

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 Bhawan, Aliganj, Jorbagh Road,
New Delhi - 110 003.

Sub: Submission of Six Monthly Compliance Report on Expansion by De-bottlenecking of Ammonia & Urea Plants of M/s. Rashtriya Chemicals & Fertilizers Ltd, Thal Unit, for the period October 2025 - March 2026.

Ref: MOEF&CC Office Memorandum No. J-11011/862/2008-IA-II (I) Dated: June 10, 2009.

Dear Sir,

We submit herewith the latest six monthly compliance report for the period October 2025 - March 2026.

In respect of expansion by De-bottlenecking of Ammonia & Urea plants of RCF Thal unit. The office memorandum of Environmental Clearance dated 10th June 2009 as referred above was issued by MOEF&CC for the following project as mentioned below.

Products	Existing	After expansion
<u>Ammonia</u>	2 x 1500 MTPD	2 x 1750 MTPD
<u>Urea</u>	3 x 1724 MTPD	3 x 2040 MTPD

The expansion activity is carried out at existing site which is already in operation since 1985 and producing Urea & Ammonia using clean fuel like domestic natural gas (APM and non APM C series) and RLNG gas with all in-built pollution control facilities, Environmental protection, Environment monitoring and Safety management system at site.

Project activities for De-bottlenecking of Ammonia & Urea plant are completed. Compliance of conditions of Environmental Clearance is carried out with true spirit and we enclose point wise reply along with monitoring reports.

Monitoring of Environmental parameters like Ambient Air, Stack emissions, liquid effluent, noise etc. are conducted on regular basis for existing plants as per statutory norms and are enclosed in annexure along with point wise replies.

Thanking You.

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।

राष्ट्रीय केमिकल्स एण्ड फर्टिलाइजर्स लिमिटेड

(भारत सरकार का उपक्रम)
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थळ इकाई, थळ, तालुका अलिबाग, जिला रायगड, (महाराष्ट्र), पिन - ४०२ २०८
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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: Submission of Six Monthly Compliance Report on Expansion by De-bottlenecking of Ammonia & Urea Plants of M/s. Rashtriya Chemicals & Fertilizers Ltd, Thal Unit, for the period October 2025 – March 2026.

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Project activities for De-bottlenecking of Ammonia & Urea plant has completed. Compliance of conditions of Environmental Clearance is carried out with true spirit and we enclose point wise reply along with monitoring reports.

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

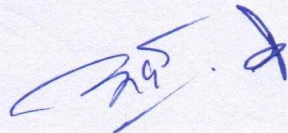
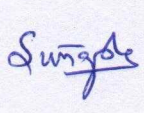
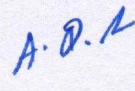
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Six Monthly Compliance Report on Expansion project by De-bottlenecking of Ammonia –Urea Plants at RCF- Thal unit

MOEF&CC Memo No. F. No. J-11011. /862/2008-IA-II (I)

A) SPECIFIC CONDITIONS:

Sr. No.	CONDITIONS:	COMPLIANCE
i)	The project authority shall treat the industrial and domestic effluent as per the standards notified under Environmental (Protect) rules 1986 or prescribed by the Maharashtra Pollution Control Board whichever are stringent. The treated waste water shall be recycled / reused for irrigation/green belt development as far as possible before discharge into sea.	The Industrial effluent and Domestic effluent are treated as per the standards under Environment Protection Act 1986. Treatment is assured in existing ETP. The quality of treated effluent from existing ETP meeting MPCB norms are as mentioned in Annexure I prior to discharge to Sea through Marine Outfall System. The treated water quality is monitored regularly. Also continuous effluent quality monitoring system has been provided for monitoring of pH, flow and Ammonical Nitrogen. The system is connected to CPCB and MPCB servers. Effluent is being treated in the ETP Up-gradation plant with treatment capacity of 7 MLD. The treated effluent is being recycled into Process plants as raw water. The treated domestic sewage from STP is used for gardening & Green belt development within factory premises.
ii)	The permission for drawl of 53,200 KLD water from Amba / Kundalika River shall be obtained from the concerned department and a copy shall be submitted to the Ministry and its Regional Office at Bhopal within 3 months.	The permission for drawl of 90,000 KLD water from Amba / Kundalika River is obtained from Maharashtra Industrial Development Corporation. A copy of approval was submitted to the Ministry and its Regional Office.
iii)	The project authorities shall install efficient air pollution control system like extended bucket to Urea Prilling Tower, Low NOx burners to reformer, Ammonia stripper etc. to control particulate and gaseous emissions from the plant to achieve the prescribed standards.	The efficient air pollution control system like advanced designed Prilling bucket to Urea Prilling Tower, Low NOx burners for reformer, Ammonia stripper, Vent Absorber etc. are installed to control particulate and gaseous emissions from the existing plant to achieve the prescribed standards including expansion project.
iv)	The gaseous emissions (SO ₂ , NO _x , NH ₃ , urea dust) and particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. Emission data shall be periodically monitored and reports submitted to Ministry's Regional Office, CPCB and SPCB.	The gaseous emissions (SO ₂ , NO _x , NH ₃ , urea dust) and particulate matter from various process units conform to the standards prescribed. Emission data is regularly monitored and reports are submitted to Ministry's regional office, CPCB & SPCB as enclosed in Annexures II A, II B, and II C.

v)	Data on ambient air quality stack emission and fugitive emissions shall be uploaded on the company's website and also regularly submitted online to Ministry's Regional office at Bhopal, Maharashtra Pollution Control Board and Central Pollution Control Board as well as hard copy once in six months. Data on SPM, SO ₂ , NH ₃ , NO _x and urea dust shall also be displayed prominently outside the premises at the appropriate place for the general public.	Data on ambient air quality is uploaded on the company's website and also regularly submitted to Ministry's Regional office along with compliance reports of previous projects, Maharashtra Pollution Control Board and Central Pollution Control Board with hard copy once in six months. Data on PM-10, PM-2.5, SO ₂ , NH ₃ , NO _x is displayed at the gate. Six (06) no's of continuous ambient air quality monitoring stations were installed in the plant premises.
vi)	Spent catalysts shall be sold to authorized venders for its metal value. The other solids wastes shall be segregated and stored in the separate storage space and finally sold to the authorized venders.	There is no generation of additional quantity of Hazardous Waste catalyst due to the revamp. Existing spent catalyst are sold to MPCB approved recyclers/coprocessor. The other solids wastes are segregated, stored and sold out.
vii)	The company shall develop the green belt in at least 33% land area to mitigate the effect of fugitive emissions and noise as per the guidelines CPCB.	RCF has already developed 112 ha green cover. This was informed to the MOEF&CC vide letter (RCF/NPK/EC/Corrigendum/01 dated 12/01/2024, for request to issue corrigendum against File No: IA-J-11011/533/2021-IA-II(I) dated 02.01.2024).
viii)	The company shall implement all the recommendations made in the Charter on Corporate Responsibility for Environmental Protection (CREP) for fertilizer industries.	The company has implemented all the recommendations made in the Charter on Corporate Responsibility for Environmental Protection (CREP) for fertilizer industries. There is total compliance of all recommendations of CREP from Thal Unit.
ix)	Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Act.	Occupational health surveillance of the workers is carried out on a regular basis and records are maintained as per the Factories Act.
x)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project	There is no additional manpower requirement due to the revamp project. Provision is already made for existing plants. Facilities such as canteen, toilets, Safe drinking water, medical health care, crèche etc. are made for construction labour and contractor workers within the site.

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GENERAL CONDITIONS:

Sr. No.	CONDITIONS	COMPLIANCE
i)	The project authorities shall strictly adhere to the stipulations of the SPCB/state government or any statutory body.	Complying
ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. 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 to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Any expansion at the site is carried out with due approval of MOEF&CC and the same will be maintained in future.
iii)	At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	It is ensured that at no time the emissions are exceeding the prescribed limits. Clean fuel like Domestic natural gas (APM and non APM C-series) and RLNG gaseous are used. The plant is having advanced Process Control & In - built Pollution Control system. Urea plant and ammonia plants emissions are discharged with all safety precautions through tall stacks and through hot flare stacks. Sensors/detectors for Ammonia, Chlorine and CO gas are provided. Extended bucket has been used at urea Prilling tower. Low NOx burners are installed at reformer, Ammonia stripper vent etc.
iv)	The locations of ambient air quality monitoring stations shall be reviewed in consultation with the State Pollution Control Board (SPCB) and additional stations shall be installed, if required, in the downwind direction as well as where maximum ground level concentrations are anticipated.	Six Ambient Air Monitoring stations to monitor the ambient air quality for SO2, NOx, and NH3, PM-10, PM-2.5 are installed. The stations were connected to CPCB/MPCB servers. Ambient air quality is monitored at 7 villages. Quality of Ambient air is indicated in Annexures III A and III B.
v)	Dedicated scrubbers and stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided to control the emissions from various vents. The scrubbed water shall be sent to ETP for further treatment.	The process itself is with complete recycle system. in built systems in all plants which not only help in reducing the pollution load but also helps in recovery of Valuable raw materials. The emissions during upset conditions from this plant are flared through tall flare stacks and vented through tall stacks with proper control systems. Effluent from the revamp activities is sent to existing ETP for further treatment.

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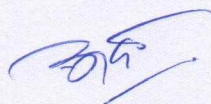
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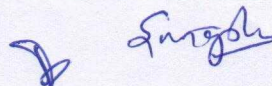
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vi)	The company shall undertake following Waste Minimization measures. ➤ Metering and control of quantities of active ingredients to minimize waste. ➤ Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. ➤ Use of "Closed Feed" system into batch reactors. ➤ Venting equipment through vapour recovery system. ➤ Use of high pressure hoses for equipment cleaning to reduce wastewater generation.	Thal unit has undertaken same recommendations and Waste Minimization measures for existing plants which is in practice for some of the applicable waste minimization measures in revamp project also.
vii)	Fugitive emissions in the work zone environment, product, and raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the State Pollution Control Boards/Central Pollution Control Board.	Fugitive emissions at work place are monitored which conforms to stipulated standard as enclosed in Annexures – VA and V B
viii)	The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000 and Hazardous Waste (Management and Handling) Rules, 1989, as amended from time to time. Authorization from the SPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.	Compliance assured.
ix)	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 Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time)	Acoustic enclosures have been provided for the noise generating sources. Personal Protective Equipment has been provided for the personnel working in the noisy areas. Noise levels were monitored at 7 locations. The overall noise levels in and around the plant area and surrounding area of the factory are kept well within the standards by providing noise control measures as enclosed in Annexure – IV .
x)	The company shall develop rain water harvesting structures to harvest the run-off water for recharge of ground water.	Rainwater harvesting is implemented at roof top of Samruddhi hall.
xi)	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan should be submitted to the SPCB within three months of receipt of this letter for approval.	The unit has undertaken eco-development measures by plantation, nurseries, lawns and gardens including farmer training, community welfare scheme, Awareness training programs on Greenery development, Greenbelt development program, Installation of Agricultural research Centre, Mangrove development plan, afforestation in nearby hills etc. and same efforts are made for eco-development.
xii)	The project proponent shall also comply with all the environmental protection measures and	The recommendation made in Risk assessments for environmental safeguard are implemented in existing

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	safeguards proposed in the EIA/EMP report.	plants and will be extended to the project .
xiii)	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	There is an established Environment Management Cell with full-fledged laboratory facilities to carry out Environmental Management and monitoring functions.
xiv)	The project authorities shall earmark adequate funds to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Adequate funds are provided to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government.
xv)	The implementation of the project vis-à-vis environmental action plans shall be monitored by the concerned Regional Office of the Ministry/SPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the Company.	Expansion by De-bottlenecking of Ammonia and Urea plant is completed. Six monthly Compliance status report is assured.
xvi)	State Pollution Control Board should display a copy of the clearance letter at the Regional office, Gram Panchayat, District Industry Centre and Collector's office/ Tehsildar's Office for 30 days.	The copy of Clearance letter sent for display at Regional office, State Pollution Control Board and other locations as directed within 30 days which was already informed to the Ministry after receipt of MOEF&CC Clearance.
xvii)	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 and may also be seen at Website of the Ministry at http://envfor.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.	Press advertisement was given within seven days from the date of issue of the clearance letter, in three local newspapers which are widely circulated in the region out of which one is in the vernacular language of the locality concerned. The same was informed to MOEF&CC.
xviii)	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.	The date of financial closure was 29.5.2009. The zero date for the debottlenecking of ammonia and urea project was 20 th March 2009. Project Cost is approx. Rs 488.0 Crores reference year being 2009.

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**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

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 / m3)	16.4	22.5
	SO ₂ (mg / m3)	8.2	12.3
	SO ₂ (ppm)	2.9	4.3
	NOx (ppm)	4.7	9.6
NOVEMBER 2025	TPM (mg / m3)	22.9	13.8
	SO ₂ (mg / m3)	12.3	3.70
	SO ₂ (ppm)	4.3	1.30
	NOx (ppm)	9.6	4.6
DECEMBER 2025	TPM (mg / m3)	20.60	23.30
	SO ₂ (mg / m3)	11.60	15.50
	SO ₂ (ppm)	4.06	5.43
	NOx (ppm)	9.8	9.0
JANUARY 2026	TPM (mg / m3)	18.60	24.1
	SO ₂ (mg / m3)	15.50	17.3
	SO ₂ (ppm)	5.43	6.06
	NOx (ppm)	10.4	6.06
FEBRUARY 2026	TPM (mg / m3)	12.40	25.10
	SO ₂ (mg / m3)	7.90	15.75
	SO ₂ (ppm)	2.77	5.51
	NOx (ppm)	12.10	10.3
MARCH 2026	TPM (mg / m3)	15.30	14.50
	SO ₂ (mg / m3)	5.90	7.87
	SO ₂ (ppm)	2.07	2.75
	NOx (ppm)	4.6	8.50

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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
	SO ₂ (mg / m3)	16.4	20.50	12.3	16.4
	NO _x (mg/m3)	22.1	24.00	14.5	17.6
NOVEMBER 2025	TPM (mg / m3)	25.4	24.6	11.3	11.84
	SO ₂ (mg / m3)	12.3	16.4	4.30	3.80
	NO _x (mg/m3)	15.9	20.8	7.00	6.70
DECEMBER 2025	TPM (mg / m3)	23.10	17.80	24.60	15.80
	SO ₂ (mg / m3)	15.80	12.80	11.40	5.20
	NO _x (mg/m3)	13.6	14.80	13.50	6.40
JANUARY 2026	TPM (mg / m3)	23.60	15.10	23.60	15.10
	SO ₂ (mg / m3)	10.20	9.60	10.20	9.60
	NO _x (mg/m3)	16.40	13.40	16.40	13.40
FEBRUARY 2026	TPM (mg / m3)	16.30	18.50	24.20	16.30
	SO ₂ (mg / m3)	7.90	11.80	11.81	7.87
	NO _x (mg/m3)	10.20	16.20	15.30	14.30
MARCH 2026	TPM (mg / m3)	S/D	21.40	S/D	S/D
	SO ₂ (mg / m3)	S/D	15.75	S/D	S/D
	NO _x (mg/m3)	S/D	21.50	S/D	S/D

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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

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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

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

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RASHTRIYA CHEMICALS AND FERTILIZERS LTD.
THAL UNIT

SURROUNDING VILLAGE AIR QUALITY DATA

October 2025-March 2026

MONTH	Parameters	Agarsure	Satirje	Kihim	Tudal	Lonare	Vaishet	Sport Com Alibaug
OCT 25	SO ₂	23.1	27.25	21.2	23.5	25.2	28.2	22.6
	NO _x	39.55	42.15	34.8	40.35	42.2	41.3	38.1
	NH ₃	47.75	52.55	44.85	52.5	48.55	49.45	53.45
	PM 2.5	36.6	32.65	36.5	38.55	31.7	35.8	33.75
	PM 10	73.4	66.35	65.8	72.45	68.65	67.5	70.35
NOV 25	SO ₂	18.2	17	15.65	21.4	15.85	24.3	17.85
	NO _x	34.55	44.95	35.1	40.15	37.8	39.5	39.15
	NH ₃	47.05	46.5	39.65	50	44.5	47.15	52.3
	PM 2.5	34.65	35.65	30.5	35	35.2	33.55	42
	PM 10	67	70	60.95	70.15	71.15	65.15	80.15
DEC 25	SO ₂	18.85	16	17.65	16.25	16.2	18.7	16.6
	NO _x	34.8	37.35	29.25	28.95	31.2	31.1	35.45
	NH ₃	45.5	46.4	38.85	38.8	40.95	46.95	44
	PM 2.5	41.6	38.1	40.7	36	35.85	37	41.35
	PM 10	74	72.15	70.1	67.8	70.1	67.85	76.85
JAN 26	SO ₂	16.45	24.55	15.3	22.1	18.95	25.45	19.25
	NO _x	34.25	43.85	28.7	43.7	39.2	42.55	40.3
	NH ₃	41.75	50.3	41.5	50.35	45.15	45.65	51.3
	PM 2.5	36.5	30.15	34.2	43.35	36.95	37.45	35.9
	PM 10	70.4	69.45	64.2	78.95	68.25	69.85	74.5
FEB 26	SO ₂	16.35	23.45	20.7	23.4	19.85	27.3	17.9
	NO _x	29.7	44.75	40.4	41.75	41.3	39.9	38.55
	NH ₃	42.6	53.2	53.9	48.95	43.7	45.7	52.75
	PM 2.5	36.15	30.9	36.9	40.4	32.3	36.3	35.7
	PM 10	73.05	69.4	72.3	78.4	69.35	70.45	78.2
MAR 26	SO ₂	20.45	20.45	16.4	15.55	21.9	26.1	17.75
	NO _x	30.2	40.75	32.95	32.85	40.05	43.9	35.55
	NH ₃	46.8	47.95	40.45	42.1	45.7	52.5	48.2
	PM 2.5	35.15	30.5	41.45	37.35	33.25	35.05	29.3
	PM 10	72.8	64.8	72.5	71.05	71.75	73.25	66.2

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

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

Ambient Noise Level data at the Boundary and the 7 nearby Villages.

October 2025-March 2026

MONTH	RCF Material Gate	Main Gate	Tudal Gate	Boris	Lonare	RCF Navgaoon	Vaishet
OCTOBER 2025	61.8	60.5	62.05	60.8	62.55	61.2	60.4
NOVEMBER 2025	64.1	61.75	60.8	52.65	63.75	60.75	61.05
DECEMBER 2025	63.9	63.2	59.75	61.15	62.85	62.6	61.7
JANUARY 2026	60.7	58.95	58.85	56.8	59.9	58.2	57.8
FEBRUARY 2026	61.6	59.1	60	57.35	59.95	59.4	59.3
MARCH 2026	59.75	61.7	59.75	58.05	59.45	61.6	59.5

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*All figures are in dBA

RASHTRIYA CHEMICALS AND FERTILIZERS LTD.
THAL UNIT

AMMONIA PLANT
NOISE SURVEY REPORT

October 2025-March 2026

Permissible Exposure Level of Noise as per schedule XXIV, Factories Act 1948 as follows,

Time in Hr	8	6	4	3	2	1.1/2	1	3/4	1/2	1/4
Sound Press. level in dBA	90	92	95	97	100	102	105	107	110	115

SN	LOCATIONS	SOUND RESSURE - LEVEL in dBA Dtd 09.02.2026
A	AMMONIA LINE I	
1	CO ₂ Compressor	91
2	Alternator	96
3	Near MP1301 A/B East side	90
4	Auxiliary Boiler Blower	89
5	BFW Platform	100
6	K-1441 /1442	98/97
7	PAC (Field / Cabin)	101*
8	ARC (Field / Cabin)	101*/75
9	SGC (Field / Cabin)	102*/73
B	AMMONIA LINE II	
10	CO ₂ Compressor	93
11	Alternator	90
12	Near MP2301 A/B East side	93
13	Auxiliary Boiler Blower	95
14	BFW Platform	93
15	K-1441 /1442	95/94
16	PAC (Field / Cabin)	100
17	ARC (Field / Cabin)	98/77
18	SGC (Field / Cabin)	98/75
c	Compressors	
19	ARC (IV) (Field)	91
20	PAC-III (Field / Cabin) PAC II	106*/75
21	IAC (Field / Cabin)	86/72

Note: - All the readings are taken from machine /equipment about 1 to 1.5-meter distance.
Use ear protection like ear plugs or ear muffs while working in the field.

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ANNEXURE –V B

RASHTRIYA CHEMICALS AND FERTILIZERS LTD.
THAL UNIT

UREA PLANT

NOISE SURVEY REPORT

October 2025-March 2026

अनुसूची XXIV एम०एफ० नियम 1963 (MFR 1963) के अनुसार ध्वनि के स्वीकार्य एक्सपोजर स्तर निम्नानुसार हैं

समय (घंटो मे)	8	6	4	3	2	1.1/2	1	3/4	1/2	1/4
ध्वनि स्तर (dBA मे)	90	92	95	97	100	102	105	107	110	115

DATES	02.12.2025
PC-266	83
TK1 Area	84
1st floor CO ₂ Compressor House	89
P1- Ammonia feed pump	90
P2 – Carbamate Pump	90
P5 – Amm. Booster Pump	87
Scraper Gr. Floor	70
PA Compressor (K-3)	88
Urea Control Room	64

** All figures are in dBA

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