

o/c

Ref.: MFCL (Phase I)/EHS/Env/2025-26/02

The IGF& Incharge
Ministry of Environment, Forests and Climate Change
Integrated Regional Office, Kolkata
1 B-198, Bidhan Nagar
Sector III, Kolkata -700106

26th Nov, 2025

Subject: Submission of Half-Yearly Environment Clearance (EC) Compliance Report (Phase-I) for the period of April 2025 to September 2025.

Reference: MoEF&CC File No. J-11011/440/2009-IA II (I) dated 22nd April 2010 and subsequent amendments dated 19th December 2013, 15th May 2015 & 23rd February 2018.

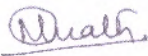
Dear Sir,

This is with reference to the Environmental Clearances issued to us under the above-mentioned file number J-11011/440/2009-IAII(I) and subsequent amendments dated 19th December 2013, 15th May 2015 & 23rd February 2018, please find enclosed herewith the half-yearly Compliance report along with relevant annexures for the period of **April 2025 to September 2025**.

We trust that the information submitted is in order and kindly request you to take the same on record.

Thanking you,

Yours faithfully,



Mahesh Debnath
(DGM – EHS)



Enclosure: As above

- Copy to:**
1. Member Secretary, West Bengal Pollution Control Board, 10A, Broadway Rd, LA Block, Sector 3, Bidhannagar, Kolkata, West Bengal-700106.
 2. Zonal Officer, Zonal Office Kolkata, Central Pollution Control Board, Kasba New Market, Sector E, East Kolkata Township, Kolkata, West Bengal - 700107
 3. Regional Officer, West Bengal Pollution Control Board, Durgapur Regional Office, Shahid Khudiram Sarani, City Center, Durgapur, West Bengal – 713216.

Matix Fertilisers and Chemicals Limited

Corporate Office:

Poonam Chambers, B Wing, 5th Floor
Dr A B. Road, Worli, Mumbai 400 018, India
T: +91 22 61167000 E: info@matixgroup.com
CIN: U24120WB2009PLC153272

Registered Office:

Panagarh Industrial Park, Panagarh
Purba Bardhaman, West Bengal 713148
India. T: +91 343 3502044/2061

www.matixgroup.com

Reference: MoEF&CC File No: J-11011 / 440/2009 – IAI (I) dated 22nd April 2010 and its amendments dated (1) 19th December 2013, (2) 15th May 2015, (3) 23rd February 2018.

Compliance Period: 1st April 2025 – 30th September 2025

S.NO	CONDITIONS	COMPLIANCE STATUS																																				
SPECIFIC CONDITIONS																																						
(i)	The company shall undertake measures for water conservation. The specific water consumption shall not exceed 8 m3/tonne of urea produced. The wastewater generated from all sources after treatment and recycled back in the process and use for green belt development to maintain zero discharges condition. The treated effluent shall conform to the prescribed standards. The process water condensate shall be recycled as boiler feed water. The process condensate from the urea and ammonia plant after stripping shall be recycled.	We have implemented multiple water conservation measures, including recycling process water, reusing treated water for dust suppression and greenbelt maintenance, rainwater harvesting etc. The specific water consumption is 3.98 m³/MT of urea produced as of 30th Sept. 2025. The zero-discharge condition was amended by the MoEF&CC to permit the discharge of 201 m³/Hr of treated effluent into the Damodar River vide letter no. J-11011/440/2009-IA II (I), dated 19.12.2013. Compliance details for this amendment are provided as an additional condition. The treated water confirms to the standard as prescribed by WBPCB. Monitoring report is given below: <table><tr><th>Sl. No.</th><th>Parameters</th><th>Prescribed Standards by WBPCB</th><th>Observed Values</th></tr><tr><td>1</td><td>pH</td><td>6.5 – 8.5</td><td>7.62</td></tr><tr><td>2</td><td>Ammoniacal Nitrogen as N (mg/Ltr)</td><td>50</td><td>13.13</td></tr><tr><td>3</td><td>Oil & Grease (mg/Ltr)</td><td>10</td><td><5.0</td></tr><tr><td>4</td><td>TSS (mg/Ltr)</td><td>100</td><td>20.33</td></tr><tr><td>5</td><td>Nitrate Nitrogen as N (mg/Ltr)</td><td>10</td><td>5.51</td></tr><tr><td>6</td><td>TKN as N (mg/Ltr)</td><td>75</td><td>16.58</td></tr><tr><td>7</td><td>CN Conc (mg/Ltr)</td><td>0.1</td><td><0.02</td></tr><tr><td>8</td><td>Free Ammonia (mg/Ltr)</td><td>2.0</td><td>1.85</td></tr></table> Additionally, the condensate water generated from the stripping process in the ammonia and urea plants is recycled back into the process.	Sl. No.	Parameters	Prescribed Standards by WBPCB	Observed Values	1	pH	6.5 – 8.5	7.62	2	Ammoniacal Nitrogen as N (mg/Ltr)	50	13.13	3	Oil & Grease (mg/Ltr)	10	<5.0	4	TSS (mg/Ltr)	100	20.33	5	Nitrate Nitrogen as N (mg/Ltr)	10	5.51	6	TKN as N (mg/Ltr)	75	16.58	7	CN Conc (mg/Ltr)	0.1	<0.02	8	Free Ammonia (mg/Ltr)	2.0	1.85
Sl. No.	Parameters	Prescribed Standards by WBPCB	Observed Values																																			
1	pH	6.5 – 8.5	7.62																																			
2	Ammoniacal Nitrogen as N (mg/Ltr)	50	13.13																																			
3	Oil & Grease (mg/Ltr)	10	<5.0																																			
4	TSS (mg/Ltr)	100	20.33																																			
5	Nitrate Nitrogen as N (mg/Ltr)	10	5.51																																			
6	TKN as N (mg/Ltr)	75	16.58																																			
7	CN Conc (mg/Ltr)	0.1	<0.02																																			
8	Free Ammonia (mg/Ltr)	2.0	1.85																																			
(ii)	The project authority shall obtain prior permission for drawl of surface water from the State Irrigation Department. A copy of permission shall be submitted to the Ministry's Regional office.	Permission for surface water extraction from the Damodar River has been obtained from the Damodar Valley River Regulation Committee (DVRRC). A copy of this permission was submitted to your office via letter no. MFCL/MoEF/CG/2011 dated 05th February 2011. Additionally, an agreement with the Damodar Valley Corporation (DVC) has been executed, in accordance with condition no. (E) specified in the permission letter.																																				
(iii)	The gaseous emissions (NOx, NH3, Urea dust) from various units including prilling tower shall conform to the prescribed standards. At no time the emission levels shall go beyond the stipulated standards. In the event of failure of	The gaseous emissions (NOx, NH3, and urea dust) are effectively controlled and maintained within the prescribed limits. In the event of any exceedance beyond the stipulated norms, immediate corrective actions are undertaken by the relevant section to																																				

	MATIX FERTILISERS AND CHEMICALS LTD (2200 MTPD Ammonia, 3850 MTPD Urea & 54 MW CPP) Panagarh, Dist. – Purba Burdwan, West Bengal Six-monthly Compliance Report of Environment Clearance	Report For PHASE - I
---	---	--

Reference: MoEF&CC File No: J-11011 / 440/2009 – IAI (I) dated 22nd April 2010 and its amendments dated (1) 19th December 2013, (2) 15th May 2015, (3) 23rd February 2018.

Compliance Period: 1st April 2025 – 30th September 2025

S.NO	CONDITIONS	COMPLIANCE STATUS																														
	pollution control system (s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	promptly restore emission levels within the prescribed standards.																														
(iv)	The Company shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and the State Pollution Control Board. The levels of PM10/PM2.5, NH3 and NOx (ambient levels) and emissions from the stacks shall be monitored and displayed at a convenient location near the main gate of the company and at important public places.	The Environmental Clearance (EC) compliance report, along with monitoring data, is regularly uploaded to the company website, with copies submitted periodically to the Regional Office of MoEF&CC, CPCB's Kolkata Zonal office, and the WBPCB. The last six-monthly compliance report was submitted via letter no. MFCL (Phase-I)/ENV/2024-25/02 dated 25th Nov 2024. Ambient Air Quality Monitoring data is enclosed as Annexure – I, and the Stack Emission Monitoring report for the period from 1st April 2025 to 30th September 2025 is enclosed as Annexure – II. Parameters observed through the Continuous Ambient Air Quality Monitoring System (CAAQMS) are displayed on a board at the factory's main gate.																														
(v)	To control fugitive emissions, regular monitoring of shop floor environment shall be carried. Leakages in the form of gases, liquid and dust emission shall be checked and mitigative measures taken. The company shall provide de-dusting system at all the transfer points in the bagging system.	Fugitive emission monitoring is carried out on a regular basis to ensure workplace safety and environmental. Gas detection systems have been strategically placed across the facility to monitor and address any potential leaks of gases such as Ammonia, CO, Cl₂ etc. Mitigative measures are promptly taken if any leakage is detected. <table><tr><th>Location</th><th>NH3</th><th>CO</th><th>HC</th><th>Cl2</th><th>H2</th></tr><tr><td>Ammonia Plant</td><td>4</td><td>3</td><td>6</td><td>0</td><td>5</td></tr><tr><td>Urea Plant</td><td>29</td><td>0</td><td>2</td><td>0</td><td>2</td></tr><tr><td>Ammonia Storage</td><td>6</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>OSBL</td><td>0</td><td>0</td><td>0</td><td>6</td><td>0</td></tr></table> Additionally, a wet de-dusting system has been installed in the Urea bagging plant. Collected Urea dust is recycled back into the process using a dissolving method, contributing to our waste minimization and resource efficiency efforts.	Location	NH3	CO	HC	Cl2	H2	Ammonia Plant	4	3	6	0	5	Urea Plant	29	0	2	0	2	Ammonia Storage	6	0	0	0	0	OSBL	0	0	0	6	0
Location	NH3	CO	HC	Cl2	H2																											
Ammonia Plant	4	3	6	0	5																											
Urea Plant	29	0	2	0	2																											
Ammonia Storage	6	0	0	0	0																											
OSBL	0	0	0	6	0																											
(vi)	The company shall provide double walled ammonia storage tank and leak detection and repair programme shall be in place and ammonia sensors shall be installed to detect the leakage of ammonia and measures shall be taken to prevent leakage of pipeline for ammonia by regular inspection of the pipeline.	In compliance with safety and environmental requirements, we have provided a double-walled ammonia storage tank to enhance containment and safety. Additionally, we have placed 6 nos. ammonia leak detection systems at key points around the storage area and other strategic locations to monitor and swiftly respond to any potential leaks. Regular inspection and preventive maintenance are conducted consistently on ammonia pipelines to prevent any leakage, with thorough records maintained for all																														

	MATIX FERTILISERS AND CHEMICALS LTD (2200 MTPD Ammonia, 3850 MTPD Urea & 54 MW CPP) Panagarh, Dist. – Purba Burdwan, West Bengal Six-monthly Compliance Report of Environment Clearance	Report For PHASE - I
---	---	--

Reference: MoEF&CC File No: J-11011 / 440/2009 – IAI (I) dated 22nd April 2010 and its amendments dated (1) 19th December 2013, (2) 15th May 2015, (3) 23rd February 2018.

Compliance Period: 1st April 2025 – 30th September 2025

S.NO	CONDITIONS	COMPLIANCE STATUS
		inspections and maintenance activities.
(vii)	The company shall undertake adequate protection measures for handling of ammonia vapour in case of plant upset condition. Safety valve exhaust and drains shall be connected to flare and vent stack.	We have implemented adequate safety measures for handling ammonia vapour in case of a plant upset condition. Safety valve exhausts are in place, and ammonia vapour is directed to dedicated flare stacks to ensure safe venting.
(viii)	The catalyst generated shall be sent to recycler for reuse instead of disposal at the waste disposal facility.	This is to confirm that compliance is being maintained for catalyst management. The catalyst generated from our process is either reused when suitable or, alternatively, sold or disposed of through a West Bengal Pollution Control Board (WBPCB) recognized agency.
(ix)	The company shall develop the green belt in 33% area, out of total area to mitigate the effect of fugitive emissions and noise as per the guidelines CPCB.	In line with CPCB guidelines, a total of 164.39 acres, representing 33% of the total land area, has been designated for green belt development to help mitigate fugitive emissions and noise. Of this earmarked area, 164.39 acres have already been covered. During this monsoon season, we planted 1414 nos. of saplings of local species, as prescribed in the EIA report, through initiatives such as World Environment Week, Swachhata Mission and other events, both within and around the factory premises.
(x)	The company shall implement all the recommendations made in the Charter on Corporate Responsibility for Environmental Protection (CREP) for fertilizer industries.	We confirm that all applicable recommendations from the Charter on Corporate Responsibility for Environmental Protection (CREP) specific to fertilizer industries are being complied with in our operations.
(xi)	Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Act.	We ensure compliance with occupational health surveillance requirements as per the Factories Act. Pre-employment health checkups are conducted for all new employees and apprentices. Additionally, periodic health checkups are carried out on a half-yearly and annual basis for all employees, with records diligently maintained as required.
(xii)	The Company shall comply with the recommendations made in the EIA/EMP and Risk Assessment and public hearing reports	We confirm compliance with all recommendations made in the EIA/EMP, Risk Assessment, and public hearing reports. All recommendations have been implemented and are continuously followed to ensure continuing improvement. The commitments made during the public hearing, along with compliance details, were submitted to the MoEF&CC, RO Kolkata, dated 22.09.2016. Compliance is actively monitored and updated periodically.
(xiii)	The Company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	We are committed to ensuring the highest standards of safety within our manufacturing and material handling processes. In line with this commitment, we have

Reference: MoEF&CC File No: J-11011 / 440/2009 – IAll (I) dated 22nd April 2010 and its amendments dated (1) 19th December 2013, (2) 15th May 2015, (3) 23rd February 2018.

Compliance Period: 1st April 2025 – 30th September 2025

S.NO	CONDITIONS	COMPLIANCE STATUS																											
		implemented comprehensive measures to protect against potential fire hazards. Key arrangements include: - Adequate firefighting systems and a robust fire network are in place to address possible fire hazards during manufacturing and material handling operations. - Separate 2 nos. fire water storage tanks with a capacity of 4,800 KL each have been installed. These tanks maintain the desired pressure in the fire network lines through auto-operated jockey pumps. - A dedicated fire cell staffed with well-trained fire crews is available 24x7 to manage any unforeseen fire incidents effectively. - An adequate number of fire extinguishers are strategically placed throughout the facility. - Fire hydrant points and monitors are provided at strategic locations to control any unpredicted events. - Two fire tenders equipped with foam facilities are on standby to handle fire emergencies promptly. - Smoke detectors and fire alarms are installed in strategic locations across the plant and are continuously monitored by the fire cell. Regular mock drills are conducted to enhance our preparedness for handling emergency situations. The last mock drill was performed in the Ammonia Plant on 2nd Sept. 2025. Please find attached the detailed lists of fire extinguishers, fire equipment, and fire detection systems for your reference. Fire Extinguishers Lists: <table> <tr> <th>S. No.</th><th>Item Description</th><th>Total Nos.</th></tr> <tr> <td>1</td><td>Ammonia & Ammonia Storage</td><td>143</td></tr> <tr> <td>2</td><td>Urea Plant</td><td>55</td></tr> <tr> <td>3</td><td>Outside Battery Limit Area</td><td>316</td></tr> <tr> <td>4</td><td>Urea Product Handling</td><td>95</td></tr> <tr> <td>5</td><td>Panel Room NG Metering Station</td><td>04</td></tr> <tr> <td>6</td><td>Skid Area of NG Metering Station</td><td>04</td></tr> </table> Fire equipment lists: <table> <tr> <th>S. No.</th><th>Item Description</th><th>Total Nos.</th></tr> <tr> <td>1</td><td>Double Headed Hydrant</td><td>249</td></tr> </table>	S. No.	Item Description	Total Nos.	1	Ammonia & Ammonia Storage	143	2	Urea Plant	55	3	Outside Battery Limit Area	316	4	Urea Product Handling	95	5	Panel Room NG Metering Station	04	6	Skid Area of NG Metering Station	04	S. No.	Item Description	Total Nos.	1	Double Headed Hydrant	249
S. No.	Item Description	Total Nos.																											
1	Ammonia & Ammonia Storage	143																											
2	Urea Plant	55																											
3	Outside Battery Limit Area	316																											
4	Urea Product Handling	95																											
5	Panel Room NG Metering Station	04																											
6	Skid Area of NG Metering Station	04																											
S. No.	Item Description	Total Nos.																											
1	Double Headed Hydrant	249																											

	MATIX FERTILISERS AND CHEMICALS LTD (2200 MTPD Ammonia, 3850 MTPD Urea & 54 MW CPP) Panagarh, Dist. – Purba Burdwan, West Bengal Six-monthly Compliance Report of Environment Clearance	Report For PHASE - I
---	---	---

Reference: MoEF&CC File No: J-11011 / 440/2009 – IAI (I) dated 22nd April 2010 and its amendments dated (1) 19th December 2013, (2) 15th May 2015, (3) 23rd February 2018.

Compliance Period: 1st April 2025 – 30th September 2025

S.NO	CONDITIONS	COMPLIANCE STATUS																																							
		<table border="1"> <tr> <td>2</td><td>Single Headed Hydrant</td><td>08</td></tr> <tr> <td>3</td><td>Fire Escape Hydrant</td><td>28</td></tr> <tr> <td>4</td><td>Fire Water Monitors</td><td>30</td></tr> </table> Fire detection Alarms lists: <table border="1"> <tr> <th>S. No.</th><th>Item Description</th><th>Total Nos.</th></tr> <tr> <td>1</td><td>Microprocessor based addressable fire alarm panel</td><td>05</td></tr> <tr> <td>2</td><td>Combined Smoke & Heat detectors</td><td>839</td></tr> <tr> <td>3</td><td>Manual Call Point (Break glass)</td><td>113</td></tr> <tr> <td>4</td><td>Addressable Hooters</td><td>47</td></tr> <tr> <td>5</td><td>Repeater Panel</td><td>01</td></tr> <tr> <td>6</td><td>Response Indicators</td><td>404</td></tr> <tr> <td>7</td><td>Hydrogen detectors</td><td>18</td></tr> <tr> <td>8</td><td>Methane</td><td>07</td></tr> <tr> <td>9</td><td>Siren</td><td>03</td></tr> </table>	2	Single Headed Hydrant	08	3	Fire Escape Hydrant	28	4	Fire Water Monitors	30	S. No.	Item Description	Total Nos.	1	Microprocessor based addressable fire alarm panel	05	2	Combined Smoke & Heat detectors	839	3	Manual Call Point (Break glass)	113	4	Addressable Hooters	47	5	Repeater Panel	01	6	Response Indicators	404	7	Hydrogen detectors	18	8	Methane	07	9	Siren	03
2	Single Headed Hydrant	08																																							
3	Fire Escape Hydrant	28																																							
4	Fire Water Monitors	30																																							
S. No.	Item Description	Total Nos.																																							
1	Microprocessor based addressable fire alarm panel	05																																							
2	Combined Smoke & Heat detectors	839																																							
3	Manual Call Point (Break glass)	113																																							
4	Addressable Hooters	47																																							
5	Repeater Panel	01																																							
6	Response Indicators	404																																							
7	Hydrogen detectors	18																																							
8	Methane	07																																							
9	Siren	03																																							
(xiv)	During transfer of materials, spillages shall be avoided, and garland drains be constructed to avoid mixing of accidental spillages with domestic waste and storm drains.	We have implemented careful measures to prevent spillage during material transfer. Any incidental spillage is promptly recovered and recycled to the fullest extent possible. Additionally, separate garland drains have been constructed to prevent accidental spillages from mixing with domestic waste and storm drains, ensuring a safe and compliant operational environment.																																							
(xv)	The company shall develop rainwater harvesting structures to harvest the runoff water for recharge of ground water.	We have developed a Rainwater Harvesting (RWH) pond to collect runoff water, which is then reused and recycled within the plant for various operations. This initiative supports our commitment to water conservation and groundwater recharge.																																							
(xvi)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel of cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	As the plant is now operational, all temporary structures that were used for housing construction labour have been removed, and no construction workers are currently residing within the factory premises.																																							
GENERAL CONDITIONS																																									
(i)	The project authorities shall strictly adhere to the stipulations of the SPCB/ State Government or any statutory body.	We strictly adhere to all stipulations set forth by the SPCB, State Government, and any other relevant statutory bodies. All required conditions have been complied with, and the necessary reports are submitted to the concerned authorities on time, as per their requirements.																																							

	MATIX FERTILISERS AND CHEMICALS LTD (2200 MTPD Ammonia, 3850 MTPD Urea & 54 MW CPP) Panagarh, Dist. – Purba Burdwan, West Bengal Six-monthly Compliance Report of Environment Clearance	Report For PHASE - I
---	---	---

Reference: MoEF&CC File No: J-11011 / 440/2009 – IAI (I) dated 22nd April 2010 and its amendments dated (1) 19th December 2013, (2) 15th May 2015, (3) 23rd February 2018.

Compliance Period: 1st April 2025 – 30th September 2025

S.NO	CONDITIONS	COMPLIANCE STATUS
(ii)	The gaseous emissions (SO₂, HCl, NO_x, NH₃, fertilizer dust) and particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. Emission data shall be periodically monitored and reports submitted to Ministry's Regional Office, CPCB and SPCB.	We regularly monitor gaseous emissions, including SO₂, HCl, NO_x, NH₃, fertilizer dust, and particulate matter, through internal resources, and all results have consistently been within the prescribed standards. Additionally, we have engaged a NABL-recognized third-party laboratory for periodic monitoring, and the results are routinely submitted to the concerned authorities. The monitoring data for Ambient Air Quality, Stack Emissions, Effluent Water Quality, and Groundwater Quality for the period of 1st April 2025 to 30th September 2025 are enclosed as Annexures – I, II, III & IV respectively. Furthermore, real-time monitoring data is continuously transmitted to both the CPCB and WBPCB servers.
(iii)	All the waste waters generated from the various processes shall be recycled/ reused in the plant and zero discharge shall be maintained. The domestic wastewater shall be treated in septic tanks and treated waste shall be used for irrigation in the green belt.	We have implemented effective measures to recycle and reuse wastewater generated from various processes within the plant. Treated wastewater is reused in plant operations, including dust suppression and for irrigation in the green belt area. Additionally, we have initiated several water conservation efforts, such as the recycling of process water and rainwater harvesting etc. Regarding the zero-discharge condition, it was amended by MoEF&CC to allow the discharge of 201 m³/Hr. of treated effluent into the Damodar River, as per their letter No. J-11011/440/2009 - IA II (I), dated 19/12/2013. The treated effluent is discharged into the river in compliance with the conditions laid down by WBPCB.
(iv)	No further expansion of modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alternations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	We ensure that any modifications to the plant are carried out only after obtaining prior approval from the concerned authorities. Below are the details of the approvals we have received for specific modifications and deviations: 1) EC Amendment (2013): The Environmental Clearance (EC) was amended by MoEF&CC vide letter No. J-11011/440/2009-IA II (I), dated 19.12.2013, to increase the power plant capacity from 33 MW to 54 MW and permit the discharge of 201 m³/Hr. of treated effluent into the Damodar River. 2) EC Amendment (2015): The EC was amended by MoEF&CC vide letter No. J-11011/440/2009-IA II (I), dated 15.05.2015, for the use of Naphtha as fuel in addition to CBM. However, we have not used Naphtha and have surrendered the Naphtha storage and handling license and informed to all concerned

	MATIX FERTILISERS AND CHEMICALS LTD (2200 MTPD Ammonia, 3850 MTPD Urea & 54 MW CPP) Panagarh, Dist. – Purba Burdwan, West Bengal Six-monthly Compliance Report of Environment Clearance	Report For PHASE - I
---	---	---

Reference: MoEF&CC File No: J-11011 / 440/2009 – IAI (I) dated 22nd April 2010 and its amendments dated (1) 19th December 2013, (2) 15th May 2015, (3) 23rd February 2018.

Compliance Period: 1st April 2025 – 30th September 2025

S.NO	CONDITIONS	COMPLIANCE STATUS
		authorities. 3) Propane Exemption (2018): MoEF&CC granted an exemption for the requirement of EC amendment for the use of propane as fuel in the primary reformer vide letter dated 23.02.2018. Approval for this use was obtained from WBPCB. However, we have not used propane, and the related activities were withdrawn. 4) Plant Layout Approval: The revised plant layout has been approved by the Directorate of Factories, as per their letter No. WBF/OL/2018/P. 5) No Increase in Pollution Load (NIPL) Certificate: We have obtained the NIPL certificate from WBPCB vide letter No. 643-2N-29/2022(E)-Part-IV, dated 19.09.2024, for the 15% enhancement in production capacity of Ammonia & Urea. For any future modifications or changes, we will ensure to take prior approval from the relevant authorities.
(v)	At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	We ensure that emissions are continuously monitored and maintained within the prescribed limits as per the stipulated standards. The stack emission monitoring reports for the period are enclosed as Annexure-II. In the event of any emission exceeding the prescribed norms, immediate corrective action is taken by the concerned section to bring the emission levels back within the prescribed limits. If necessary, the respective unit is temporarily suspended from operation until the desired efficiency is restored.
(vi)	The locations of ambient air quality monitoring stations shall be reviewed in consultation with the State Pollution Control Board (SPCB) and additional stations shall be installed, if required, in the downwind direction as well as where maximum ground level concentrations are anticipated.	The locations for the Ambient Air Quality Monitoring Stations (AAQMS) have been finalized in consultation with WBPCB. Presently, we have three manual AAQMS in place, and regular monitoring is conducted both internally and through NABL-accredited external agencies, as per the prescribed standards. In addition, we have installed one continuous Ambient Air Quality Monitoring Station (CAAQMS). The real-time results from this station are publicly displayed at our main gate for transparency and easy access. Further, two additional CAAQMS have also been installed to strengthen our ambient air quality monitoring network.
(vii)	Dedicated scrubbers and stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided to control the	We have provided stacks of appropriate height in compliance with CPCB guidelines to control emissions

	MATIX FERTILISERS AND CHEMICALS LTD (2200 MTPD Ammonia, 3850 MTPD Urea & 54 MW CPP) Panagarh, Dist. – Purba Burdwan, West Bengal Six-monthly Compliance Report of Environment Clearance	Report For PHASE - I
---	---	--

Reference: MoEF&CC File No: J-11011 / 440/2009 – IAI (I) dated 22nd April 2010 and its amendments dated (1) 19th December 2013, (2) 15th May 2015, (3) 23rd February 2018.

Compliance Period: 1st April 2025 – 30th September 2025

S.NO	CONDITIONS	COMPLIANCE STATUS
	emissions from various vents. The scrubbed water shall be sent to ETP for further treatment.	from various vents. Additionally, hydrolyzers and strippers are installed at the Urea plant, and a scrubber has been provided at the Urea bagging unit to further mitigate emissions. The water from the scrubber is recycled back into the process to minimize waste and ensure efficient water use within the plant.
(viii)	All the storage tanks will be under negative pressure to avoid any leakages. Breather valves. N2 blanketing and secondary condensers with brine chilling system shall be provided for all the storage tanks to minimize vapour losses. All liquid raw material shall be stored in storage Tanks and Drums.	All of our storage tanks are designed to operate under atmospheric pressure. Liquefied ammonia, in particular, is stored in atmospheric storage tanks, which are equipped with N2 blanketing facilities to minimize vapour losses. For all liquid raw materials and chemicals, we ensure proper storage in tanks or drums, with secondary containment measures in place to prevent leaks and ensure safety.
(ix)	The company shall undertake following Waste Minimization measures. ➤ Metering and control of quantities of active ingredients to minimize waste. ➤ Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. ➤ Use of automated filling to minimize spillage. ➤ Use of 'closed Feed' system into batch reactors. ➤ Venting equipment through vapour recovery system. ➤ Use of high pressure hoses for equipment cleaning to reduce wastewater generation.	We have installed a state-of-the-art technology plant that incorporates advanced features, including those necessary for pollution control, energy conservation, and increased operational efficiency. Below are the specific waste minimization measures we have implemented: • Metering and Control: Metering and control systems for active ingredients are in place to minimize waste generation during production. • Reuse of By-products: By-products generated in the Ammonia plant are reused as raw materials in the Urea plant. • Automated Filling System: An automated filling system has been installed in both the Urea bagging unit and Ammonia storage. • Closed Feed System: The plant operates on the principle of a closed circuit and continuous process. As such, there is no batch process involved. • Vapour Recovery System: All steam vents are connected to the Heat Recovery Steam Generator (HRSG) for power generation. Additionally, the Ammonia storage is equipped with a vapour recovery system. • High-Pressure Hose Use: High-pressure hoses are avoided for routine cleaning. In emergency situations, it is used with all necessary safety precautions. These measures ensure efficient use of resources.

Reference: MoEF&CC File No: J-11011 / 440/2009 – IAll (I) dated 22nd April 2010 and its amendments dated (1) 19th December 2013, (2) 15th May 2015, (3) 23rd February 2018.

Compliance Period: 1st April 2025 – 30th September 2025

S.NO	CONDITIONS	COMPLIANCE STATUS
		minimize waste generation, and contribute to our environmental sustainability efforts.
(x)	Fugitive emissions in the work zone environment, product and raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by state pollution control board/central pollution control board.	Fugitive emissions within the work zone environment, as well as in product and raw materials storage areas, are being rigorously monitored through a certified external agency. We ensure that all monitored emissions comply with the prescribed standards of the Central Pollution Control Board (CPCB) and the West Bengal Pollution Control Board (WBPCB). To further enhance our monitoring capabilities, we have installed multiple online detectors for Ammonia, hydrocarbons, CO, and Cl₂ at strategic locations across the facility. This approach supports our commitment to maintaining a safe and compliant work environment.
(x)	The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000.	We confirm that our unit fully complies with the Manufacture, Storage, and Import of Hazardous Chemicals (MSIHC) Rules, 1989, along with all subsequent amendments in October 1994 and January 2000, as applicable.
(xi)	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz 75 dBA (day time) and 70 dBA (night time).	The noise levels in and around the plant area are being maintained well within the prescribed standards. Silencers have been installed on process and steam vents in the Ammonia, Urea, and power plants. Additionally, the generator (GD) sets are equipped with acoustic enclosures and silencers to further reduce noise emissions. Ambient noise levels are monitored regularly to ensure compliance with the standards set under the Environment (Protection) Act, 1986 Rules, 1989, which are 75 dBA for daytime and 70 dBA for nighttime. Enclosed as Annexure - V is the noise monitoring data for the period from April 1, 2025, to September 30, 2025, for your reference.
(xii)	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan should be submitted to the SPCB within three months of receipt of this letter for approval.	The eco-development plan has already been submitted to the West Bengal Pollution Control Board (WBPCB) as per the stipulated timeline. During the project phase, various eco-developmental measures were undertaken and we continue to implement these on an ongoing basis through our CSR initiatives. These initiatives are tailored to address local needs and contribute to the overall improvement of the environment and community welfare in the project area. For the current financial year 2025-26, till September we have spent over ₹7.82 lakhs on CSR activities, ensuring

	MATIX FERTILISERS AND CHEMICALS LTD (2200 MTPD Ammonia, 3850 MTPD Urea & 54 MW CPP) Panagarh, Dist. – Purba Burdwan, West Bengal	Report For PHASE - I
	Six-monthly Compliance Report of Environment Clearance	

Reference: MoEF&CC File No: J-11011 / 440/2009 – IAI (I) dated 22nd April 2010 and its amendments dated (1) 19th December 2013, (2) 15th May 2015, (3) 23rd February 2018.

Compliance Period: 1st April 2025 – 30th September 2025

S.NO	CONDITIONS	COMPLIANCE STATUS
		sustained efforts in alignment with our commitments. CSR Report is enclosed as Annexure VI .
(xiv)	A separate Environmental Management cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	A dedicated Environmental Management cell has been established, led by our DGM (EHS), to oversee all Environmental Management and Monitoring functions. This cell is supported by a fully equipped in-house environmental laboratory, providing all necessary facilities for comprehensive environmental monitoring.
(xv)	The project authorities shall earmark adequate funds to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation Schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Adequate funds have been exclusively earmarked for environmental protection initiatives, ensuring dedicated resources to meet all Environmental Management requirements. These funds are strictly allocated and will not be diverted for any other purpose. All conditions stipulated by the Ministry of Environment and Forests, as well as the State Government, are being complied with as part of our ongoing commitment to environmental stewardship.
(xvi)	The implementation of the project vis-à-vis environmental action plans shall be monitored by the concerned Regional office of the Ministry/SPCB/CPCB. A six monthly compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the company.	Six-monthly compliance reports are consistently submitted to the Ministry of Environment, Forest and Climate Change (MoEF&CC) Regional Office, as well as the Zonal Office of CPCB and SPCB. These reports are also uploaded regularly on the company's website to ensure transparency. The latest compliance report was submitted via our letter no. MFCL (Phase-I)/ENV/2025-26/01, dated 30 th May 2025. Additionally, compliance reports are uploaded to the Parivesh Portal, providing comprehensive access and transparency.
(xvii)	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	Complied with immediately upon receipt of the Environmental Clearance.
(xviii)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated E C 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 of CPCB and the State Pollution Control Board.	Six-monthly compliance reports, including all monitored data, are being submitted both in hard copy and via email to the MoEF&CC Regional Office, the Zonal Office of CPCB, and the WBPCB, in accordance with the stipulated guidelines. The latest compliance report was submitted through our letter no. MFCL (Phase-I)/ENV/2025-26/01, dated 30 th May 2025.
(xix)	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned	The Environmental Statement in Form V is submitted annually to the WBPCB on September 30 th , as required under the Environment (Protection) Rules, 1986. For the

	MATIX FERTILISERS AND CHEMICALS LTD (2200 MTPD Ammonia, 3850 MTPD Urea & 54 MW CPP) Panagarh, Dist. – Purba Burdwan, West Bengal Six-monthly Compliance Report of Environment Clearance	Report For PHASE - I
---	---	---

Reference: MoEF&CC File No: J-11011 / 440/2009 – IAll (I) dated 22nd April 2010 and its amendments dated (1) 19th December 2013, (2) 15th May 2015, (3) 23rd February 2018.

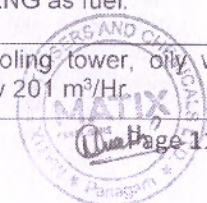
Compliance Period: 1st April 2025 – 30th September 2025

S.NO	CONDITIONS	COMPLIANCE STATUS
	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 respective Regional Offices of MoEF by e-mail.	financial year 2024-25, the statement was submitted on September 25, 2025, through online and is enclosed as Annexure - VII . This document is also included as Annexure VII in the six-monthly compliance report submitted to MoEF&CC, both via email and in hard copy, and is uploaded on the company's website along with the status of compliance with environmental clearance conditions.
(xx)	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 on 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.	The Environmental Clearance (EC) was published in two widely circulated local newspapers, including one in the vernacular language of the locality, immediately after receipt of the clearance, in compliance with the prescribed mandate. A copy of the advertisement has been forwarded to the concerned Regional Office of the Ministry.
(xxi)	The project authorities shall inform the Regional office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	- The date of financial closure has already been communicated to the Regional Office (RO) & MoEF&CC. - The Steam and power generation (SPG) unit was successfully commissioned in August 2015, along with all associated utility services and is currently operational. - The commercial production of Urea commenced on 1st October 2017.

EC Ref.: MoEF&CC File No: J11011/440/2009-IA II (I) dated 19th December 2013.

Additional Conditions

(i)	All the specific conditions and general conditions specified in the Environmental clearance vide Ministry's letter no. J-11011/440/2009-IA (I) dated 22 nd March 2010 shall be implemented.	To ensure compliance, all specific and general conditions outlined in the Environmental Clearance, as per the Ministry's letter no. J-11011/440/2009-IA (I) dated 22 nd March 2010, are being complied.
(ii)	Company shall enhance the captive power plant capacity from 33 MW to 54 MW comprising of one GTG of 24 MW and one STG of 30 MW. The fuel shall be used as gas. Low NOx burner shall be installed.	The captive power plant with a capacity of 54 MW, comprising one GTG of 24 MW and one STG of 30 MW, has been installed as specified. A Low NOx burner is in place, and we are utilizing NG/RLNG as fuel.
(iii)	The effluent generation from cooling tower, oily water and DM plant effluent shall not be	The effluent generated from cooling tower, oily water and DM plant is maintained below 201 m ³ /Hr.



	MATIX FERTILISERS AND CHEMICALS LTD (2200 MTPD Ammonia, 3850 MTPD Urea & 54 MW CPP) Panagarh, Dist. – Purba Burdwan, West Bengal Six-monthly Compliance Report of Environment Clearance	Report For PHASE - I
---	---	---

Reference: MoEF&CC File No: J-11011 / 440/2009 – IAI (I) dated 22nd April 2010 and its amendments dated (1) 19th December 2013, (2) 15th May 2015, (3) 23rd February 2018.

Compliance Period: 1st April 2025 – 30th September 2025

S.NO	CONDITIONS	COMPLIANCE STATUS
	exceeded 201 m³/Hr. All the effluents after treatment shall be routed through a properly lined guard pond/holding pond for equalization and final control. In the guard pond /holding pond automatic monitoring system for flow and relevant pollutants (i.e. pH, ammoniacal nitrogen, nitrate nitrogen etc. shall be provided with high level alarm system.	Effluent from the DM plant undergoes neutralization in a dedicated neutralization pit. Effluents from the cooling tower, boiler blowdown, and the neutralized DM plant effluent are further treated in the ETP and collected in two holding ponds. Once the water quality in the holding ponds meets the stipulated standards, it is reused for greenbelt development and horticulture purposes. Any surplus effluent is discharged into the Damodar River in compliance with regulations. An automatic monitoring system is in place to continuously monitor flow, pH, ammoniacal nitrogen, and nitrate nitrogen, with real-time data transferred to the CPCB server as per guidelines.
(iv)	The treated water discharged into the River Damodar after confirming the standards prescribed for the effluent discharge and after obtaining permission from the WBSPCB. No process effluent will be discharged in and around the project site.	The treated effluent meets the specified standards prior to discharge into the River Damodar. The West Bengal State Pollution Control Board (WBSPCB) has granted Consent to Operate, permitting the discharge of treated effluent into the Damodar River, as per their letter no. CO123385 dated 29.04.2022.
(v)	Regular monitoring of ground water by installing piezometric wells around the guard pond and sludge disposal sites shall periodically be done and report submitted to the Bhubaneswar Regional Office of the Ministry, CPCB and SPCB.	Ground water monitoring is conducted regularly from piezometric wells located around the guard pond and sludge disposal sites. This monitoring is performed both in our internal laboratory and through an NABL-accredited third-party laboratory. Copies of analysis reports prepared by our in-house laboratory, is attached herewith as Annexure-IV, for reference.
EC Ref.: MoEF&CC File No: J11011/440/2009/-IA II (I) dated 15h May 2015. <i>(Note: The proposed under the subject EC has been discontinued and will not be used.)</i>		
(i)	All the safety precaution mentioned in the risk assesment shall be implemented.	This is to confirm that all safety precautions outlined in the risk assessment study have been fully implemented. Additionally, please note the following updates: - Naphtha is no longer used as fuel in our operations. We are using Natural Gas (NG) / Regasified Liquefied Natural Gas (RLNG) supplied by GAIL. - We have officially surrendered the license for Naphtha handling and storage, and the associated facilities have been dismantled. A copy of the surrender request and the Petroleum and Explosives Safety Organisation (PESO) acceptance letter is enclosed as Annexure-VIII (A & B) for your reference.
(ii)	Automatic online monitoring system (24x7 monitoring device) for flow measurement and related pollutants in the treated effluent to be installed. The data to be made available to the	An online continuous effluent monitoring system has been successfully installed in the treated effluent discharge line. This system includes real-time monitoring of key parameters such as flow, pH, Ammoniacal

	MATIX FERTILISERS AND CHEMICALS LTD (2200 MTPD Ammonia, 3850 MTPD Urea & 54 MW CPP) Panagarh, Dist. – Purba Burdwan, West Bengal Six-monthly Compliance Report of Environment Clearance	Report For PHASE - I
---	---	---

Reference: MoEF&CC File No: J-11011 / 440/2009 – IAI (I) dated 22nd April 2010 and its amendments dated (1) 19th December 2013, (2) 15th May 2015, (3) 23rd February 2018.

Compliance Period: 1st April 2025 – 30th September 2025

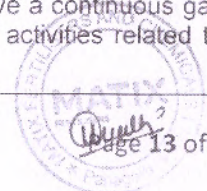
S.NO	CONDITIONS	COMPLIANCE STATUS
	SPCB and Company Website	Nitrogen, and Nitrate Nitrogen. The data from these parameters is monitored continuously at our Distributed Control System (DCS) and is relayed in real time to the Central Pollution Control Board (CPCB) and the West Bengal Pollution Board (WBPCB) servers. This initiative ensures compliance and transparency with our environmental commitments.
(iii)	Similarly Automatic online monitoring system (24x7 monitoring device) for air emission to be installed. The data to be made available to the respective SPCB and the company website.	Online emission monitoring analyzers have been installed in the stacks of the HRSG, Auxiliary Boiler, and Primary Reformer. These analyzers continuously measure key air emission parameters, including Particulate Matter (PM), Sulfur Dioxide (SO₂), and Nitrogen Oxides (NO_x). The data collected is transmitted at regular intervals to both the Central Pollution Control Board (CPCB) and the West Bengal Pollution Control Board (WBPCB) servers, ensuring real-time monitoring and regulatory compliance.

EC Ref.: MoEF&CC File No: J11011/440/2009/-IA II (I) dated 23rd February 2018

(Note: The proposed under the subject EC has been discontinued and will not be used.)

Additional Conditions

(i)	The proposal was considered by the sectoral Expert Appraisal Committee (EAC) in its 30 th meeting held during 2-3 November, 2017. The Committee noted that the proposed additional fuel arrangement would save the equivalent quantity of CBM, resulting in its increased availability as feedstock for increase in plant throughput. The Committee also suggested that such proposals involving no change in production capacity and not contributing to any increase in pollution load, may not be insisted for any environmental clearance or amendment in the existing environmental clearance.	Noted.
(ii)	Based on recommendations of the EAC and further deliberations in the Ministry vis-a-vis the Ministry's Notification dated 23rd November, 2016, you are required to obtain 'No increase in pollution load' certificate from the concerned State Pollution Control Board in accordance with the provisions of the said Notification. You are also requested to submit compliance status of the existing EC conditions after receipt of the desired certification from the SPCB.	We have obtained the "No Increase in Pollution Load" (NIPL) certificate from the West Bengal Pollution Control Board (WBPCB), which issued a recommendation for the use of commercial propane on 18.09.2018. However, propane is not being used in our plant operations. The propane facilities have been decommissioned, and we now receive a continuous gas supply from GAIL and there are no activities related to propane running as of now.



	Matix Fertilisers & Chemicals Ltd Panagarh	Document No:	MFCL/Env/EMF/01
		Date of Issued:	01/05/2025
	Ambient Air Quality Monitoring Report	Issued No.:	01
		Revision No.:	00
		Revision Date:	00

Annexure - I

Sample collected and tested by: In-house Laboratory

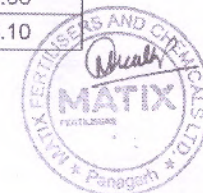
*Sample Collected and tested by: External 3rd party Laboratory (NABL Accredited)

Month: April 2025

Parameters	Unit	Permissible limits (NAAQS)	AAQM Station - 1 (Near Fire & Safety Building)							
			04.04.2025	08.04.2025	11.04.2025	*15.04.2025	18.04.2025	22.04.2025	25.04.2025	*28.04.2025
PM 10	µg/m3	100	86.85	92.51	95.26	77.08	89.65	90.52	88.20	85.66
PM 2.5	µg/m3	60	50.64	56.00	47.60	41.25	56.00	49.19	53.77	46.67
Sulphur Dioxide (SO2)	µg/m3	80	2.01	2.60	2.02	4.44	2.50	2.98	2.08	4.47
Nitrogen Oxides (NO2)	µg/m3	80	17.70	18.20	18.25	31.39	23.00	17.80	12.90	31.54
Ammonia (NH3)	µg/m3	400	31.55	28.00	32.70	23.66	31.00	30.00	37.48	24.48

Parameters	Unit	Permissible limits (NAAQS)	AAQM Station - 2 (Near Cooling Tower)							
			04.04.2025	*07.04.2025	11.04.2025	*15.04.2025	18.04.2025	*21.04.2025	22.04.2025	25.04.2025
PM 10	µg/m3	100	86.23	73.31	86.54	70.96	80.50	78.75	81.20	85.65
PM 2.5	µg/m3	60	50.12	37.92	53.26	35.83	52.00	38.33	54.27	50.98
Sulphur Dioxide (SO2)	µg/m3	80	2.44	4.70	2.90	4.23	2.40	4.94	2.78	1.89
Nitrogen Oxides (NO2)	µg/m3	80	16.04	31.54	14.08	31.02	15.00	32.07	14.40	13.80
Ammonia (NH3)	µg/m3	400	33.85	22.91	29.87	22.65	28.00	24.92	30.88	34.10

Parameters	Unit	Permissible limits (NAAQS)	AAQM Station - 3 (Near Batching Plant)							
			04.04.2025	*07.04.2025	11.04.2025	15.04.2025	18.04.2025	*21.04.2025	25.04.2025	*28.04.2025
PM 10	µg/m3	100	89.59	89.96	92.54	89.10	92.52	93.89	88.42	78.85
PM 2.5	µg/m3	60	45.38	43.75	53.50	50.02	56.20	51.67	46.16	39.58
Sulphur Dioxide (SO2)	µg/m3	80	2.72	4.91	3.07	2.74	3.20	4.91	2.57	4.21
Nitrogen Oxides (NO2)	µg/m3	80	14.93	32.17	12.28	13.55	19.20	32.96	10.52	30.86
Ammonia (NH3)	µg/m3	400	27.31	23.93	32.29	33.37	37.20	23.84	31.00	26.10



	Matix Fertilisers & Chemicals Ltd Panagarh	Document No:	MFCL/Env/EMF/01
		Date of Issued:	01/05/2025
	Ambient Air Quality Monitoring Report	Issued No.:	01
		Revision No.:	00
		Revision Date:	00

Annexure - I

Month: May 2025

Parameters	Unit	Permissible limits (NAAQS)	AAQM Station - 1 (Near Fire & Safety Building)							
			02.05.2025	*05.05.2025	13.05.2025	16.05.2025	*19.05.2025	20.05.2025	*26.05.2025	27.05.2025
PM 10	µg/m3	100	81	93	77	87	74	73	82	77
PM 2.5	µg/m3	60	45	58	57	58	38	52	40	50
Sulphur Dioxide (SO2)	µg/m3	80	3.1	4.8	2.6	2.9	4.8	2.8	5	3.7
Nitrogen Oxides (NO2)	µg/m3	80	19	32	15	16	31	16	31	17
Ammonia (NH3)	µg/m3	400	27	25	25	27	23	23	23	29

Parameters	Unit	Permissible limits (NAAQS)	AAQM Station - 2 (Near Cooling Tower)							
			02.05.2025	06.05.2025	13.05.2025	*14.05.2025	16.05.2025	*19.05.2025	20.05.2025	27.05.2025
PM 10	µg/m3	100	70	71	74	76	80	68	70	74
PM 2.5	µg/m3	60	55	39	37	34	42	31	48	59
Sulphur Dioxide (SO2)	µg/m3	80	3.8	2.8	2.3	5	3.2	5	3.0	2.5
Nitrogen Oxides (NO2)	µg/m3	80	20	21	17	30	16	31	18	15
Ammonia (NH3)	µg/m3	400	31	30	29	23	31	23	27	23

Parameters	Unit	Permissible limits (NAAQS)	AAQM Station - 3 (Near Batching Plant)							
			02.05.2025	*05.05.2025	13.05.2025	*14.05.2025	16.05.2025	20.05.2025	*26.05.2025	27.05.2025
PM 10	µg/m3	100	88	84	86	81	88	81	79	93
PM 2.5	µg/m3	60	54	48	48	44	52	56	38	55
Sulphur Dioxide (SO2)	µg/m3	80	3.0	5	2.6	4	2.4	2.6	5	2.8
Nitrogen Oxides (NO2)	µg/m3	80	15	32	16	31	15	16	31	16
Ammonia (NH3)	µg/m3	400	31	24	31	23	27	29	22	31



	Matix Fertilisers & Chemicals Ltd Panagarh	Document No:	MFCL/Env/EMF/01
		Date of Issued:	01/05/2025
	Ambient Air Quality Monitoring Report	Issued No.:	01
		Revision No.:	00
		Revision Date:	00

Month: June 2025

Annexure - I

Parameters	Unit	Permissible limits (NAAQS)	AAQM Station - 1 (Near Fire & Safety Building)							
			04.06.2025	07.06.2025	*09.06.2025	11.06.2025	*16.06.2025	18.06.2025	*23.06.2025	28.06.2025
PM 10	µg/m3	100	76.82	71.97	61.91	46.40	58.63	59.10	80.37	55.79
PM 2.5	µg/m3	60	39.73	36.89	29.58	24.30	27.50	36.20	39.58	31.79
Sulphur Dioxide (SO2)	µg/m3	80	2.60	2.26	5.03	2.98	4.41	3.70	4.66	3.50
Nitrogen Oxides (NO2)	µg/m3	80	13.79	13.00	29.65	12.94	27.61	13.10	30.68	15.10
Ammonia (NH3)	µg/m3	400	39.85	38.90	23.75	33.50	20.28	37.40	22.93	35.12

Parameters	Unit	Permissible limits (NAAQS)	AAQM Station - 2 (Near Cooling Tower)							
			*02.06.2025	07.06.2025	*09.06.2025	11.06.2025	18.06.2025	*23.06.2025	24.06.2025	28.06.2025
PM 10	µg/m3	100	78.82	69.23	64.61	52.22	61.07	75.29	62.20	59.58
PM 2.5	µg/m3	60	37.5	31.69	31.67	30.77	39.67	32.50	43.60	37.48
Sulphur Dioxide (SO2)	µg/m3	80	4.68	2.74	4.86	3.57	2.80	4.42	3.10	2.48
Nitrogen Oxides (NO2)	µg/m3	80	30.86	14.00	29.87	15.60	15.47	29.19	16.60	15.40
Ammonia (NH3)	µg/m3	400	22.88	40.90	23.90	30.44	33.58	24.19	35.40	29.72

Parameters	Unit	Permissible limits (NAAQS)	AAQM Station - 3 (Near Batching Plant)							
			*02.06.2025	04.06.2025	07.06.2025	11.06.2025	*16.06.2025	18.06.2025	24.06.2025	28.06.2025
PM 10	µg/m3	100	82.86	93.00	57.50	55.50	56.46	60.30	68.60	66.00
PM 2.5	µg/m3	60	40.42	39.00	35.30	27.87	24.17	38.11	40.20	40.56
Sulphur Dioxide (SO2)	µg/m3	80	4.79	2.45	2.80	2.28	4.13	2.58	2.20	2.32
Nitrogen Oxides (NO2)	µg/m3	80	30.29	14.27	15.40	13.80	26.32	12.00	12.60	12.97
Ammonia (NH3)	µg/m3	400	22.21	27.00	33.98	23.10	20.56	26.33	28.60	28.40



	Matix Fertilisers & Chemicals Ltd Panagarh	Document No:	MFCL/Env/EMF/01
		Date of Issued:	01/05/2025
	Ambient Air Quality Monitoring Report	Issued No.:	01
		Revision No.:	00
		Revision Date:	00

Annexure - I

Month: July 2025

Parameters	Unit	Permissible limits (NAAQS)	AAQM Station - 1 (Near Fire & Safety Building)							
			02.07.2025	*07.07.2025	15.07.2025	18.07.2025	*21.07.2025	22.07.2025	25.07.2025	30.07.2025
PM 10	µg/m3	100	56.32	61.19	44.37	51.53	65.65	69.46	52.37	38.40
PM 2.5	µg/m3	60	21.17	27.50	26.67	30.90	32.08	36.69	27.79	21.87
Sulphur Dioxide (SO2)	µg/m3	80	3.01	4.41	2.75	2.01	4.17	1.31	2.83	1.85
Nitrogen Oxides (NO2)	µg/m3	80	10.86	30.16	12.66	10.86	28.67	10.55	11.70	7.17
Ammonia (NH3)	µg/m3	400	25.91	19.28	41.79	43.50	18.34	29.76	31.93	26.50

Parameters	Unit	Permissible limits (NAAQS)	AAQM Station - 2 (Near Cooling Tower)							
			*02.07.2025	*07.07.2025	*14.07.2025	15.07.2025	18.07.2025	22.07.2025	25.07.2025	30.07.2025
PM 10	µg/m3	100	57.14	54.64	54.77	40.85	45.78	51.12	45.50	36.39
PM 2.5	µg/m3	60	24.58	21.67	23.79	24.02	26.97	25.15	31.70	19.12
Sulphur Dioxide (SO2)	µg/m3	80	4.54	4.30	4.30	1.70	1.77	1.58	2.30	2.44
Nitrogen Oxides (NO2)	µg/m3	80	29.71	28.67	28.15	13.11	11.53	8.86	8.00	10.00
Ammonia (NH3)	µg/m3	400	18.69	19.58	20.90	32.98	42.27	34.69	36.27	33.76

Parameters	Unit	Permissible limits (NAAQS)	AAQM Station - 3 (Near Batching Plant)							
			*02.07.2025	08.07.2025	*14.07.2025	15.07.2025	18.07.2025	*21.07.2025	25.07.2025	30.07.2025
PM 10	µg/m3	100	62.62	66.00	61.52	61.00	58.00	61.98	55.00	66.60
PM 2.5	µg/m3	60	28.33	30.60	27.92	29.81	33.02	27.08	36.77	22.81
Sulphur Dioxide (SO2)	µg/m3	80	4.41	2.26	4.17	2.31	2.09	4.29	2.00	1.09
Nitrogen Oxides (NO2)	µg/m3	80	28.63	14.82	28.93	11.86	9.83	29.65	10.53	9.00
Ammonia (NH3)	µg/m3	400	18.84	39.00	20.26	36.77	40.98	19.28	27.65	13.14



	Matix Fertilisers & Chemicals Ltd Panagarh		Document No:	MFCL/Env/EMF/01
			Date of Issued:	01/05/2025
	Ambient Air Quality Monitoring Report		Issued No.:	01
			Revision No.:	00
			Revision Date:	00

Month: August 2025

Annexure - I

Parameters	Unit	Permissible limits (NAAQS)	AAQM Station - 1 (Near Fire & Safety Building)						
			01.08.2025	*04.08.2025	08.08.2025	*11.08.2025	15.08.2025	20.08.2025	*25.08.2025
PM 10	µg/m3	100	62.50	61.19	58.22	73.61	46.10	52.6	78.87
PM 2.5	µg/m3	60	27.60	30.42	31.30	37.50	28.21	32.2	32.50
Sulphur Dioxide (SO2)	µg/m3	80	2.60	4.17	1.71	4.54	2.90	1.80	4.54
Nitrogen Oxides (NO2)	µg/m3	80	10.0	26.63	9.10	30.21	11.40	9.00	29.14
Ammonia (NH3)	µg/m3	400	42.60	18.87	45.55	23.19	45.69	38.94	22.63

Parameters	Unit	Permissible limits (NAAQS)	AAQM Station - 2 (Near Cooling Tower)						
			01.08.2025	08.08.2025	*11.08.2025	12.08.2025	15.08.2025	*18.08.2025	20.08.2025
PM 10	µg/m3	100	41.02	61.34	79.46	66.90	44.00	63.28	60.32
PM 2.5	µg/m3	60	24.80	36.07	42.08	44.09	29.79	29.58	38.54
Sulphur Dioxide (SO2)	µg/m3	80	1.70	2.34	4.66	3.38	2.94	4.05	2.19
Nitrogen Oxides (NO2)	µg/m3	80	8.30	8.49	30.68	12.20	8.83	26.65	9.14
Ammonia (NH3)	µg/m3	400	48.40	41.54	23.24	43.97	45.69	18.78	38.28

Parameters	Unit	Permissible limits (NAAQS)	AAQM Station - 3 (Near Batching Plant)						
			01.08.2025	*04.08.2025	08.08.2025	12.08.2025	*18.08.2025	20.08.2025	*25.08.2025
PM 10	µg/m3	100	67.20	68.29	72.30	77.70	59.52	83.50	74.67
PM 2.5	µg/m3	60	41.49	34.18	37.30	50.59	27.92	47.14	28.75
Sulphur Dioxide (SO2)	µg/m3	80	2.08	4.05	1.92	1.67	4.05	1.68	4.42
Nitrogen Oxides (NO2)	µg/m3	80	8.78	27.64	9.00	10.68	27.10	12.00	28.67
Ammonia (NH3)	µg/m3	400	46.04	17.92	41.90	34.59	17.70	33.41	23.10



	Matix Fertilisers & Chemicals Ltd Panagarh	Document No:	MFCL/Env/EMF/01
		Date of Issued:	01/05/2025
	Ambient Air Quality Monitoring Report	Issued No.:	01
		Revision No.:	00
		Revision Date:	00

Annexure - I

Month: September 2025

Parameters	Unit	Permissible limits (NAAQS)	AAQM Station - 1 (Near Fire & Safety Building)						
			02.09.2025	05.09.2025	*08.09.2025	09.09.2025	12.09.2025	*15.09.2025	16.09.2025
PM 10	µg/m ³	100	51.7	57.9	70.8	52.2	43.7	63.5	78.3
PM 2.5	µg/m ³	60	29.6	28.2	32.5	28.2	32.4	29.4	51.9
Sulphur Dioxide (SO ₂)	µg/m ³	80	2.7	2.4	4.4	1.8	3.4	4.2	1.5
Nitrogen Oxides (NO ₂)	µg/m ³	80	14.1	14.3	30.5	11.7	17.1	27.7	14.9
Ammonia (NH ₃)	µg/m ³	400	45.6	38.5	24.9	31.0	36.3	23.6	46.8

Parameters	Unit	Permissible limits (NAAQS)	AAQM Station - 2 (Near Cooling Tower)						
			*02.09.2025	02.09.2025	05.09.2025	*08.09.2025	09.09.2025	12.09.2025	16.09.2025
PM 10	µg/m ³	100	63.8	74.8	61.2	75.2	62.9	56.7	49.1
PM 2.5	µg/m ³	60	37.4	34.2	41.6	34.2	33.6	33.6	37.2
Sulphur Dioxide (SO ₂)	µg/m ³	80	1.8	4.5	1.3	4.8	1.4	1.2	1.5
Nitrogen Oxides (NO ₂)	µg/m ³	80	13.2	29.9	12.2	31.2	13.7	14.4	15.5
Ammonia (NH ₃)	µg/m ³	400	38.8	24.4	28.5	23.2	35.4	30.8	38.9

Parameters	Unit	Permissible limits (NAAQS)	AAQM Station - 3 (Near Batching Plant)						
			02.09.2025	*02.09.2025	05.09.2025	09.09.2025	12.09.2025	*15.09.2025	16.09.2025
PM 10	µg/m ³	100	73.1	70.5	78.5	68.7	68.7	68.0	72.7
PM 2.5	µg/m ³	60	34.0	32.5	46.3	38.9	32.8	32.8	51.2
Sulphur Dioxide (SO ₂)	µg/m ³	80	1.2	4.7	1.5	1.3	2.0	4.1	1.7
Nitrogen Oxides (NO ₂)	µg/m ³	80	9.3	30.2	13.4	12.6	16.4	28.6	16.4
Ammonia (NH ₃)	µg/m ³	400	29.5	25.3	35.8	31.1	37.9	22.1	30.8



	Matix Fertilisers & Chemicals Ltd Panagarh	Document No:	MFCL/Env/EMF/02
		Date of Issued:	01/05/2025
	Stack Emission Monitoring Report	Issued No.:	01
		Revision No.:	00
		Revision Date:	00

Annexure- II

Period: April 2025 - September 2025

Sample Collected and Analysed By: In-house Laboratory

*Sample Collected and Tested by: - External 3rd Party Laboratory (NABL Accredited)

SN	Stacks attached to	Parameters	UoM	Results					
				Apr'2025	May' 2025	*Jun' 2025	Jul'2025	Aug'2025	Sep' 2025
1	Auxiliary Boiler (S-1) *	PM	mg/Nm3	NA	NA	NA	NA	NA	NA
		CO	%(v/v)	NA	NA	NA	NA	NA	NA
2	HRSG (Heat Recovery Steam (Generator)- (S-2)	PM	mg/Nm3	NA	NA	24.16	NA	NA	NA
		CO	%(v/v)	0.0003	0.0005	<0.0002	0.0036	0.0023	NA
3	Primary Reformer (S-3)	NOx as NO2	mg/Nm3	223.0	218.0	138.7	197.0	179.0	184.0
4	Prilling Tower (S-4)	PM	mg/Nm3	40.4	40.4	32.94	37.70	35.20	45.90
5	EDG-1	PM	mg/Nm3	NA	NA	63.46	NA	NA	NA
		CO	%(v/v)	NA	NA	0.005	NA	NA	NA
6	EDG-2	PM	mg/Nm3	NA	NA	65.64	NA	NA	NA
		CO	%(v/v)	NA	NA	0.0048	NA	NA	NA

*Aux Boiler non -operational at the time of sampling and analysis in the months Oct'24- Mar'25. It is operated as per process requirement, only when additional steam is required.



	Matix Fertilisers & Chemicals Ltd Panagarh	Document No:	MFCL/Env/EMF/03
		Date of Issued:	01/05/2025
	Effluent Water Quality Monitoring Report	Issued No.:	01
		Revision No.:	00
		Revision Date:	00

Annexure- III

Period: April 2025 - Sep 2025

Sample collected and analyzed by: In-house Env laboratory

*Sample analysed by External 3rd Party Laboratory (NABL Accredited)

Parameters	Limits as per CTO	Month	Apr'25	May'25	Jun'25	Jul'25	Aug'25	Sep'25
		UoM ↓ Date →	21.04.2025	12.05.2025	*11.06.2025	21.07.2025	*05.08.2025	*09.09.2025
pH	6.5-8.5	--	8.0	7.7	6.9	8.2	7.10	7.80
Ammoniacal Nitrogen as N	50	mg/l	32	18	8.1	6.4	7.13	7.13
Oil & Grease	10	mg/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
TSS	100	mg/l	35	25	7.0	10	11.00	34.00
Nitrate Nitrogen as N	10	mg/l	7.8	7.0	4.1	6.5	3.88	3.78
TKN as N	75	mg/l	42	23.0	9.2	8.0	8.65	8.65
CN Conc	0.1	mg/l	<0.01	<0.01	<0.02	<0.01	<0.02	<0.02
Free Ammonia	2.0	mg/l	<2.0	<2.0	<0.1	<2.0	<0.1	1.85



	Matix Fertilisers & Chemicals Ltd Panagarh	Document No:	MFCL/Env/EMF/04
		Date of Issued:	01/05/2025
	Ground Water Quality Monitoring Report	Issued No.:	01
		Revision No.:	00
		Revision Date:	00

Annexure- IV

Sample collected from: Piezometric Wells

Samples analyzed by: In-house Env laboratory in QC

*Parameters data received from External 3rd party agency (NABL Accredited) reports

In-house Lab Report:

May'2025 (Pre - Monsoon)					
Parameters	UoM	Well No. 1	Well No. 2	Well No. 3	Well No. 5
Depth of Water Level	Mtr	1.05 M	1.16 M	1.57 M	6.24 M
*pH	--	7.74	7.67	7.14	6.97
*Conductivity	uS/cm	748	643	306	691
Total Hardness as CaCO ₃	mg/l	545	128	295	291
Ca Hardness as CaCO ₃	mg/l	425	91	225	222
Mg Hardness as CaCO ₃	mg/l	120	37	70	69
Total alkalinity as CaCO ₃	mg/l	175	69	223	117
*Chloride Cl ⁻	mg/l	51.0	37.0	24.0	49.0
Sulphate as SO ₄ ²⁻	mg/l	72.0	43.0	37.0	33.0
*Phosphate as PO ₄ ³⁻	mg/l	0.03	0.08	0.15	0.10
Sodium as Na ⁺	mg/l	30.0	7.7	20.0	17.0
Potassium as K ⁺	mg/l	1.0	1.3	1.2	1.9
Ammonia as NH ₃	mg/l	<1.0	<1.0	<1.0	<1.0
*Nitrate as NO ₃ ⁻	mg/l	2.89	16.9	<0.03	14.3
*TDS	mg/l	436	380	174	400



	Matix Fertilisers & Chemicals Ltd Panagarh	Document No:	MFCL/Env/EMF/05
		Date of Issued:	01/05/2025
	Noise Monitoring Report	Issued No.:	01
		Revision No.:	00
		Revision Date:	00

Annexure – V

Period: April 2025 - September 2025

Day Time (6 AM to 10 PM)

Monitoring by: In-House Laboratory

SN	Location	Noise Level, dB(A)					
		Apr 24	May 25	Jun 25	Jul 25	Aug 25	Sep 25
	Date	13.04.2025	29.05.2025	14.06.2025	17.07.2025	09.06.2025	11.09.2025
1	Factory gate	62	64	62	58	59	56
2	RWTP	58	56	58	63	56	55
3	DMP CR	60	58	52	58	58	57
4	IA/PA	60	60	56	61	57	58
5	Urea PT	62	59	62	62	62	61
6	CCR	61	68	60	61	56	59
7	Store	64	62	58	59	57	57
8	Ammonia Storage	58	64	59	61	58	55
9	SPG Porta Cabin	56	58	62	60	55	53
10	Workshop	60	62	63	65	65	60
11	UPH	62	64	62	57	61	63
12	Lab	62	60	62	63	63	62

Period: April 2025 - September 2025

Night-Time (10 PM to 6 AM)

Monitoring by: Samples taken and analysed by External Laboratory (NABL Accredited)

SN	Location	Noise Level, dB(A)					
		Apr 24	May 25	Jun 25	Jul 25	Aug 25	Sep 25
	Date	21.04.2025 to 22.04.2025	19.05.2025 to 20.05.2025	09.06.2025 to 10.06.2025	14.07.2025 to 15.07.2025	04.08.2025 to 05.08.2025	08.09.2025 to 09.09.2025
1	Near AAQM - 02 (North-East Boundary Wall)	51.14	--	--	--	--	--
2	Near RWH Pond (South-East Boundary)	--	51.18	--	--	--	--
3	Near Holding Pond [East Boundary]	--	--	50.12	--	--	--
4	Near Effluent treatment Plant	--	--	--	52.26	--	--
5	Sub Station-01 (Near back side of CAAQMS)	--	--	--	--	52.28	--
6	Cooling Tower Area (Near North-East Boundary)	--	--	--	--	--	49.50



Expenditure on CSR Activities

Period: Apr 2025 – September 2025)

Annexure- VI

CSR Activities and Expenses for last six months (Apr'25 – Sep'25), are being tabulated below:

Name of the Project	Expenses (Rs. In Lakh)
Project Dhadkan: It is a community healthcare initiative designed to provide accessible, quality medical services to underprivileged populations across five villages under the Kota Gram Panchayat: Shyamsunderpur, Dharala, Pondali, Khulepada, and Khandari. The project operates community health clinics offering both allopathic and homeopathic medical services , including basic diagnostics and free medicines , ensuring improved healthcare access for rural communities. During FY 2024–25 (up to September): Total Patients Treated - 9569 ○ Allopathy: 3387 ○ Homeopathy: 6182 Cumulative Outreach (Till Date): The initiative has benefitted over 55,000 villagers across the Kota Gram Panchayat.	6.07
Nutritional supplements to TB Patients: MFCL, in collaboration with the WHO and the State Health Department, is providing nutritional supplements to 50 tuberculosis (TB) patients across Ausgram II and Kanksa Blocks. This initiative aims to improve treatment adherence, enhance immunity and support faster recovery among vulnerable TB-affected individuals.	0.250
Single door refrigerator support: MFCL has extended essential infrastructure support to strengthen primary healthcare delivery in rural areas. As part of this initiative, the company has provided single-door refrigerators to 4 Government Rural Sub-Centers across Kota Gram Panchayat. These refrigerators will support: • Proper storage of vaccines, medicines and diagnostic materials • Improved cold-chain management • Enhanced reliability of immunization and essential healthcare services	0.820
Community Development: • Water cooler and water filter installation at Jamtara Block Hospital	0.686
Total	7.826





MFCL/Env. Statement /FY24-25/01

September 26th, 2025

To,
The Member Secretary
West Bengal Pollution Control Board
"Paribesh Bhawan "
Bldg.No. 10-A, Block - LA, Sector - III
Salt Lake City, Kolkata - 700 106

Subject : Submission of Environment Statement for the financial year ending 31st March 2025 in Form-V.

Reference : 1. Rule No. 14 of The Environment (Protection) Rules, 1986.
2. Condition No. 27 of CTO (renewal) vide Memo No. 805-7/WPBD-Cont (6726)/15 (Pt-I) dated: 29th April 2022.
3. General Condition Sl. No. xix of Environmental Clearance File No. J-11011 / 440/2009 – IA II (I) dated 22nd April 2010.

Dear Sir,

This is in reference to the above cited subject; we are hereby submitting the Environmental Statement for the financial year ending 31st March, 2025 of Matix Fertilisers & Chemicals Limited.

We trust you will find compliance in order and assure our commitment of going beyond the applicable Environmental requirements and oblige.

Thanking You,

Yours faithfully,

(Mahesh Debnath)
DGM – EHS

Enclosed: a/a

Copy To: The Regional Officer, West Bengal Pollution Control Board, Durgapur Regional Office, City Centre, Durgapur, WB-713 216

Matix Fertilisers and Chemicals Limited
Corporate Office:
Poojan Chambers, 8 Wing, 5th Floor
21, A.B. Road, Vardh, Manikpur, 700 016, India
T: +91 33 43327000 C: +91 33 43327001
Gmail: info@matixgroup.com

Registered Office:
Durgapur Industrial Park, Durgapur
Police Cantonment, West Bengal 713 216
India T: +91 343 2802644-2651


www.matixgroup.com

[FORM-V]

(See rule 14)

Environmental Statement for the financial year ending the 31st March, 2025**PART-A**

- (i) Name and address of the owner/occupier of the industry operation or process: Sri Manoj Mishra
Matix Fertilisers and Chemicals Limited,
Panagarh Industrial Park, PO- Panagarh Bazar,
Dist - Purba Bardhaman, West Bengal -713148
- (ii) Industry category Primary 31021000 (STC code)
Secondary 2873 (SIC Code)
- (iii) Production capacity: 2530 MTPD Ammonia, 4430 MTPD urea, 54 MW
Captive Power
- (iv) Year of establishment: 2015
- (v) Date of the last environmental statement submitted: 24th September' 2024

PART-B**Water and Raw Material Consumption****(i) Water Consumption m³/Day**

Source	During the financial year: FY 2023 – 2024		Current financial year FY 2024 – 2025	
UOM	M ³	M ³ /Day	M ³	M ³ /Day
Process	1653031	4528.85	1337755	3665
Cooling*	4392103	12033.16	4490081	12302
Domestic	81232	222.55	118091	324
Total	6126366	16784.56	5945927	16291

*** Including evaporation & drift loss in Cooling Tower, Water reservoir evaporation loss, Fire water loss, utility water etc.

Name of Products Process water consumption per unit of product output:

Name of the products	Water consumption per unit of products in M ³ /MT			
	During the financial year: FY 23-24		During the current financial year FY 24-25	
	Production	Consumption	Production	Consumption
Urea	1498684 MT	2.58 m3/MT Urea	1471371 MT	2.57 m3/MT Urea
Ammonia	862207 MT		855267 MT	
Captive Power	144704 MW	1.46 m3/MW	131364 MW	1.01 m3/MW



(ii) Raw Material Consumption

Following chemicals and fuels were consumed for Steam and Power Generation.

Name of the raw materials	Name of the products	UoM	Consumption of raw materials	
			During the financial year 2023-24	During the current financial year 2024-25
RLNG/Coal Bed Methane (CBM)	Urea, Ammonia and Captive Power	SM ³	861982586	847761143
Hydrochloric Acid (32%)		MT	759.15	783
Sodium Hydroxide (48%)		MT	447.54	438
Sulphuric Acid (98%)		MT	286.09	244.413
Chlorine		MT	143.05	105.318

PART-C

Pollution discharged to environment/unit of output

(Parameter as specified in the consent issued)

Pollutants	Quantity of pollutants discharged (Mass/day)		Quantity of pollutants in discharges (Mass/Volume)		Percentage of variation from prescribed standards with reasons
	FY: 23-24 (Kg/Day)	FY: 24-25 (Kg/Day)	FY: 23-24 (mg/L)	FY: 24-25 (mg/L)	FY: 24-25
(a) Water					
pH	NA	NA	7.6	7.8	NA
TSS	74.21	47.33	30.2	27.2	-72.8
Ammoniacal N	38.34	32.78	15.6	18.8	-62.4
Nitrate N	15.32	16.82	6.2	6.9	-31.0
O&G	<12.29	<8.72	<5.0	<5.0	>50.0
Total Kjeldahl Nitrogen	51.72	45.90	21.0	26.3	-64.9
(b) Air					
Auxiliary Boiler – PM	30.26*	NA	10.88	NA	NA
Primary Reformer – NO ₂ in mg/Nm ³ at 3% O ₂	637.31	917.82	117.4	143.7	-64.1
Prilling Tower- PM in mg/Nm ³	4473.74	4746.13	19.50	22.10	-55.8



Pollutants	Quantity of pollutants discharged (Mass/day)		Quantity of pollutants in discharges (Mass/Volume)		Percentage of variation from prescribed standards with reasons
	FY: 23-24 (Kg/Day)	FY: 24-25 (Kg/Day)	FY: 23-24 (mg/L)	FY: 24-25 (mg/L)	FY: 24-25
HRSG – PM in mg/Nm ³	44.24	61.05	10.42	15.30	-69.4
DG Set-1 PM in mg/Nm ³	5.80**	7.18	54.52	71.33	-52.5
DG Set-2 PM in mg/Nm ³	6.72**	7.80	60.11	75.80	-49.5

- * Auxiliary boiler not running every day. It only operates during plant startups. In FY 2023-24 & FY 2024-2025, the boiler operated for approx. 13 days and 10 days respectively.
- ** EDG sets are operated only during emergencies/ blackouts. In 2023-24 and 2024-2025, the DG sets operated for 0.16 days and 0.13 days respectively.

All units are in mg/lit except pH

PART – D

Hazardous Wastes

(As specified under Hazardous Waste Management and Handling Rules, 2016 and its amendments)

Type of Waste	Total quantity generated in Kg.	
	During the last financial Year 2023-2024	During the current financial Year 2024-2025
Used Oil	9080	2810
Waste oil	0.0	0.0
Wastes or Residue Containing Oil	0.0	60.0
Contaminated Plastic Wastes	2540	0.0
PVC Fills & Old Fan Blades	0.0	48200
Used/Spent Resin	8140	3210
ETP Sludge	3000	1500
Spent Catalyst	0.0	31720
Used Insulation (Rock Wool)	24680	0.0
Sludge & Filters Contaminated with Oil	0.0	0.0



PART - E
Solid Wastes

Type of Waste		Total quantity generated in Kg.	
		During the last financial Year 2023-24	During the current financial Year 2024-25
(a) From process			
	Raw water sludge	2500	3580
	Spent activated carbon	24700	9040
	Spent Anthracite	Nil	Nil
(b) From Pollution control facilities		Nil	Nil
(c)	1. Quantity recycled or reutilized within the unit.	Nil	Nil
	2. Sold	Nil	Nil
	3. Disposed	Nil	Nil

PART - F

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

The quantities of hazardous waste generated in FY24-25 are mentioned above table in Part-D. These were generated due to plant's annual and periodic shutdown maintenance, repairing, overhauling activities and replacement of older materials from process equipment and systems like, DMF, ACF, MGF, Catalytic Columns, GT, etc. The Hazardous waste generated is segregated as per their categories and stored at site in the designated HW storage shelter at the corner of the plant premises. These wastes were being sold out and disposed off through the WBPCB recognized 3rd party agency/recycling by following Manifest System (Form-10) as per Hazardous and Other wastes (Management and Transboundary Movement) Rules, 2016 and its subsequent amendments.

The Solid wastes generated due to road repair, construction activities, raw water sedimentation etc. are used in low lying area filling or gardening as per their characteristics and applicability.



PART – G

Impact of pollution abatement measures taken on conservation of natural resources and on the cost of production.

Natural resource conservation and recycling of waste are our prime focus and responsibility. Various pollution control measures have been taken to reduce environmental pollution load

1. We are using natural Gas and CBM as raw materials due to which GHG emission (SOx, NOx, CO₂ etc.), through stacks are minimum. Particulate Matter emission is also minimum.
2. We have installed low NOx burners in boilers limiting NOx emission to atmosphere.
3. Our Prilling Tower for urea melts prilling is of Natural draft system, hence urea particle emissions are becoming minimum.
4. In Urea production, we have installed hydrolyzer and stripper for treatment of urea process condensate and recovery of ammonia from that.
5. We are recycling boiler blow down for cooling water makeup and cooling tower blow down for fire water.
6. We have a WHRB unit to utilize hot flue gases for boiler operation and power generation.
7. Greenbelt has coverage of more than 165.21 acres and its further maintenance & development activities are performing with different native species of plants as stipulated.
8. We have installed flare stacks in Ammonia, Urea and Ammonia storage facilities for burning accidental/emergency release of Ammonia/ NG.

PART – H

Additional measures/investment proposals for environmental protection including abatement of pollution, prevention of pollution.

1. Recycling condensate water, from steam condensate, process condensate and turbine condensate, is done and 100% reused in urea ammonia manufacturing process after refreshing the quality of water.
2. Rainwater harvesting pond (approx. 50,000 KL capacity) developed to collect and store surface run off during monsoon that is being recycled/reused for various service activities inside the premises, for reducing freshwater consumption at source.
3. Online Monitoring and Measurement facilities of Environmental parameters from Stack emissions and liquid effluent discharge prior to final discharge outside premises. Online real time data connectivity to CPCB cloud server is also continuing from the beginning towards statutory compliance.
4. We have installed and functioned one online CAAQMS system and have initiated installed and commission another 2 numbers of CAAQMS within 2025-2026, as per statutory guidelines.
5. Internal roads have been paved, cleaned on regular basis and water is sprayed to prevent dust.
6. We have installed Ammonia, Chlorine analyzers at strategic locations to identify and control fugitive emissions in works zone areas.
7. Acoustic chambers have been provided in both the EDG sets and silencers have been provided to control unwanted noise during its operations, as per requirement.



PART - I

Any other particulars for improving of the quality of environment.

1. Renewal of EPR registration as per Plastic Waste Management Rules 2022 completed. EPR compliance done for FY2024-2025 and certificates uploaded in the CPCB portal.
2. Wastes segregation at source and disposed off as per the laid down practices, House- keeping measures adopted.
3. Bio-medical wastes collection and disposal from our Occupational Health Centre is continuing to WBPCB recognized Common wastes treatment and disposal facility owners (M/s SNG Envirosolutions Private Limited), as per BMW Rules 2016 and its subsequent amendments.
4. Training and awareness on environmental requirements and natural resource conservation measures, wastes handling and management, OCEMS management etc. has been provided to all stakeholders, as per requirement at regular intervals.
5. Implementation, follow up and continual improvement of IMS with respect to ISO 14001:2015 and ISO 45001:2018 and EnMS (ISO 50001:2018) had been done for further improvement in Environmental sectors in plant, as well as energy performance for sustainability.
6. We were installing floating solar cells of >1 MW to reduce NG & freshwater consumption towards Power generation, reduce water evaporation losses and following reduction in carbon footprint, as well.

Date: 26.09.2025

Place: MPCL, Panagach.


Authorized Signatory.





Government of India
Ministry of Commerce & Industry
Petroleum & Explosives Safety Organisation (PESO)
8, Esplanade East, 1st floor, Kolkata - 700069

E-mail : jtccekkolkata@explosives.gov.in

Phone/Fax No : 033 - 22486600, 22480427

No : P/HQ/WB/15/2656 (P372245)

Dated : 07/05/2021

To,

M/s. MATIX Fertilisers & Chemicals Ltd,
Matix Group, Poonam Chambers,
B, Wing, 5th Floor, Dr. Annie Besant,
Mumbai,
Taluka: Mumbai,
District: MUMBAI,
State: Maharashtra
PIN: 400018

Sub : Petroleum Class A Installation at Plot No, 3136, 3137, 3332, 3348, 3411, 3412, 3413, 3414, 3415, 3416, 3417, 3226, 3228, 3229, 3230, na, Pondali & kota Chandipur, Taluka: Ausgram - II, District: PURBA BARDHAMAN, State: West Bengal, PIN: 713148 . License No. P/HQ/WB/15/2656 (P372245) granted in FORM XV of Petroleum Rules 2002 - Surrender of License regarding.

Sir(s),

With reference to your letter no.MFCL/F&S/PESO/20-21/002 dt.10/04/2021 the subject licence is cancelled as desired by you. You are advised to intimate this office the stock of Petroleum in your possession. In this connection please comply with procedure laid down in Rule 153 of Petroleum Rules 2002.

You are also advised to submit the original copy of the licence with approved plan for effacement.

Your's faithfully,

Abdul Muttalib
Controller of Explosives
For Jt. Chief Controller of Explosives
Kolkata

Copy forwarded to :-

1. The District Magistrate, PURBA BARDHAMAN(West Bengal) with reference to his NOC No 348/5/FS/II/4-02Part2 Dated 27/06/2016
2. Chief Controller of Explosives, Nagpur

(For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)

Disclaimer : This page gives the latest action taken by this organization on your application. This page is made





Government of India
Ministry of Commerce & Industry
Petroleum & Explosives Safety Organisation (PESO)
8, Esplanade East, 1st floor, Kolkata - 700069

E-mail : jtccekolkata@explosives.gov.in

Phone/Fax No : 033 - 22486600, 22480427

No : P/HQ/WB/15/2655 (P372255)

Dated : 03/05/2021

To,

M/s. MATIX Fertilisers & Chemicals Ltd,
 Matix G-rup, Poonam Chambs,
 B, Wing, 5th Floor, Dr. Annie Besant,
 Mumbai,
 Taluka: Mumbai,
 District: MUMBAI,
 State: Maharashtra
 PIN: 400018

Sub : Petroleum Class A Installation at Plot No,
 3136, 3137, 3332, 3348, 3411, 3412, 3413, 3414, 3415, 3416, 3417, 3226, 3228, 3229, 3230, Mouja 77, Pondali &
 Kota chandipur, Taluka: Ausgram - II, District: PURBA BARDHAMAN, State: West Bengal, PIN: 713148 .
 License No. P/HQ/WB/15/2655 (P372255) granted in FORM XV of Petroleum Rules 2002 - Cancellation of
 License regarding.

Sir(s),

With reference to your letter no.MFCL/F&S/PESO/20-21/002 dt.10/04/2021 the subject licence is cancelled as desired by you. You are advised to intimate this office the stock of Petroleum in your possession. In this connection please comply with procedure laid down in Rule 153 of Petroleum Rules 2002.

You are also advised to submit the original copy of the licence with approved plan for effacement.

Your's faithfully,

Abdul Muttalib
Controller of Explosives
For Jt. Chief Controller of Explosives
Kolkata

Copy forwarded to :-

1. The District Magistrate, PURBA BARDHAMAN(West Bengal) with reference to his NOC No 347/5/FS/II/4-02Part1 Dated 27/06/2016
2. Chief Controller of Explosives, Nagpur

(For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)

