Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

# FORM V

**(See Rule 14)**

**Environmental Audit Report for the financial Year ending the 31st March 2026**

| ***Unique Application Number*** | ***Submitted Date*** |
|---|---|
| MPCB-ENVIRONMENT_STATEMENT-0000101273 | 29-09-2026 |

## PART A

### *Company Information*

| ***Company Name*** | ***Application UAN number*** | |
|---|---|---|
| RASHTRIYA CHEMICALS & FERTILIZERS, LTD (TROMBAY UNIT) | 5429 | |
| ***Address*** | | |
| MAHUL ROAD , CHEMBUR , MUMBAI : 400074 | | |
| ***Plot no*** | ***Taluka*** | ***Village*** |
| 127Chembur 1 ( Marawali), 1,5,5,1 to 6 ( Anik ) | Kurla | Marawali |
| ***Capital Investment (In lakhs)*** | ***Scale*** | ***City*** |
| 270940.00 | LSI | Mumbai |
| ***Pincode*** | ***Person Name*** | ***Designation*** |
| 400074 | Sanjeev Haralikar | Executive Director (Trombay) |
| ***Telephone Number*** | ***Fax Number*** | ***Email*** |
| 9820994737 | 0222552231 | ed_tr@rcfltd.com |
| ***Region*** | ***Industry Category*** | ***Industry Type*** |
| SRO-Mumbai III | Red | R52 Fertilizer(basic) (excluding formulation) |
| ***Last Environmental statement submitted online*** | ***Consent Number*** | ***Consent Issue Date*** |
| yes | Formate1.0/CAC/UAN.NO.:00000114391/CR/CO-2206001329 | 2026-08-23 |
| ***Consent Valid Upto*** | ***Establishment Year*** | ***Date of last environment statement submitted*** |
| 2031-07-31 | 1978 | Sep 25 2025 12:00:00:000AM |
| ***Industry Category Primary (STC Code) & Secondary (STC Code)*** | | |

### *Product Information*

| ***Product Name*** | ***Consent Quantity*** | ***Actual Quantity*** | ***UOM*** |
|---|---|---|---|
| AMMONIA | 465000 | 423652 | MT/A |
| UREA | 483600 | 380469 | MT/A |
| COMPLEX FERTILIZERS ( SUPHALA + ANP) ) | 855600 | 635155 | MT/A |
| BIOLA | 1200 | 104.420 | MT/A |
| MICROLA | 1200 | 414.320 | MT/A |

| | | | |
|---|---|---|---|
| SUJALA ( 19:19:19 ) / ( DRIP/FOILER) | 22200 | 5004 | MT/A |
| Methanol | 69960 | 0 | MT/A |
| Ammonium Bicarbonate | 25000 | 8292 | MT/A |
| Sodium Nitrite/Nitrate | 5230 | 0 | MT/A |
| Sulphuric acid | 111600 | 66897 | MT/A |
| Nitric acid (100% basis) | 398040 | 397418 | MT/A |
| Conc. Nitric Acid | 27000 | 16603 | MT/A |
| Phosphoric acid | 37200 | 0 | MT/A |
| Treated water from STP | 9864000 | 8474482 | KL/A |
| Ammoniam Nitrate | 345125 | 205838.922 | MT/A |
| Grid Syncorinized Solar PV Power Plant | 2 | 2317.944 | Mwh |
| GTG Power Generation | 64 | 105244.400 | Mwh |
| Heat Recovery Steam Generation ( MT/Hr ) | 130 | 270429 | MT/MWH |
| Nano Urea Plant ( KL / A ) | 27375.0000 | 153.942 | KL/A |
| Liquid CO2 | 34000 | 10865.722 | MT/A |
| Methylamine | 5242 | 0 | MT/A |
| Wall Plaster | 48000 | 0 | MT/A |
| Wall putty | 7200 | 0 | MT/A |
| Rapid Wall Panel | 15069475 | 0 | SqFeet/Y |

***By-product Information***

| ***By Product Name*** | ***Consent Quantity*** | ***Actual Quantity*** | ***UOM*** |
|---|---|---|---|
| ARGON | 7198 | 2931.500 | MT/A |

***MPCB Vendor/Supplier Details***

| ***Category of Vendor/Agency/Party*** | ***Name of Vendor/Agency*** | ***Consent Details/UAN No.*** | ***EPR Related Details*** | ***MPCB Authorization/Registration/Implementation Details, if Applicable*** |
|---|---|---|---|---|
| Third Party Service Provider | M/s. Sky Lab Analytical Laboratory | Format1.0/RO/UAN No. 0000235363/CR/2503003831 | As per EPR under Plastic Waste Management Rule, 2016 RCF Trombay Unit recycle and disposed plastic waste. | RCF trombay unit engaged the MPCB authorized party for waste disposal. |

## Part-B (Water & Raw Material Consumption)

***1) Water Consumption in m3/day***

| ***Water Consumption for*** | ***Consent Quantity in m3/day*** | ***Actual Quantity in m3/day*** |
|---|---|---|
| ***Process*** | 10195.00 | 8406.00 |
| ***Cooling*** | 19465.00 | 15389.00 |
| ***Domestic*** | 4505.00 | 677.00 |

| | | |
|---|---|---|
| ***All others*** | 0.00 | 0.00 |
| ***Total*** | 34165.00 | 24472.00 |

### *2) Effluent Generation in CMD / MLD*

| ***Particulars*** | ***Consent Quantity*** | ***Actual Quantity*** | ***UOM*** |
|---|---|---|---|
| WATER GETS POLLUTED AND POLLUTED | 13088 | 2288.013 | CMD |

### *2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)*

| ***Name of Products (Production)*** | ***During the Previous financial Year*** | ***During the current Financial year*** | ***UOM*** |
|---|---|---|---|
| AMMONIA ( Treated Water ) | 1306505 | 1408417 | M3/Anum |
| METHANOL ( Treated Water ) | 0 | 0 | M3/Anum |
| Sulphuric Acid ( Treated Water ) | 73484 | 66922 | M3/Anum |
| Nitric Acid ( Treated Water ) | 351103 | 281260 | M3/Anum |
| Phosphoric Acid | 0 | 0 | M3/Anum |
| Urea ( Treated Water ) | 7849 | 6781 | M3/Anum |
| Complex fertilizers | 0 | 0 | M3/Anum |
| Conc Nitric Acid ( DM Water ) | 957 | 1044 | M3/Anum |
| Ammoniam Bi Carbonate | 44142 | 13097 | M3/Anum |
| Sodium Nitrate/Nitrite | 0 | 0 | M3/Anum |
| Grid Syncorinized Solar PV Power Plant | 128 | 115 | M3/Anum |
| Ammoniam Nitrate ( AN ) Plant | 0 | 0 | M3/Anum |
| Drinking Water ( BMC ) | 220124 | 247060 | M3/Anum |
| HRSG ( DM Water ) | 161035 | 284509 | M3/Anum |
| NSGP ( Treated Water ) | 729349 | 874933 | M3/Anum |

### *3) Raw Material Consumption (Consumption of raw material per unit of product)*

| ***Name of Raw Materials*** | ***During the Previous financial Year*** | ***During the current Financial year*** | ***UOM*** |
|---|---|---|---|
| Rock phosphate | 131964 | 169970.805 | MT/A |
| MAP | 114036 | 118708 | MT/A |
| DAP | 0 | 0 | MT/A |
| KCL | 157743 | 165844 | MT/A |
| SULPHUR | 22781.815 | 21800.95 | MT/A |
| NEEM OIL | 106826 | 192545 | Ltr/A |
| AMMONIA | 407820.14 | 452644.620 | MT/A |
| Soda Ash | 0 | 247.310 | MT/A |
| Caustic Soda Lye | 0 | 588.562 | MT/A |
| Natural Gas ( as feed ) | 182221.1521 | 193810.882 | MT/A |

### *4) Fuel Consumption*

| ***Fuel Name*** | ***Consent quantity*** | ***Actual Quantity*** | ***UOM*** |
|---|---|---|---|
| NATURAL GAS | 168455.713 | 166295.195 | MT/A |
| DIESEL | 110.551 | 127.735 | MT/A |

## Part-C

### *Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)*

#### *[A] Water*

| ***Pollutants Detail*** | ***Quantity of Pollutants discharged (kL/day)*** | ***Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour*** | ***Percentage of variation from prescribed standards with reasons*** | | |
|---|---|---|---|---|---|
| | ***Quantity*** | ***Concentration*** | ***%variation*** | ***Standard*** | ***Reason*** |
| pH | 2288.013 | 7.48 | 0 | NA | NA |
| Ammonical Nitrogen as N | 2288.013 | 14.10 | 0 | NA | NA |
| Free Ammonical Nitrogen as N | 2288.013 | 0 | 0 | NA | NA |
| Nitrate Nitrogen as N | 2288.013 | 18.2 | 0 | NA | NA |
| Cynide as Cn | 2288.013 | 0 | 0 | NA | NA |
| Vanadium as V | 2288.013 | 0 | 0 | NA | NA |
| Arsenic as As | 2288.013 | 0 | 0 | NA | NA |
| Phosphates as P | 2288.013 | 4.78 | 0 | NA | NA |
| Oil & grease | 2288.013 | 0 | 0 | NA | NA |
| Suspended solids | 2288.013 | 33.9 | 0 | NA | NA |
| Flourides as F | 2288.013 | 0.46 | 0 | NA | NA |
| Hexavalent Chromium as Cr | 2288.013 | 0 | 0 | NA | NA |
| Total Chromium as Cr | 2288.013 | 0 | 0 | NA | NA |
| Total residual chlorine (as Cl2) | 2288.013 | 0.18 | 0 | NA | NA |
| BOD | 2288.013 | 7.85 | 0 | NA | NA |
| Total dissolved solids | 2288.013 | 793.96 | 0 | NA | NA |
| Total Kjeldhal Nitrogen as N | 2288.013 | 38.78 | 0 | NA | NA |

#### *[B] Air (Stack)*

| ***Pollutants Detail*** | ***Quantity of Pollutants discharged (kL/day)*** | ***Concentration of Pollutants discharged(Mg/NM3)*** | ***Percentage of variation from prescribed standards with reasons*** | | |
|---|---|---|---|---|---|
| | ***Quantity*** | ***Concentration*** | ***%variation*** | ***Standard*** | ***Reason*** |
| PM (Urea Prilling Tower) | 50000 | 21.88 | 0 | NA | NA |
| PM ( ANP ) | 28500 | 0 | 0 | NA | NA |
| SO2 (Boiler) | 32400 | 0 | 0 | NA | NA |
| SO2 ( Sulphuric acid Plant ) | 24877 | 325.51 | 0 | NA | NA |
| Acid Mist ( Sulphuric acid Plant ) | 24877 | 11.21 | 0 | NA | NA |
| Fluorine ( Suphala ) | 40000 | 1.53 | 0 | NA | NA |
| NOx ( MP Nitric Acid ) | 140000 | 120.23 | 0 | NA | NA |
| Ammonia (Suphala ) | 40000 | 20.73 | 0 | NA | NA |
| NOx ( HP Nitric Acid ) | 51000 | 29.25 | 0 | NA | NA |
| Dust from ( Suphala plant ) | 40000 | 28.75 | 0 | NA | NA |

## Part-D

### HAZARDOUS WASTES

#### 1) From Process

| Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|---|---|---|---|
| 5.1 Used or spent oil | 19.81 | 49.93 | MT/A |
| 18.1 Spent catalyst | 0 | 151.44 | MT/A |
| 17.1 Process acidic residue, filter cake, dust | 12.037 | 8.967 | MT/A |

#### 2) From Pollution Control Facilities

| Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|---|---|---|---|
| 35.3 Chemical sludge from waste water treatment | 1279.89 | 4296.67 | MT/A |

## Part-E

### SOLID WASTES

#### 1) From Process

| Non Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|---|---|---|---|
| Chalk ( Sale ) | 0 | 0 | MT/A |
| Gypsum ( Sale ) | 0 | 5439.04 | MT/A |

#### 2) From Pollution Control Facilities

| Non Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|---|---|---|---|
| Metal Waste Sold | 972.8 | 807.31 | MT/A |
| Non metal waste sold | 580.17 | 698.78 | MT/A |
| Plastic Waste Disposed as per PWM 2016 Rules | 7500 | 7500 | MT/A |

#### 3) Quantity Recycled or Re-utilized within the unit

| Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|---|---|---|---|
| 17.1 Process acidic residue, filter cake, dust | 8.1 | 6.5 | MT/A |
| 35.3 Chemical sludge from waste water treatment | 1013.22 | 3887.08 | MT/A |

## Part-F

### Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

#### 1) Hazardous Waste

| Type of Hazardous Waste Generated | Qty of Hazardous Waste | UOM | Concentration of Hazardous Waste |
|---|---|---|---|
| ETP Sludge | 4296.67 | MT/A | The typical analysis of Chemical Sludge from ETP 1) Moisture Content : 36.28, 2) Total P2O5 : 30.45 ,3) Water soluble P2O5-0.39, 4)CO2- 3.22, 5)Acid Insoluble- 5.10, 6)Ammonium Nitrate as N : 0.40, |

#### 2) Solid Waste

| Type of Solid Waste Generated | Qty of Solid Waste | UOM | Concentration of Solid Waste |
|---|---|---|---|
| CHALK | 0 | MT/A | Analysis of Chalk not available as their was no Generation or Sale of Chalk for the year 2025 - 26 |

| | | | |
|---|---|---|---|
| GYPSUM | 0 | MT/A | 1) % Free Moisture :15.55,2) % Combined Water at 180OC:20.49 Analysis on Dry Basis 3) % Total P2O5: 0.10 , 4)% Water Soluble P2O5: 0.06, 5)% CaO: 31.89, 6) SiO2 : 1.42, 7) % Fe2O3 :0.09, 8) %A l2O3: |

## Part-G

***Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.***

| ***Description*** | ***Reduction in Water Consumption (M3/day)*** | ***Reduction in Fuel & Solvent Consumption (KL/day)*** | ***Reduction in Raw Material (Kg)*** | ***Reduction in Power Consumption (KWH)*** | ***Capital Investment(in Lacs)*** | ***Reduction in Maintenance(in Lacs)*** |
|---|---|---|---|---|---|---|
| Ammonia-V: Replacement of CT Cell-D Fan with energy efficient blades.Saving of 0.00058 Mkcal/MT energy. | 0 | 0 | 0 | 0 | 5 | 0 |
| Ammonia-V : Replacement of Methanator catalyst to reduce CO + CO2 slip & to increase waste heat recovery in RG Boiler.Saving of 0.011 Mkcal/MT of steam Energy by replacement. | 0 | 0 | 0 | 0 | 294.30 | 0 |
| Ammonia-V: Installation of retrofit emission control device (RECD) at the exhaust of DG set. | 0 | 0 | 0 | 0 | 14.73 | 0 |
| NAG: Replacement of Tail Gas Preheater-II (E04) | 0 | 0 | 120 | 0 | 120 | 0.096 |
| NAG: Replacement of Tail Gas Preheater-I (E05) | 0 | 0 | 120 | 0 | 50.45 | 0.096 |
| NAG : HPNA Air compressor Turbine overhauling due to this Consumption of 12 ata Steam reduced by 5.0 T/day due to stoppage of one steam ejector | 0 | 0 | 5000 | 0 | 100 | 0.225 |
| Ammonia- I: Replacement of old 250 KVA DG set (1990) with new 250 KVA CBCB IV+ compliant DG set | 0 | 0 | 0 | 0 | 32.36 | 0 |
| Suphala : New scrubbing tank FA610 has been provided for the HE601 scrubber for effective scrubbing of DC201 fumes, thereby controlling NOx emissions. | 0 | 0 | 0 | 0 | 50 | 0 |

## Part-H

***Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.***

***[A] Investment made during the period of Environmental Statement***

| ***Detail of measures for Environmental Protection*** | ***Environmental Protection Measures*** | ***Capital Investment (Lacks)*** |
|---|---|---|
| Waste disposal & treatment cost (includes ETP /STP sludge & Sulphur sludge disposal cost.) | Recycling of Hazardous Waste | 122.00 |

| | | |
|---|---|---|
| Cost for air emissions Maintenance of Air & Stack monitoring Instruments (Wireless , Stack monitoring, filters, agents etc.) | Maintenance of Monitoring Equipment's | 18.45 |
| External Party monitoring for Environment Parameters in and around the Factory. | Monitoring of Various Parameters by MoEFCC approved party | 3.74964 |
| Operation and Maintenance, material and services, and related personnel costs for running ETP , Old STP and New STP (Trombay Unit) for 2022-23 is | Operation and Maintenance ETP, Old STP and New STP | 8995.55 |
| Cost for Recycling of Plastic Waste as per PWM 2016 as Brand Owner | As per the Plastic Waste Management Rule 2016 | 78.83 |
| Cost for Maintenance of ISO Standards & Certificates in RCF, Trombays IMS training IMS External Audit | IMS(ISO 9001, 14001 & 45001) Awareness & Audits from External Accredited Parties | 1.0 |
| Cost for Maintenance of Real Time Display Board | Display Board for Displaying Real Time Environment Data for Public Display | 1.86 |

***[B] Investment Proposed for next Year***

| ***Detail of measures for Environmental Protection*** | ***Environmental Protection Measures*** | ***Capital Investment (Lacks)*** |
|---|---|---|
| Waste disposal & treatment cost (includes ETP /STP sludge & Sulphur sludge disposal cost.) | Recycling of Hazardous Waste | 100.0 |
| Cost for air emissions Maintenance of Air & Stack monitoring Instruments (Wireless ,Stack monitoring, filters, agents etc.) | Maintenance of Monitoring Equipments | 55.0 |
| External Party monitoring for Environment Parameters in and around the Factory. | Monitoring of Various Parameters by MoEFCC approved party | 6.0 |
| Operation and Maintenance, material and services, and related personnel costs for running ETP , Old STP and New STP (Trombay Unit) for 2023-24 is | Operation and Maintenance ETP, Old STP and New STP | 9000.00 |
| Cost for Recycling of Plastic Waste as per PWM 2016 as Brand Owner | As per the Plastic Waste Management Rule 2016 | 90.0 |
| Cost for Maintenance of ISO Standards & Certificates in RCF, Trombays IMS training IMS External Audit | IMS Awareness & Audits from External Accrediated Parties for ISO Standards training & Display Board | 1.5 |
| Cost for Maintenance of Real Time Display Board | Displaying Real Time Environment Data for Public Display | 2.0 |

## Part-I

***Any other particulars for improving the quality of the environment.***

***Particulars***

RCF Trombay Unit has engaged M/s. FACT Engineering and Design Organization (FEDO) to study for revamping Suphala (N: P: K 15:15:15) plant reaction gas scrubbing system with an objective of reduction in emissions of final stack in all seasons. The total cost of project is Rs. 23 Lacks.

***Name & Designation***

Sanjeev Haralikar, Executive Director , RCF Ltd., Trombay Unit

***UAN No:***

MPCB-ENVIRONMENT_STATEMENT-0000101273

***Submitted On:***

29-09-2026