pathways and dust prone areas. The C&D material loaded vehicles are to be covered with a tarpaulin before moving out of the construction area and shall arrange tarpaulin scaffolding around the area of construction and building.
1.17	(xvii) No banned chemicals shall be manufactured by the project proponent. No banned raw materials shall be used in the unit. The project proponent shall adhere to the notifications/guidelines of the Government in this regard.
1.18	(xviii) The project proponent shall comply with the environment norms for 'Fertilizer Industry' as notified by the Ministry of Environment, Forest and Climate Change, vide GSR 1607 (E), dated 29 thDecember, 2017 under the provisions of the Environment (Protection) Rules, 1986.
1.19	(xix) All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The PP 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. The occupier of new as well as expansion projects shall be required to comply with the provisions of the MSIHC Rules, 1989 including notifying their activities or seeking site approval from the concerned authorities, to address operational safety aspects. In doing so, various schedule, particularly Schedule-5 of the said rules may be referred.
1.20	(xx) The volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.97 % with effective chillers/modern technology. Regular monitoring of VOCs shall be carried out.
1.21	(xxi) The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.
1.22	(xxii) 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.
1.23	(xxiii) Training shall be imparted to all employees on safety and health aspects for handling chemicals. Safety and visual reality training shall be provided to employees. Action plan for mitigation measures shall be properly implemented based on the safety and risk assessment studies.
1.24	(xxiv) The unit shall make the arrangement for the protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.

S. No	EC Conditions
1.25	(xxv) 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 vapor recovery system. (f) Use of high pressure-hoses for equipment cleaning to reduce wastewater generation.
1.26	(xxvi) There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products and no parking to be allowed outside on public places.
1.27	(xxvii) Storage of raw materials shall be either in silos or in covered areas to prevent dust pollution and other fugitive emissions. All stockpiles should be constructed over impervious soil and garland drains with catch pits to trap runoff material shall be provided. Chemicals shall be stored in covered sheds and wind breaking walls/curtains shall be provided around biomass storage area to prevent its suspension during high wind speed. All Internal roads shall be paved. The Air Pollution Control System shall be interlocked with process plant/machinery for shutdown in case of operational failure of Air Pollution Control Equipment.
1.28	(xxviii) PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastic in order to ensure the compliance of Notification published by MoEF&CC on 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.

Standard EC Conditions for (Chemical fertilizers)

1.

S. No	EC Conditions
1.1	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.
1.2	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.
1.3	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
1.4	The overall noise levels in and around the plant area shall be kept well within the standards by

S. No	EC Conditions
	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).
1.5	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.
1.6	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.
1.7	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.
1.8	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.
1.9	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.
1.10	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.
1.11	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.
1.12	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.

Additional EC Conditions

N/A

Signature Not Verified

Digitally Signed by : Mr A N Singh
Member Secretary, MoEFCC (EC)

Date: 30/09/2026