

राष्ट्रीय केमिकल्स एण्ड फर्टिलाइजर्स लिमिटेड

(भारत सरकार का उपक्रम)
साथ बढ़ें समृद्धि की ओर
नवरत्न कंपनी

1872



Rashtriya Chemicals and Fertilizers Limited

(Government of India Undertaking)
Let us grow together
A Navaratna Company

ISO 9001-2015, ISO 14001-2015, ISO-45000-2018, ISO 50001-2018 Compliant

थळ इकाई, थळ, तालुका अलिबाग, जिला रायगड, (महाराष्ट्र), पिन - ४०२ २०८

THAL UNIT, THAL, TALUKA ALIBAG, DIST. RAIGAD (MAHARASHTRA), PIN - 402 208

● फॅक्स : 02141-238206 / 238091 ● FAX : 02141-238206 / 238091

Website : www.rcfild.com CIN L24110MH1978GOI020185

RCF/TH/ENV/MOEF&CC/05/2026

26.05.2026

To

Additional Director,
Ministry of Environment, Forests & climate change
Indira Paryavaran Bhavan, Aliganj, Jorbagh Road,
New Delhi - 110 003.

SUB: Six Monthly Compliance report for Dimethyl Formamide & Methyl Amines Projects in 1991 at RCF Ltd. Thal.

REF: Office Memorandum No. J 11011/ 31/ 90-IA-II dated 14th October 1991 from MOEF&CC.

Dear Sir,

We submit herewith six monthly compliance report in respect of the Dimethyl Formamide & Methylamines project for the period of October 2025 – March 2026. The Office Memorandum dated 14th October 1991 as referred above was issued by MOEF&CC for setting up of Dimethyl Formamide & Methyl Amines plant at RCF Thal, Taluka- Alibag, and Dist. – Raigad, Maharashtra.

Point wise reply of compliance status is enclosed herewith. We assure MOEF&CC that, our operations will remain within the stipulated pollution norms.

With kind regards.

Yours faithfully,

U M Chavan
DGM (ETP)

पंजीकृत कार्यालय : प्रियदर्शिनी, ईस्टर्न एक्सप्रेस हायवे, सायन, मुंबई - 400 022
REGD. OFFICE : PRIYADARSHINI, EASTERN EXPRESS HIGHWAY, SION, MUMBAI 400 022

हम हिन्दी में पत्राचार का स्वागत करते हैं।

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RCF/TH/ENV/MOEF&CC/05/2026

26.05.2026

To

Director,
Ministry of Environment, Forests & climate change
Regional Office, (WCZ),
New Secretariat Building,
(Opposite Old VCA Stadium),
Ground Floor, East Wing,
Civil Lines, Nagpur - 440001.
Maharashtra.

SUB: Six Monthly Compliance report for Dimethyl Formamide & Methyl Amines Projects in 1991 at RCF Ltd. Thal.

REF: Office Memorandum No. J 11011/ 31/ 90-IA-II dated 14th October 1991 from MOEF&CC.

Dear Sir,

We submit herewith six monthly compliance report in respect of the EC for Dimethyl Formamide & Methylamines project for the period of October 2025 – March 2026. The Office Memorandum dated 14th October 1991 as referred above was issued by MOEF&CC for setting up of Dimethyl Formamide & Methyl Amines plant at RCF Thal, Taluka- Alibag, Dist.- Raigad, Maharashtra.

Point wise reply of compliance status is enclosed herewith. We assure MOEF&CC that, our operations will remain within the stipulated pollution norms.

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REGD. OFFICE : PRIYADARSHINI, EASTERN EXPRESS HIGHWAY, SION, MUMBAI 400 022

हम हिन्दी में पत्राचार का स्वागत करते हैं।

**SUBJECT: SETTING UP A PLANT FOR THE MANUFACTURE OF DIMETHYL FORMAMIDE
& METHYL AMINES AT RCF LTD. THAL.**

REF: Office Memorandum No. J 11011/ 31/ 90-IA-II dated 14th October 1991 from MOEF&CC.

	CONDITION	ACTION TAKEN
1.	The project authority must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Complying.
2.	Any expansion of the existing or proposed plants Can be taken up only with prior approval of the Ministry.	Any expansion at the site is carried out with due approval of MOEF&CC and the same will be maintained in future.
3.	The gaseous emission from various process units should conform to the standards prescribed by the concerned authorities from time to time, at no time the emission level should go beyond the stipulated standards. In the event of any failure of any Pollution Control system adopted by the unit, the respective production unit should be put out of operation immediately and should not be restarted until the control measures are rectified to achieve the desired efficiency.	Complied. Gaseous emission from various existing process units conform to the standards prescribed. We use cleanest natural gas as a fuel (APM and non APM C-series) and RLNG gas. Stack emissions monitoring reports enclosed in Annexures-I A, I B and I C . The plant is having computerized Control & In - built Pollution Control system. Methyl Amines and DMF plant emissions are flared through a hot flare stack.
4.	A minimum of four air quality monitoring stations should be set up in the downwind direction as well as where maximum ground level concentration is anticipated in consultation with the state Pollution Control Board. Stack emissions should be monitored by setting up of Automatic Stack Monitoring unit.	Complied. Ambient Air Monitoring stations are already set up, monitoring reports submitted regularly, can be seen from enclosed Annexure - II . There is no process stack in DMF / MAP plant. All gaseous emissions during upset conditions from DMF/ MAP plant are automatically flared in flare stack.
5.	There should be no change in the stack design without approval of Pollution Control Board. Alternate Pollution Control system & proper design (steam injection system) in the stack should be provided to take care of excess emission due to failure in any system of the plant.	Complied.
6.	The water consumption of the plants existing and proposed should be examined carefully and plans for reduction of water consumption should be drawn and submitted to this Ministry by October 1992.	Complied. The water consumption is maintained within the stipulated consent conditions. Condensate recycling schemes are implemented for reduction of raw consumption. Flow meters are installed at strategic points.
7.	Adequate number of effluent quality monitoring stations must be set up in consultation with the State PCB, and the effluents monitored should be statistically analyzed and the report sent to this ministry every six month & to the state PCB every three months.	Complied. Effluent quality monitoring is statistically analyzed & reports are regularly submitted to State Pollution Control Board. The results of the analysis are enclosed in Annexure - III .

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8.	The green belt development should be accelerated and completed within 24 months.	Complied. Blatter Herbarium of Mumbai have conducted a detailed survey and Reassessment work for green belt development and mangrove plantation. Reports are submitted to MOEF&CC.
9.	A detailed risk analysis based on maximum credible accident analysis should be done both for proposed plants and existing plants and submitted to this ministry by April 1992.	Complied.
10.	The existing environmental management cell should be strengthened with suitably qualified experts under the control of Executive who will report directly to the head of Organization.	Complied. We have established an Environmental Management Cell with qualified personnel.
11.	The project authority must set up a laboratory facility for collection and analysis of samples under the supervision of competent technical person who will directly report to the Chief Executive.	Laboratory has been set up. It is manned by suitable technical staff & is directly reporting to the Chief Executive.
12.	The funds earmarked for the environmental protection measures should not be diverted for other purposes & year wise expenditure be reported to the Ministry.	Complied. In the annual budget, sufficient funds are earmarked and utilized for environmental protection measures.

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Annexure-I A

RASHTRIYA CHEMICALS & FERTILIZERS LIMITED
THAL UNIT

STEAM GENERATION PLANT – STACK EMISSION

October 2025-March 2026

MONTH	PARAMETERS / UNIT	FIRST SAMPLE	SECOND SAMPLE
OCTOBER 2025	TPM (mg / m ³)	16.4	22.5
	SO ₂ (mg / m ³)	8.2	12.3
	SO ₂ (ppm)	2.9	4.3
	NOx (ppm)	4.7	9.6
NOVEMBER 2025	TPM (mg / m ³)	22.9	13.8
	SO ₂ (mg / m ³)	12.3	3.70
	SO ₂ (ppm)	4.3	1.30
	NOx (ppm)	9.6	4.6
DECEMBER 2025	TPM (mg / m ³)	20.60	23.30
	SO ₂ (mg / m ³)	11.60	15.50
	SO ₂ (ppm)	4.06	5.43
	NOx (ppm)	9.8	9.0
JANUARY 2026	TPM (mg / m ³)	18.60	24.1
	SO ₂ (mg / m ³)	15.50	17.3
	SO ₂ (ppm)	5.43	6.06
	NOx (ppm)	10.4	6.06
FEBRUARY 2026	TPM (mg / m ³)	12.40	25.10
	SO ₂ (mg / m ³)	7.90	15.75
	SO ₂ (ppm)	2.77	5.51
	NOx (ppm)	12.10	10.3
MARCH 2026	TPM (mg / m ³)	15.30	14.50
	SO ₂ (mg / m ³)	5.90	7.87
	SO ₂ (ppm)	2.07	2.75
	NOx (ppm)	4.6	8.50

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Annexure-I B

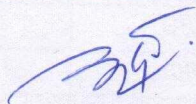
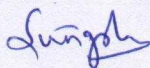
RASHTRIYA CHEMICALS & FERTILIZERS LIMITED
THAL UNIT

AMMONIA PLANT – STACK EMISSION

October 2025-March 2026

MONTH	PARAMETERS	REFORMER STACK			
		First Sample		Second Sample	
		Line - I	Line-II	Line - I	Line-II
OCTOBER 2025	TPM (mg / m3)	24.7	25.30	17.9	21.7
	SO2 (mg / m3)	16.4	20.50	12.3	16.4
	NOx (mg/m3)	22.1	24.00	14.5	17.6
NOVEMBER 2025	TPM (mg / m3)	25.4	24.6	11.3	11.84
	SO2 (mg / m3)	12.3	16.4	4.30	3.80
	NOx (mg/m3)	15.9	20.8	7.00	6.70
DECEMBER 2025	TPM (mg / m3)	23.10	17.80	24.60	15.80
	SO2 (mg / m3)	15.80	12.80	11.40	5.20
	NOx (mg/m3)	13.6	14.80	13.50	6.40
JANUARY 2026	TPM (mg / m3)	23.60	15.10	23.60	15.10
	SO2 (mg / m3)	10.20	9.60	10.20	9.60
	NOx (mg/m3)	16.40	13.40	16.40	13.40
FEBRUARY 2026	TPM (mg / m3)	16.30	18.50	24.20	16.30
	SO2 (mg / m3)	7.90	11.80	11.81	7.87
	NOx (mg/m3)	10.20	16.20	15.30	14.30
MARCH 2026	TPM (mg / m3)	S/D	21.40	S/D	S/D
	SO2 (mg / m3)	S/D	15.75	S/D	S/D
	NOx (mg/m3)	S/D	21.50	S/D	S/D

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Annexure-I C

RASHTRIYA CHEMICALS & FERTILIZERS LIMITED
THAL UNIT

UREA PLANT – STACK EMISSION

October 2025-March 2026

MONTH	PARAMETERS	FIRST SAMPLE			SECOND SAMPLE		
		11	21	31	11	21	31
OCTOBER 2025	TPM (mg / m3)	25.7	21.4	24.7	26.1	22.5	20.3
	TPM (ppm)	20.6	17.1	19.8	20.9	18	25.4
	NH3 (ppm)	39.8	39.1	42.3	41.6	40.6	44.4
NOVEMBER 2025	TPM (mg / m3)	26.5	22.8	25.4	19.5	21.3	18.4
	TPM (ppm)	21.3	18.2	20.3	22.05	17	22.05
	NH3 (ppm)	41.8	40.3	44.4	33.2	25.2	42.3
DECEMBER 2025	TPM (mg / m3)	21.7	20.1	18.8	14.5	15.80	15.8
	TPM (ppm)	17.4	16.1	18.8	11.6	12.6	12.6
	NH3 (ppm)	33.7	31	33	34.9	11.2	11.2
JANUARY 2026	TPM (mg / m3)	15.8	16.12	16.8	14.3	14.3	19.3
	TPM (ppm)	12.6	12.9	13.4	11.4	11.4	15.4
	NH3 (ppm)	32.4	18.7	33.3	24	24	26.6
FEBRUARY 2026	TPM (mg / m3)	20.4	17.5	18.4	15.3	15.3	20.1
	TPM (ppm)	16.3	14	14.7	12.2	12.2	16.1
	NH3 (ppm)	33.3	31	25.6	25.3	25.3	27.9
MARCH 2026	TPM (mg / m3)	22.3	20.30	20.3	23.5	19.4	18.5
	TPM (ppm)	17.8	16.2	16.2	18.8	15.5	14.8
	NH3 (ppm)	34.7	28.1	28.1	33.5	29.6	27

Sample

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Annexure-II

RASHTRIYA CHEMICALS AND FERTILIZERS LTD.
THAL UNIT

AMBIENT AIR DATA (Inside Factory)

October 2025-March 2026

MONTH	SO ₂	AMMONIA	NO _x	PM - 10	PM - 2.5
OCTOBER 2025	10.49	107.15	20.5	35.82	18.97
NOVEMBER 2025	11.69	79.48	21.42	63.19	37.38
DECEMBER 2025	13.06	62.52	21.39	88.00	45.94
JANUARY 2026	12.93	60.27	18.86	85.71	37.13
FEBRUARY 2026	13.29	57.36	20.71	79.30	37.31
MARCH 2026	15.14	59.48	23.24	64.16	26.55
N.A.A.Q. STANDARDS (µg/m ³)	80	400	80	100	60

* VALUES FOR SO₂, AMMONIA, NO_x, PM-10, PM-2.5 ARE IN µg/m³

Annexure-III

**RASHTRIYA CHEMICALS AND FERTILIZERS LTD.
THAL UNIT**

LIQUID EFFLUENT DISCHARGE TO SEA AFTER TREATMENT

October 2025-March 2026

PARAMETERS / MONTH	OCT 2025	NOV 2025	DEC 2025	JAN 2026	FEB 2026	MAR 2026	MPCB LIMIT
pH	6.62	8.17	7.12	6.89	7.10	7.17	6.5 – 9.0
CYANIDE	BDL(<0.02)	BDL(<0.02)	BDL(<0.02)	BDL(<0.02)	BDL(<0.02)	BDL(<0.02)	0.1
FREE AMMONIA	0.29	0.28	0.25	0.37	0.32	0.29	2
AMMONICAL NITROGEN	27	23	21	29	27	19	50
T. K. N	<0.5	31	29	36	34	26	75
NITRATE NITROGEN	0.64	0.60	0.58	0.61	0.59	0.56	10
TOTAL SUSPENDED SOLIDS	10	14	12	10	16	BDL(<5)	100
OIL & GREASE	BDL(<5)	BDL(<5)	BDL(<5)	BDL(<5)	BDL(<5)	BDL(<5)	10
DISSOLVED OXYGEN	5.7	5.4	5.3	5.5	6.1	5.9	>4.0
C O D	59	49	51	72	51	49	250
B O D	13	13	14	21	13	14	100
VANADIUM	BDL(<0.1)	BDL(<0.1)	BDL(<0.01)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	0.2
ARSENIC	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	0.2
HEXAVALENT CHROMIUM	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	0.1
PHOSPHATE	0.26	BDL(<0.1)	BDL(<0.1)	1.8	0.22	0.40	5

* All figures are in mg/ltr. Except pH

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A-0.2