



Ramagundam Fertilizers And Chemicals Limited

रामगुंडम फर्टिलाइजर्स एंड केमिकल्स लिमिटेड

(A Joint Venture Company)

रामगुंडम फर्टिलाइजर्स एंड केमिकल्स लिमिटेड

Site Office : Fertilizers City, Ramagundam - 505 210, Dist. Peddapalli, Telangana.

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GSTIN : 36AAHCR2335P1ZY, CIN : U24100DL2015PLC276753

RFCL/TS/EMC/FY 25-26/41/5200

Date: 30.06.2026

To,
Director,
Regional Office,
Ministry of Environment, Forest and Climate Change,
1st and 2nd Floor, HEPC Building,
No:34, Cathedral Garden Road,
Nungambakkam,
Chennai-600034

Sub : Submission of Half Yearly Environmental Clearance (EC) Compliance Report for RFCL Ramagundam, Telangana for the period of October' 2025 - March' 2026.

Ref : F No.- J-11011/371/2013-IA II (I) dated 16th October, 2015.

Respected Sir,

Half-yearly Environmental Clearance Compliance Report along with the Environment monitoring data for the period of October'2025 - March'2026 is enclosed herewith.

Trust that you find the above information in order.

Yours Sincerely


D. Satyanarayana
(AGM TS)


Office of the
Environmental Engineer
Telangana Pollution Control Board
Regional Office Ramagundam.
H. No. Special C-3 NTPC. TTS
Near Zilla Parishad High School
YOTHINAGAR 505 215
Dist Peddapalli (TG)

Enclosure: As above.

Copy to:

- Joint Chief Environmental Engineer (TSPCB), Hyderabad, Telangana.
- Zonal Office, CPCB, Bengaluru, Karnataka.
- Environmental Engineer, Ramagundam, Telangana.
- Chief Conservator of Forests (C), Regional Office (EZ), Bhubneswar-751023.
- Sub Office, Ministry of Environment Forest and Climate Change, Hyderabad-500004.



Corporate Office: 4th Floor, Wing- A, Kribhco Bhawan, Sector-1,; Noida, Uttar Pradesh; Pin Code- 201301

Registered Office: Scope Complex, Core No. III; 7, Institutional Area, Lodhi Road,; New Delhi-110003

RAMAGUNDAM FERTILIZERS AND CHEMICALS LIMITED, RAMAGUNDAM

Ammonia (2200 MTPD) / Urea (3850 MTPD) Fertilizer Complex

Sub: Six monthly compliance report of Environmental Clearance. (Period : October' 2025 - March' 2026)

Ref: MoEF&CC letter No: J-11011/371/2013-IA II (I) dated 16th October, 2015.

A. SPECIFIC CONDITIONS

S.NO	DESCRIPTION	COMPLIANCE STATUS
i)	The gaseous emissions (SO ₂ , NO _x , NH ₃ , HC and Urea Dust) and Particulate matter from various process units shall conform to the norms prescribed by CPCB/ SPCB from time to time. At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Stack emissions shall be monitored continuously (24 x 7) as per CPCB guideline.	The Particulate matter and gaseous emissions from various process units conform to the norms prescribed by CPCB/ SPCB from time to time. Process stack emissions are being monitored continuously as per the CPCB guidelines. Details of Process Emissions (Stack Emission) are enclosed. (Doc No.: RFCL-TS-EMC-Report-05)
ii)	Adequate stack height shall be provided to Ammonia Plant Reformer, Heat Recovery Steam Generator (HRSG), NG/RLNG fired Gas Turbine and Prilling Tower. Low NO _x burners shall be provided to control NO _x emissions.	Stack heights of Ammonia Plant Primary Reformer, Heat Recovery Steam Generator (HRSG), Utility Boiler & NG/RLNG fired Gas Turbine and Prilling Tower are as per the CPCB guidelines. Low NO _x burners have been installed in Primary reformer, HRSG & Utility Boiler to mitigate the NO _x emission.
iii)	In Urea Plant, particulate emissions shall not exceed 50 mg/Nm ³ . Monitoring of Prilling Tower shall be carried out as per CPCB guidelines.	Urea dust from the Prilling tower remains well below the prescribed limit as specified by CPCB (less than 50 mg/Nm ³).
iv)	As proposed, Fertilizer plant shall be designed for Specific Energy Consumption of 5.0 Gcal/MT of Urea.	Urea Plant has been designed with Specific Energy Consumption of < 5.0 GCal/MT of Urea.
v)	Ambient air quality data shall be collected as per NAAQES standards notified by the Ministry vide G.S.R No. 826(E) dated 16th September, 2009 . The levels of PM ₁₀ (Urea Dust), SO ₂ , NO _x , Ammonia, Ozone and HC shall be monitored in the ambient air and displayed at a convenient location near the main gate of the company and at important public places. The Company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to Regional Office of MoEF, the respective Zonal office of CPCB and the Telangana State Pollution Control Board (TSPCB).	Continuous Ambient Air quality monitoring stations have been provided at three locations within the factory premises. Six Monthly Environmental Compliance report along with results of monitored data has been uploaded in the company website and same will be updated periodically. PM ₁₀ , PM _{2.5} , Ammonia, SO ₂ , Ozone, HC & NO _x readings are being displayed at Factory Main Gate, Material Entry Gate and Technical Building Entrance. It is also connected to the TGPCB website. The environmental reports are submitted to the Regional Office, Ramagundam on monthly basis. Details of Ambient Air quality are enclosed. (Doc No.: RFCL-TS-EMC-Report-04)
vi)	In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/ materials, multi cyclone separator and water sprinkling system. Fugitive emissions in the work zone environment, product, raw material storage area etc shall be regularly monitored. The emissions should conform to the limits stipulated by the TSPCB.	Ammonia & Urea plants are Natural Gas based plants. For both feed & fuel, Natural gas is used. Urea dust collection and recovery systems (De-dusting System) are inline to control dust emission during product handling. Work place monitoring is carried out at regular interval, which helps to maintain emission level within the prescribed limit. Gas sensors are provided at potential points to monitor and control the fugitive emissions.
vii)	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG set to mitigate the noise pollution.	Stack height of DG set is as per CPCB standards. Acoustic enclosure has been provided to the DG set to mitigate the noise pollution.
viii)	Fresh water requirement from Yellampalli Barrage should not exceed 30500M ³ /day. Prior permission shall be obtained from Competent Authority and a copy submitted to the Ministry's Regional office at Bangalore. Efforts shall be made to bring down the water consumption upto 6 m ³ /MT urea production or as per CPCB guideline.	Fresh water drawn is below 30500 m ³ /day from Yellampalli Barrage. Continuous efforts are being done for water conservation. Process Condensate & Turbine Condensate are reused in Process.



S.NO	DESCRIPTION	COMPLIANCE STATUS
ix)	Industrial wastewater shall be treated in the ETP. As proposed, Urea plant process condensate shall be treated in a deep hydrolyser followed by stripping. Ammonia Plant process condensate(APC) shall be stripped with steam followed by activated carbon and demineralisation. Treated condensate shall be recycled/reused in the process. Utilities waste water shall be treated in the ETP and treated effluent shall be recycled/reused. Treated effluent shall be monitored for Ammonical Nitrogen, Nitrate, Fluoride, pH etc. No process effluent shall be discharged in and around the Project Site. Sewage shall be treated in STP.	• Urea plant process condensate is treated in a deep hydrolyser followed by stripping. • Ammonia Plant process condensate is stripped with steam followed by activated carbon. Total process condensate is converted into DM water and reused in the process. • Utility waste water is treated in ETP and treated water collected in guard ponds (02 Nos). • Online Monitoring system has been provided for the treated effluent parameters Ammoniacal Nitrogen, Flow & pH and same has been connected to the CPCB & TGPCB servers. Apart that BOD,COD &TSS also connected to the TGPCB server as per the directions from Task force. Details of Treated Effluent water Quality are enclosed. (Doc No.: RFCL-TS-EMC-Report 02) • Sewage generated inside the plant premises being treated in Plant STP. • Sewage Treatment Plant (STP) with a capacity of 240 KLD * 2 nos for the township was commissioned in Feb'23 and treated water is being utilized for development of Green belt area. Details of STP outlet Quality are enclosed. (Doc No.: RFCL-TS-EMC-Report-06)
x)	The treated effluent (not more than 250 M³/Hr) shall be discharged in to the River Godavari after conforming to the standards prescribed for the effluent discharge and after obtaining permission from the State Pollution Control Board/CPCB. Treated effluent shall be passed through guard pond/holding pond before discharging outside the plant premises and Automatic/ online monitoring system (24 x 7 monitoring devices) for flow and relevant pollutants (i.e. pH, Ammonical Nitrogen, nitrate nitrogen etc) shall be provided with high level alarm system. The data to be made available to the respective SPCB and in the Company's website.	The treated effluent conforms to the specified standards before discharging to River Godavari. Consent For Operation received from TSPCB dated 07.06.2021 (Consent Order No: 210523004209). Automatic/ online monitoring system (24 x 7) for flow and relevant pollutants (pH, Ammonical Nitrogen etc) has been provided with high level alarm system and same is connected to TGPCB & CPCB server. Apart that BOD,COD & TSS also connected to the TGPCB server as per the directions from Task force team. Treated effluent discharge to River Godavari always remains less than 250 m³/hr.
xi)	Regular monitoring of ground water by installing piezometric wells around the guard ponds and sludge disposal sites shall be periodically monitored and reports shall be submitted to the concerned Regional office of the Ministry, CPCB and SPCB.	Ground water quality is being monitored at eight different locations around the plant site & near by villages. Analysis reports are being submitted to RO, Ramagundam on monthly basis. Details of Ground water quality are enclosed. (Doc No.: RFCL-TS-EMC-Report-03)
xii)	The company shall construct the garland drain all around the project site to prevent runoff of any chemical containing waste in to the nearby waterbodies. Effluent shall be properly treated and treated effluent shall conform to CPCB standards.	Garland drains have been provided around project site. Storm water drains, effluent drains & oily water collection pits are constructed separately to avoid mixing of effluent with storm water.
xiii)	The Company shall obtain Authorisation for Collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules,2008 and amended as on date for management of Hazardous wastes. Measures shall be taken for fire fighting facilities in case of emergencies.	Hazardous Waste Authorisation received from TSPCB (HWA No: 210523004209) dated 07.06.2021 and the same was renewed in Apr'26 for 05 years (valid up to 31.03.2031) Adequate fire-fighting equipment and Fire water network are in place. There is a separate Fire & Safety department with well trained and experienced professionals to handle any such untoward situation.
xiv)	Spent Catalysts and used oil shall be sold to authorised recyclers/re-processors only.	Being Complied.
xv)	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules 1989 as amended time to time . All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA) 1989.	RFCL strictly complies with the rules and regulations regarding Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules 1989 as amended time to time and transportation of Spent catalyst/ Used oil as per the Motor Vehicle Act (MVA) 1989.



S.NO	DESCRIPTION	COMPLIANCE STATUS
xvi)	Remote Operated valve placed on NH ₃ line to avoid leakage/ equipment check shall be performed to ensure that remote operated valve (ROV) is all time functional.	Remote Operated valves are placed on NH ₃ line to avoid leakage. Performance of the remote operated valve (ROV) is checked periodically for its all time functionality.
xvii)	The company shall strictly follow all the recommendations mentioned in the Chapter on Corporate Responsibility for Environment Protection (CREP).	Being Complied.
xviii)	All the commitments made during the Public Hearing / Public Consultation meeting held on 11th March, 2015 shall be satisfactorily implemented and adequate budget provisions shall be made accordingly.	Being Complied, as applicable.
xix)	Sufficient funds shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial & physical breakup/ details shall be prepared & submitted to the Ministry's Regional Office at Bhopal. Implementation of such program shall be ensured in a time bound manner.	Noted.
xx)	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance system is in place and records are being maintained as per the Factory Act.
xxi)	As proposed, green belt over 46 Hectares area shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the Project Area in downward direction and along roadsides etc. Selection of plant species shall be as per CPCB guidelines in consultation with the DFO.	Green Belt Development under progress in a phased manner.
xxii)	Provision shall be made for the housing of the Construction labour within the site with all necessary infrastructure & facilities. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	Complied during, Construction phase.

B. GENERAL CONDITIONS

(i)	The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and any other statutory authority	All the conditions stipulated in CFE & CFO issued by TGPCB as well as conditions imposed by state authorities are complied with.
(ii)	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in 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.	Noted.
(iii)	The locations of ambient air quality monitoring stations shall be decided in consultation with the SPCB and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Three Continuous Ambient Air Quality Monitoring Stations (AAQMS) are installed one each in the upwind, downwind and crosswind directions at the following locations. 1. Technical Building 2. Material Gate 3. Fire Water Pump House All these monitoring stations are in operation. Real time data of Ambient air quality being transmitted to TGPCB website.



S.NO	DESCRIPTION	COMPLIANCE STATUS
(iv)	The overall noise level in and around the plant area shall be kept within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall conform to Environmental (Protection) Act , 1986 Rules 1989 viz. 75 dBA (day time) and 70 dBA (night time).	The selection of plant equipment have been done with the specifications of low noise levels. Adequate measure are being followed to control noise levels in the work environment and keep the noise levels below the prescribed limit. Persons working near the noisy machines like Ammonia plant compressor area, Urea Plant compressor area, GT etc. have been provided with well designed ear muffs / plugs. Emergency DG sets are equipped with acoustic enclosure. The ambient noise levels are being monitored at different locations and strictly conforming to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989. Details of Ambient Noise levels are enclosed. (Doc No.: RFCL-TS-EMC-Report-01)
(v)	The company shall harvest rainwater from the roof-tops of buildings and stormwater drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	RFCL has adopted roof top rain water harvesting measures to harvest the run off water to recharge the ground water.
(vi)	During transfer of materials, Spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic waste water and storm water drains.	Garland drains have been constructed to avoid mixing of accidental spillages with domestic waste and storm drains.
(vii)	Usage of Personnel Protection Equipment by all employees/ workers shall be ensured	Necessary PPEs are made available for the plant personnel and being used.
(viii)	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Training being provided for employees on safety and health aspects of chemical handling on regular basis. Periodic medical check-up of the working staff is being carried out.
(ix)	The company shall also comply with all the environmental protection measures and safeguards proposed in the project report submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	Being Complied, as applicable.
(x)	The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area.	Noted.
(xi)	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Being complied.
(xii)	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be setup to carry out the Environmental Management and Monitoring functions.	Environmental Management Cell equipped with full fledged laboratory facilities to carry out the Environmental Management and Monitoring functions is in place and operational.
(xiii)	The company shall earmark sufficient funds for recurring cost per annum 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 earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	Noted and complied with. Total expenditure incurred for the Environmental management during FY 25-26 is Rs. 9,47,06,055 (Doc No.: RFCL-TS-EMC-Exp-04)



S.NO	DESCRIPTION	COMPLIANCE STATUS
(xiv)	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZilaParisad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/representations, if any, were received while processing the proposal.	Complied.
(xv)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the State Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	Being complied.
(xvi)	The environmental statement for each financial year ending 31 st March in Form-'V' as is mandated shall be submitted to the WB 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 Bhubaneswar Regional Offices of MoEF by e-mail.	The environmental statement for the financial year ending 31 st March 2026 in Form-'V' will be submitted before 30.09.2026.
(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/Committee 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.	Complied.
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	Commercial Operation of Urea has been started on 22.03.2021 & same as intimated to the Regional Office and the Ministry.
8.0	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
9.0	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions.	Noted
10.0	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Air/ Water and HWA Consent order obtained on 07.06.2021 and valid for a period up to 31 st March 2026 and the same was renewed. Valid up to 31.03.2026. Public Liability Insurance policy is renewed and valid till 07.08.2026.





Ambient Noise Monitoring Report

Month

: January'2026

Ambient Noise Monitored by

: Environmental Monitoring Cell (EMC)

S. No	Location	Noise level- dB (A)			
		03.01.2026	09.01.2026	15.01.2026	27.01.2026
		Morning shift	Afternoon shift	Night shift	Morning shift
1	Technical building	52	53	52	54
2	Cooling Towers	70	71	69	72
3	Main Stores	46	48	47	48
4	UB/HRSG (near Boundary Wall)	69	67	68	67
5	Captive Power Plant (CPP)	70	72	69	71
6	Urea plant	69	66	67	66
7	Bagging building	66	63	62	68
8	IA/PA plant (Near wall side)	68	69	67	68
9	Near DG set	64	62	63	61
10	Raw water pump house	62	60	61	60

Month

: February'2026

Ambient Noise Monitored by

: Environmental Monitoring Cell (EMC)

S. No	Location	Noise level- dB (A)			
		04.02.2026	10.02.2026	18.02.2026	28.02.2026
		Morning shift	Afternoon shift	Night shift	Morning shift
1	Technical building	53	54	54	53
2	Cooling Towers	72	73	69	72
3	Main Stores	46	49	47	48
4	UB/HRSG (near Boundary Wall)	68	70	69	71
5	Captive Power Plant (CPP)	70	71	68	72
6	Urea plant	71	72	69	73
7	Bagging building	64	66	65	65
8	IA/PA plant (Near wall side)	72	73	67	73
9	Near DG set	64	64	63	63
10	Raw water pump house	61	62	61	60

Month

: March'2026

Ambient Noise Monitored by

: Environmental Monitoring Cell (EMC)

S. No	Location	Noise level- dB (A)			
		03.03.2026	12.03.2026	21.03.2026	28.03.2026
		Morning shift	Afternoon shift	Night shift	Morning shift
1	Technical building	54	55	59	50
2	Cooling Towers	72	73	69	68
3	Main Stores	45	43	48	53
4	UB/HRSG (near Boundary Wall)	67	65	63	58
5	Captive Power Plant (CPP)	71	70	64	55
6	Urea plant	72	71	68	53
7	Bagging building	63	64	69	50
8	IA/PA plant (Near wall side)	70	70	68	49
9	Near DG set	64	63	62	60
10	Raw water pump house	61	61	60	55

Note: 1. Noise level limits (as per CFO)

: Day Time (06:00AM -10:00PM) - 75 dB (A)
: Night Time (10:00PM -06:00AM) - 70 dB (A)

2. Morning shift Time

: 06:00AM - 02:00PM

3. Afternoon shift Time

: 02:00PM - 10:00PM

4. Night shift Time

: 10:00PM - 06:00AM





Ambient Noise Monitoring Report

Doc No: RFCL-TS-EMC-Report-01

Month : October'2025
Ambient Noise Monitored by : Environmental Monitoring Cell (EMC)

S. No	Location	Noise level- dB (A)			
		06.10.2025	14.10.2025	22.10.2025	28.10.2025
		Morning shift	Afternoon shift	Night shift	Morning shift
1	Technical building	55	55	54	69
2	Cooling Towers	71	72	67	69
3	Main Stores	51	53	54	49
4	UB/HRSG (near Boundary Wall)	70	70	69	65
5	Captive Power Plant (CPP)	73	72	69	72
6	Urea plant	73	73	68	68
7	Bagging building	64	65	63	58
8	IA/PA plant (Near wall side)	72	72	69	72
9	Near DG set	60	61	60	60
10	Raw water pump house	63	64	63	62

Month : November'2025
Ambient Noise Monitored by : Environmental Monitoring Cell (EMC)

S. No	Location	Noise level- dB (A)			
		06.11.2025	13.11.2025	20.11.2025	29.11.2025
		Morning shift	Afternoon shift	Night shift	Morning shift
1	Technical building	55	54	55	56
2	Cooling Towers	71	70	69	70
3	Main Stores	48	49	49	51
4	UB/HRSG (near Boundary Wall)	64	69	69	69
5	Captive Power Plant (CPP)	71	71	68	72
6	Urea plant	69	68	69	66
7	Bagging building	56	54	55	54
8	IA/PA plant (Near wall side)	70	70	69	71
9	Near DG set	58	59	57	54
10	Raw water pump house	66	65	63	64

Month : December'2025
Ambient Noise Monitored by : Environmental Monitoring Cell (EMC)

S. No	Location	Noise level- dB (A)			
		02.12.2025	08.12.2025	17.12.2025	26.12.2025
		Morning shift	Afternoon shift	Night shift	Morning shift
1	Technical building	54	55	53	53
2	Cooling Towers	70	71	68	70
3	Main Stores	48	49	47	49
4	UB/HRSG (near Boundary Wall)	69	70	69	71
5	Captive Power Plant (CPP)	70	71	68	72
6	Urea plant	68	68	66	68
7	Bagging building	56	54	53	54
8	IA/PA plant (Near wall side)	69	68	65	66
9	Near DG set	60	60	60	62
10	Raw water pump house	65	65	65	66

Note: 1. Noise level limits (as per CFO) : Day Time (06:00AM -10:00PM) - 75 dB (A)
: Night Time (10:00PM -06:00AM) - 70 dB (A)

2. Morning shift Time : 06:00AM - 02:00PM
3. Afternoon shift Time : 02:00PM - 10:00PM
4. Night shift Time : 10:00PM - 06:00AM



Treated Effluent Water Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-02

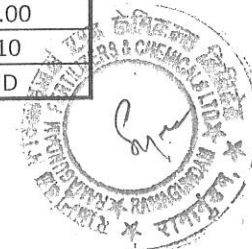
Month : OCTOBER'2025
Nature of Sampling : Treated Effluent Water
Sample collected and tested by : In- House Laboratory

Date of Sample Collection: : 20.10.2025

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	8.01	8.19	No Discharge to the river Godavari	7.84	8.33
2	Ammonical Nitrogen	mg/l as N	< 50	24.00	14.55		32.97	0.49
3	Free Ammonical Nitrogen	mg/l as N	< 2	1.20	1.16		1.32	0.05
4	Total kjeldahl Nitrogen	mg/l as N	< 75	35.90	30.40		44.20	8.30
5	Nitrate nitrogen	mg/l as N	< 10	0.48	2.15		1.60	3.50
6	Phosphate	mg/l as P	< 5	0.42	0.18		1.73	0.08
7	Suspended Solids	mg/l	< 100	20.00	20.00		19.00	2.00
8	BOD	mg/l	< 30	4.20	9.20		19.50	<2.0
9	COD	mg/l	< 250	21.00	44.00		84.00	7.00
10	Oil & Grease	mg/l	< 10	<10	<10		<10	<10
11	Vanadium	mg/l as V	< 0.2	ND	ND		ND	ND

Date of Sample Collection: : 27.10.2025

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	8.09	7.83	8.01	8.21	7.98
2	Ammonical Nitrogen	mg/l as N	< 50	18.60	34.41	33.69	9.89	4.32
3	Free Ammonical Nitrogen	mg/l as N	< 2	1.21	1.37	1.68	0.79	0.22
4	Total kjeldahl Nitrogen	mg/l as N	< 75	30.40	52.50	49.70	19.30	13.80
5	Nitrate nitrogen	mg/l as N	< 10	0.44	2.64	1.93	1.59	2.09
6	Phosphate	mg/l as P	< 5	0.35	0.16	0.12	1.21	0.11
7	Suspended Solids	mg/l	< 100	17.00	18.00	18.00	18.00	2.00
8	BOD	mg/l	< 30	5.40	4.80	6.70	14.50	<2.0
9	COD	mg/l	< 250	28.00	24.00	35.00	72.00	10.00
10	Oil & Grease	mg/l	< 10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	< 0.2	ND	ND	ND	ND	ND





Treated Effluent Water Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-02

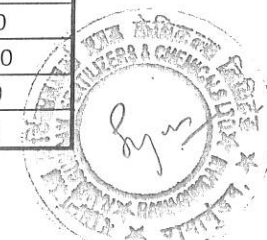
Month : OCTOBER'2025
 Nature of Sampling : Treated Effluent Water
 Sample collected and tested by : In- House Laboratory
 Date of Sample Collection : 07.10.2025

TEST RESULTS

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	7.73	7.71	7.88	8.11	7.93
2	Ammonical Nitrogen	mg/l as N	< 50	43.20	41.14	38.42	22.00	0.64
3	Free Ammonical Nitrogen	mg/l as N	< 2	1.29	1.23	1.73	1.43	0.03
4	Total kjeldahl Nitrogen	mg/l as N	< 75	55.20	52.50	55.20	35.90	11.00
5	Nitrate nitrogen	mg/l as N	< 10	0.83	1.80	1.02	1.20	1.75
6	Phosphate	mg/l as P	< 5	0.16	0.15	0.12	1.21	0.10
7	Suspended Solids	mg/l	< 100	20.00	20.00	24.00	20.00	3.00
8	BOD	mg/l	< 30	4.50	4.20	4.60	10.60	<2.0
9	COD	mg/l	< 250	20.00	24.00	24.00	45.00	14.00
10	Oil & Grease	mg/l	< 10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	< 0.2	ND	ND	ND	ND	ND

Date of Sample Collection: : 13.10.2025

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	7.93	7.26	7.61	8.05	8.01
2	Ammonical Nitrogen	mg/l as N	< 50	34.40	34.26	34.76	18.93	<0.1
3	Free Ammonical Nitrogen	mg/l as N	< 2	1.62	0.34	0.87	1.14	<0.1
4	Total kjeldahl Nitrogen	mg/l as N	< 75	46.90	49.70	49.70	30.40	8.30
5	Nitrate nitrogen	mg/l as N	< 10	0.77	1.93	1.86	0.81	2.27
6	Phosphate	mg/l as P	< 5	0.38	0.11	0.13	1.35	0.07
7	Suspended Solids	mg/l	< 100	19.00	21.00	20.00	33.00	5.00
8	BOD	mg/l	< 30	5.60	7.60	8.90	16.40	<2.0
9	COD	mg/l	< 250	35.00	34.00	35.00	75.00	12.00
10	Oil & Grease	mg/l	< 10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	< 0.2	ND	ND	ND	ND	ND



Treated Effluent Water Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-02

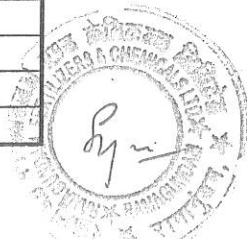
Month : NOVEMBER'2025
Nature of Sampling : Treated Effluent Water
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 01.11.2025

TEST RESULTS

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	8.19	8.04	8.09	8.28	7.96
2	Ammonical Nitrogen	mg/l as N	< 50	12.40	8.05	7.62	15.12	<0.1
3	Free Ammonical Nitrogen	mg/l as N	< 2	0.99	0.48	0.49	1.51	<0.1
4	Total kjeldahl Nitrogen	mg/l as N	< 75	22.20	19.46	19.46	33.37	11.10
5	Nitrate nitrogen	mg/l as N	< 10	1.64	1.41	1.30	2.21	3.13
6	Phosphate	mg/l as P	< 5	0.10	0.16	0.11	1.26	0.34
7	Suspended Solids	mg/l	< 100	39.00	18.00	24.00	28.00	8.00
8	BOD	mg/l	< 30	7.20	3.60	3.40	19.00	<2.0
9	COD	mg/l	< 250	45.00	18.00	16.00	100.00	13.00
10	Oil & Grease	mg/l	< 10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	< 0.2	ND	ND	ND	ND	ND

Date of Sample Collection: : 10.11.2025

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	6.93	7.26	7.03	8.09	8.01
2	Ammonical Nitrogen	mg/l as N	< 50	24.60	32.97	32.11	30.10	<0.1
3	Free Ammonical Nitrogen	mg/l as N	< 2	Nil	0.33	Nil	1.96	<0.1
4	Total kjeldahl Nitrogen	mg/l as N	< 75	38.93	47.27	47.27	50.05	8.34
5	Nitrate nitrogen	mg/l as N	< 10	2.56	2.01	2.04	3.12	3.03
6	Phosphate	mg/l as P	< 5	0.13	0.12	0.13	1.90	0.12
7	Suspended Solids	mg/l	< 100	20.00	20.00	20.00	30.00	10.00
8	BOD	mg/l	< 30	4.70	5.70	4.80	18.00	<2.0
9	COD	mg/l	< 250	35.00	20.00	27.00	95.00	10.00
10	Oil & Grease	mg/l	< 10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	< 0.2	ND	ND	ND	ND	ND



Treated Effluent Water Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-02

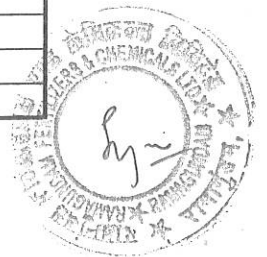
Month : NOVEMBER'2025
Nature of Sampling : Treated Effluent Water
Sample collected and tested by : In- House Laboratory

Date of Sample Collection: : 17.11.2025

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	No Sample	8.26	8.20	8.03	7.92
2	Ammonical Nitrogen	mg/l as N	< 50		0.32	0.26	20.78	<0.1
3	Free Ammonical Nitrogen	mg/l as N	< 2		0.03	0.02	1.25	<0.1
4	Total kjeldahl Nitrogen	mg/l as N	< 75		13.90	11.12	38.93	11.10
5	Nitrate nitrogen	mg/l as N	< 10		2.79	2.68	4.91	3.19
6	Phosphate	mg/l as P	< 5		0.27	0.32	1.10	0.10
7	Suspended Solids	mg/l	< 100		25.00	28.00	22.00	6.00
8	BOD	mg/l	< 30		4.80	7.50	23.00	<2.0
9	COD	mg/l	< 250		26.00	35.00	120.00	9.00
10	Oil & Grease	mg/l	< 10		<10	<10	<10	<10
11	Vanadium	mg/l as V	< 0.2		ND	ND	ND	ND

Date of Sample Collection: : 25.11.2026

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	6.88	7.76	No Discharge to River Godavari	7.56	8.05
2	Ammonical Nitrogen	mg/l as N	< 50	22.50	2.70		2.91	0.20
3	Free Ammonical Nitrogen	mg/l as N	< 2	Nil	0.09		0.07	<0.1
4	Total kjeldahl Nitrogen	mg/l as N	< 75	36.15	13.90		19.46	11.10
5	Nitrate nitrogen	mg/l as N	< 10	2.73	2.60		1.04	2.65
6	Phosphate	mg/l as P	< 5	0.23	0.10		2.49	0.15
7	Suspended Solids	mg/l	< 100	16.00	16.00		32.00	5.00
8	BOD	mg/l	< 30	8.30	8.90		24.00	<2.0
9	COD	mg/l	< 250	45.00	28.00		125.00	10.00
10	Oil & Grease	mg/l	< 10	<10	<10		<10	<10
11	Vanadium	mg/l as V	< 0.2	ND	ND		ND	ND



Treated Effluent Water Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-02

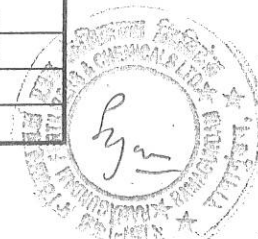
Month : DECEMBER'2025
Nature of Sampling : Treated Effluent Water
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 01.12.2025

TEST RESULTS

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	8.15	7.21	7.45	8.33	8.09
2	Ammonical Nitrogen	mg/l as N	< 50	18.00	27.81	29.53	7.42	<0.1
3	Free Ammonical Nitrogen	mg/l as N	< 2	1.31	0.28	0.44	0.83	<0.1
4	Total kjeldahl Nitrogen	mg/l as N	< 75	33.40	44.50	44.50	33.40	11.10
5	Nitrate nitrogen	mg/l as N	< 10	2.30	1.93	1.67	4.57	2.40
6	Phosphate	mg/l as P	< 5	0.14	0.16	0.11	1.65	0.07
7	Suspended Solids	mg/l	< 100	26.00	19.00	20.00	15.00	8.00
8	BOD	mg/l	< 30	8.40	9.40	7.60	19.30	<2.0
9	COD	mg/l	< 250	36.00	38.00	35.00	80.00	9.00
10	Oil & Grease	mg/l	< 10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	< 0.2	ND	ND	ND	ND	ND

Date of Sample Collection: : 08.12.2025

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	7.89	8.03	8.07	8.06	8.34
2	Ammonical Nitrogen	mg/l as N	< 50	26.38	5.27	5.39	23.80	0.62
3	Free Ammonical Nitrogen	mg/l as N	< 2	1.19	0.32	0.35	1.43	0.06
4	Total kjeldahl Nitrogen	mg/l as N	< 75	44.50	22.20	19.50	50.10	13.90
5	Nitrate nitrogen	mg/l as N	< 10	2.64	2.19	2.19	3.05	2.05
6	Phosphate	mg/l as P	< 5	0.12	0.18	0.51	1.83	0.07
7	Suspended Solids	mg/l	< 100	27.00	19.00	25.00	16.00	7.00
8	BOD	mg/l	< 30	5.20	7.60	7.10	13.10	<2.0
9	COD	mg/l	< 250	26.00	32.00	30.00	65.00	8.00
10	Oil & Grease	mg/l	< 10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	< 0.2	ND	ND	ND	ND	ND



Treated Effluent Water Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-02

Month : DECEMBER'2025
 Nature of Sampling : Treated Effluent Water
 Sample collected and tested by : In- House Laboratory

Date of Sample Collection: : 15.12.2025

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	8.07	6.97	7.01	7.95	8.10
2	Ammonical Nitrogen	mg/l as N	< 50	20.07	14.19	13.26	12.54	1.02
3	Free Ammonical Nitrogen	mg/l as N	< 2	1.30	Nil	Nil	0.59	0.06
4	Total kjeldahl Nitrogen	mg/l as N	< 75	38.90	27.80	33.40	36.20	13.90
5	Nitrate nitrogen	mg/l as N	< 10	1.97	2.23	2.90	2.23	1.83
6	Phosphate	mg/l as P	< 5	0.22	0.29	0.23	1.86	0.10
7	Suspended Solids	mg/l	< 100	23.00	14.00	24.00	25.00	7.00
8	BOD	mg/l	< 30	5.60	6.40	5.40	16.70	<2.0
9	COD	mg/l	< 250	28.00	26.00	22.00	75.00	12.00
10	Oil & Grease	mg/l	< 10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	< 0.2	ND	ND	ND	ND	ND

Date of Sample Collection: : 22.12.2025

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	8.32	8.24	8.26	8.01	8.25
2	Ammonical Nitrogen	mg/l as N	< 50	18.92	2.19	2.58	9.86	<0.1
3	Free Ammonical Nitrogen	mg/l as N	< 2	1.89	0.19	0.23	0.41	<0.1
4	Total kjeldahl Nitrogen	mg/l as N	< 75	36.20	16.70	16.70	30.60	8.34
5	Nitrate nitrogen	mg/l as N	< 10	2.75	1.93	2.01	3.05	1.14
6	Phosphate	mg/l as P	< 5	0.25	0.14	0.10	1.81	0.15
7	Suspended Solids	mg/l	< 100	21.00	13.00	25.00	26.00	6.00
8	BOD	mg/l	< 30	8.70	8.50	8.50	15.60	<2.0
9	COD	mg/l	< 250	40.00	39.00	37.00	70.00	10.00
10	Oil & Grease	mg/l	< 10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	< 0.2	ND	ND	ND	ND	ND



Treated Effluent Water Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-02

Month : DECEMBER'2025
Nature of Sampling : Treated Effluent Water
Sample collected and tested by : In- House Laboratory

Date of Sample Collection: : 30.12.2025

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	6.92	7.58	No discharge towards River Godavari.	7.71	8.25
2	Ammonical Nitrogen	mg/l as N	< 50	33.55	15.05		39.14	<0.1
3	Free Ammonical Nitrogen	mg/l as N	< 2	Nil	0.37		1.17	<0.1
4	Total kjeldahl Nitrogen	mg/l as N	< 75	47.30	30.60		55.60	8.34
5	Nitrate nitrogen	mg/l as N	< 10	1.97	1.63		3.46	1.28
6	Phosphate	mg/l as P	< 5	0.18	0.16		1.90	0.10
7	Suspended Solids	mg/l	< 100	17.00	10.00		18.00	5.00
8	BOD	mg/l	< 30	6.40	4.20		19.50	<2.0
9	COD	mg/l	< 250	32.00	19.00		90.00	10.00
10	Oil & Grease	mg/l	< 10	<10	<10		<10	<10
11	Vanadium	mg/l as V	< 0.2	ND	ND		ND	ND





Treated Effluent Water Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-02

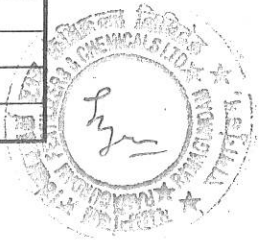
Month : JANUARY'2026
 Nature of Sampling : Treated Effluent Water
 Sample collected and tested by : In- House Laboratory
 Date of Sample Collection : 06.01.2026

TEST RESULTS

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	7.91	8.02	No Discharge Towards River Godavari	8.35	8.43
2	Ammonical Nitrogen	mg/l as N	< 50	38.40	8.90		15.10	0.30
3	Free Ammonical Nitrogen	mg/l as N	< 2	1.70	0.50		1.70	<0.1
4	Total kjeldahl Nitrogen	mg/l as N	< 75	55.86	25.13		33.52	8.37
5	Nitrate nitrogen	mg/l as N	< 10	2.40	1.60		3.60	3.10
6	Phosphate	mg/l as P	< 5	0.20	0.30		1.40	0.20
7	Suspended Solids	mg/l	< 100	13.00	28.00		10.00	14.00
8	BOD	mg/l	< 30	6.40	5.10		18.50	<2.0
9	COD	mg/l	< 250	26.00	25.00		90.00	12.00
10	Oil & Grease	mg/l	< 10	<10	<10		<10	<10
11	Vanadium	mg/l as V	< 0.2	ND	ND		ND	ND

Date of Sample Collection: : 12.01.2026

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	8.01	8.21	8.19	8.30	8.25
2	Ammonical Nitrogen	mg/l as N	< 50	22.50	12.30	13.30	15.90	<0.1
3	Free Ammonical Nitrogen	mg/l as N	< 2	1.10	1.00	0.10	0.20	<0.1
4	Total kjeldahl Nitrogen	mg/l as N	< 75	41.89	30.72	30.72	33.52	8.37
5	Nitrate nitrogen	mg/l as N	< 10	1.80	1.20	1.30	3.80	4.70
6	Phosphate	mg/l as P	< 5	0.21	0.20	0.20	1.10	0.20
7	Suspended Solids	mg/l	< 100	20.00	33.00	23.00	17.00	7.00
8	BOD	mg/l	< 30	7.20	5.60	5.40	19.20	<2.0
9	COD	mg/l	< 250	28.00	25.00	26.00	85.00	16.00
10	Oil & Grease	mg/l	< 10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	< 0.2	ND	ND	ND	ND	ND





Treated Effluent Water Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-02

Month : JANUARY'2026
Nature of Sampling : Treated Effluent Water
Sample collected and tested by : In- House Laboratory

Date of Sample Collection: : 19.01.2026

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	8.03	7.22	7.27	7.57	7.89
2	Ammonical Nitrogen	mg/l as N	< 50	25.09	11.50	11.80	26.70	1.00
3	Free Ammonical Nitrogen	mg/l as N	< 2	1.50	0.10	0.10	0.70	<0.1
4	Total kjeldahl Nitrogen	mg/l as N	< 75	47.48	27.93	27.93	44.68	8.37
5	Nitrate nitrogen	mg/l as N	< 10	2.60	1.70	1.50	4.50	2.80
6	Phosphate	mg/l as P	< 5	0.24	0.20	0.10	1.20	0.10
7	Suspended Solids	mg/l	< 100	92.00	30.00	21.00	20.00	38.00
8	BOD	mg/l	< 30	7.10	6.30	6.10	16.80	<2.0
9	COD	mg/l	< 250	30.00	28.00	29.00	78.00	13.00
10	Oil & Grease	mg/l	< 10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	< 0.2	ND	ND	ND	ND	ND

Date of Sample Collection: : 26.01.2026

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	8.07	8.05	7.93	8.01	8.01
2	Ammonical Nitrogen	mg/l as N	< 50	15.49	12.30	13.10	15.10	0.10
3	Free Ammonical Nitrogen	mg/l as N	< 2	0.90	0.70	0.60	0.80	<0.1
4	Total kjeldahl Nitrogen	mg/l as N	< 75	36.31	27.93	27.93	36.30	5.58
5	Nitrate nitrogen	mg/l as N	< 10	2.40	1.10	1.30	4.10	2.90
6	Phosphate	mg/l as P	< 5	0.57	0.10	0.20	1.10	0.20
7	Suspended Solids	mg/l	< 100	10.00	16.00	18.00	44.00	9.00
8	BOD	mg/l	< 30	8.40	7.50	7.40	17.40	<2.0
9	COD	mg/l	< 250	44.00	37.00	34.00	82.00	15.00
10	Oil & Grease	mg/l	< 10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	< 0.2	ND	ND	ND	ND	ND





Treated Effluent Water Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-02

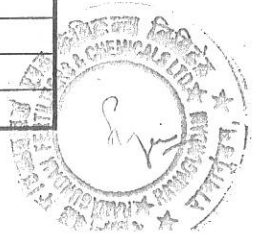
Month : FEBRUARY'2026
Nature of Sampling : Treated Effluent Water
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 03.02.2026

TEST RESULTS

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	7.73	6.86	6.90	7.84	8.37
2	Ammonical Nitrogen	mg/l as N	< 50	28.67	26.23	26.23	20.78	<0.1
3	Free Ammonical Nitrogen	mg/l as N	< 2	0.86	Nil	Nil	0.83	<0.1
4	Total kjeldahl Nitrogen	mg/l as N	< 75	47.00	44.20	44.20	44.20	11.10
5	Nitrate nitrogen	mg/l as N	< 10	3.16	1.41	1.41	3.35	2.08
6	Phosphate	mg/l as P	< 5	0.61	0.12	0.16	1.77	0.10
7	Suspended Solids	mg/l	< 100	14.00	17.00	11.00	21.00	8.00
8	BOD	mg/l	< 30	12.60	8.60	12.40	15.10	<2.0
9	COD	mg/l	< 250	64.00	39.00	65.00	65.00	10.00
10	Oil & Grease	mg/l	< 10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	< 0.2	ND	ND	ND	ND	ND

Date of Sample Collection: : 10.02.2026

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	8.06	8.21	8.06	8.25	8.26
2	Ammonical Nitrogen	mg/l as N	< 50	17.06	5.80	5.37	18.49	<0.1
3	Free Ammonical Nitrogen	mg/l as N	< 2	1.02	0.46	0.32	1.66	<0.1
4	Total kjeldahl Nitrogen	mg/l as N	< 75	36.00	19.40	22.10	41.50	8.30
5	Nitrate nitrogen	mg/l as N	< 10	3.31	1.52	1.74	1.93	1.97
6	Phosphate	mg/l as P	< 5	0.35	0.10	0.14	1.86	0.10
7	Suspended Solids	mg/l	< 100	20.00	15.00	25.00	31.00	14.00
8	BOD	mg/l	< 30	13.30	8.00	9.20	12.60	<2.0
9	COD	mg/l	< 250	67.00	35.00	41.00	50.00	12.00
10	Oil & Grease	mg/l	< 10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	< 0.2	ND	ND	ND	ND	ND



Treated Effluent Water Quality Monitoring Results

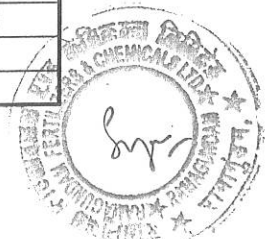
Doc No: RFCL-TS-EMC-Report-02

Month : FEBRUARY'2026
Nature of Sampling : Treated Effluent Water
Sample collected and tested by : In- House Laboratory
Date of Sample Collection: : 16.02.2026

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	7.56	7.61	7.48	7.84	8.22
2	Ammonical Nitrogen	mg/l as N	< 50	23.51	17.56	18.63	30.00	<0.1
3	Free Ammonical Nitrogen	mg/l as N	< 2	0.58	0.43	0.37	1.20	<0.1
4	Total kjeldahl Nitrogen	mg/l as N	< 75	41.50	33.20	36.00	49.80	8.30
5	Nitrate nitrogen	mg/l as N	< 10	1.22	1.37	1.48	2.64	1.22
6	Phosphate	mg/l as P	< 5	0.37	0.10	0.15	1.94	0.10
7	Suspended Solids	mg/l	< 100	16.00	32.00	17.00	27.00	3.00
8	BOD	mg/l	< 30	10.40	10.80	10.90	19.70	<2.0
9	COD	mg/l	< 250	52.00	50.00	52.00	85.00	12.00
10	Oil & Grease	mg/l	< 10	< 10	< 10	< 10	< 10	< 10
11	Vanadium	mg/l as V	< 0.2	ND	ND	ND	ND	ND

Date of Sample Collection: : 24.02.2026

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	7.21	8.06	No Discharge From RFCL to Godavari River	7.81	8.29
2	Ammonical Nitrogen	mg/l as N	< 50	16.48	12.61		28.53	<0.1
3	Free Ammonical Nitrogen	mg/l as N	< 2	0.16	0.76		1.00	<0.1
4	Total kjeldahl Nitrogen	mg/l as N	< 75	36.00	30.40		47.00	8.30
5	Nitrate nitrogen	mg/l as N	< 10	2.15	2.12		2.20	1.27
6	Phosphate	mg/l as P	< 5	0.10	0.10		1.54	0.18
7	Suspended Solids	mg/l	< 100	21.00	25.00		23.00	11.00
8	BOD	mg/l	< 30	10.80	11.20		20.60	<2.0
9	COD	mg/l	< 250	56.00	57.00		92.00	10.00
10	Oil & Grease	mg/l	< 10	<10	<10		<10	<10
11	Vanadium	mg/l as V	< 0.2	ND	ND		ND	ND





Treated Effluent Water Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-02

Month : MARCH'2026
Nature of Sampling : Treated Effluent Water
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 03.03.2026

TEST RESULTS

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	8.04	8.06	8.01	8.12	8.06
2	Ammonical Nitrogen	mg/l as N	< 50	14.33	6.66	8.21	17.80	<0.1
3	Free Ammonical Nitrogen	mg/l as N	< 2	0.90	0.40	0.40	1.30	<0.1
4	Total kjeldahl Nitrogen	mg/l as N	< 75	27.90	16.70	19.50	39.10	8.40
5	Nitrate nitrogen	mg/l as N	< 10	1.82	1.04	1.00	2.97	1.26
6	Phosphate	mg/l as P	< 5	0.10	0.10	0.10	0.68	0.68
7	Suspended Solids	mg/l	< 100	30.00	32.00	29.00	21.00	5.00
8	BOD	mg/l	< 30	6.00	6.60	6.50	11.80	<2.0
9	COD	mg/l	< 250	34.00	34.00	36.00	66.00	12.00
10	Oil & Grease	mg/l	< 10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	< 0.2	ND	ND	ND	ND	ND

Date of Sample Collection: : 09.03.2026

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	8.29	7.86	7.85	8.39	8.36
2	Ammonical Nitrogen	mg/l as N	< 50	6.54	2.69	2.87	17.43	<0.1
3	Free Ammonical Nitrogen	mg/l as N	< 2	0.70	0.10	0.10	2.00	<0.1
4	Total kjeldahl Nitrogen	mg/l as N	< 75	19.50	13.90	13.90	41.80	8.40
5	Nitrate nitrogen	mg/l as N	< 10	2.23	1.11	1.19	4.35	2.25
6	Phosphate	mg/l as P	< 5	0.10	0.10	0.10	0.84	0.36
7	Suspended Solids	mg/l	< 100	35.00	28.00	28.00	26.00	7.00
8	BOD	mg/l	< 30	9.20	10.60	10.20	15.50	<2.0
9	COD	mg/l	< 250	48.00	59.00	55.00	78.00	10.00
10	Oil & Grease	mg/l	< 10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	< 0.2	ND	ND	ND	ND	ND





Treated Effluent Water Quality Monitoring Results

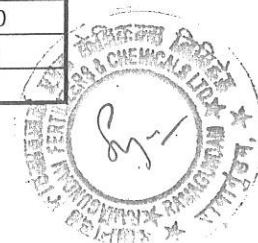
Doc No: RFCL-TS-EMC-Report-02

Month : MARCH 2026
 Nature of Sampling : Treated Effluent Water
 Sample collected and tested by : In- House Laboratory
 Date of Sample Collection: : 16.03.2026

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	8.25	7.92	7.83	8.02	8.31
2	Ammonical Nitrogen	mg/l as N	< 50	13.71	7.98	8.83	16.16	5.26
3	Free Ammonical Nitrogen	mg/l as N	< 2	1.20	0.40	0.40	1.00	0.50
4	Total kjeldahl Nitrogen	mg/l as N	< 75	30.60	22.20	25.00	36.10	13.90
5	Nitrate nitrogen	mg/l as N	< 10	2.45	1.48	1.72	5.40	1.77
6	Phosphate	mg/l as P	< 5	0.10	0.13	0.14	1.24	0.10
7	Suspended Solids	mg/l	< 100	30.00	29.00	23.00	20.00	13.00
8	BOD	mg/l	< 30	8.10	7.80	8.40	12.40	<2.0
9	COD	mg/l	< 250	39.00	35.00	42.00	64.00	13.00
10	Oil & Grease	mg/l	< 10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	< 0.2	ND	ND	ND	ND	ND

Date of Sample Collection: : 23.03.2026

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	8.01	7.61	7.73	8.28	7.81
2	Ammonical Nitrogen	mg/l as N	< 50	29.75	22.47	22.93	13.40	3.87
3	Free Ammonical Nitrogen	mg/l as N	< 2	1.50	0.60	0.70	1.30	0.10
4	Total kjeldahl Nitrogen	mg/l as N	< 75	50.00	38.90	44.50	33.30	11.10
5	Nitrate nitrogen	mg/l as N	< 10	2.06	1.21	1.15	5.67	2.06
6	Phosphate	mg/l as P	< 5	0.10	0.10	0.10	1.30	0.12
7	Suspended Solids	mg/l	< 100	25.00	27.00	22.00	30.00	8.00
8	BOD	mg/l	< 30	7.80	8.10	9.60	16.80	<2.0
9	COD	mg/l	< 250	38.00	36.00	49.00	80.00	10.00
10	Oil & Grease	mg/l	< 10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	< 0.2	ND	ND	ND	ND	ND



Treated Effluent Water Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-02

Month : MARCH'2026
Nature of Sampling : Treated Effluent Water
Sample collected and tested by : In- House Laboratory

Date of Sample Collection: : 30.03.2026

S.No	Parameters	Unit	Limiting Standards	Guard Pond 1	Guard Pond 2	Treated Effluent Pump Discharge	Strom water Pit	Material Gate Trench
1	pH.		6.5-8.5	8.05	7.96	8.19	8.43	8.35
2	Ammonical Nitrogen	mg/l as N	< 50	12.46	16.42	18.20	13.87	<0.1
3	Free Ammonical Nitrogen	mg/l as N	< 2	0.80	0.80	1.50	1.80	<0.1
4	Total kjeldahl Nitrogen	mg/l as N	< 75	28.00	30.80	36.40	30.80	5.60
5	Nitrate nitrogen	mg/l as N	< 10	1.97	1.39	1.37	4.37	1.85
6	Phosphate	mg/l as P	< 5	0.25	0.24	0.22	1.30	0.25
7	Suspended Solids	mg/l	< 100	38.00	23.00	25.00	23.00	5.00
8	BOD	mg/l	< 30	8.50	8.80	8.80	14.20	<2.0
9	COD	mg/l	< 250	40.00	43.00	40.00	70.00	12.00
10	Oil & Grease	mg/l	< 10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	< 0.2	ND	ND	ND	ND	ND





Ground Water Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-03

Month : OCTOBER'2025
Nature of Sampling : Ground Water
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 10.10.2025

TEST RESULTS

S.No	Parameters	Limiting Standards	Factory Premises					Nearby Villages		
			Central Workshop	Technical Building	Near Guard Pond	Guest House	Inside Township	Veerlapalli	Elkalapalli	Gouthami Nagar
1	Temperature	30 degC	26.50	26.00	27.00	26.00	27.00	26.00	26.00	26.00
2	pH	6.5-8.5	7.35	8.20	7.67	8.15	7.00	7.39	7.20	7.39
3	Conductivity	< 2600 uS/cm	1240.00	470.00	1345.00	610.00	772.00	1383.00	1152.00	1443.00
4	BOD	< 2.0 mg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
5	Nitrate as N	< 45 mg/L	0.30	0.96	0.59	0.32	0.36	12.20	15.60	11.20
6	Chloride	<250 mg/L	74.60	44.80	93.60	67.30	67.30	89.60	107.50	105.00
7	Dissolved Oxygen	>6 mg/L	6.10	6.50	6.00	6.10	6.10	6.00	6.10	6.10
8	Ammonia as N	<0.5 mg/L	<0.10	<0.10	0.45	<0.10	<0.10	<0.10	<0.10	<0.10
9	Total coliform (MNP/100ml)	< 50	NT	NT	NT	NT	NT	NT	NT	NT





Ground Water Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-03

Month : NOVEMBER'2025
Nature of Sampling : Ground Water
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 10.11.2025

TEST RESULTS

S.No	Parameters	Limiting Standards	Factory Premises					Nearby Villages		
			Central Workshop	Technical Building	Near Guard Pond	Guest House	Inside Township	Veerlapalli	Elkalapalli	Gouthami Nagar
1	Temperature	30 degC	27.00	27.50	27.50	27.00	27.00	27.50	28.00	27.50
2	pH	6.5-8.5	7.45	7.95	7.67	7.92	6.82	7.10	6.97	7.37
3	Conductivity	< 2600 uS/cm	1310.00	520.00	1380.00	670.00	760.00	1288.00	1127.00	1362.00
4	BOD	< 2.0 mg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
5	Nitrate as N	< 45 mg/L	0.28	1.04	0.65	0.36	0.27	16.78	15.57	9.04
6	Chloride	<250 mg/L	68.20	46.80	100.50	58.50	66.10	81.60	99.10	106.90
7	Dissolved Oxygen	>6 mg/L	6.10	6.30	6.00	6.10	6.40	6.00	6.10	6.10
8	Ammonia as N	<0.5 mg/L	<0.10	<0.10	0.48	<0.10	<0.10	<0.10	<0.10	<0.10
9	Total coliform (MNP/100ml)	< 50	NT	NT	NT	NT	NT	NT	NT	NT





Ground Water Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-03

Month : DECEMBER'2025
Nature of Sampling : Ground Water
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 15.12.2025

TEST RESULTS

S.No	Parameters	Limiting Standards	Factory Premises					Nearby Villages		
			Central Workshop	Technical Building	Near Guard Pond	Guest House	Inside Township	Veerlapalli	Elkalapalli	Gouthami Nagar
1	Temperature	30 degC	28.00	27.00	28.00	27.00	26.00	28.00	27.00	28.00
2	pH	6.5-8.5	8.21	8.07	7.54	7.92	7.90	7.36	7.20	7.51
3	Conductivity	< 2600 uS/cm	1251.00	528.00	1403.00	670.00	574.00	1326.00	1164.00	1275.00
4	BOD	< 2.0 mg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
5	Nitrate as N	< 45 mg/L	0.52	1.30	0.40	0.36	1.20	19.30	4.50	9.23
6	Chloride	<250 mg/L	84.60	59.02	110.00	58.50	54.40	91.40	109.00	97.19
7	Dissolved Oxygen	>6 mg/L	6.10	6.90	6.20	6.10	6.80	6.20	6.10	6.00
8	Ammonia as N	<0.5 mg/L	<0.10	<0.10	0.40	<0.10	<0.10	<0.10	<0.10	<0.10
9	Total coliform (MNP/100ml)	< 50	NT	NT	NT	NT	NT	NT	NT	NT





Ground Water Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-03

Month : JANUARY'2026
Nature of Sampling : Ground Water
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 02.01.2026

TEST RESULTS

S.No	Parameters	Limiting Standards	Factory Premises					Nearby Villages		
			Central Workshop	Technical Building	Near Guard Pond	Guest House	Inside Township	Veerlapalli	Elkalapalli	Gouthami Nagar
1	Temperature	30 degC	27.00	27.00	27.50	27.00	27.50	27.00	27.00	27.50
2	pH	6.5-8.5	7.54	7.95	7.60	7.81	6.96	7.26	6.95	7.42
3	Conductivity	< 2600 uS/cm	1246.00	560.00	1470.00	650.00	782.00	1429.00	1289.00	1099.00
4	BOD	< 2.0 mg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
5	Nitrate as N	< 45 mg/L	0.29	0.55	0.52	0.28	1.10	20.60	6.66	7.60
6	Chloride	<250 mg/L	89.40	57.80	111.00	53.60	57.80	97.60	113.60	87.70
7	Dissolved Oxygen	>6 mg/L	6.10	6.80	6.20	6.10	6.60	6.00	6.00	6.00
8	Ammonia as N	<0.5 mg/L	<0.10	<0.10	0.45	<0.10	<0.10	<0.10	<0.10	<0.10
9	Total coliform (MNP/100ml)	< 50	NT	NT	NT	NT	NT	NT	NT	NT





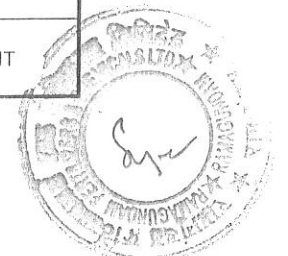
Ground Water Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-03

Month : FEBRUARY'2026
Nature of Sampling : Ground Water
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 06.02.2026

TEST RESULTS

S.No	Parameters	Limiting Standards	Factory Premises					Nearby Villages		
			Central Workshop	Technical Building	Near Guard Pond	Guest House	Inside Township	Veerlapalli	Elkalapalli	Gouthami Nagar
1	Temperature	30 degC	28.00	28.00	27.50	27.50	28.00	28.00	28.00	28.00
2	pH	6.5-8.5	7.59	8.22	7.43	7.75	7.45	7.37	7.25	7.60
3	Conductivity	< 2600 uS/cm	1238.00	555.00	1723.00	670.00	607.00	1459.00	1336.00	1256.00
4	BOD	< 2.0 mg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
5	Nitrate as N	< 45 mg/L	0.63	0.78	0.33	0.34	1.15	23.86	7.51	7.66
6	Chloride	<250 mg/L	89.40	56.40	132.20	54.50	64.10	106.90	122.00	91.40
7	Dissolved Oxygen	>6 mg/L	6.10	6.70	6.00	6.10	6.50	6.00	6.00	6.30
8	Ammonia as N	<0.5 mg/L	<0.10	<0.10	0.45	<0.10	<0.10	<0.10	<0.10	<0.10
9	Total coliform (MNP/100ml)	< 50	NT	NT	NT	NT	NT	NT	NT	NT





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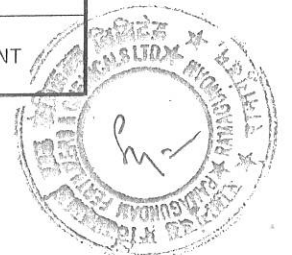
Ground Water Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-03

Month : MARCH'2026
Nature of Sampling : Ground Water
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 04.03.2026

TEST RESULTS

S.No	Parameters	Limiting Standards	Factory Premises					Nearby Villages		
			Central Workshop	Technical Building	Near Guard Pond	Guest House	Inside Township	Veerlapalli	Elkalapalli	Gouthami Nagar
1	Temperature	30 degC	27.50	27.50	28.00	28.00	27.50	27.50	28.00	27.50
2	pH	6.5-8.5	7.65	8.18	7.52	8.11	6.88	7.48	7.39	7.68
3	Conductivity	< 2600 uS/cm	1230.00	536.00	1510.00	538.00	969.00	135.00	1296.00	1201.00
4	BOD	< 2.0 mg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
5	Nitrate as N	< 45 mg/L	0.33	0.84	0.36	0.29	1.22	20.20	8.52	7.20
6	Chloride	<250 mg/L	85.00	53.40	112.70	57.30	71.00	110.00	114.00	86.80
7	Dissolved Oxygen	>6 mg/L	5.50	6.80	5.40	6.70	6.10	6.20	5.60	6.00
8	Ammonia as N	<0.5 mg/L	0.15	<0.10	1.35	<0.10	<0.10	<0.10	<0.10	<0.10
9	Total coliform (MNP/100ml)	< 50	NT	NT	NT	NT	NT	NT	NT	NT



Ambient Air Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-04

Month : OCTOBER'2025
Nature of Sampling : Ambient Air
Sample collected and tested by : In- House Laboratory

TEST RESULTS

Location : Technical Building

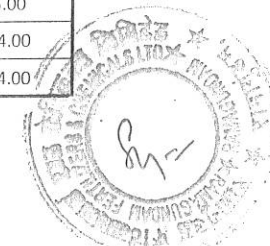
S.No	Parameters	Unit	Permissible limits (NAAQS)	04.10.2026	06.10.2026	09.10.2026	13.10.2025	16.10.2026	20.10.2026	24.10.2026	27.10.2026	31.10.2026
1	SOx	$\mu\text{g}/\text{m}^3$	80	1.40	1.80	1.60	1.80	1.60	2.40	2.10	2.40	1.30
2	NOx	$\mu\text{g}/\text{m}^3$	80	11.30	11.30	8.20	7.70	8.40	12.40	13.00	8.40	8.20
3	NH3	$\mu\text{g}/\text{m}^3$	400	14.00	20.00	18.00	34.00	26.00	19.00	24.00	32.00	2.00
4	PM10	$\mu\text{g}/\text{m}^3$	100	76.00	69.00	61.00	60.00	62.00	84.00	92.00	80.00	84.00
5	PM2.5	$\mu\text{g}/\text{m}^3$	60	26.00	23.00	22.00	28.00	32.00	38.00	46.00	36.00	24.00

Location : Material Gate

S.No.	Parameters	Unit	Permissible limits (NAAQS)	04.10.2026	06.10.2026	09.10.2026	13.10.2025	16.10.2026	20.10.2026	24.10.2026	27.10.2026	31.10.2026
1	SOx	$\mu\text{g}/\text{m}^3$	80	1.50	1.20	1.60	2.40	2.10	2.20	2.00	1.70	1.60
2	NOx	$\mu\text{g}/\text{m}^3$	80	24.00	21.00	12.00	19.20	17.10	22.00	11.60	18.80	20.00
3	NH3	$\mu\text{g}/\text{m}^3$	400	24.00	15.00	26.00	14.00	14.00	41.00	21.00	13.00	5.00
4	PM10	$\mu\text{g}/\text{m}^3$	100	75.00	60.00	81.00	69.00	71.00	58.00	64.00	66.00	76.00
5	PM2.5	$\mu\text{g}/\text{m}^3$	60	28.00	32.00	40.00	26.00	36.00	24.00	30.00	32.00	32.00

Location : VIP Guest House

S.No.	Parameters	Unit	Permissible limits (NAAQS)	04.10.2026	06.10.2026	09.10.2026	13.10.2025	16.10.2026	20.10.2026	24.10.2026	27.10.2026	31.10.2026
1	SOx	$\mu\text{g}/\text{m}^3$	80	1.20	1.20	1.30	0.80	0.70	2.10	1.50	1.20	0.90
2	NOx	$\mu\text{g}/\text{m}^3$	80	2.10	2.10	4.50	1.80	2.40	4.70	4.80	3.30	8.50
3	NH3	$\mu\text{g}/\text{m}^3$	400	2.00	1.00	4.00	2.00	2.00	3.00	5.00	4.00	5.00
4	PM10	$\mu\text{g}/\text{m}^3$	100	60.00	54.00	74.00	65.00	65.00	63.00	72.00	68.00	64.00
5	PM2.5	$\mu\text{g}/\text{m}^3$	60	21.00	35.00	19.00	23.00	34.00	18.00	25.00	20.00	24.00





Ambient Air Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-04

Month : NOVEMBER'2025
Nature of Sampling : Ambient Air
Sample collected and tested by : In- House Laboratory

TEST RESULTS

Location : Technical Building

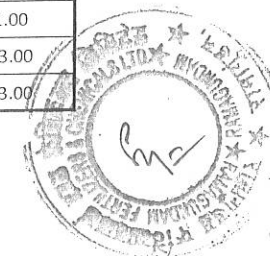
S.No	Parameters	Unit	Permissible limits (NAAQS)	04.11.2025	07.11.2025	08.11.2025	10.11.2025	13.11.2025	17.11.2025	20.11.2025	24.11.2025	27.11.2025
1	SOx	$\mu\text{g}/\text{m}^3$	80	0.80	1.10	0.80	0.80	1.40	1.60	1.60	1.40	1.20
2	NOx	$\mu\text{g}/\text{m}^3$	80	15.80	17.10	17.30	16.50	19.80	19.80	16.80	17.50	14.10
3	NH3	$\mu\text{g}/\text{m}^3$	400	36.00	26.00	34.00	50.00	31.00	24.00	36.00	28.00	32.00
4	PM10	$\mu\text{g}/\text{m}^3$	100	85.00	66.00	59.00	63.00	94.00	72.00	92.00	98.00	85.00
5	PM2.5	$\mu\text{g}/\text{m}^3$	60	36.00	38.00	42.00	32.00	42.00	36.00	38.00	28.00	27.00

Location : Material Gate

S.No.	Parameters	Unit	Permissible limits (NAAQS)	04.11.2025	07.11.2025	08.11.2025	10.11.2025	13.11.2025	17.11.2025	20.11.2025	24.11.2025	27.11.2025
1	SOx	$\mu\text{g}/\text{m}^3$	80	1.40	0.80	1.20	1.10	1.20	0.90	2.00	0.80	0.60
2	NOx	$\mu\text{g}/\text{m}^3$	80	23.70	19.40	18.50	14.90	21.70	24.80	18.50	21.50	12.30
3	NH3	$\mu\text{g}/\text{m}^3$	400	32.00	19.00	28.00	33.00	38.00	43.00	24.00	22.00	32.00
4	PM10	$\mu\text{g}/\text{m}^3$	100	84.00	63.00	74.00	61.00	82.00	55.00	83.00	95.00	84.00
5	PM2.5	$\mu\text{g}/\text{m}^3$	60	31.00	25.00	32.00	23.00	23.00	19.00	33.00	36.00	28.00

Location : VIP Guest House

S.No.	Parameters	Unit	Permissible limits (NAAQS)	04.11.2025	07.11.2025	08.11.2025	10.11.2025	13.11.2025	17.11.2025	20.11.2025	24.11.2025	27.11.2025
1	SOx	$\mu\text{g}/\text{m}^3$	80	0.60	0.50	0.40	0.40	0.40	0.40	0.60	0.60	0.70
2	NOx	$\mu\text{g}/\text{m}^3$	80	3.60	4.50	5.10	4.80	5.50	4.90	5.20	4.40	4.80
3	NH3	$\mu\text{g}/\text{m}^3$	400	5.00	5.00	5.00	2.00	7.00	6.00	4.00	1.00	1.00
4	PM10	$\mu\text{g}/\text{m}^3$	100	68.00	80.00	72.00	67.00	83.00	67.00	88.00	92.00	83.00
5	PM2.5	$\mu\text{g}/\text{m}^3$	60	24.00	28.00	28.00	38.00	32.00	28.00	42.00	28.00	23.00





Ambient Air Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-04

Month : DECEMBER'2025
Nature of Sampling : Ambient Air
Sample collected and tested by : In- House Laboratory

TEST RESULTS

Location : Technical Building

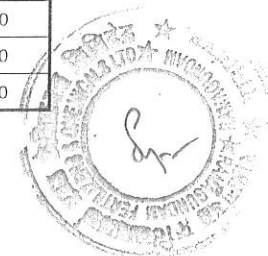
S.No	Parameters	Unit	Permissible limits (NAAQS)	01.12.2025	04.12.2025	10.12.2025	13.12.2025	16.12.2025	19.12.2025	22.12.2025	26.12.2025	30.12.2025
1	SOx	$\mu\text{g}/\text{m}^3$	80	0.80	0.60	0.60	1.10	0.70	0.80	0.70	0.80	0.80
2	NOx	$\mu\text{g}/\text{m}^3$	80	17.90	16.20	15.40	18.50	16.40	14.80	16.50	18.10	18.90
3	NH3	$\mu\text{g}/\text{m}^3$	400	16.00	28.00	24.00	18.00	22.00	24.00	30.00	32.00	36.00
4	PM10	$\mu\text{g}/\text{m}^3$	100	115.00	108.00	98.00	83.00	116.00	98.00	90.00	102.00	96.00
5	PM2.5	$\mu\text{g}/\text{m}^3$	60	56.00	56.00	38.00	44.00	35.00	56.00	32.00	52.00	47.00

Location : Material Gate

S.No.	Parameters	Unit	Permissible limits (NAAQS)	01.12.2025	04.12.2025	10.12.2025	13.12.2025	16.12.2025	19.12.2025	22.12.2025	26.12.2025	30.12.2025
1	SOx	$\mu\text{g}/\text{m}^3$	80	0.90	0.70	0.60	0.80	0.60	0.50	0.40	0.50	0.60
2	NOx	$\mu\text{g}/\text{m}^3$	80	12.00	16.00	15.10	17.50	10.10	14.60	14.50	11.20	12.80
3	NH3	$\mu\text{g}/\text{m}^3$	400	29.90	21.00	20.50	22.40	24.00	35.20	26.50	24.20	32.00
4	PM10	$\mu\text{g}/\text{m}^3$	100	106.00	100.00	98.00	92.00	108.00	88.00	96.00	99.00	101.00
5	PM2.5	$\mu\text{g}/\text{m}^3$	60	46.00	46.00	23.00	23.00	28.00	32.00	38.00	28.00	32.00

Location : VIP Guest House

S.No.	Parameters	Unit	Permissible limits (NAAQS)	01.12.2025	04.12.2025	10.12.2025	13.12.2025	16.12.2025	19.12.2025	22.12.2025	26.12.2025	30.12.2025
1	SOx	$\mu\text{g}/\text{m}^3$	80	0.40	0.30	0.40	0.80	0.90	0.60	0.60	0.80	0.80
2	NOx	$\mu\text{g}/\text{m}^3$	80	8.00	9.20	8.00	11.00	10.20	8.10	7.10	7.43	7.50
3	NH3	$\mu\text{g}/\text{m}^3$	400	12.30	8.30	9.60	9.20	8.60	29.90	23.70	15.20	15.60
4	PM10	$\mu\text{g}/\text{m}^3$	100	69.00	60.00	89.00	87.00	74.00	71.00	68.00	82.00	71.00
5	PM2.5	$\mu\text{g}/\text{m}^3$	60	42.00	42.00	51.00	30.00	28.00	19.00	24.00	31.00	22.00





Ambient Air Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-04

Month : JANUARY'2026
Nature of Sampling : Ambient Air
Sample collected and tested by : In- House Laboratory

TEST RESULTS

Location : Technical Building

S.No	Parameters	Unit	Permissible limits (NAAQS)	02.01.2026	06.01.2026	09.01.2026	12.01.2026	15.01.2026	19.01.2026	22.01.2026	26.01.2026	29.01.2026
1	SOx	$\mu\text{g}/\text{m}^3$	80	0.30	0.20	0.50	0.40	0.30	0.80	0.60	0.40	0.40
2	NOx	$\mu\text{g}/\text{m}^3$	80	12.80	16.40	12.40	11.40	13.60	15.10	12.20	11.80	10.60
3	NH3	$\mu\text{g}/\text{m}^3$	400	30.00	28.00	27.00	55.00	41.00	66.00	54.00	38.00	52.00
4	PM10	$\mu\text{g}/\text{m}^3$	100	115.00	112.00	106.00	112.00	109.00	115.00	108.00	110.00	98.00
5	PM2.5	$\mu\text{g}/\text{m}^3$	60	46.00	50.00	52.00	48.00	38.00	52.00	44.00	36.00	50.00

Location : Material Gate

S.No.	Parameters	Unit	Permissible limits (NAAQS)	02.01.2026	06.01.2026	09.01.2026	12.01.2026	15.01.2026	19.01.2026	22.01.2026	26.01.2026	29.01.2026
1	SOx	$\mu\text{g}/\text{m}^3$	80	0.10	0.20	0.30	0.30	0.20	0.50	0.50	0.40	0.40
2	NOx	$\mu\text{g}/\text{m}^3$	80	15.00	18.40	17.60	15.10	13.40	16.10	14.80	16.60	17.20
3	NH3	$\mu\text{g}/\text{m}^3$	400	36.00	29.00	25.00	39.00	41.00	29.00	46.00	32.00	50.00
4	PM10	$\mu\text{g}/\text{m}^3$	100	113.00	90.00	108.00	105.00	118.00	121.00	100.00	96.00	95.00
5	PM2.5	$\mu\text{g}/\text{m}^3$	60	41.00	39.00	46.00	41.00	50.00	56.00	51.00	55.00	48.00

Location : VIP Guest House

S.No.	Parameters	Unit	Permissible limits (NAAQS)	02.01.2026	06.01.2026	09.01.2026	12.01.2026	15.01.2026	19.01.2026	22.01.2026	26.01.2026	29.01.2026
1	SOx	$\mu\text{g}/\text{m}^3$	80	0.20	0.20	0.20	0.20	0.20	0.40	0.30	0.40	0.50
2	NOx	$\mu\text{g}/\text{m}^3$	80	8.20	8.60	7.40	6.80	6.60	7.10	7.50	8.40	7.80
3	NH3	$\mu\text{g}/\text{m}^3$	400	5.00	5.00	8.00	5.00	5.00	6.00	8.00	5.00	5.00
4	PM10	$\mu\text{g}/\text{m}^3$	100	123.00	106.00	98.00	104.00	113.00	120.00	90.00	104.00	92.00
5	PM2.5	$\mu\text{g}/\text{m}^3$	60	45.00	36.00	27.00	30.00	26.00	44.00	36.00	38.00	32.00





Ambient Air Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-04

Month : FEBRUARY'2026
Nature of Sampling : Ambient Air
Sample collected and tested by : In- House Laboratory

TEST RESULTS

Location : Technical Building

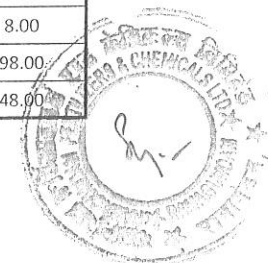
S.No	Parameters	Unit	Permissible limits (NAAQS)	03.02.2026	06.02.2026	10.02.2026	13.02.2026	17.02.2026	20.02.2026	24.02.2026	27.02.2026
1	SOx	$\mu\text{g}/\text{m}^3$	80	0.80	0.70	0.60	0.80	0.70	0.60	0.70	0.80
2	NOx	$\mu\text{g}/\text{m}^3$	80	5.80	5.60	6.20	6.60	6.10	7.40	8.20	7.60
3	NH3	$\mu\text{g}/\text{m}^3$	400	35.00	29.00	21.00	24.00	46.00	65.00	38.00	42.00
4	PM10	$\mu\text{g}/\text{m}^3$	100	128.00	109.00	124.00	116.00	128.00	96.00	104.00	125.00
5	PM2.5	$\mu\text{g}/\text{m}^3$	60	64.00	58.00	66.00	60.00	52.00	64.00	68.00	70.00

Location : Material Gate

S.No.	Parameters	Unit	Permissible limits (NAAQS)	03.02.2026	06.02.2026	10.02.2026	13.02.2026	17.02.2026	20.02.2026	24.02.2026	27.02.2026
1	SOx	$\mu\text{g}/\text{m}^3$	80	0.70	0.80	0.70	0.80	0.80	0.60	0.70	0.80
2	NOx	$\mu\text{g}/\text{m}^3$	80	9.80	12.10	10.80	8.60	10.40	8.60	9.20	8.60
3	NH3	$\mu\text{g}/\text{m}^3$	400	31.00	26.00	25.00	38.00	42.00	65.00	46.00	65.00
4	PM10	$\mu\text{g}/\text{m}^3$	100	88.00	95.00	120.00	100.00	124.00	98.00	104.00	126.00
5	PM2.5	$\mu\text{g}/\text{m}^3$	60	45.00	45.00	71.00	54.00	66.00	58.00	60.00	64.00

Location : VIP Guest House

S.No.	Parameters	Unit	Permissible limits (NAAQS)	03.02.2026	06.02.2026	10.02.2026	13.02.2026	17.02.2026	20.02.2026	24.02.2026	27.02.2026
1	SOx	$\mu\text{g}/\text{m}^3$	80	0.50	0.30	0.40	0.30	0.40	0.50	0.40	0.50
2	NOx	$\mu\text{g}/\text{m}^3$	80	8.40	6.20	6.70	9.00	7.20	6.80	6.60	7.40
3	NH3	$\mu\text{g}/\text{m}^3$	400	12.00	11.00	6.00	3.00	5.00	4.00	5.00	8.00
4	PM10	$\mu\text{g}/\text{m}^3$	100	105.00	98.00	85.00	96.00	88.00	92.00	84.00	98.00
5	PM2.5	$\mu\text{g}/\text{m}^3$	60	51.00	80.00	56.00	46.00	52.00	48.00	56.00	48.00





Ambient Air Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-04

Month : MARCH'2026
Nature of Sampling : Ambient Air
Sample collected and tested by : In- House Laboratory

TEST RESULTS

Location : Technical Building

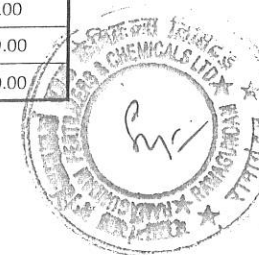
S.No	Parameters	Unit	Permissible limits (NAAQS)	02.03.2026	05.03.2026	09.03.2026	12.03.2026	16.03.2026	19.03.2026	23.03.2026	26.03.2026	30.03.2026
1	SOx	$\mu\text{g}/\text{m}^3$	80	0.50	0.60	0.50	0.50	0.40	0.60	0.80	0.60	0.50
2	NOx	$\mu\text{g}/\text{m}^3$	80	10.60	8.80	14.70	9.20	11.40	12.60	13.20	10.80	12.00
3	NH3	$\mu\text{g}/\text{m}^3$	400	48.00	54.00	60.00	45.00	32.00	56.00	64.00	38.00	44.00
4	PM10	$\mu\text{g}/\text{m}^3$	100	90.00	96.00	88.00	92.00	88.00	94.00	91.00	93.00	97.00
5	PM2.5	$\mu\text{g}/\text{m}^3$	60	34.00	26.00	46.00	50.00	33.00	44.00	36.00	41.00	54.00

Location : Material Gate

S.No.	Parameters	Unit	Permissible limits (NAAQS)	02.03.2026	05.03.2026	09.03.2026	12.03.2026	16.03.2026	19.03.2026	23.03.2026	26.03.2026	30.03.2026
1	SOx	$\mu\text{g}/\text{m}^3$	80	0.60	0.80	0.50	0.60	0.80	0.60	0.80	0.50	0.80
2	NOx	$\mu\text{g}/\text{m}^3$	80	13.80	14.40	16.20	12.90	14.10	12.90	16.40	13.80	14.50
3	NH3	$\mu\text{g}/\text{m}^3$	400	30.00	42.00	50.00	48.00	26.00	34.00	40.00	38.00	44.00
4	PM10	$\mu\text{g}/\text{m}^3$	100	90.00	94.00	98.00	90.00	96.00	95.00	91.00	93.00	97.00
5	PM2.5	$\mu\text{g}/\text{m}^3$	60	44.00	46.00	42.00	38.00	44.00	55.00	49.00	50.00	56.00

Location : VIP Guest House

S.No.	Parameters	Unit	Permissible limits (NAAQS)	02.03.2026	05.03.2026	09.03.2026	12.03.2026	16.03.2026	19.03.2026	23.03.2026	26.03.2026	30.03.2026
1	SOx	$\mu\text{g}/\text{m}^3$	80	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
2	NOx	$\mu\text{g}/\text{m}^3$	80	7.80	8.10	8.20	7.40	7.40	8.00	7.60	7.80	7.20
3	NH3	$\mu\text{g}/\text{m}^3$	400	5.00	6.00	5.00	4.00	5.00	5.00	4.00	8.00	5.00
4	PM10	$\mu\text{g}/\text{m}^3$	100	96.00	88.00	91.00	86.00	90.00	98.00	95.00	95.00	99.00
5	PM2.5	$\mu\text{g}/\text{m}^3$	60	36.00	38.00	42.00	29.00	32.00	38.00	41.00	36.00	40.00





Stack Emmision Monitoring Reading

Doc No: RFCL-TS-EMC-Report-05

Month : OCTOBER'2025
Nature of Sampling : Stack Emission
Sample collected and tested by : In- house Laboratory

TEST RESULTS

Location :- Primary Reformer Stack

S.No	Parameters	Permissible limits	07.10.2025	14.10.2025	23.10.2025	30.10.2025
1	SPM	10 mg/Nm ³	<5.0	<5.0	<5.0	<5.0
2	SOx	50 mg/Nm ³	0.00	0.00	0.00	0.00
3	NOx	400 mg/Nm ³	50.00	37.00	20.00	33.00

Location :- Utility Boiler Stack

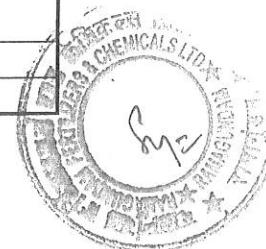
S.No	Parameters	Permissible limits	07.10.2025	14.10.2025	23.10.2025	30.10.2025
1	SPM	10 mg/Nm ³	<5.0	<5.0	<5.0	<5.0
2	SOx	50 mg/Nm ³	0.00	0.00	0.00	0.00
3	NOx	400 mg/Nm ³	70.00	52.00	65.00	75.00

Location :- HRSG Stack

S.No	Parameters	Permissible limits	07.10.2025	14.10.2025	23.10.2025	30.10.2025
1	SPM	10 mg/Nm ³	<5.0	<5.0	<5.0	<5.0
2	SOx	50 mg/Nm ³	0.00	0.00	0.00	0.00
3	NOx	400 mg/Nm ³	302.00	260.00	276.00	232.00

Location :- Prilling Tower

S.No	Parameters	Permissible limits	10.10.2025	17.10.2025	22.10.2025	29.10.2025
1	Particulate Matter	50 mg/Nm ³	30.00	43.00	36.00	40.00
2	NH ₃	150 mg/Nm ³	21.00	30.00	28.00	96.00





Stack Emmision Monitoring Reading

Doc No: RFCL-TS-EMC-Report-05

Month : NOVEMBER'2025
Nature of Sampling : Stack Emission
Sample collected and tested by : In- house Laboratory

TEST RESULTS

Location :- Primary Reformer Stack

S.No	Parameters	Permissible limits	05.11.2025	12.11.2025	20.11.2025	26.11.2026
1	SPM	10 mg/Nm ³	<5.0	<5.0	<5.0	<5.0
2	SO _x	50 mg/Nm ³	0.00	0.00	0.00	0.00
3	NO _x	400 mg/Nm ³	62.00	90.00	70.00	68.00

Location :- Utility Boiler Stack

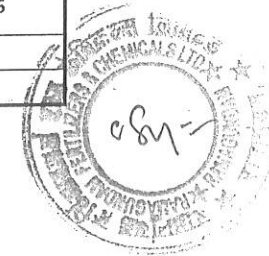
S.No	Parameters	Permissible limits	05.11.2025	12.11.2025	20.11.2025	26.11.2026
1	SPM	10 mg/Nm ³	<5.0	<5.0	<5.0	<5.0
2	SO _x	50 mg/Nm ³	0.00	0.00	0.00	0.00
3	NO _x	400 mg/Nm ³	172.00	129.00	171.00	147.00

Location :- HRSG Stack

S.No	Parameters	Permissible limits	05.11.2025	12.11.2025	20.11.2025	26.11.2026
1	SPM	10 mg/Nm ³	<5.0	<5.0	<5.0	<5.0
2	SO _x	50 mg/Nm ³	0.00	0.00	0.00	0.00
3	NO _x	400 mg/Nm ³	357.00	344.00	352.00	323.00

Location :- Prilling Tower

S.No	Parameters	Permissible limits	05.11.2025	12.11.2025	20.11.2025	26.11.2025
1	Particulate Matter	50 mg/Nm ³	42.00	48.00	46.00	38.00
2	NH ₃	150 mg/Nm ³	52.00	69.00	30.00	42.00





Doc No: RFCL-TS-EMC-Report-05

Month : DECEMBER'2025
Nature of Sampling : Stack Emission
Sample collected and tested by : In- house Laboratory

TEST RESULTS

Location :- Primary Reformer Stack

S.No	Parameters	Permissible limits	03.12.2025	10.12.2025	15.12.2025	23.12.2025	31.12.2025
1	SPM	10 mg/Nm3	<5.0	<5.0	<5.0	<5.0	<5.0
2	SOx	50 mg/Nm3	0.00	0.00	0.00	0.00	0.00
3	NOx	400 mg/Nm3	63.00	54.00	49.00	67.00	65.00

Location :- Utility Boiler Stack

S.No	Parameters	Permissible limits	03.12.2025	10.12.2025	15.12.2025	23.12.2025	31.12.2025
1	SPM	10 mg/Nm3	<5.0	<5.0	<5.0	<5.0	<5.0
2	SOx	50 mg/Nm3	0.00	0.00	0.00	0.00	0.00
3	NOx	400 mg/Nm3	137.00	123.00	140.00	146.00	151.00

Location :- HRSG Stack

S.No	Parameters	Permissible limits	03.12.2025	10.12.2025	15.12.2025	23.12.2025	31.12.2025
1	SPM	10 mg/Nm3	<5.0	<5.0	<5.0	<5.0	<5.0
2	SOx	50 mg/Nm3	0.00	0.00	0.00	0.00	0.00
3	NOx	400 mg/Nm3	357.00	361.00	338.00	355.00	358.00

Location :- Prilling Tower

S.No	Parameters	Permissible limits	03.12.2025	09.12.2025	17.12.2025	23.12.2025	31.12.2025
1	Particulate Matter	50 mg/Nm3	35.00	38.00	40.00	43.00	44.00
2	NH3	150 mg/Nm3	47.00	52.00	15.00	40.00	63.00





Stack Emmission Monitoring Reading

Doc No: RFCL-TS-EMC-Report-05

Month : JANUARY'2026
Nature of Sampling : Stack Emission
Sample collected and tested by : In- house Laboratory

TEST RESULTS

Location :- Primary Reformer Stack

S.No	Parameters	Permissible limits	07.01.2026	14.01.2026	21.01.2026	28.01.2026
1	SPM	10 mg/Nm ³	<5.0	<5.0	<5.0	<5.0
2	SOx	50 mg/Nm ³	0.00	0.00	0.00	0.00
3	NOx	400 mg/Nm ³	58.00	59.00	54.00	55.00

Location :- Utility Boiler Stack

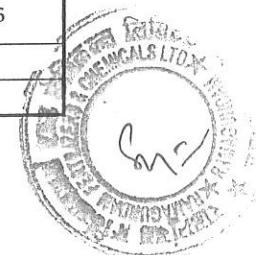
S.No	Parameters	Permissible limits	07.01.2026	14.01.2026	21.01.2026	28.01.2026
1	SPM	10 mg/Nm ³	<5.0	<5.0	<5.0	<5.0
2	SOx	50 mg/Nm ³	0.00	0.00	0.00	0.00
3	NOx	400 mg/Nm ³	138.00	154.00	144.00	124.00

Location :- HRSG Stack

S.No	Parameters	Permissible limits	07.01.2026	14.01.2026	21.01.2026	28.01.2026
1	SPM	10 mg/Nm ³	<5.0	<5.0	<5.0	<5.0
2	SOx	50 mg/Nm ³	0.00	0.00	0.00	0.00
3	NOx	400 mg/Nm ³	332.00	371.00	354.00	250.00

Location :- Prilling Tower

S.No	Parameters	Permissible limits	07.01.2026	14.01.2026	21.01.2026	28.01.2026
1	Particulate Matter	50 mg/Nm ³	42.00	34.00	34.00	42.00
2	NH ₃	150 mg/Nm ³	71.00	57.00	65.00	69.00





Stack Emmision Monitoring Reading

Doc No: RFCL-TS-EMC-Report-05

Month : FEBRUARY'2026
Nature of Sampling : Stack Emission
Sample collected and tested by : In- house Laboratory

TEST RESULTS

Location :- Primary Reformer Stack

S.No	Parameters	Permissible limits	03.02.2026	10.02.2026	16.02.2026	23.02.2026
1	SPM	10 mg/Nm3	<5.0	<5.0	<5.0	<5.0
2	SOx	50 mg/Nm3	0.00	0.00	0.00	0.00
3	NOx	400 mg/Nm3	43.00	52.00	44.00	31.00

Location :- Utility Boiler Stack

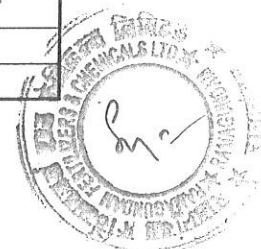
S.No	Parameters	Permissible limits	03.02.2026	10.02.2026	16.02.2026	23.02.2026
1	SPM	10 mg/Nm3	<5.0	<5.0	<5.0	<5.0
2	SOx	50 mg/Nm3	0.00	0.00	0.00	0.00
3	NOx	400 mg/Nm3	96.00	115.00	102.00	86.00

Location :- HRSG Stack

S.No	Parameters	Permissible limits	03.02.2026	10.02.2026	16.02.2026	23.02.2026
1	SPM	10 mg/Nm3	<5.0	<5.0	<5.0	<5.0
2	SOx	50 mg/Nm3	0.00	0.00	0.00	0.00
3	NOx	400 mg/Nm3	249.00	265.00	278.00	208.00

Location :- Prilling Tower

S.No	Parameters	Permissible limits	05.02.2026	12.02.2026	16.02.2026	23.02.2026
1	Particulate Matter	50 mg/Nm3	35.00	45.00	23.00	38.00
2	NH3	150 mg/Nm3	45.00	54.00	63.00	31.00





Stack Emmission Monitoring Reading

Doc No: RFCL-TS-EMC-Report-05

Month : MARCH'2026
Nature of Sampling : Stack Emission
Sample collected and tested by : In- house Laboratory

TEST RESULTS

Location :- Primary Reformer Stack

S.No	Parameters	Permissible limits	03.03.2026	10.03.2026	16.03.2026	23.03.2026
1	SPM	10 mg/Nm ³	<5.0	<5.0	<5.0	<5.0
2	SOx	50 mg/Nm ³	0.00	0.00	0.00	0.00
3	NOx	400 mg/Nm ³	54.00	71.00	65.00	68.00

Location :- Utility Boiler Stack

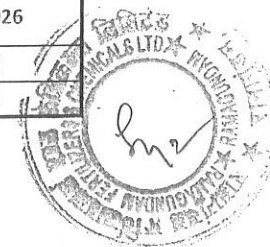
S.No	Parameters	Permissible limits	03.03.2026	10.03.2026	16.03.2026	23.03.2026
1	SPM	10 mg/Nm ³	<5.0	<5.0	<5.0	<5.0
2	SOx	50 mg/Nm ³	0.00	0.00	0.00	0.00
3	NOx	400 mg/Nm ³	124.00	113.00	127.00	118.00

Location :- HRSO Stack

S.No	Parameters	Permissible limits	03.03.2026	10.03.2026	16.03.2026	23.03.2026
1	SPM	10 mg/Nm ³	<5.0	<5.0	<5.0	<5.0
2	SOx	50 mg/Nm ³	0.00	0.00	0.00	0.00
3	NOx	400 mg/Nm ³	215.00	194.00	239.00	248.00

Location :- Prilling Tower

S.No	Parameters	Permissible limits	05.03.2026	12.03.2026	16.03.2026	23.03.2026
1	Particulate Matter	50 mg/Nm ³	37.00	47.00	42.00	36.00
2	NH ₃	150 mg/Nm ³	31.00	44.00	38.00	54.00





Sewage Treated Plant Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-06

Month : OCTOBER'2025
Nature of Sampling : Sewage Treated Plant Analysis (Township)
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 07.10.2025,13.10.2025,20.10.2025 & 27.10.2025

TEST RESULTS

S.No	Parameters	Unit	Limiting Standards	07.10.2025	13.10.2025	20.10.2025	27.10.2025
1	pH.		5.5-9.0	7.67	7.53	7.90	7.31
2	Total Suspended Solids (TSS)	mg/l	< 100	1.00	1.00	1.00	2.00
3	BOD (3 days at 27 °C)	mg/l	< 30	<2.0	<2.0	<2.0	<2.0
4	COD	mg/l	< 250	8.00	8.00	6.00	8.00
5	Oil & Grease	mg/l	< 10	<10	<10	<10	<10
6	Total Dissolved Solids (TDS)	mg/l	<2100	498.00	488.00	500.00	554.00





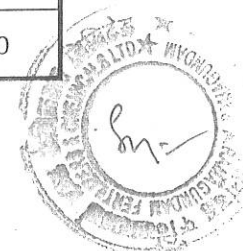
Sewage Treated Plant Quality Monitoring Results

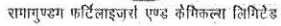
Doc No: RFCL-TS-EMC-Report-06

Month : NOVEMBER'2025
Nature of Sampling : Sewage Treated Plant Analysis (Township)
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 05.11.2025,10.11.2025,17.11.2025 & 24.11.2025

TEST RESULTS

S.No	Parameters	Unit	Limiting Standards	05.11.2025	10.11.2025	17.11.2025	24.11.2025
1	pH.		5.5-9.0	7.66	7.85	7.65	7.72
2	Total Suspended Solids (TSS)	mg/l	< 100	4.00	1.00	2.00	3.00
3	BOD (3 days at 27 °C)	mg/l	< 30	<2.0	<2.0	<2.0	<2.0
4	COD	mg/l	< 250	12.00	10.00	10.00	12.00
5	Oil & Grease	mg/l	< 10	<10	<10	<10	<10
6	Total Dissolved Solids (TDS)	mg/l	<2100	515.00	520.00	554.00	554.00





Doc No: RFCL-TS-EMC-Report-06

TEST RESULTS



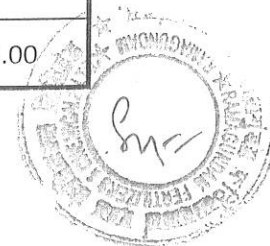
Sewage Treated Plant Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-06

Month : JANUARY'2026
Nature of Sampling : Sewage Treated Plant Analysis (Township)
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 06.01.2026,12.01.2026,19.01.2026 & 26.01.2026

TEST RESULTS

S.No	Parameters	Unit	Limiting Standards	06.01.2026	12.01.2026	19.01.2026	26.01.2026
1	pH.		5.5-9.0	7.41	7.38	7.57	7.65
2	Total Suspended Solids (TSS)	mg/l	< 100	2.00	2.00	1.00	5.00
3	BOD (3 days at 27 °C)	mg/l	< 30	<2.0	<2.0	<2.0	<2.0
4	COD	mg/l	< 250	10.00	14.00	10.00	10.00
5	Oil & Grease	mg/l	< 10	<10	<10	<10	<10
6	Total Dissolved Solids (TDS)	mg/l	<2100	602.00	615.00	616.00	616.00





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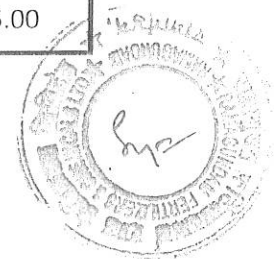
Sewage Treated Plant Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-06

Month : FEBRUARY'2026
Nature of Sampling : Sewage Treated Plant Analysis (Township)
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 03.02.2026,10.02.2026,16.02.2026 & 24.02.2026

TEST RESULTS

S.No	Parameters	Unit	Limiting Standards	03.02.2026	10.02.2026	16.02.2026	24.02.2026
1	pH.		5.5-9.0	7.44	7.31	7.63	7.56
2	Total Suspended Solids (TSS)	mg/l	< 100	2.00	11.00	3.00	2.00
3	BOD (3 days at 27 °C)	mg/l	< 30	<2.0	<2.0	<2.0	<2.0
4	COD	mg/l	< 250	10.00	10.00	10.00	16.00
5	Oil & Grease	mg/l	< 10	<10	<10	<10	<10
6	Total Dissolved Solids (TDS)	mg/l	<2100	642.00	600.00	624.00	595.00





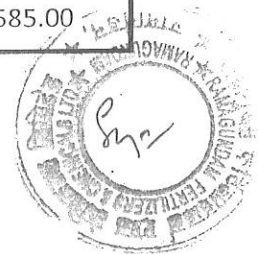
Sewage Treated Plant Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-06

Month : MARCH'2026
Nature of Sampling : Sewage Treated Plant Analysis (Township)
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 03.03.2026,09.03.2026,16.03.2026,23.03.2026 & 30.03.2026

TEST RESULTS

S.No	Parameters	Unit	Limiting Standards	03.03.2026	09.03.2026	16.03.2026	23.03.2026	30.03.2026
1	pH.		5.5-9.0	7.73	7.79	7.74	7.57	7.59
2	Total Suspended Solids (TSS)	mg/l	< 100	2.00	2.00	1.00	3.00	2.00
3	BOD (3 days at 27 °C)	mg/l	< 30	<2.0	<2.0	<2.0	<2.0	<2.0
4	COD	mg/l	< 250	10.00	10.00	8.00	8.00	10.00
5	Oil & Grease	mg/l	< 10	<10	<10	<10	<10	<10
6	Total Dissolved Solids (TDS)	mg/l	<2100	578.00	552.00	564.00	606.00	585.00





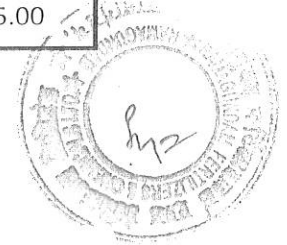
Sewage Treated Plant Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-06

Month : OCTOBER'2025
Nature of Sampling : Sewage Treated Plant Outlet
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 07.10.2025,13.10.2025,20.10.2025 & 27.10.2025

TEST RESULTS

S.No	Parameters	Unit	Limiting Standards	07.10.2025	13.10.2025	20.10.2025	27.10.2025
1	pH.		5.5-9.0	7.85	8.10	8.05	7.95
2	Total Suspended Solids (TSS)	mg/l	< 100	12.00	14.00	18.00	20.00
3	BOD (3 days at 27 °C)	mg/l	< 30	16.40	20.50	18.40	20.20
4	COD	mg/l	< 250	84.00	105.00	88.00	98.00
5	Oil & Grease	mg/l	< 10	<10	<10	<10	<10
6	Total Dissolved Solids (TDS)	mg/l	<2100	855.00	925.00	905.00	875.00





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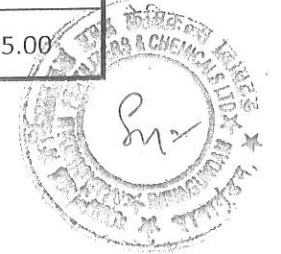
Sewage Treated Plant Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-06

Month : NOVEMBER'2025
Nature of Sampling : Sewage Treated Plant Outlet
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 05.11.2025,10.11.2025,17.11.2025 & 24.11.2025

TEST RESULTS

S.No	Parameters	Unit	Limiting Standards	05.11.2025	10.11.2025	17.11.2025	24.11.2025
1	pH.		5.5-9.0	8.05	8.11	7.82	7.91
2	Total Suspended Solids (TSS)	mg/l	< 100	14.00	14.00	16.00	20.00
3	BOD (3 days at 27 °C)	mg/l	< 30	18.00	17.50	16.80	17.40
4	COD	mg/l	< 250	95.00	86.00	80.00	88.00
5	Oil & Grease	mg/l	< 10	<10	<10	<10	<10
6	Total Dissolved Solids (TDS)	mg/l	<2100	875.00	882.00	876.00	905.00





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Sewage Treated Plant Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-06

Month : DECEMBER'2025
Nature of Sampling : Sewage Treated Plant Outlet
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 01.12.2025,08.12.2025,15.12.2025,22.12.2025 & 30.12.2025

TEST RESULTS

S.No	Parameters	Unit	Limiting Standards	01.12.2025	08.12.2025	15.12.2025	22.12.2025	30.12.2025
1	pH.		5.5-9.0	7.75	7.82	8.02	7.96	7.85
2	Total Suspended Solids (TSS)	mg/l	< 100	10.00	12.00	16.00	12.00	14.00
3	BOD (3 days at 27 °C)	mg/l	< 30	16.40	15.20	15.50	14.80	18.20
4	COD	mg/l	< 250	82.00	90.00	90.00	82.00	94.00
5	Oil & Grease	mg/l	< 10	<10	<10	<10	<10	<10
6	Total Dissolved Solids (TDS)	mg/l	<2100	860.00	885.00	870.00	855.00	860.00





Sewage Treated Plant Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-06

Month : JANUARY 2026
Nature of Sampling : Sewage Treated Plant Outlet
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 06.01.2026,12.01.2026,19.01.2026 & 26.01.2026

TEST RESULTS

S.No	Parameters	Unit	Limiting Standards	06.01.2026	12.01.2026	19.01.2026	26.01.2026
1	pH.		5.5-9.0	7.85	7.20	7.54	7.68
2	Total Suspended Solids (TSS)	mg/l	< 100	8.00	10.00	8.00	12.00
3	BOD (3 days at 27 °C)	mg/l	< 30	14.60	13.40	14.20	15.60
4	COD	mg/l	< 250	68.00	60.00	70.00	75.00
5	Oil & Grease	mg/l	< 10	<10	<10	<10	<10
6	Total Dissolved Solids (TDS)	mg/l	<2100	765.00	740.00	784.00	765.00





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Sewage Treated Plant Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-06

Month : FEBRUARY'2026
Nature of Sampling : Sewage Treated Plant Outlet
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 03.02.2026,10.02.2026,16.02.2026 & 24.02.2026

TEST RESULTS

S.No	Parameters	Unit	Limiting Standards	03.02.2026	10.02.2026	16.02.2026	24.02.2026
1	pH.		5.5-9.0	7.92	7.81	7.78	7.98
2	Total Suspended Solids (TSS)	mg/l	< 100	12.00	14.00	12.00	22.00
3	BOD (3 days at 27 °C)	mg/l	< 30	15.40	16.80	15.10	17.50
4	COD	mg/l	< 250	75.00	80.00	72.00	94.00
5	Oil & Grease	mg/l	< 10	<10	<10	<10	<10
6	Total Dissolved Solids (TDS)	mg/l	<2100	780.00	825.00	804.00	845.00



Sewage Treated Plant Quality Monitoring Results

Doc No: RFCL-TS-EMC-Report-06

Month : MARCH'2026
Nature of Sampling : Sewage Treated Plant Outlet
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 03.03.2026,09.03.2026,16.03.2026,23.03.2026 & 30.03.2026

TEST RESULTS

S.No	Parameters	Unit	Limiting Standards	03.03.2026	09.03.2026	16.03.2026	23.03.2026	30.03.2026
1	pH.		5.5-9.0	7.94	7.88	7.72	7.68	7.84
2	Total Suspended Solids (TSS)	mg/l	< 100	12.00	14.00	10.00	14.00	10.00
3	BOD (3 days at 27 °C)	mg/l	< 30	13.80	14.20	13.50	15.10	15.90
4	COD	mg/l	< 250	74.00	80.00	68.00	94.00	100.00
5	Oil & Grease	mg/l	< 10	<10	<10	<10	<10	<10
6	Total Dissolved Solids (TDS)	mg/l	<2100	815.00	785.00	808.00	845.00	860.00



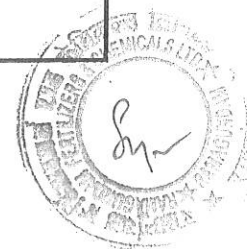
Ammonia in Atmosphere at Different Locations in Plant Area

Doc No: RFCL-TS-EMC-Report-07

Month : OCTOBER'2025
Nature of Sampling : Ammonia Concentration
Sample collected and tested by : In-House Laboratory
Date of Sample collection : 06.10.2025

TEST RESULTS

	Location of Sample Collection	Collection Date	Ammonia Content in ppm (max. 25ppm)
1	Near High Temperature Shift Coverater (Road Side)	06.10.2025	5.0
2	Near Sulfar Absorber	06.10.2025	2.5
3	Near Syn Gas Compressor (Cooling water side	06.10.2025	5.0
4	Near CHRU	06.10.2025	2.5
5	Near P-1001 & P-1002 pumps (Urea Plant)	06.10.2025	5.0
6	Near Urea Reactor (towards CPP)	06.10.2025	5.0
7	Near corridor between Ammonia B/L and Urea B/L	06.10.2025	5.0
8	Near Ammonia Storage Tanks	06.10.2025	5.0





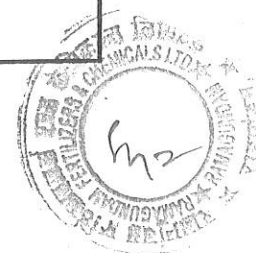
Ammonia in Atmosphere at Different Locations in Plant Area

Doc No: RFCL-TS-EMC-Report-07

Month : NOVEMBER'2025
Nature of Sampling : Ammonia Concentration
Sample collected and tested by : In-House Laboratory
Date of Sample collection : 10.11.2025

TEST RESULTS

	Location of Sample Collection	Collection Date	Ammonia Content in ppm (max. 25ppm)
1	Near High Temperature Shift Coverater (Road Side)	10.11.2025	2.5
2	Near Sulfar Absorber	10.11.2025	2.5
3	Near Syn Gas Compressor (Cooling water side)	10.11.2025	5.0
4	Near CHRU	10.11.2025	<1.0
5	Near P-1001 & P-1002 pumps (Urea Plant)	10.11.2025	5.0
6	Near Urea Reactor (towards CPP)	10.11.2025	5.0
7	Near corridor between Ammonia B/L and Urea B/L	10.11.2025	2.5
8	Near Ammonia Storage Tanks	10.11.2025	2.5





Ammonia in Atmosphere at Different Locations in Plant Area

Doc No: RFCL-TS-EMC-Report-07

Month : DECEMBER'2025
Nature of Sampling : Ammonia Concentration
Sample collected and tested by : In-House Laboratory
Date of Sample collection : 08.12.2025

TEST RESULTS

	Location of Sample Collection	Collection Date	Ammonia Content in ppm (max. 25ppm)
1	Neae High Temperature Shift Coverater (Road Side)	08.12.2025	1.0
2	Near Sulfar Absorber	08.12.2025	1.0
3	Near Syn Gas Compressor (Cooling water side	08.12.2025	5.0
4	Near CHRU	08.12.2025	<1.0
5	Near P-1001 & P-1002 pumps (Urea Plant)	08.12.2025	2.5
6	Near Urea Reactor (towards CPP)	08.12.2025	5.0
7	Near corridor between Ammonia B/L and Urea B/L	08.12.2025	1.0
8	Near Ammonia Storage Tanks	08.12.2025	1.0





Ammonia in Atmosphere at Different Locations in Plant Area

Doc No: RFCL-TS-EMC-Report-07

Month : JANUARY'2026
Nature of Sampling : Ammonia Concentration
Sample collected and tested by : In-House Laboratory
Date of Sample collection : 05.01.2026

TEST RESULTS

	Location of Sample Collection	Collection Date	Ammonia Content in ppm (max. 25ppm)
1	Near High Temperature Shift Coverater (Road Side)	05.01.2026	2.5
2	Near Sulfar Absorber	05.01.2026	2.5
3	Near Syn Gas Compressor (Cooling water side)	05.01.2026	5.0
4	Near CHRU	05.01.2026	<1.0
5	Near P-1001 & P-1002 pumps (Urea Plant)	05.01.2026	2.5
6	Near Urea Reactor (towards CPP)	05.01.2026	5.0
7	Near corridor between Ammonia B/L and Urea B/L	05.01.2026	5.0
8	Near Ammonia Storage Tanks	05.01.2026	2.5





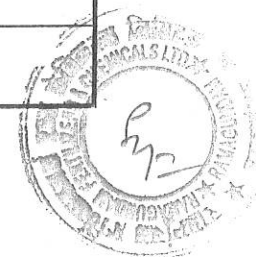
Ammonia in Atmosphere at Different Locations in Plant Area

Doc No: RFCL-TS-EMC-Report-07

Month : FEBRUARY'2026
Nature of Sampling : Ammonia Concentration
Sample collected and tested by : In-House Laboratory
Date of Sample collection : 09.02.2026

TEST RESULTS

	Location of Sample Collection	Collection Date	Ammonia Content in ppm (max. 25ppm)
1	Near High Temperature Shift Coverater (Road Side)	09.02.2026	1.0
2	Near Sulfar Absorber	09.02.2026	1.0
3	Near Syn Gas Compressor (Cooling water side	09.02.2026	2.5
4	Near CHRU	09.02.2026	1.0
5	Near P-1001 & P-1002 pumps (Urea Plant)	09.02.2026	2.5
6	Near Urea Reactor (towards CPP)	09.02.2026	5.0
7	Near corridor between Ammonia B/L and Urea B/L	09.02.2026	2.5
8	Near Ammonia Storage Tanks	09.02.2026	2.5





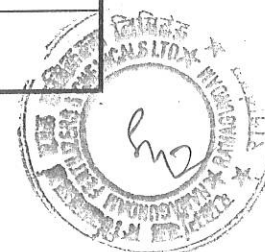
Ammonia in Atmosphere at Different Locations in Plant Area

Doc No: RFCL-TS-EMC-Report-07

Month : MARCH'2026
Nature of Sampling : Ammonia Concentration
Sample collected and tested by : In-House Laboratory
Date of Sample collection : 09.03.2026

TEST RESULTS

	Location of Sample Collection	Collection Date	Ammonia Content in ppm (max. 25ppm)
1	Near High Temperature Shift Coverater (Road Side)	09.03.2026	2.5
2	Near Sulfar Absorber	09.03.2026	2.5
3	Near Syn Gas Compressor (Cooling water side)	09.03.2026	2.5
4	Near CHRU	09.03.2026	<1.0
5	Near P-1001 & P-1002 pumps (Urea Plant)	09.03.2026	2.5
6	Near Urea Reactor (towards CPP)	09.03.2026	5.0
7	Near corridor between Ammonia B/L and Urea B/L	09.03.2026	2.5
8	Near Ammonia Storage Tanks	09.03.2026	2.5





Environmental Expenditure Details

Doc No: RFCL-TS-EMC-Exp-04

Doc No: RFCL-TS-EMC-Exp-04

Environmental Expenditure for FY 25-26						
S.No	Activities	Cost in Rs (Excl GST)	Cost in Rs (Excl GST)	Cost in Rs (Excl GST)	Cost in Rs (Excl GST)	Cost in Rs (Excl GST)
		April'25-June'25 Q I	July'25-Sep'25 Q II	Oct'25-Dec'25 Q III	Jan'26-March'26 Q IV	FY 25-26 April'25-Mar'26
A	Air Monitoring Activities					
A-1	Steam for urea vent stacks to dissolve the Ammonia Gases (@rs5295.96/MT of steam)	62,27,766	31,13,883	11334533.9	10587202	3,12,63,385
A-2	Cost Incurred for Dust Extraction System FD fans	22,53,209	8,44,695	4253821.372	3731564.395	1,10,83,289
A-3	Post warranty comprehensive annual maintenance contract for AAQMS (1&2)	5,75,930	6,24,884	6,24,884	6,24,884	24,50,582
A-4	Monitoring of Stack emissions at RFCL laboratory	75,250	3,04,125	-	0	3,79,375
A-5	Consent fee for Air /Water and Bank guarantee	5,25,000	5,25,000	525000	525000	21,00,000
A-6	AMC for plant emissions and effluents PCB connectivity subscription and services for the period of two years	-	20,000	20000	20000	60,000
A-7	Post warranty annual maintenance contract for CAAQMS system 03 at RFCL, Ramagundam for 5 years (2025-2030)	-	-	93000	93000	1,86,000
A-8	Annual Maintenance stack Analyzer	-	-	116600	-	1,16,600
A-9	Venus N95 Nose Mask	-	-	46,000.00	-	46,000
A-10	Purchase of REC certificates for RCO Compliance FY24-25 (in Mar'26)				1,08,92,920	1,08,92,920
	Total (A)	96,57,154	54,32,587	1,70,13,839	2,64,74,571	5,85,78,151
B	Water Monitoring Activities					
B-1	Steam to ETP	35,57,092	16,65,062	4831968	3181653	1,32,35,776
B-2	Power Cost for ETP & STP	14,09,964	8,43,192	2751202	2346276	73,50,634
B-3	Pump & Blowers Maintenance in ETP & STP	64,785	-	238561	90046	3,93,392
B-4	Cost of manpower involved in ETP heatexchanger hydrojetting	4,451	-	-	-	4,451
B-5	Consumables (Chemicals) for ETP & STP	2,05,198	1,76,668	317075	684304	13,83,245
B-6	O&M for STP	10,69,080	10,69,080	918630	918630	46,90,996
B-7	O&M for ETP	9,93,500	9,93,500	993500	993500	39,74,000
B-8	Annual Maintenance Contract BOD COD Analyzers at ETP	-	27,500	27500	55000	1,10,000
	Total (B)	73,04,071	47,75,002	1,00,78,436	82,69,409	3,04,26,918
C	Noise Monitoring Activities					
C-1	Personal Protective Equipment	-	49,500	41,948	-	91,448
	Total (C)	-	49,500	41,948	-	91,448
D	Occupational Health Monitoring Activities					
D-1	Annual Health Check -up of Employees	-	-	-	-	-
	Total (D)	-	-	-	-	-
E	Land Monitoring Activities					
E-1	Horticulture Development and maintenance activities	14,69,733	12,92,208	1411286	1346021	55,19,248
	Total (E)	14,69,733	12,92,208	14,11,286	13,46,021	55,19,248
F	Others					
F-1	World Environmental Day Celebrations on 05.06.2025	21,263	-	-	-	21,263
F-2	Disposal of Spent Catalyst	-	-	-	69,027	69,027
	Total (F)	21,263	-	-	69,027	90,290
	Grand Total (A+B+C+D+E+F)	1,84,52,221	1,15,49,297	2,85,45,510	3,61,59,027	9,47,06,055
Note:	Consent fee for Air/Water paid for CFO in June'2021 for 5 years(INR 1,05,00,000), per quarter shall be 5,25,000 Rs.					

