



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2025

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000088366

Submitted Date

30-09-2025

PART A

Company Information

Company Name

Rashtriya Chemicals and Fertilizers Limited,
Thal Unit

Application UAN number

MPCB-CONSENT-0000063614

Address

RCF LTD, THAL, TALUKA -ALIBAG, RAIGAD,
MAHARASHTRA

Plot no

Survey No. 2

Taluka

Alibag

Village

THAL

Capital Investment (In lakhs)

203300.54

Scale

L.S.I.

City

Raigad

Pincode

402209

Person Name

Sanjeev Narahar Haraliker

Designation

General Manager (ETP)

Telephone Number

9423822666

Fax Number

02141238206

Email

snharaliker@rcf ltd.com

Region

SRO-Raigad II

Industry Category

Red

Industry Type

R52 Fertilizer(basic) (excluding
formulation)

Last Environmental statement submitted online

yes

Consent Number

Format1.0/CAC/UAN
No.0000155177/CR/2303002209

Consent Issue Date

2023-03-28

Consent Valid Upto

2027-12-31

Establishment Year

1984

Date of last environment statement submitted

Sep 30 2024 12:00:00:000AM

Industry Category Primary (STC Code) & Secondary (STC Code)

Product Information

Product Name

Heavy Water Plant (Classified)

Consent Quantity

110

Actual Quantity

0

UOM

MT/A

Di-methyl Formamide & Formic Acid Plant

12500

0

MT/A

Methyl Amine Plant

11400

12133

MT/A

Di-methyl Acetamide Plant

5000

0

MT/A

Power (Turbo-generator) - Consent quantity MWH (2x15MW)

262800

7491

Mwh

Ammonia

1314000

1102600

MT/A

Neem Coated Urea	2233800	1773600	MT/A
Argon	18980	5596	MT/A
Carbon Monoxide Plant	28800	0	CMD
Steam Generation	4818000	1163003	MT/A
Power (Gas Turbine Generator) - MWH(2x32MW)	560640	355967.397	Mwh
Steam Generation (HRSG)	1752000	1206586	MT/A

By-product Information

By Product Name	Consent Quantity	Actual Quantity	UOM
Nil	0	0	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
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Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
Cooling	54200.00	35989.56
Domestic	10000.00	6234.78
All others	0.00	0.00
Total	65000.00	42224.34

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Trade Effluent	12000	7907	CMD
Domestic effluent	143	90	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
Heavy Water Plant : Classified	0	0	Ton/Ton
Ammonia Plant	4.29	4.18	Ton/Ton
Steam Generation Plant	1.10	1.10	Ton/Ton
Di-methyl Formamide & Formic Acid	0	0	Ton/Ton
Methyl Amines Plant (MAP)	7.22	6.74	Ton/Ton
Di-methyl Acetamide (DMAC)	4.01	0	Ton/Ton
Urea plant	2.15	2.09	Ton/Ton
Argon	1.51	0.95	Ton/Ton
Carbon Monoxide Plant (CO)	0	0	Ton/Ton

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
Methanol - MAP	1.506	1.46	Ton/Ton
Sulfuric Acid	0.00038	0.00040	Ton/Ton
Acetic Acid	0.725	0	Ton/Ton
Natural Gas	0.4599	0.441	Ton/Ton
Sodium Hydroxide	0.00032	0.00033	Ton/Ton

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Natural Gas - unit MMSCMD	4.9	3.564	SCM/Day

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	0	7.00	NIL	6.5-9.0	NA
Ammonical Nitrogen	169.22	21.39	Nil	50 mg/lit	NA
Total Kjeldhal Nitrogen	246.60	31.17	Nil	75 mg/lit	NA
Nitrate Nitrogen	0.67	0.09	Nil	20 mg/lit	NA
Suspended Solids	234.06	29.58	Nil	100 mg/lit	NA
Oil & Grease	36.85	4.66	Nil	10 mg/lit	NA
COD	1014.97	128.28	Nil	250 mg/lit	NA
BOD	273.03	34.51	Nil	100 mg/lit	NA
Phosphate (as P)	13.04	1.65	Nil	5 mg/lit	NA
Free Ammonical Nitrogen	5.04	0.64	Nil	2.0 mg/lit	NA
Cyanide	0	0	Nil	0.1 mg/lit	NA
Vanadium (as V)	0	0	Nil	0.2 mg/lit	NA
Arsenic	0	0	Nil	0.2 mg/lit	NA
Fluoride	0	0	Nil	10 mg/lit	NA
Hexavalent Chromium as Cr	0	0	Nil	0.1 mg/lit	NA
Total Chromium as Cr	0	0	Nil	2 mg/lit	NA
Mercury	0	0	Nil	0.01 mg/lit	NA
Lead	0	0	Nil	2 mg/lit	NA
Copper	0	0	Nil	3 mg/lit	NA
Nickel	0	0	Nil	5 mg/lit	NA
Sodium	198.076	2.5	Nil	60%	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
Particulate Matter from Boiler stack	104.51	14.63	Nil	150 mg/nm3	NA
Nox from Boiler stack	59.55	4.01	Nil	50 ppm	NA
SO2 from Boiler stack	29.98	1.43	Nil	5 ppm	NA
TPM from Urea Prilling Tower	6.22	16.67	Nil	50 ppm	NA
NH3 from Urea Prilling Tower	12.82	32.98	Nil	50 ppm	NA
NOx from Reformer	15.40	8.11	Nil	50 ppm	NA
SO2 from Reformer	8.14	4.29	Nil	50 ppm	NA

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
18.1 Spent catalyst	307.41	77.07	MT/A
5.1 Used or spent oil	93.8	75.25	MT/A
Other Hazardous Waste	0	0	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	6.03	4.95	MT/A

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Civil waste	15	15	MT/A
Metal scrap	1085.38	709.9	MT/A
HDPE container / drums	406	0	Nos./Y
Metal drums	43.26	12	MT/A
E-waste	1.58	6.15	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NIL	0	0	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Mtrs/Y

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
5.1 Used or spent oil	75.25	MT/A	NA
18.1 Spent catalyst	77.07	MT/A	NA
35.3 Chemical sludge from waste water treatment	4.95	MT/A	NA

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Civil waste	15	MT/A	NA
Metal scrap	709.9	MT/A	NA
HDPE drums	0	Nos./Y	NA
Metal drums	12	MT/A	NA
E-waste	6.15	MT/A	NA

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)
Installation of 7 nos. of Energy efficient motors against conventional motors in Urea Plant (11MT1,11MT3,31MT1,31MT3,11/21/31P3A	0	0	0	25100	5.72	2.54
Installation of 05 nos. of Energy efficient motors against conventional motors in Ammonia Plant. (MK2303B, MK1303A , MP1305, MP1305, MP2305)	0	0	0	28700	6.97	2.91
Installation of 2 nos. of Energy efficient motors against conventional motors in Product Handling Plant (ET-4/ET-6)	0	0	0	4300	3.47	0.43
New 30KWp solar power plant installed & commissioned at new civil building	0	0	0	47300	14.14	4.80

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)
Plantation, Greenery and Horticulture	Improvement in Environment & Aesthetics	0.9
O&M Effluent Treatment Plant & Monitoring System	Effluent Treatment and Pollution Control	917.45
Sapling Distribution	Improvement in Environment & Aesthetics	6.75

Maintenance Cost of Laws/Gardens/Horticulture Services inside RCF Thal Factory	Improvement in Environment & Aesthetics	173
Installation of 7 nos. of Energy efficient motors against conventional motors in Urea Plant (11MT1,11MT3,31MT1,31MT3,11/21/31P3A	Reduction in Power Consumption	5.72
Installation of 05 nos. of Energy efficient motors against conventional motors in Ammonia Plant. (MK2303B, MK1303A , MP1305, MP1305, MP2305)	Reduction in Power Consumption	6.97
Installation of 2 nos. of Energy efficient motors against conventional motors in Product Handling Plant (ET-4/ET-6)	Reduction in Power Consumption	3.47
New 30KWp solar power plant installed & commissioned at new civil building	Reduction in Power Consumption	14.14

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
ETP Up-gradation phase-II scheme	ETP up-gradation phase-II scheme contains reducing the effluent load on existing effluent treatment plant.	13947

Part-I

Any other particulars for improving the quality of the environment.

Particulars

Saving due to in-built pollution control system is Rs. 0.25 Crores approx per day.

Name & Designation

SANJEEV NARAHAR HARALIKAR - General Manager (ETP), RCF THAL

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000088366

Submitted On:

30-09-2025