

STATUS OF COMPLIANCE TO
CONDITIONS OF
ENVIRONMENTAL CLEARANCES
ACCORDED TO GAIL PATA

FOR THE PERIOD
APRIL 2025 TO SEPTEMBER 2025



GAIL (INDIA) LIMITED
PATA PETROCHEMICAL COMPLEX



Compliance status to conditions of Environment Clearances at GAIL (India) Limited, Pata, U.P.

Environment Clearances accorded to GAIL (India) Limited, Pata as on 30th September 2025 are as follows:

- A. Letter No. J-11011/22/90-IA-II, Dated-30/03/1992 for GAIL, **Pata Petrochemical Project.**
- B. Letter No. J-11011/29/96-IA-II (I), Dated 16/01/1997 for **LPG Recovery Facility.**
- C. Letter No. J-11011/237/2003-IA-II (I), Dated 19/04/2004 for **LLDPE Debottlenecking Project.**
- D. Letter No. J-11011/143/2004 – IA II (I), Dated 12/01/2005 for **HDPE Expansion & 5th Furnace Project.**
- E. Letter No. J-11011/595/2010-IA II (I), Dated 23/05/2012 for **Expansion of Petrochemical Complex project.**
- F. Letter No. J-11011/595/2010-IA(II)I, Dated 16/10/2020 for **Polypropylene Expansion Project**

Name of the Project: GAIL, Pata Petrochemical Project

Project Code: NIL

Clearance Number: J-11011/22/90-IA-II, Dated 30/03/1992

Period of Compliance: April 2025 to September 2025

Sr. No.	Condition no.	Conditions	Compliance Status
1.	i.	The Project Authority must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	All the stipulations made by the State Pollution Control Board and the State Government are adhered to. Compliance to conditions of Consent to Operate have been sent to the Uttar Pradesh Pollution Control Board.
2.	ii.	Any expansion of the plant either with the existing product mix or new products can be taken up only with the prior approval of this Ministry	Any expansion of the plant is taken up only after obtaining prior approval of the Ministry. GAIL Pata has been accorded 6 ECs for different expansions as mentioned above (A, B, C, D, E & F).
3.	iii.	The project Authority must submit comprehensive EIA report for the proposed activity along with any future activity proposed / approved by this Ministry within one month.	Comprehensive EIA study was done by NEERI for the proposed plant in July 1991. Report of the study was submitted to MoEF&CC.
4.	iv.	Rehabilitation of the families whose land has been acquired for the above petrochemical complex etc. should be handled in association with the State Government authorities as per their statutory norms / guidelines.	The rehabilitation package has been developed by GAIL Pata in association with the State Government Authorities and same has been implemented as per statutory norms / guidelines.

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Sr. No.	Condition no.	Conditions	Compliance Status
5.	v.	The gaseous emissions from various process units should conform to the standard prescribed by the concerned authorities from time to time. At no time the emission level should go beyond the stipulated standards. In the event of the failure of any pollution control system adopted by the unit, the respective unit should be put out of operation immediately and should not be restarted until the control measures are rectified to achieve the desired efficiency.	The gaseous emissions from various process units are monitored through advanced monitoring techniques and conform to the standard prescribed by the statutory authorities. Online Continuous Emission Monitoring System has been provided in all the stacks and real time data is sent to CPCB and UPPCB through web based system. Mitigatory control methods have been adopted at design stage in order to reduce the load of gaseous emissions from process units. However, it is pertinent to mention here that GAIL, Pata uses Natural gas as fuel, which is one of the cleanest fuel available.
6 (a).	vi (a).	Six ambient air quality monitoring stations should be set up in the downwind direction as well as where maximum ground level concentration of NO _x and HC is anticipated in consultation with State Pollution Control Board. Monitoring should be continuous for SO ₂ , NO _x , HC and CO in at least three sites as indicated in the EIA report submitted to the Ministry. Monitoring network should be designed taking into account land use pattern, location of stacks, meteorological and topographical features including the modelling exercise / calculations.	Five fixed real time ambient air quality monitoring station and Two nos. third party ambient air quality monitoring stations (within and outside the premises) have been setup. In addition, 1 No. Mobile Van having real time ambient air quality monitoring station is also in use for monitoring of ambient air quality. Monitoring of ambient air quality is continuous for SO ₂ , NO ₂ , Total Hydrocarbons, CO, PM ₁₀ , PM _{2.5} and Benzene at five fixed real time ambient air quality monitoring stations and one mobile van. The ambient air quality monitoring stations are installed by considering location of existing stacks, wind direction, air modelling studies carried out by NEERI during EIA studies and other topographical features. Ambient air monitoring stations are regularly inspected by the UPPCB officials during their visits and no observations have been made till date with respect to locations/sampling points.
6 (b).	vi (b).	All the stacks of the plant must be provided with automatic stack emission	All the stacks of the plant are equipped with automatic stack emission monitoring equipment i.e. Online

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		monitoring equipment. Stack emission and ambient air quality data must be submitted to State Pollution Control Board once in three months and this ministry in six months along with statistical analysis.	Continuous Emission Monitoring System (OCEMS). Presently the stacks are also connected to CPCB and UPPCB servers for continuous online monitoring of parameters viz. CO, SO ₂ , NO _x and PM. Data of stack emission and ambient air for the period April 2025 to September 2025, monitored by MoEF&CC approved and NABL accredited third party is enclosed as Annexure-1.
7 (a).	vii (a).	Fugitive emissions should be controlled and regularly monitored and data recorded.	Fugitive emissions are monitored and controlled through Leak Detection and Repair program as per OISD-GDN-224.
7 (b).	vii (b).	Fugitive emission of HC from storage tanks should be controlled through proper tank design and subsequent preventive measures as mentioned below and maintenance schedules. i) Provision of floating roof tanks for volatile products. ii) Replacement of gland packing of pumps by means of mechanical seals; and iii) Use of submerged filling in product loading gantries.	The steps taken to control fugitive emissions at GAIL Pata include: i) Floating roof tanks have been provided for volatile products like GHU Light Cut, GHU Fuel Oil, Hexane, Hexene-1 & Cyclo Hexane. ii) All the pumps have been provided with mechanical seals for pumping C2C3, Ethylene, C4 Mix, Butene-1, Propylene, Naphtha, MFO, Hexane & Cyclo Hexane. iii) Submerged filling is used in liquid product loading gantries.
8.	viii.	Low NO _x burners should be used to limit NO _x emissions.	Low NO _x burners are used in all the Furnaces and Boilers.
9.	ix.	Flare system should be designed for smokeless burning with adequate steam for all normal venting and flaring.	Flare system is designed for smokeless burning with adequate steam for all normal venting and flaring. Flare stacks have also been provided with adequate heights to ensure effective dispersion of emissions.
10.	x.	Loading / Unloading and transportation of products may be restricted to daytime periods. Loading facilities should have vapour return circuits.	Loading / Unloading of LHC is carried out in accordance with PESO approval. Loading facilities for liquid products are provided with vapour return circuits.
11.	xi.	There should be no change in the stack design, without the approval of the State Pollution	It is confirmed that so far there has been no need for any change in the stack design.

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		Control Board. Alternate pollution control system and proper design in the stack should be provided to take care of excess emissions due to failure in any system of the plant.	All the stacks have been suitably designed to be able to take care of excess emissions due to failure in any system of the plant. Height of all the stacks in the complex is as per standard height of more than 30 meters.
12.	xii.	An all-weather station for wind speed & direction, temperature and rainfall should be installed within the petrochemical premises.	All weather station for monitoring of wind speed & direction, temperature, rainfall and relative humidity has been installed within the petrochemical premises.
13.	xiii.	Exploitation of ground water in the area should be carried as per the recommendations contained in the report of the Central Ground Water Board on Hydro-geological investigations.	The water consumption for the plant is met through Canal water (Etawah Branch of Lower Ganga Canal system through Burhadana Distributory). There is no exploitation of ground water in the complex.
14.	xiv.	Treatment and disposal facilities for liquid effluent should be completed along with commissioning of process units. Sufficient surface aerators with proper spacing in the aeration basin of the activated sludge extended aeration units should be provided to maintain desired DO concentration of more than 1.0 mg/L.	Waste Water Treatment plant having 2 nos. 150 m ³ /hr capacity chains is functional and treating combined (domestic + industrial) effluents from various process units. Based on the design organic load, four nos. 30 HP aerators are provided in the aeration basin, which help in maintaining DO concentration of more than 1.0 mg/L.
15.	xv.	The project authorities must recycle the wastewater to the maximum extent possible. The final treated effluent should conform to the prescribed MINAS standards.	Maximum recycle of treated effluent is done for use of water in horticulture purposes. The final treated effluent conforms to the prescribed standards.
16.	xvi.	Complete recycling of wastewater under normal operation through irrigation applications; green belt maintenance, firefighting etc. may be planned for aiming at zero discharge. In case of failure of ETP, effluent should	Maximum recycle of Waste water is done for use in horticulture purpose. Two number guard ponds of 33,600 m ³ capacity have been provided to deal with any emergency situations for 7 days.

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		be collected and stored in Guard Pond(s) for a minimum of 7 days and should not be disposed off unless the treatment facilities are restarted and desired efficiency is achieved.	
17.	xvii.	Disposal in the Sengar River should be at a depth along riverbed for better mixing. During lean flow periods of the river and ETP under normal operation, the treated effluent after reuse for green belt development and firewater make up should be discharged in Sengar River through a closed pipeline at controlled rate depending on the river flow.	A part of treated effluent is recycled for horticulture purpose and the balance treated effluent is discharged to Sengar river through 8 km long closed pipeline at the end of which is specially designed diffuser arrangement along stream bed to ensure thorough mixing. During lean flow period, controlled discharge of treated effluent is ensured.
18.	xviii.	Performance studies of each of the effluent / Sewage treatment plant should be undertaken at regular intervals. Also proper maintenance schedule of polishing lagoon be planned and implemented.	Regular performance of the wastewater treatment plant is monitored by checking samples at intermittent units. De-silting of guard pond is done on regular basis.
19.	xix.	Sludge recirculation to aeration basin from final clarifier should be planned for maintaining the desired MLSS concentration.	The WWTP has been designed for recirculation of sludge in aeration tank. Extended Aeration mode of treatment is adapted from the various forms of activated sludge processes. Desired MLSS concentration as designed is maintained.
20.	xx.	Adequate number of effluent quality monitoring stations should be set up in consultation with U.P. Pollution Control Board. Final effluent discharge should be daily monitored for BOD, suspended solids, phenol, sulphide and Oil & Grease. Wastewater should also be analysed regularly for other parameters listed in MINAS	Effluent quality monitoring station has been set up at final discharge point. Continuous online monitoring of the effluent parameters like pH, BOD, COD, TSS, TOC & Flow is done at the final discharge point and data is transmitted to CPCB and UPPCB on real time basis through web based server systems. In addition, final effluent discharge is monitored daily for pH, COD, BOD, TSS, Phenol, Sulfide and Oil & Grease by NABL accredited inhouse laboratory. Further,

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		and stipulated by the State & Central Pollution Control Board. The effluent monitored data along with its statistical analysis and interpretation in the form of a report should be submitted to this ministry regularly once in six months and to the State Pollution Control Board once in three months.	wastewater quality monitoring is also regularly being carried out by Third Party monitoring agency. Effluent quality data for the period April 2025 to September 2025 monitored by MoEF&CC approved and NABL accredited third party is enclosed as Annexure-2.
21.	xxi.	Monitoring of noise levels should be regularly carried out to assess the efficiency of maintenance schedules undertaken to reduce noise levels and noise protection measures.	Noise levels are regularly monitored on monthly basis. Remedial actions and maintenance schedules for equipment are ensured to maintain noise levels as per prescribed standards.
22.	xxii.	The project authorities must prepare a well-designed scheme for solid waste disposal based on comprehensive EIA study and submit the same to this Ministry within six months. Ground water near solid waste disposal site as well as around petrochemical complex should be regularly monitored and data recorded.	Solid waste disposal scheme based on comprehensive EIA study has already been submitted to the ministry. There is no solid waste disposal site within the complex, however, ground water quality within and outside the complex is regularly monitored.
23.	xxiii.	A green belt development plan should be finalized and submitted to this ministry within six months for approval. The width of green belt adequate to attenuate noise, H ₂ S and HC from Fugitive Sources etc. Storage dumping yards should also be brought under plantation. As and when necessary, sludge disposal sites should be reclaimed for growing trees.	Green belt development Plan has already been submitted to the ministry. Presently 210 Hectares of peripheral green belt/area has been developed in the premises. Project laydown areas are also taken up for plantation. Regular maintenance and plantation of tree saplings in and around the plant complex is done and also mass tree plantation programs are organized. There is no sludge disposal site inside the plant battery limit.
24.	xxiv.	A detailed risk analysis report based on maximum credible accident analysis should be carried out within a period of	Detailed Risk analysis for Petrochemical Complex & expansions plant has been carried out.

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		<p>six months of the issue of this letter of approval. This study apart from other factors should also consider the following:</p> <p>a) Stability Condition 'F'</p> <p>b) Fire and hazard impact zone should not cross the plant boundaries under worst possibilities.</p> <p>Based on this, a Disaster management plan should be prepared and after approval by the concerned nodal agency, the same must be submitted to this ministry by December 1992.</p>	<p>Emergency Response and Disaster Management Plan (ERDMP) of GAIL Pata Plant has been certified by PNGRB accredited agency M/s Sanmarg Engineering Validation and Assessment Pvt. Ltd. which is implemented at GAIL, Pata and valid up till 17.10.2027. Copy of ERDMP has been submitted to PNGRB & other district authorities.</p>
25.	xxv.	<p>The Storage tank and sphere must conform to the stipulations made by the chief inspector of factories, controller of explosives etc. wherever required, it should be supplemented by OISD Codes.</p>	<p>Storage tanks and sphere are designed based on applicable OISD GDN-118 and are having valid approval of chief inspector of factories and statutory body (PESO).</p>
26.	xxvi.	<p>During site preparations, care should be taken to stabilize the sites before onset of monsoon. Further, during the construction phase, necessary and adequate steps should be taken to provide sanitation facilities and noise protection devices and fuel to the workers. The petrol and diesel run machinery should be maintained as per standards.</p>	<p>All necessary precautions are taken during site preparation and construction phase.</p>
27.	xxvii.	<p>A separate Environmental Management Cell with suitably qualified staff to carry out various functions should be set up under the control of Senior Executive who will report directly to the head of the organization.</p>	<p>A full-fledged Environmental Management Cell is in place to undertake environment and sustainable development related functions.</p>
28.	xxviii.	<p>The project authority must set up a separate laboratory</p>	<p>Full-fledged Laboratory set up exists in the plant premises under the supervision</p>

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		facility for collection and analysis of samples under the supervision of competent technical personnel who will directly report to the Chief Executive.	of competent technical personnel. The Laboratory is NABL accredited.																		
29.	xxix.	The project authorities must take adequate steps to ensure that the movement of raw materials and products would not disturb smooth flow of traffic in the area and would avoid towns.	Raw material for the petrochemical project is Natural Gas, received through cross country HVJ Pipeline. Also dedicated freight route and tanker parking areas have been developed for tankers and trucks, engaged in carrying products from the plant premises.																		
30 (1).	xxx (1).	The funds earmarked for the environmental protection measures should not be diverted for other purposes and year wise expenditure should be reported to this ministry.	<p>Dedicated funds are earmarked for the environmental protection measures. Details of expenditure on environmental protection measures at GAIL Pata is as below:</p> <table border="1"> <thead> <tr> <th>Description</th> <th>FY 2024-25 (Rs.)</th> </tr> </thead> <tbody> <tr> <td>Treatment and disposal of waste</td> <td>1,72,79,424</td> </tr> <tr> <td>Depreciation and maintenance cost of equipments used in pollution control</td> <td>2,98,29,896</td> </tr> <tr> <td>External services for environmental management</td> <td>3,07,17,006</td> </tr> <tr> <td>External certification of management systems</td> <td>13,13,124</td> </tr> <tr> <td>Cost of Personnel for general environmental management activities</td> <td>21,12,75,214</td> </tr> <tr> <td>Extra expenditures for installing cleaner technologies</td> <td>69,98,226</td> </tr> <tr> <td>Other environmental costs</td> <td>7,29,45,378</td> </tr> <tr> <td>Total</td> <td>37,03,58,268</td> </tr> </tbody> </table>	Description	FY 2024-25 (Rs.)	Treatment and disposal of waste	1,72,79,424	Depreciation and maintenance cost of equipments used in pollution control	2,98,29,896	External services for environmental management	3,07,17,006	External certification of management systems	13,13,124	Cost of Personnel for general environmental management activities	21,12,75,214	Extra expenditures for installing cleaner technologies	69,98,226	Other environmental costs	7,29,45,378	Total	37,03,58,268
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Sr. No.	Condition no.	Conditions	Compliance Status
30 (2).	xxx (2).	The Ministry or any other competent authority may stipulate any further conditions after reviewing the comprehensive impact assessment report prepared by project authorities or due to any change in the pollution scenario" of the area in question.	The condition is noted for needful compliance and implementations.
30 (3).	xxx (3).	The Ministry may revoke clearance if implementation of the condition is not satisfactory.	The condition is noted and suitable compliance to all the conditions is ensured.
30 (4).	xxx (4).	The above condition will be enforced interalia along with Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, and Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments.	It is always ensured that the above conditions are enforced interalia along with Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, and Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments as applicable.

Name of the Project: LPG Recovery Facility **Project Code:** NIL
Clearance Number: J-11011/29/96-IA.II (I) Dated 16/01/1997
Period of Compliance: April 2025 to September 2025

Sr. No.	Condition No.	Conditions	Compliance Status
31	i.	The project authority must strictly adhere to the terms and conditions stipulated by the Ministry while granting environmental clearance to the petro-chemical complex vide O.M. No. J-11011/22/90-IA.II dated 30.03.1992.	Compliance to the conditions of environmental clearance granted to the petrochemical complex vide O.M. No. J-11011/22/90-IA.II dated 30.03.1992 is provided at Sr. No. 1 to 30 above.
32	ii.	The project authority must strictly comply with the stipulations made by state pollution control board and state government.	All the stipulations made by the State Pollution Control Board and the State Government are adhered to. Compliance to conditions of Consent to Operate have been sent to the Uttar Pradesh Pollution Control Board.

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Sr. No.	Condition No.	Conditions	Compliance Status
33	iii.	Any expansion of the plant can be taken up only with prior approval of this ministry.	Any expansion of the plant is taken up only after obtaining prior approval of the Ministry. GAIL Pata has been accorded 6 ECs for different expansions as mentioned above (A, B, C, D, E & F).
34	iv.	The hazardous wastes including residual solvents, spent activated carbon, ETP sludge etc. shall be handled as per hazardous wastes (Management and Handling) rules, 1989 and necessary approval from UPPCB in this regard must be obtained.	All hazardous wastes generated at the complex are handled as per the provisions laid under the latest Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016. GAIL Pata has been accorded Consolidated Consent and Authorization from Uttar Pradesh Pollution Control Board vide Authorization No. 191217/UPPCB/KanpurDehat (UPPCBRO)/CTO/both /AURRAYA/2023, dated 04.12.2023 and is valid up to 31.12.2025. All the hazardous wastes generated are disposed as per the directions mentioned in the authorization.
35	v.	Handling, Manufacturing, storage and transportation of hazardous chemicals must be carried out in accordance with the manufacture, storage and import of hazardous chemicals rules, 1989 as amended in October, 1994. Necessary approvals from Chief controller of explosives/ Chief inspector of factories must be obtained as per regulations.	All applicable provisions of the manufacture, storage and import of hazardous chemicals rules, 1989 as amended in October, 1994 are suitably followed. All necessary approvals from Petroleum & Explosives Safety Organization /Chief inspector of factories have been obtained and are in place.
36	vi.	The project authorities must setup adequate facilities for collections and analysis of samples (air, water and noise parameters), monitoring of environmental quality parameters and carry out time bound action plans related to environmental management and pollution control.	Five fixed real time ambient air quality monitoring station and Two portable third party ambient air quality monitoring stations (within and outside the premises) have been setup. In addition, 1 No. Mobile Van having real time ambient air quality monitoring station is also in use for monitoring of ambient air quality. In addition, Online Continuous Emission Monitoring System has been provided in all the stacks and

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			<p>real time data is transmitted to CPCB and UPPCB through web based system.</p> <p>Noise levels are also regularly monitored in ambient as well as work zone areas.</p> <p>Continuous online monitoring of the effluent parameters like pH, BOD, COD, TSS, TOC & Flow is done at the final discharge point and data is transmitted to CPCB and UPPCB on real time basis through web based server systems.</p> <p>In addition, final effluent discharge is monitored daily for pH, COD, BOD, TSS, Phenol, Sulfide and Oil & Grease by NABL accredited inhouse laboratory. Further, wastewater quality monitoring is also regularly being carried out by MoEF&CC approved and NABL accredited Third Party monitoring agency.</p> <p>A full-fledged NABL accredited Laboratory set up exists in the plant premises under the supervision of competent technical personnel.</p>
37	vii.	The fund earmarked for the environmental protection measures shall not be diverted for other purposes and year wise expenditure reported to this ministry of proper monitoring of the project implementation.	The dedicated funds are earmarked for the environmental protection measures. Details of year wise expenditure on environmental protection measures are regularly reported to the ministry.
38	viii.	Six-monthly progress report on the implementation status of environmental conditions mentioned above must be submitted to ministry / CPCB and State Pollution Control Board regularly. The project will be monitored intralia by ministry's regional office at Lucknow.	Six-monthly progress report on the implementation status of environmental conditions is regularly submitted to the Regional Offices of MoEF&CC & CPCB and to the UPPCB.

Name of the Project: LLDPE Debottlenecking Project

Project Code: UP-IND-62-164- 2004

Clearance Number: J-11011/237/2003-IA.II (I) Dated 19/04/2004

Period of Compliance: April 2025 to September 2025

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Sr. No.	Cond. No.	Conditions	Compliance Status
Specific Conditions:			
39	(i)	<p>The gaseous emissions (SO₂, NO_x and HC, HCl, Cl₂) from the various process units shall conform to the standards prescribed under Environment (Protection) Act, 1986 or norms stipulated by the SPCB's whichever is more stringent. At no time, the emission level shall go beyond the stipulated standards. In the event of failure of 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.</p>	<p>The gaseous emissions from various process units are monitored through advanced monitoring techniques and conform to the standard prescribed under Environment (Protection) Rules, 1986 and amendments thereof for Petrochemical industry. Online Continuous Emission Monitoring System has been provided in all the stacks and real time data is transmitted to CPCB and UPPCB through web based system. Mitigatory control methods have been adopted at design stage in order to reduce the load of gaseous emissions from process units. It is always ensured that in any such event of failure of pollution control system(s), the respective unit is not restarted until the control measures are rectified to achieve the desired efficiency. It is pertinent to mention that GAIL Pata uses Natural gas as a fuel, which is one of the cleanest fuel available.</p>
40	(ii)	<p>Adequate number of ambient air quality monitoring stations shall be set up in consultation with SPCB, based on the occurrence of maximum ground level concentration and downwind direction of wind. The monitoring network shall be decided based on modelling exercise to represent short term GLCs. Continuous online stack monitoring equipment shall be installed for all the stacks in the petrochemical plant. The company shall install low NO_x burners in cracker furnaces.</p>	<p>Five fixed real time ambient air quality monitoring station and Two third party portable ambient air quality monitoring stations (within and outside the premises) have been setup. In addition, 1 No. Mobile Van having real time ambient air quality monitoring station is also in use for monitoring of ambient air quality. The ambient air quality monitoring stations are installed by considering location of existing stacks, wind direction, air modelling studies carried out during EIA studies and other topographical features. Ambient air monitoring stations are regularly inspected by the UPPCB officials during their visits and no observations have been made till</p>

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			<p>date with respect to locations/sampling points.</p> <p>All the stacks of the plant are equipped with automatic stack emission monitoring equipment i.e. Online Continuous Emission Monitoring System (OCEMS).</p> <p>Low NOx burners have also been installed in all furnaces and boilers.</p>
41	(iii)	<p>For control of fugitive emissions, the company shall provide for a main flare system and an auxiliary flare system, and route all Unsaturated hydrocarbons to the flare system. The flare system shall be designed for smokeless burning. All the pumps and other equipment, where there is a likelihood of hydrocarbon leakages shall be provided with LEL indicators, and also provide for immediate isolation of such equipment, in case of a leakage. The product loading gantry shall be connected to the product sphere in closed circuit through the vapour arm connected to the tanker. Data on fugitive emissions shall be regularly monitored and records maintained.</p>	<p>The complex has been provided with a main flare system and an auxiliary flare system. The Flare system is designed for smokeless burning with adequate steam for all normal venting and flaring.</p> <p>LEL indicators & open path gas detection system have been provided in storage and process areas for detection of any hydrocarbon leakages.</p> <p>The product loading gantry is connected to the product sphere in closed circuit through the vapour arm connected to the tanker for all liquid products.</p> <p>Fugitive emissions are monitored and controlled through Leak Detection and Repair (LDAR) program as per OISD-GDN-224.</p>
42	(iv)	<p>The wastewater generated (2864 m³/d) shall be treated in the wastewater treatment plant. The treated wastewater, meeting the norms, shall be used for green belt development within the plant premises, or discharged into Sengar river, about 8 km. away in a closed pipeline through a well-designed diffuser. The company shall undertake measures to maximize recycling of treated wastewater and work towards achieving zero discharge.</p>	<p>The wastewater generated is treated in the wastewater treatment plant. Part of the treated wastewater, meeting the norms, is used for horticulture purpose and balance water is discharged to Sengar river through an 8 kms long closed pipeline at the end of which a specially designed diffuser is installed to ensure thorough mixing.</p> <p>Towards the measures for maximizing recycling of treated wastewater and achieving zero discharge, GAIL Pata has started implementation of ZLD project.</p>

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Sr. No.	Cond. No.	Conditions	Compliance Status
43	(v)	The non-hazardous solid waste generated (spent alumina and silica gel) shall be sold to approved parties. For management of the hazardous solid wastes (3.85 TPD of ETP sludge and tar), the company shall install an incinerator for tar, design a landfill for sludge, and explore bioremediation of the sludge.	The non-hazardous solid waste generated (spent alumina and silica gel) is sold to recyclers. GAIL Pata has been accorded Consolidated Consent and Authorization from Uttar Pradesh Pollution Control Board vide Authorization No. 191217/UPPCB/KanpurDehat(UPPCBRO)/CTO/both /AURRAIYA/2023, dated 04.12.2023 and is valid up to 31.12.2025. In view of this, Sludge and tar waste are being disposed through approved TSDF as prescribed by Uttar Pradesh Pollution Control Board.
44	(vi)	All the recommendations of the Charter on Corporate Responsibility for Environmental Protection (CREP) for the petrochemical sector shall be strictly implemented.	The recommendations of the Charter on Corporate Responsibility for Environmental Protection (CREP) for the petrochemical sector are already implemented and regularly followed.
45	(vii)	Green belt of adequate width and density shall be provided to mitigate the effects of fugitive emission all around the plant. A minimum of 25% of the area shall be developed as green belt with local species in consultation with the DFO, and as per CPCB's guidelines.	Green belt of adequate width and density has been provided all around the plant to mitigate the effects of fugitive emission. Presently 36% area of the premises has been developed as peripheral green belt/area with native species. Project laydown areas are also taken up for plantation. Regular maintenance and plantation of tree saplings in and around the plant complex is done and also mass tree plantation programs are organized.
46	(viii)	The company shall obtain necessary approval for drawl of groundwater from the concerned State agency.	The water consumption for the plant is met through Canal water (Etawah Branch of Lower Ganga Canal system through Burhadana Distributory). There is no drawl of ground water in the complex.
47	(ix)	The company shall undertake rainwater-harvesting measures to harvest the rain water for their own utilization as well as to recharge the groundwater table.	Rain Water harvesting measures have been implemented in all the major buildings at GAIL, Pata for recharging of ground water table. In addition, a natural pond inside the premises is used for rain water harvesting for

**Compliance status to conditions of Environment Clearances at
GAIL (India) Limited, Pata, U.P.**

Sr. No.	Cond. No.	Conditions	Compliance Status
			utilization of water from the pond as per requirement.
48	(x)	Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational Health Surveillance of the workers and Employees is done on a regular basis (6 monthly basis for workers and on annual basis for employees) and records maintained as per the Factories Act and OISD-GDN-166.

Sr. No.	Cond. No.	Conditions	Compliance Status
General Conditions			
49	(i)	The project authorities shall strictly adhere to the stipulations made by the Uttar Pradesh State Pollution Control Board and the State Government.	All the stipulations made by the State Pollution Control Board and the State Government are adhered to. Compliance to conditions of Consolidated Consent and Authorization are sent to the Uttar Pradesh Pollution Control Board.
50	(ii)	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 respective unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	The condition is noted and complied as per prescribed limit.
51	(iii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Any expansion of the plant is taken up only after obtaining prior approval of the Ministry. GAIL Pata has been accorded 6 ECs for different expansions as mentioned above (A, B, C, D, E & F).
52	(iv)	The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous	All applicable provisions of the manufacture, storage and import of hazardous chemicals rules, 1989 as amended on 3rd October 1994 and 6th

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Sr. No.	Cond. No.	Conditions	Compliance Status
		Chemicals Rules, 1989 as amended on 3rd October 1994 and 6th January 2000. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives. Fire Safety Inspectorate etc. shall be obtained wherever applicable.	January 2000 are suitably followed. All necessary approvals from Petroleum & Explosives Safety Organization, Chief inspector of factories and Fire safety inspectorate have been obtained and are in place.
53	(v)	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management & Handling) Rules 1989 as amended in January 2000, wherever applicable. Authorization from the State Pollution Control Board must be obtained for collections/treatment/ Storage / disposal of hazardous wastes.	All the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the latest Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 are strictly complied with. GAIL Pata has been accorded Consolidated Consent and Authorization from Uttar Pradesh Pollution Control Board vide Authorization No. 191217/UPPCB/KanpurDehat(UPPCBRO)/CTO/both /AURRAIYA/2023, dated 04.12.2023 and is valid up to 31.12.2025.
54	(vi)	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) 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 EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	All sources of noise generation have been provided with suitable noise control measures including acoustic hoods, silencers, enclosures etc. as applicable to maintain overall noise levels in and around the plant area within the standards. Noise levels are regularly monitored in ambient and work zone areas to ensure that noise levels are within prescribed standards.
55	(vii)	A separate Environment Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the environmental management and monitoring functions.	A full-fledged Environmental Management Cell is in place to undertake environment and sustainable development related functions. Full-fledged NABL accredited Laboratory set up also exists in the plant premises under the supervision of competent technical personnel.
56	(viii)	The project authorities shall provide adequate funds both recurring and non-recurring, to implement the conditions stipulated by the Ministry of Environment & Forests as well as	Adequate dedicated funds are earmarked for the environmental protection measures and to implement the conditions stipulated by the

**Compliance status to conditions of Environment Clearances at
GAIL (India) Limited, Pata, U.P.**

Sr. No.	Cond. No.	Conditions	Compliance Status
		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.	Ministry of Environment & Forests as well as the State Government.
57	(ix)	The implementation of the project vis-à-vis environmental action plans shall be monitored by Ministry's Regional Office at Lucknow/State Pollution Control Board /Central Pollution Control Board. A six monthly compliance status report shall be submitted to monitoring agencies.	Six-monthly compliance status report on the implementation status of environmental conditions is regularly submitted to the Regional Offices of MoEF&CC & CPCB and to the UPPCB.
58	(x)	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 State Pollution Control Board / 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 Ministry's Regional office at Lucknow.	The matter was suitably advertised in the local newspapers that are widely circulated in the region as per requirement.

Name of the Project: HDPE Expansion & 5th Furnace Project

Project Code: UP-67/173-2005

Clearance Number: J-11011/143/2004 – IA II (I) Dated 12/01/2005

Period of Compliance: April 2025 to September 2025

Specific Conditions:

Sr. No.	Cond. No.	Conditions	Compliance Status
59	(i)	All the measures detailed in the EMP shall be taken to control the point/stack and fugitive gaseous emissions from the proposed facilities namely, Gas Cracker	The point/stack and fugitive gaseous emissions have been controlled by adopting mitigatory control methods at design stage in order to reduce the load of gaseous emissions from

**Compliance status to conditions of Environment Clearances at
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Sr. No.	Cond. No.	Conditions	Compliance Status
		Furnace (GCF) and process and storage units etc. for ensuring that the ambient air quality around Pata due to the expansion is maintained at the predicted 24 hourly average maximum concentration levels and shall not exceed for the worst scenario predicted for SO ₂ (12 µg/m ³); NO _x (25 µg/m ³) and CO (2 mg/m ³).	process units. Also, the point/stack and fugitive gaseous emissions from various process units are monitored through advanced monitoring techniques and conform to the standards prescribed under Environment (Protection) Rules, 1986 and amendments thereof for Petrochemical industry and norms stipulated by the UPPCB. In addition, Online Continuous Emission Monitoring System has been provided in all the stacks and real time data is transmitted to CPCB and UPPCB through web based system.
60	(ii)	The location of the three existing ambient air quality monitoring stations along with the mobile unit shall be reviewed in consultation with SPCB, based on the occurrence of maximum ground level concentration and downwind direction of wind. The monitoring protocol shall ensure continuous monitoring of all the parameters.	Five fixed real time ambient air quality monitoring station and Two third party portable ambient air quality monitoring stations (within and outside the premises) have been setup. In addition, 1 No. Mobile Van having real time ambient air quality monitoring station is also in use for monitoring of ambient air quality. Monitoring of ambient air quality is continuous for SO ₂ , NO ₂ , Total Hydrocarbons, CO, PM ₁₀ , PM _{2.5} and Benzene/VOC at five fixed real time ambient air quality monitoring stations and one mobile van. The ambient air quality monitoring stations are installed by considering location of existing stacks, wind direction, air modelling studies carried out during EIA studies and other topographical features. Ambient air monitoring stations are regularly inspected by the UPPCB officials during their visits and no observations have been made till date with respect to locations/sampling points.
61	(iii)	The practice of acoustic plant design shall be adopted to limit noise exposure for personnel to an 8 hr time weighted average of 90 db (A).	All required measures have been undertaken during design stage of plant to limit noise exposure for personnel as per prescribed standards.

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Sr. No.	Cond. No.	Conditions	Compliance Status
62	(iv)	For control of fugitive emissions, the company shall provide for a main flare system and an auxiliary flare system, and route all unsaturated hydrocarbons to the flare system. The flare system shall be designed for smokeless burning. All the pumps and other equipment where there is a likelihood of HC leakages shall be provided with LEL indicators and also provide for immediate isolation of such equipment, in case of a leakage. The company shall adopt Leak Detection and Repair (LDAR) programme for quantification and control of fugitive emissions.	The complex has been provided with a main flare system and an auxiliary flare system. The Flare system is designed for smokeless burning with adequate steam for all normal flaring. LEL indicators & open path gas detection system have been provided in storage, process areas and main flare KODs for detection of any hydrocarbon leakages. The product loading gantry is connected to the product sphere in closed circuit through the vapour arm connected to the tanker for all liquid products. Fugitive emissions are monitored and controlled through Leak Detection and Repair (LDAR) program as per OISD-GDN-224.
63	(v)	The product loading gantry shall be connected to the product sphere in closed circuit through the vapours arm connected to the tanker. Data on fugitive emissions shall be regularly monitored and records maintained.	The product loading gantry is connected to the product sphere in closed circuit through the vapour arm connected to the tanker for liquid products. Fugitive emissions are monitored and controlled through Leak Detection and Repair (LDAR) program as per OISD-GDN-224.
64	(vi)	The company shall ensure that no halogenated organic is sent to the flares. If any of the halogenated organic are present then the respective streams may be incinerated, if there are no technically feasible or economically viable reduction/recovery options. Any stream containing organic carbon, other than halogenated shall be connected to proper flaring system, if not to a recovery device or an incinerator.	No halogenated organics are present in any of the streams in this natural gas based petrochemical complex.
65	(vii)	All new standards/norms that are being proposed by the CPCB for petrochemical plants shall be applicable for the proposed expansion unit. The company shall conform to the process vent	Environment monitoring including work area environment w.r.t to Non-VOCs and VOCs monitoring is done through In-house Laboratory and approved third party on a regular basis as per CPCB standards.

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Sr. No.	Cond. No.	Conditions	Compliance Status
		standards for organic chemicals including non-VOCs and all possible VOCs i.e. TOCs standard and process vent standards for top priority chemicals. The company shall install online monitors for VOC measurements. Action on the above should be taken during the detailed design stage of the NCC and intimate to this Ministry.	Online LEL indicators & open path gas detection system have been provided in storage, process areas and main flare KODs for detection of any hydrocarbon leakages.
66	(viii)	The waste water generated (3184 m ³ /d) shall be treated in comprehensive waste water treatment plant. As reflected in the EIA /EMP report, the company shall maximize the recycling of treated effluent and treated effluent after conforming to the proposed standards should be used for green belt development. The remaining treated effluent should be discharged into Sengar River about 08 kms away from the plant in a closed pipeline through a well-defined diffuser at a point where dispersion of effluent is rapid and ensures minimum impact on the aquatic ecology.	The wastewater generated is treated in the wastewater treatment plant. Part of the treated wastewater, meeting the norms, is used for horticulture purpose and balance water is discharged to Sengar river through 8 km long closed pipeline at the end of which is specially designed diffuser arrangement along stream bed to ensure thorough mixing.
67	(ix)	The company shall obtain necessary approval from the State Irrigation Department to meet the additional water requirement from the existing canal network.	Necessary approval from the State Irrigation Department has been obtained vide agreement no DG738976, dated 02/05/2017.
68	(x)	The solid waste will be generated in the form of 5 TPA of molecular sieve once in five year and Tar. The company shall incinerate Tar or use it for road making and design a landfill for disposal of molecular sieve.	GAIL Pata has been accorded Consolidated Consent and Authorization from Uttar Pradesh Pollution Control Board vide Authorization No. 191217/UPPCB/KanpurDehat(UPPCBRO)/CTO/both /AURRAYA/2023, dated 04.12.2023 and is valid up to 31.12.2025. All the waste generated are suitably disposed in environment friendly manner as recommended in Hazardous Waste Authorisation.
69	(xi)	Green belt shall be provided to mitigate the effects of fugitive	Green belt of adequate width and density has been provided all around

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Sr. No.	Cond. No.	Conditions	Compliance Status
		emissions all around the plant in a minimum of 25% of the plant area in consultation with DFO as per CPCB guidelines.	the plant to mitigate the effects of fugitive emission. Presently 36% area of the premises has been developed as peripheral green belt/area with native species. Regular plantation of tree saplings in and around the plant complex is done and also mass tree plantation programs are organized.
70	(xii)	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Occupational Health Surveillance of the workers and Employees is done on a regular basis (6 monthly basis for workers and on annual basis for employees) and records maintained as per the Factories Act and OISD-GDN-166.
71	(xiii)	The Company shall implement all the recommendations made in the EIA /EMP report and risk assessment report.	All the recommendations made in the EIA /EMP report and risk assessment report are being suitably complied.
General Conditions:			
72	(i)	The project authorities must strictly adhere to the stipulations made by the Uttar Pradesh State Pollution Control Board and the State Government.	All the stipulations made by the State Pollution Control Board and the State Government are adhered to. Compliance to conditions of Consolidated Consent and Authorization are sent to the Uttar Pradesh Pollution Control Board.
73	(ii)	No further expansion or modernization in the plant should be carried out without prior approval of the Ministry of Environment and Forests.	Any expansion of the plant is taken up only after obtaining prior approval of the Ministry. GAIL Pata has been accorded 6 ECs for different expansions as mentioned above (A, B, C, D, E & F).
74	(iii)	At no time, the emissions should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the units, the respective unit should be immediately put out of operation and should not be restarted until the desired efficiency has been achieved.	The gaseous emissions from various process units are monitored through advanced monitoring techniques and conform to the standard prescribed by the statutory authorities. Online Continuous Emission Monitoring System has been provided in all the stacks and real time data is transmitted to CPCB and UPPCB through web based system. Mitigatory control methods have been adopted at design stage in

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Sr. No.	Cond. No.	Conditions	Compliance Status
			order to reduce the load of gaseous emissions from process units. It is pertinent to mention here that GAIL, Pata uses Natural gas as fuel, which is one of the cleanest fuel available.
75	(iv)	The overall noise levels in and around the plant area should be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	All sources of noise generation have been provided with suitable noise control measures including acoustic hoods, silencers, enclosures etc. as applicable to maintain overall noise levels in and around the plant area within the standards. Noise levels are regularly monitored in ambient and work zone areas to ensure that noise levels are within prescribed standards.
76	(v)	The project authorities must strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989 as amended in 2000 for handling of hazardous chemicals etc. Necessary approvals from Chief Controller of Explosives must be obtained before commission of the project.	All applicable provisions of the manufacture, storage and import of hazardous chemicals rules, 1989 as amended on 3rd October 1994 and 6th January 2000 are suitably followed. All necessary approvals from Petroleum & Explosives Safety Organization have been obtained and are in place.
77	(vi)	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the State Pollution Control Board must be obtained for collections/treatment/ storage/ disposal of hazardous wastes.	All the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the latest Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 are strictly complied with. GAIL Pata has been accorded Hazardous waste authorization for collections / treatment / Storage / disposal of hazardous wastes by UPPCB vide letter no. 191217/UPPCB/KanpurDehat(UPPCBRO)/CTO/both /AURRAIYA/2023, dated 04.12.2023 and is valid up to 31.12.2025.
78	(vii)	The project authorities will provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with	Adequate dedicated funds are earmarked for the environmental protection measures and to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government.

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Sr. No.	Cond. No.	Conditions	Compliance Status
		the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes.	
79	(viii)	The stipulated conditions will be monitored by the Regional Office of this Ministry at Lucknow/Central Pollution Control Board/State Pollution Control Board. A six monthly compliance report and the monitored data should be submitted to them regularly.	Six-monthly compliance status report on implementation status of the stipulated conditions along with monitored data is regularly submitted to the Regional Offices of MoEF&CC & CPCB and to the Uttar Pradesh Pollution Control Board.
80	(ix)	The Project Proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at http://www.envfor.nic.in . This should 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 should be forwarded to the Regional office	The matter was suitably advertised in the local newspapers that are widely circulated in the region as per requirement.
81	(x)	The Project Authorities should 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 commencing the land development work.	Suitable information as required was communicated to the concerned agencies.

Name of the Project: Expansion of Petrochemical Complex project
Clearance Number: J-11011/595/2010-IA II (I), Dated 23/05/2012
Period of Compliance: April 2025 to September 2025

Project Code: NIL

Sr. No.	Cond. No.	Conditions	Compliance Status
Specific Conditions:			

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Sr. No.	Cond. No.	Conditions	Compliance Status
82	(i)	All the specific conditions and general conditions specified in the environmental clearances letters accorded vide Ministry's letter nos. J-11011//22/90-IA.II (I) dated 30 th March, 1992, J-11011/29/96-IA.II (I) dated 16 th January, 1997, J-11011/237/2003-IA.II (I) dated 19 th April, 2004 and J-11011/143/2004-IA.II (I) dated 12 th January, 2005 should be implemented.	All the specific conditions and general conditions specified in the environmental clearances letters accorded are implemented.
83	(ii)	M/s GAIL (India) Limited shall comply with the new standards/norms prescribed for petrochemical industry notified under the Environment (Protection) Rules, 1986.	M/s GAIL (India) Limited is complying with the new standards/norms as prescribed for petrochemical industry notified under the Environment (Protection) Rules, 1986.
84	(iii)	The process emissions (Particulate matter, SO ₂ , NO _x , HC, CO and VOCs) from various units shall conform to all standards prescribed by CPCB / U.P. Pollution Control Board (UPPCB) 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 regularly.	The gaseous emissions from various process units are monitored through advanced monitoring techniques and conform to the standard prescribed for petrochemical industry notified under the Environment (Protection) Rules, 1986. Online Continuous Emission Monitoring System has been provided in all the stacks and real time data is transmitted to CPCB and UPPCB through web based system. Mitigatory control methods have been adopted at design stage in order to reduce the load of gaseous emissions from process units. It is always ensured that in any such event of failure of pollution control system(s), the respective unit is not restarted until the control measures are rectified to achieve the desired efficiency. However, it is pertinent to mention here that GAIL, Pata uses Natural gas as fuel, which is one of the cleanest fuel available.
85	(iv)	OISD guidelines shall be followed for minimum distance between various units.	Minimum distance between various units is ensured as per the OISD-STD-118.

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Sr. No.	Cond. No.	Conditions	Compliance Status
86	(v)	Low NO _x burner shall be installed to control NO _x emissions.	Low NO _x burners are used in all the Furnaces and Boilers.
87	(vi)	As proposed, vapor recovery system shall be provided for product loading gantry.	The product loading gantry is connected to the product sphere in closed circuit through the vapour arm connected to the tanker.
88	(vii)	Ambient air quality data shall be collected as per NAAQES standards notified by the Ministry vide G.S.R. No. 826 (E) dated 16 th September, 2009.	Ambient air quality data is collected as per NAAQES standards notified by the Ministry vide G.S.R. No. 826 (E) dated 16 th September, 2009.
89	(viii)	In-plant control and monitoring measures for checking fugitive emissions from all the vulnerable sources should be provided. Adequate dust suppression systems with water spray should be provided for storage yard, junction houses. Raw material loading and unloading area should be covered and also provided with water spraying system. Fugitive emissions in the work zone environment, product, raw materials storage area etc. should be regularly monitored and records maintained. The emissions should conform to the limits stipulated by the UPPCB.	Fugitive emissions in all the areas of the plant are monitored and controlled through Leak Detection and Repair (LDAR) program as per OISD-GDN-224. In addition, LEL indicators & open path gas detection system have been provided in storage and process areas for detection of any hydrocarbon leakages. Raw material used in the plant is natural gas which is received through cross country pipeline and remains in closed system and as such there is no requirement of any dust suppression system.
90	(ix)	Steps shall be taken to minimize fugitive emissions. Monitoring of fugitive emissions shall be carried out as per guidelines of CPCB by fugitive emissions detector and report shall be submitted to the Ministry's Regional Office at Lucknow.	Fugitive emissions are monitored and controlled through Leak Detection and Repair (LDAR) program as per guidelines of CPCB and OISD-GDN-224. Summary report of the LDAR monitoring of Q-1 and Q-2 of FY 2025-26 is enclosed as Annexure-3. All the leaks have been suitably attended.
91	(x)	Continuous ambient air quality monitoring stations for PM ₁₀ , SO ₂ , NO _x , CO, HC and VOCs shall be set up in the petrochemical complex in consultation with CPCB/UPPCB. Unit shall follow CPCB/MoEF calibration protocol for the calibration of continuous stack monitoring and ambient air quality monitoring	Five fixed continuous ambient air quality monitoring stations have been setup in addition to 1 No. Mobile Van for real time monitoring of SO ₂ , NO _x , Total Hydrocarbons, CO, PM ₁₀ , PM _{2.5} and VOCs. All the stacks of the plant are equipped with automatic stack emission monitoring equipment i.e. Online

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Sr. No.	Cond. No.	Conditions	Compliance Status
		analyzer installed in all stations. Data of stack monitoring and ambient air shall be displayed on web as well as outside the premises at prominent place for public viewing. The company shall upload the 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 UPPCB.	Continuous Emission Monitoring System (OCEMS). Calibration of all the monitoring equipment is carried out as per prescribed protocol. Monitored data is displayed outside the premises at prominent place for public viewing and also uploaded on company's website and updated periodically. Data of stack and ambient air monitoring for the period April 2025 to September 2025 is enclosed as Annexure-1.
92	(xi)	A proper leak detection and repair (LDAR) Program shall be prepared and implemented. Focus shall be given for prevention of fugitive emissions for which preventive maintenance of pumps, valves, pipelines are required. A preventive maintenance schedule for each unit shall be prepared and adhered to.	Fugitive emissions are monitored and controlled through Leak Detection and Repair (LDAR) program as per OISD-GDN-224. A preventive maintenance schedule for pumps valves etc. exists and the same is adhered to.
93	(xii)	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 sets to mitigate the noise pollution.	The gaseous emissions from DG sets are dispersed through adequate stack height as per CPCB standards. Also acoustic enclosures are provided to the DG sets to mitigate the noise pollution.
94	(xiii)	Continuous monitoring system for VOCs at all important places/areas shall be ensured. When monitoring results indicate above permissible limits, effective measures shall be taken immediately.	LEL indicators & open path gas detection system have been provided in storage and process areas for detection of any hydrocarbon leakages.
95	(xiv)	Additional fresh water requirement from canal shall not exceed 1020 m ³ /hr and prior permission shall be obtained from the concerned agency. No ground water shall be used.	Necessary approval from the State Irrigation Department has been obtained vide agreement no DG738976, dated 02/05/2017. The water consumption for the plant is completely met through Canal water (Etawah Branch of Lower Ganga Canal system through Burhadana Distributory). No ground water is used in the complex.
96	(xv)	Additional industrial effluent generation due to proposed expansion shall not exceed 64 m ³ /hr. Industrial effluents including	Waste Water Treatment plant having 2 nos. 150 m ³ /hr capacity chains is functional for treating combined effluents from various process units.

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Sr. No.	Cond. No.	Conditions	Compliance Status
		<p>existing (214 m³/hr) shall be segregated and treated in the ETP. As proposed, treated effluent (50 m³/hr) shall be recycled and reused within factory premises. Remaining treated effluent shall be discharged into Sengar River after obtaining prior permission from the UPPCB and meeting the norms prescribed. Water quality of treated effluent should be monitored regularly. Online TOC analyzer, pH meter and flow meter shall be installed to monitor the treated water quality before discharge into River. As proposed, sewage shall be transferred to aeration tank along with process wastewater.</p>	<p>Necessary augmentation to the old ETP Plant has been incorporated with respect to additional waste water generation from the expansion project. Maximum treated water is recycled and reused for horticulture purposes. Balanced treated water is discharged to Sengar river. Necessary approval from UPPCB has been obtained. The treated water Quality is monitored regularly through Online Water Analyser and the flow meter. Also, parameters of online effluent quality monitoring system are connected with CPCB & UPPCB servers. The sewage water is channelized to the aeration tank of wastewater treatment plant along with Process waste water for further treatment.</p>
97	(xvi)	<p>Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.</p>	<p>Separate storm water drain exists. It has been ensured that process effluent and other waste water are not mixed with storm water. Contaminated Storm Water is treated in Waste Water Treatment plant and is passed through guard pond.</p>
98	(xvii)	<p>The company should obtain authorization 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 and prior permission from UPPCB should be obtained for disposal of solid/hazardous waste in TSDF. Measures should be taken for firefighting facilities in case of emergency. Membership of TSDF for hazardous waste disposal should be obtained and submitted to the regional office at Lucknow.</p>	<p>GAIL Pata has been accorded Consolidated Consent and Authorization from Uttar Pradesh Pollution Control Board vide Authorization No. 191217/UPPCB/KanpurDehat(UPPCBRO)/CTO/both /AURRAIYA/2023, dated 04.12.2023 and is valid up to 31.12.2025. All Hazardous wastes are disposed in line with the recommendations of the hazardous waste authorization accorded by the UPPCB. Firefighting facility is in place at GAIL Pata to handle any emergency. GAIL, Pata is also a permanent member of Uttar Pradesh Waste Management Project (membership no. UPWMP-KNP-HzW – CHW-TSDF – 1268) (Copy enclosed as Annexure-4) for utilizing their common hazardous waste treatment storage disposal facility (CHW-TSDF) to</p>

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Sr. No.	Cond. No.	Conditions	Compliance Status
			dispose hazardous waste safely & securely and has already been submitted to the regional office.
99	(xviii)	Existing captive secured landfill site shall be designed as per CPCB guidelines. A performance evaluation study for the existing captive secured landfill site shall be carried out and report shall be submitted to the respective regional office of the MoEF, CPCB and UPPCB within three months. All the recommendations made in the study shall be implemented.	Secured landfill site is not in use. However, a scientific solid waste management facility has been developed for intermediate storage of the waste to ensure timely disposal to authorized agencies.
100	(xix)	Piezometer wells shall be installed around secured landfill. Ground water monitoring shall be carried out in every three months and trend analysis shall be carried out and report shall be sent to the CPCB and UPPCB.	Secured landfill site is not in use. However, Piezometer wells are installed for regular sampling and analysis of ground water along with depth by third party environment monitoring agency. Ground water quality monitoring report for the period April 2025 to September 2025, monitored by MoEF&CC approved and NABL accredited third party is enclosed as Annexure-5.
101	xx	Spent catalyst and bottom tank sludge shall be sent to authorized re-processors/ recyclers.	Spent catalysts and Bottom tank sludge are disposed as per recommendations of hazardous waste authorization accorded by UPPCB.
102	(xxi)	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in the material handling. Firefighting system should be as per the OISD norms. All the OISD standards shall be followed.	Protection against all Fire Hazards is in place. Firefighting systems are in line as per the OISD-GDN-115 & OISD-GDN-116.
103	(xxii)	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.	Handling, Manufacturing and storage of all hazardous chemicals are carried out in accordance with the manufacture, storage and import of hazardous chemicals rules, 1989 as amended. Also, Transportation of Hazardous Chemicals is carried out as per the Motor Vehicle Act (MVA), 1989.

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Sr. No.	Cond. No.	Conditions	Compliance Status
104	(xxiii)	<p>The company shall undertake following waste minimization measures:-</p> <p>a) Metering and control of quantities of active ingredients to minimize waste.</p> <p>b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.</p> <p>c) Use of automated filling to minimize spillage</p> <p>d) Use of closed Feed system into batch reactors.</p> <p>e) Venting equipment through vapor recovery system</p> <p>f) Use of high pressure hoses for equipment cleaning to reduce wastewater generation.</p>	<p>a) Complied. Metering and control of quantities of active ingredients is done in order to minimize waste generation.</p> <p>b) Complied. Byproducts generated are used in process to the extent possible or sold to customers.</p> <p>c) Complied. Automated filling is being done to minimize spillage.</p> <p>d) Not Applicable</p> <p>e) Complied. Loading of all liquid products is carried out through vapor recovery system.</p> <p>f) Complied. Cleaning works are carried out using high pressure hoses.</p>
105	(xxiv)	<p>Green belt shall be developed in 33 % area to mitigate the effects of fugitive emissions all around the plant as per CPCB guidelines in consultation with the local DFO. Thick greenbelt with suitable plant species shall be developed around the proposed distillery to mitigate the odor problem.</p>	<p>Green belt of adequate width and density has been provided all around the plant to mitigate the effects of fugitive emission as well as odour if any.</p> <p>Presently 36% area of the premises has been developed as peripheral green belt/area with native species. Regular plantation of tree saplings in and around the plant complex is done and also mass tree plantation programs are organized.</p>
106	(xxv)	<p>Occupational health surveillance program shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health center shall be strengthened and the regular medical test records of each employee shall be maintained separately.</p>	<p>Occupational Health Surveillance of the workers and Employees is done on a regular basis (6 monthly basis for workers and on annual basis for employees) and records maintained as per the Factories Act and OISD-GDN-166. The first aid facilities in the occupational health center are regularly reviewed and strengthened as per requirement.</p>
107	(xxvi)	<p>All the recommendations mentioned in the rapid risk assessment report, disaster management plan and</p>	<p>All the recommendations mentioned in the rapid risk assessment report,</p>

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		safety guidelines shall be implemented.	disaster management plan and safety guidelines are implemented.
108	(xxvii)	All the commitments made during the public hearing/ public consultation meeting held on 5 th September, 2011 should be satisfactorily implemented and adequate budget provision should be made accordingly.	All the commitments made during the public hearing/ public consultation meeting held on 5 th September, 2011 have been suitably implemented.
109	(xxviii)	Company shall prepare project specific environmental manual and a copy shall be made available at the project site for compliance.	Project specific environmental manual and procedures are in place.
110	(xxix)	Company should adopt corporate environment policy as per the Ministry's O.M No J-11013/41/2006-IA.II (I) dated 26 th April, 2011 and implemented. Under Corporate Social Responsibility (CSR), sufficient budgetary provision should be made for health improvement, education, water and electricity supply etc. in and around the project.	Corporate Sustainable Development Policy and site level Environment Policy exists. GAIL has allocated an annual budget of 2 % of the Average Net Profit during the three immediately preceding financial years for Corporate Social Responsibility (CSR) activities, which is effectively used for carefully chosen programs in the field of community development, education, infrastructure, health care, skill development and environment & sanitation. Socially useful programs have been undertaken in GAIL since its inception in and around the areas adjoining its major work centers.
111	(xxx)	Provision shall be made for the housing for construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. 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.	The site has been fully developed and stabilized. All necessary measures are taken in respect of sanitation facilities, hygiene etc. for workers. Mostly Local laborers are deployed to the extent possible.

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Sr. No.	Cond. No.	Conditions	Compliance Status
General Conditions			
112	(i)	The project authorities shall strictly adhere to the stipulations made by the U.P Pollution Control Board (UPPCB)	All the stipulations made by the Uttar Pradesh Pollution Control Board are adhered to.
113	(ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to the Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Any expansion of the plant is taken up only after obtaining prior approval of the Ministry. GAIL Pata has been accorded 6 ECs for different expansions as mentioned above (A, B, C, D, E & F).
114	(iii)	The locations of ambient air quality monitoring stations shall be decided in consultation with the state pollution control board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Five fixed real time ambient air quality monitoring station and Two third party ambient air quality monitoring stations (within and outside the premises) have been setup. In addition, 1 No. Mobile Van having real time ambient air quality monitoring station is also in use for monitoring of ambient air quality. The locations covered by the stations have been fixed considering location of existing stacks, wind direction and other topographical features.
115	(iv)	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)	All sources of noise generation have been provided with suitable noise control measures including acoustic hoods, silencers, enclosures etc. as applicable to maintain overall noise levels in and around the plant area within the standards. Noise levels are regularly monitored in ambient and work zone areas to ensure that noise levels are within prescribed standards.
116	(v)	The company shall harvest rainwater from the rooftops of the buildings and storm water drains to	Rain Water harvesting measures have been implemented in all the major buildings at GAIL, Pata for recharging

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Sr. No.	Cond. No.	Conditions	Compliance Status
		recharge the ground water and use the same water for the process activities of the project to conserve water.	of ground water table. In addition, a natural pond inside the premises is used for rain water harvesting for utilization of water from the pond as per requirement.
116	(vi)	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 is imparted to the employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees are also undertaken on regular basis.
118	(vii)	The company shall also comply with all the environmental protection measures and safeguards proposed in the document 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.	All the environmental protection measures and safeguards are being complied.
119	(viii)	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	GAIL has allocated an annual budget of 2 % of the Average Net Profit during the three immediately preceding financial years for Corporate Social Responsibility (CSR) activities, which is effectively used for carefully chosen programs in the field of community development, education, infrastructure, health care, skill development and environment & sanitation. Socially useful programs are undertaken by involving local villages and administration.
120	(ix)	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	GAIL Pata regularly undertakes developmental and welfare measures in the project area for overall improvement.
121	(x)	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the	A full-fledged Environmental Management Cell is in place to undertake environment and

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Sr. No.	Cond. No.	Conditions	Compliance Status
		environmental management and monitoring functions.	sustainable development related functions. Full-fledged NABL accredited Laboratory set up also exists in the plant premises under the supervision of competent technical personnel.
122	(xi)	The company shall earmark sufficient funds towards capital cost and 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.	Adequate dedicated funds are earmarked for the environmental protection measures and to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government.
123	(xii)	A copy of the clearance letter shall be sent by the project 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.	A copy of the clearance letter was sent to the concerned panchayat.
124	(xiii)	The project proponent shall submit six monthly reports on the status of compliance of the stipulated Environmental Clearance including results of monitored data.	Six monthly reports on the status of compliance of the stipulated Environmental Clearance including results of monitored data is regularly submitted.
125	(xiv)	The environmental statement for each financial year ending 31 st March in Form-V as is mandated shall be submitted to the concerned 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	The environmental statement for each financial year ending 31 st March in Form-V is submitted to the Uttar Pradesh Pollution Control Board. A copy of the same is also uploaded on the website of the company along with the status of compliance of environmental clearance conditions and also sent to the Regional Office of MoEF&CC by e-mail. Copy of the Environmental statement for the financial year ending 31 st March 2024 is enclosed as Annexure-6.

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Sr. No.	Cond. No.	Conditions	Compliance Status
		be sent to the respective Regional Offices of MoEF by e-mail.	
126	(xv)	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and the 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.	The matter was suitably advertised in the local newspapers that are widely circulated in the region as per requirement and a copy of the same was also forwarded to the concerned Regional Office of the Ministry.
127	(xvi)	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and the final approval of the project by the concerned authorities and the date of start of the project.	Suitable information as required was communicated to the concerned agencies.

Name of the Project: Polypropylene Expansion Project **Project Code:** NIL
Clearance Number: J-11011/595/2010-IA II (I), Dated 16/10/2020
Period of Compliance: April 2025 to September 2025

Sr. No.	Cond. No.	Conditions	Compliance Status
Specific Conditions:			
128	(i)	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	All the environmental protection measures and safeguards are being fulfilled.

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Sr. No.	Cond. No.	Conditions	Compliance Status
129	(ii)	As committed by the Project proponent, 75 % of the effluent discharged to the river shall be recovered and reused to reduce the fresh water requirement. The total effluent proposed to discharge to the river is 164 cum/hr, out of which 75 % shall be treated through ETP/RO system and reused in the plant/process. Only the remaining 25 % the effluent shall be sent for river discharge after meeting the prescribe standards.	In compliance to this specific condition, action for implementation of following is under progress: <ul style="list-style-type: none"> • Augmentation of Existing WWTP Equipment's to enhance the efficiency of the treatment units. • To install one no. additional chain of WWTP of capacity 150 m³/hr. • To install a RO based recycle plant of capacity 450 m³/hr. • To install a ZLD Plant of 18 m³/hr. to cater to RO reject.
130	(iii)	Total fresh water requirement shall not exceed 2040 cum/hr, proposed to be met from water supply from the Irrigation Department, Etawah Zone. Necessary permission in this regard shall be obtained from the concerned regulatory authority. The fresh water requirement shall be reduced after installation of rainwater harvesting system in the unit/project area.	Necessary permission from the State Irrigation Department is already available vide agreement no. DG738976, dated 02/05/2017 (Copy enclosed as Annexure-7). Additional rainwater harvesting structures are under construction in the upcoming Polypropylene unit/project area.
131	(iv)	Comprehensive water audit to be conducted on annual basis and report to the concerned Regional Office of MoEF&CC. Outcome from the report to be implemented for conservation scheme.	Comprehensive water audit of GAIL Pata has been carried out by M/s CII Triveni Water Institute, New Delhi during August 2024. The outcome from the report is under implementation.
132	(v)	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Separate storm water drain exists. It is ensured that process effluent and other waste water are not mixed with storm water. Contaminated Storm Water is treated in Waste Water Treatment plant and is passed through guard pond. Action for construction of a new storm water guard pond of capacity 47500 m ³ is under progress.
133	(vi)	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be	Hazardous chemicals being used at GAIL Pata are stored in tanks, tank farms, drums, carboys etc. Flame

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Sr. No.	Cond. No.	Conditions	Compliance Status
		provided on tank farm, and solvent transfer to be done through pumps.	arresters are provided on tank farm, and solvents are being transferred through pumps. Noted for compliance for new expansion project.
134	(vii)	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF. The ash from boiler shall be sold to brick manufacturers/cement industry.	All the generated hazardous wastes are being disposed of as per the directions of Hazardous Waste Authorization accorded from Uttar Pradesh Pollution Control Board vide letter no. 191217/UPPCB/ KanpurDehat (UPPCBRO)/CTO/both /AURRAIYA/2023, dated 04.12.2023 and is valid up to 31.12.2025. There is no generation of ash from the boilers as natural gas is the source of fuel. Noted for compliance for new expansion project.
135	(viii)	Regular VOC monitoring shall be done at vulnerable points.	VOC monitoring is carried out and controlled through Leak Detection and Repair (LDAR) program as per OISD-GDN-224. Noted for compliance for new expansion project.
136	(ix)	The oily sludge shall be subjected to melting pit for oil recovery and the residue shall be bio-remediated. The sludge shall be stored in HDPE lined pit with proper leachate collection system.	All the generated hazardous wastes are being disposed off as per the directions of Hazardous Waste Authorization accorded by Uttar Pradesh Pollution Control Board vide letter no. 191217/UPPCB/ KanpurDehat (UPPCBRO) /CTO/both /AURRAIYA/2023, dated 04.12.2023 and is valid up to 31.12.2025. The oily sludge is stored in HDPE lined pits inside the plant premises before disposal.
137	(x)	Oil catchers/oil traps shall be provided at all possible locations in rain/ storm water drainage system inside the factory premises.	Oil catchers/oil traps are already available at all possible locations in storm water drainage system inside the factory premises. Noted for compliance for new expansion project.
138	(xi)	The company shall undertake waste minimization measures as below:	

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		<p>a. Metering and control of quantities of active ingredients to minimize waste.</p> <p>b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.</p> <p>c. Use of automated filling to minimize spillage.</p> <p>d. Use of Close Feed system into batch reactors.</p> <p>e. Venting equipment through vapor recovery system.</p> <p>f. Use of high pressure hoses for equipment cleaning etc. to reduce wastewater generation.</p>	<p>a. Complied. Metering and control of quantities of active ingredients is done in order to minimize waste generation.</p> <p>b. Complied. Byproducts generated are used in process to the extent possible or sold to customers.</p> <p>c. Complied. Automated filling is being done to minimize spillage.</p> <p>d. Not Applicable</p> <p>e. Complied. Loading of all liquid products is carried out through vapor recovery system.</p> <p>f. Complied. Cleaning works are carried out using high pressure hoses.</p>
139	(xii)	The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Green belt of adequate width and density has been provided all around the plant premises. More than 33% area of the premises has been developed as peripheral green belt/area with native species. Regular plantation of tree saplings in and around the plant complex is done and also mass tree plantation programs are organized.
140	(xiii)	As proposed, Rs 4.77 crores shall be allocated for Corporate Environment Responsibility (CER) shall be utilized for meeting the commitment of the socio-economic issues and as per the proposed action plan. The CER plan shall be completed within three year of expansion of the project.	An amount of Rs 4.77 crores has been allocated for Corporate Environment Responsibility (CER) and is being utilized for meeting the commitment of the socio-economic issues.
141	(xiv)	The project proponent shall ensure 70% of the employment to the local people, as per the applicable law. The project proponent shall set up a skill development center/provide skill development training to village people.	It is being ensured that maximum employment is provided to the local people as per the applicable law. Necessary skill development center has been established and skill development training is also imparted to village people.
142	(xv)	A separate Environmental Management Cell (having qualified person with Environmental Science/ Environmental Engineering/ specialization in the project area)	A full-fledged Environmental Management Cell is in place to undertake environment and sustainable development related functions. Full-fledged NABL accredited

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Sr. No.	Cond. No.	Conditions	Compliance Status
		equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Laboratory set up also exists in the plant premises under the supervision of competent technical personnel.
143	(xvi)	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	Protection against all Fire Hazards is in place. Firefighting systems are in line as per the OISD-GDN-115 & OISD-GDN-116. Noted for compliance for new expansion project.
144	(xvii)	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. In case of the treated effluent to be utilized for irrigation/gardening, real time monitoring system shall be installed at the ETP outlet.	Online Continuous Emission Monitoring System has been provided in all the stacks and real time data is transmitted to CPCB and UPPCB through web based system. Continuous online monitoring of the effluent parameters like pH, BOD, COD, TSS, TOC & Flow is done and data is transmitted to CPCB and UPPCB on real time basis through web based server systems. No additional stack is envisaged for expansion project.
145	(xviii)	PP to set up occupational health Centre for surveillance of the worker's health within and outside the plant on a regular basis. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.	An occupational health center exists within the complex. Occupational Health Surveillance of the workers and Employees is done on a regular basis (6 monthly basis for workers and on annual basis for employees) and records maintained as per the Factories Act and OISD-GDN-166. The health data is suitably used in deploying the duties of the workers. All workers & employees are provided with required safety kits/mask for personal protection.
146	(xix)	The National Emission Standards for Petrochemical (Basic & Intermediates) issued by the Ministry vide G.S.R. 820 (E) dated 9th November, 2012 as amended time to time shall be followed.	The National Emission Standards for Petrochemical (Basic & Intermediates) issued by the Ministry vide G.S.R. 820 (E) dated 9th November, 2012 as amended is being followed. Noted for compliance for new expansion project.
147	(xx)	Recommendations of mitigation measures from possible accident shall be implemented based on Risk	All the recommendations mentioned in the rapid risk assessment report, disaster management plan and safety

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Sr. No.	Cond. No.	Conditions	Compliance Status
		Assessment studies conducted for worst case scenarios using latest techniques.	guidelines are being implemented suitably.
148	(xxi)	The project proponent shall develop R & D facilities to develop their own technologies for propylene and polypropylene processing.	A dedicated Corporate R&D department exist in GAIL (India) Limited which also caters to the research and development work related to GAIL Pata.

Sr. No.	Cond. No.	Conditions	Compliance Status
General Conditions			
149	(i)	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	The condition is noted. Any expansion of the plant is taken up only after obtaining prior approval of the Ministry. Noted for compliance for new expansion project.
150	(ii)	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	Energy source for lighting purpose shall be LED based lighting in the upcoming project. Also, Phase wise replacement of incandescent lamps with LEDs is under progress for the existing facility.
151	(iii)	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 the Environment (Protection) Act, 1986	All sources of noise generation have been provided with suitable noise control measures including acoustic hoods, silencers, enclosures etc. as applicable to maintain overall noise levels in and around the plant area within the standards. Noise levels are regularly monitored in ambient and work zone areas to ensure that noise levels are within prescribed standards.

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		Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Noted for compliance for new expansion project.
152	(iv)	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	All relevant measures for improving the socio-economic conditions of the surrounding area along with CER activities are being undertaken by involving local villages and administration.
153	(v)	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change 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.	The dedicated funds are earmarked for the environmental protection measures towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government.
154	(vi)	A copy of the clearance letter shall be sent by the project 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.	The condition is not applicable, as there were no suggestions/representations.
155	(vii)	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&CC, the respective Zonal Office of CPCB and SPCB. A copy of	Six monthly reports on the status of compliance of the stipulated Environmental Clearance including results of monitored data is regularly submitted to the Regional Offices of MoEF&CC and CPCB and to the UPPCB and the same is also uploaded on the website of the company.

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Sr. No.	Cond. No.	Conditions	Compliance Status
		Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	
156	(viii)	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned 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&CC by e-mail.	The environmental statement for each financial year ending 31 st March in Form-V is submitted to the Uttar Pradesh Pollution Control Board. A copy of the same is also uploaded on the website of the company along with the status of compliance of environmental clearance conditions and also sent to the Regional Office of MoEF&CC by e-mail. Copy of the Environmental statement for the financial year ending 31 st March 2025 is enclosed as Annexure-6.
157	(ix)	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 and at https://parivesh.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.	The matter was suitably advertised in the local newspapers that are widely circulated in the region as per requirement and forwarded to the concerned Regional Office of the Ministry. Copy of the same is enclosed as Annexure-8.
158	(x)	The project authorities shall inform the Regional Office as well 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.	Noted for compliance.

**Compliance status to conditions of Environment Clearances at
GAIL (India) Limited, Pata, U.P.**

Sr. No.	Cond. No.	Conditions	Compliance Status
159	(xi)	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	The condition is noted.

Environmental Monitoring Report of M/s GAIL Pata for April 2025

AMBIENT AIR QUALITY MONITORING & ANALYSIS RESULTS

The Ambient Air Quality has been monitored at 2 locations. Results of Ambient Air Quality Monitoring for the Month of April 2025 have been provided in the following tables:

Ambient Air Quality Monitoring Results												AAQ-1- (PC-2#AAQMS-2)	
Date of Sampling	PM 10 (µg/m ³)	PM 2.5 (µg/m ³)	NH3 (µg/m ³)	O3 (µg/m ³)	Lead (µg/m ³)	SO2 (µg/m ³)	NO2 (µg/m ³)	CO (µg/m ³)	Benzene (µg/m ³)	Benzo (a) Pyrene (ng/m ³)	Arsenic (As) (ng/m ³)	Nickel (Ni) (ng/m ³)	
07/04/2025	90.5	51.9	9.8	18.1	ND	10.5	8.1	1.1	2.6	ND	ND	ND	
09/04/2025	82.1	48.6	6.4	19.7	ND	8.3	10.8	0.8	2.1	ND	ND	ND	
11/04/2025	78.4	40.1	10.1	22.6	ND	11.8	7.1	1.6	1.9	ND	ND	ND	
15/04/2025	89.6	42.2	9.4	18.1	ND	9.2	12.0	1.2	1.1	ND	ND	ND	
16/04/2025	97.8	53.0	11.5	20.0	ND	12.5	8.7	0.8	2.5	ND	ND	ND	
21/04/2025	80.0	39.7	13.1	21.6	ND	6.4	10.5	1.0	2.0	ND	ND	ND	
23/04/2025	92.4	49.1	10.6	23.4	ND	8.8	13.1	2.3	1.2	ND	ND	ND	
28/04/2025	86.1	42.7	7.1	19.7	ND	10.1	11.6	1.3	0.8	ND	ND	ND	
30/04/2025	90.5	49.2	8.3	22.1	ND	11.8	9.2	1.1	2.3	ND	ND	ND	
Max	97.80	53.00	13.10	23.40	ND	12.50	13.10	2.30	2.60	ND	ND	ND	
Min	78.40	40.10	6.40	18.10	ND	8.30	7.10	0.80	1.90	ND	ND	ND	
Mean	88.10	46.55	9.75	20.75	ND	10.40	10.10	1.55	2.25	ND	ND	ND	
98 Percentile	90.16	51.77	10.09	22.48	ND	11.75	10.69	1.58	2.58	ND	ND	ND	
NAAQS Standards	100.0	60.0	400.0	180.0	1.0	80.0	80.0	4.0	5.0	1.0	6.0	20.0	



Krishan Rajput- Technical Manager

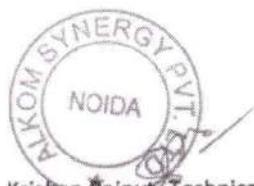
Report Prepared by ALKOM SYNERGY PRIVATE LIMITED

Environmental Monitoring Report of M/s GAIL Pata for April 2025

STACK ANALYSIS REPORT

S. No.	Name Of Stack	Date Of Sampling	Stack Height (mt)	Stack Dia (mt)	Stack Velocity (m/sec)	Stack Temp. (°C)	Ambient Temp. (°C)	Quantity of Flue Gas Discharge (Nm ³ /hr)	PM	SO ₂	NO _x	CO	O ₂ (%)
									(mg/Nm ³)				
1	LLDPE-1 (Dowtherm A)	22/04/2025	40	1.15	10.28	259	38	21540.35	4.08	16.1	43.7	21.2	5.9
2	LLDPE-1 (Dowtherm B)	22/04/2025	40	1.15	9.91	262	39	20648.62	3.61	12.6	38.2	19.5	4.3
3	GCU-1-FF-101	Under Shutdown	37.5	1.5	--	--	--	--	--	--	--	--	--
4	GCU-1-FF-102	Under Shutdown	37.5	1.5	--	--	--	--	--	--	--	--	--
5	GCU-1-FF-103	Under Shutdown	37.5	1.5	--	--	--	--	--	--	--	--	--
6	GCU-1-FF-104	Under Shutdown	37.5	1.5	--	--	--	--	--	--	--	--	--
7	GCU-1-FF-105	29/04/2025	37.5	1.5	8.90	167	35	38361.48	3.98	18.2	36.7	16.9	5.3
8	GCU-1-FF-106	29/04/2025	37.5	1.5	9.07	158	35	39910.58	4.26	17.5	42.1	18.4	6.1
9	Power Plant-1-UB-1	25/04/2025	100	3	7.11	167	38	122584.33	4.81	19.1	35.5	16.7	5.8
10	Power Plant-1-UB-2	09/04/2025	100	3	9.39	146	38	170008.09	3.76	22.8	44.2	26.5	4.2
11	Power Plant-1-UB-3	09/04/2025	100	3	12.71	125	38	242259.33	4.20	17.5	39.7	19.3	5.7
12	HRSG-1	28/04/2025	60	4	10.48	189	35	305924.89	3.98	19.2	36.9	21.7	4.4
13	HRSG-2	Under Shutdown	60	4	--	--	--	--	--	--	--	--	--
PERMISSIBLE LIMITS									10	50	350	150	-

S. No.	Name Of Stack	Date Of Sampling	Stack Height (mt)	Stack Dia (mt)	Stack Velocity (m/sec)	Stack Temp. (°C)	Ambient Temp. (°C)	Quantity of Flue Gas Discharge (Nm ³ /hr)	PM	SO ₂	NO _x	CO	O ₂ (%)
									(mg/Nm ³)				
1	GCU-2-FF-110	04/04/2025	50.73	2.3	10.51	163	36	107484.89	4.72	14.8	38.1	16.8	5.1
2	GCU-2-FF-120	04/04/2025	50.73	2.3	9.61	157	38	99652.02	3.89	18.3	34.7	18.3	6.7
3	GCU-2-FF-130	04/04/2025	50.73	2.3	10.68	159	38	110234.79	4.73	14.9	41.5	17.1	4.2
4	Power Plant-2-UB-1	03/04/2025	30.0	3.0	5.65	90	36	118075.52	3.11	17.6	40.9	29.7	5.7
5	Power Plant-2-UB-2	03/04/2025	30.0	3.0	5.11	70	38	113017.27	2.84	15.1	38.1	25.4	5.1
PERMISSIBLE LIMITS									5	50	250	100	-



Krishan Rajput Technical Manager

Environmental Monitoring Report of M/s GAIL Pata for May 2025

AMBIENT AIR QUALITY MONITORING & ANALYSIS RESULTS

The Ambient Air Quality has been monitored at 2 locations. Results of Ambient Air Quality Monitoring for the Month of May-2025 have been provided in the following tables:-

Ambient Air Quality Monitoring Results												AAQ-1- (PC-2#AAQMS-1)	
Date of Sampling	PM 10 ($\mu\text{g}/\text{m}^3$)	PM 2.5 ($\mu\text{g}/\text{m}^3$)	NH3 ($\mu\text{g}/\text{m}^3$)	O3 ($\mu\text{g}/\text{m}^3$)	Lead ($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NO2 ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)	Benzen e ($\mu\text{g}/\text{m}^3$)	Benzo (a) Pyrene (ng/m^3)	Arsen ic (As) (ng/m^3)	Nickel (Ni) (ng/m^3)	
05/05/2025	88.5	49.1	7.5	16.1	ND	9.6	7.2	1.0	2.0	ND	ND	ND	
07/05/2025	92.1	55.7	11.1	22.4	ND	10.9	12.5	1.8	2.9	ND	ND	ND	
13/05/2025	90.7	47.2	9.5	24.9	ND	8.1	10.7	1.2	1.5	ND	ND	ND	
15/05/2025	86.3	45.9	7.2	19.7	ND	6.6	8.2	0.9	1.0	ND	ND	ND	
20/05/2025	90.5	52.0	9.9	17.3	ND	13.1	10.9	1.3	2.8	ND	ND	ND	
22/05/2025	86.7	43.7	6.4	18.1	ND	7.5	8.1	1.0	1.4	ND	ND	ND	
26/05/2025	90.0	51.9	12.1	20.6	ND	9.3	12.7	1.2	2.0	ND	ND	ND	
28/05/2025	93.6	55.0	10.5	17.8	ND	12.1	10.9	1.9	2.8	ND	ND	ND	
30/05/2025	89.0	47.2	7.1	19.4	ND	8.6	6.4	1.5	1.7	ND	ND	ND	
Max	93.60	55.70	12.10	24.90	ND	13.10	12.70	1.90	2.90	ND	ND	ND	
Min	86.30	43.70	6.40	16.10	ND	6.60	6.40	0.90	1.00	ND	ND	ND	
Mean	89.71	49.74	9.03	19.59	ND	9.53	9.73	1.31	2.01	ND	ND	ND	
98 Percentile	93.36	55.59	11.94	24.50	ND	12.94	12.67	1.88	2.88	ND	ND	ND	
NAAQS Standards	100.0	60.0	400.0	180.0	1.0	80.0	80.0	4.0	5.0	1.0	6.0	20.0	


Krishan Rajput- Technical Manager



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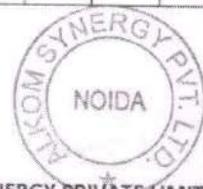
Environmental Monitoring Report of M/s GAIL Pata for May 2025

STACK EMISSION ANALYSIS REPORT

S. No.	Name Of Stack	Date Of Sampling	Stack Height (mt)	Stack Dia (mt)	Stack Velocity (m/sec)	Stack Temp. (°C)	Ambient Temp. (°C)	Quantity of Flue Gas Discharge (Nm ³ /hr)	PM	SO ₂	NO _x	CO	O ₂ (%)
									(mg/Nm ³)				
1	LLDPE-1 (Dowtherm A)	21/05/2025	40	1.15	9.08	265	44	18913.72	3.87	19.5	40.2	18.6	6.2
2	LLDPE-1 (Dowtherm B)	21/05/2025	40	1.15	9.65	257	44	20296.57	4.15	22.1	36.4	22.9	5.5
3	GCU-1-FF-101	07/05/2025	37.5	1.5	7.77	154	32	34510.49	4.10	16.4	40.6	20.9	3.6
4	GCU-1-FF-102	07/05/2025	37.5	1.5	8.11	147	32	36620.95	3.56	18.9	34.1	18.6	4.4
5	GCU-1-FF-103	Under Shutdown	37.5	1.5	--	--	--	--	--	--	--	--	--
6	GCU-1-FF-104	07/05/2025	37.5	1.5	8.01	158	32	35246.28	2.89	21.5	36.5	21.3	5.1
7	GCU-1-FF-105	07/05/2025	37.5	1.5	9.5	164	33	41228.75	3.96	17.2	25.9	17.1	7.5
8	GCU-1-FF-106	07/05/2025	37.5	1.5	9.34	185	44	38675.81	4.10	23.0	43.5	22.4	6.9
9	Power Plant-1-UB-1	06/05/2025	100	3	7.62	173	34	129609.89	4.80	22.6	31.2	18.5	6.2
10	Power Plant-1-UB-2	06/05/2025	100	3	10.13	154	35	179969.78	4.52	25.6	46.1	22.1	5.7
11	Power Plant-1-UB-3	06/05/2025	100	3	9.80	145	36	177855.71	3.84	19.1	36.4	17.2	4.4
12	HRS-1	31/05/2025	60	4	8.76	182	40	146053.09	4.29	22.5	39.1	23.4	5.7
13	HRS-2	Under Shutdown	60	4	--	--	--	--	--	--	--	--	--
PERMISSIBLE LIMITS									10	50	350	150	-

S. No.	Name Of Stack	Date Of Sampling	Stack Height (mt)	Stack Dia (mt)	Stack Velocity (m/sec)	Stack Temp. (°C)	Ambient Temp. (°C)	Quantity of Flue Gas Discharge (Nm ³ /hr)	PM	SO ₂	NO _x	CO	O ₂ (%)
									(mg/Nm ³)				
1	GCU-2-FF-110	19/05/2025	50.73	2.3	8.36	172	38	83767.87	3.81	16.5	40.5	19.1	6.4
2	GCU-2-FF-120	19/05/2025	50.73	2.3	8.48	164	38	86525.80	4.56	21.1	42.8	22.5	7.1
3	GCU-2-FF-130	19/05/2025	50.73	2.3	8.79	168	38	88875.38	3.85	17.6	35.4	19.9	5.5
4	Power Plant-2-UB-1	13/05/2025	30.0	3.0	6.0	121	39	115524.22	4.18	19.4	45.1	25.5	4.9
5	Power Plant-2-UB-2	13/05/2025	30.0	3.0	7.30	124	39	139492.35	3.62	22.9	52.9	23.2	6.4
PERMISSIBLE LIMITS									5	50	250	100	-

Krishan Rajput - Technical Manager



Report Prepared by ALKOM SYNERGY PRIVATE LIMITED

Environmental Monitoring Report of M/s GAIL Pata for June 2025

AMBIENT AIR QUALITY MONITORING & ANALYSIS RESULTS

The Ambient Air Quality has been monitored at 2 locations. Results of Ambient Air Quality Monitoring for the Month of June-2025 have been provided in the following tables:-

Ambient Air Quality Monitoring Results												AAQ-1- (PC-1#AAQMS-3)	
Date of Sampling	PM 10 ($\mu\text{g}/\text{m}^3$)	PM 2.5 ($\mu\text{g}/\text{m}^3$)	NH3 ($\mu\text{g}/\text{m}^3$)	O3 ($\mu\text{g}/\text{m}^3$)	Lead ($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NO2 ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)	Benzen e ($\mu\text{g}/\text{m}^3$)	Benzo (a) Pyrene (ng/m^3)	Arsen ic {As} (ng/m^3)	Nickel (Ni) (ng/m^3)	
03/06/2025	91.5	53.2	5.1	12.8	ND	6.2	8.9	1.6	1.9	ND	ND	ND	
05/06/2025	86.1	48.8	8.9	16.1	ND	5.5	15.1	1.9	2.2	ND	ND	ND	
09/06/2025	83.9	45.6	6.4	19.6	ND	6.3	9.3	1.5	2.0	ND	ND	ND	
12/06/2025	95.7	55.9	12.3	15.1	ND	12.9	12.6	1.3	1.8	ND	ND	ND	
16/06/2025	89.2	50.7	8.1	20.7	ND	7.1	14.4	1.0	2.1	ND	ND	ND	
19/06/2025	91.4	48.1	5.9	16.1	ND	10.3	16.9	1.6	2.3	ND	ND	ND	
23/06/2025	85.1	43.8	7.3	19.7	ND	6.8	8.2	1.8	2.9	ND	ND	ND	
25/06/2025	87.9	46.1	9.7	21.9	ND	5.6	9.8	1.2	2.5	ND	ND	ND	
30/06/2025	96.4	52.7	11.1	17.7	ND	14.2	16.5	1.5	2.2	ND	ND	ND	
Max	96.40	55.90	12.30	21.90	ND	14.20	16.90	1.90	2.90	ND	ND	ND	
Min	83.90	43.80	5.10	12.80	ND	5.50	8.20	1.00	1.80	ND	ND	ND	
Mean	89.69	49.85	8.70	17.35	ND	8.32	12.55	1.45	2.35	ND	ND	ND	
98 Percentile	96.29	55.47	12.11	21.71	ND	13.99	16.84	1.88	2.84	ND	ND	ND	
NAAQS Standards	100.0	60.0	400.0	180.0	1.0	80.0	80.0	4.0	5.0	1.0	6.0	20.0	



Krishan Rajput- Technical Manager

Report Prepared by ALKOM SYNERGY PRIVATE LIMITED

Environmental Monitoring Report of M/s GAIL Pata for June 2025

STACK EMISSION ANALYSIS REPORT

S. No.	Name Of Stack	Date Of Sampling	Stack Height (mt)	Stack Dia (mt)	Stack Velocity (m/sec)	Stack Temp. (°C)	Ambient Temp. (°C)	Quantity of Flue Gas Discharge (Nm ³ /hr)	PM	SO ₂	NO _x	CO	O ₂ (%)
									(mg/Nm ³)				
1	LLDPE-1 (Dowtherm A)	24/06/2025	40	1.15	9.98	258	39	20951.12	4.28	23.2	45.6	21.9	5.9
2	LLDPE-1 (Dowtherm B)	24/06/2025	40	1.15	9.48	263	39	19715.82	3.64	18.9	32.1	18.5	6.1
3	GCU-1-FF-101	25/06/2025	37.5	1.5	8.26	161	38	36095.11	3.98	20.1	43.9	22.1	4.6
4	GCU-1-FF-102	Under Shutdown	37.5	1.5	--	--	--	--	--	--	--	--	--
5	GCU-1-FF-103	25/06/2025	37.5	1.5	8.47	153	39	37707.86	4.56	22.9	45.4	23.7	5.2
6	GCU-1-FF-104	25/06/2025	37.5	1.5	8.59	165	39	37194.36	3.28	18.2	41.0	18.2	4.6
7	GCU-1-FF-105	25/06/2025	37.5	1.5	9.18	159	38	10301.11	4.16	24.8	36.4	20.9	6.0
8	GCU-1-FF-106	25/06/2025	37.5	1.5	9.05	173	39	38483.25	3.72	19.6	39.1	18.6	5.1
9	Power Plant-1-UB-1	Under Shutdown	100	3	--	--	--	--	--	--	--	--	--
10	Power Plant-1-UB-2	12/06/2025	100	3	9.01	145	45	163518.37	3.98	22.1	38.6	24.9	6.8
11	Power Plant-1-UB-3	12/06/2025	100	3	9.13	124	45	174460.98	4.52	26.5	48.1	20.6	7.5
12	HRSG-1	26/06/2025	60	4	8.90	176	36	150370.17	3.68	20.4	42.0	21.9	4.6
13	HRSG-2	Under Shutdown	60	4	--	--	--	--	--	--	--	--	--
PERMISSIBLE LIMITS									10	50	350	150	-

S. No.	Name Of Stack	Date Of Sampling	Stack Height (mt)	Stack Dia (mt)	Stack Velocity (m/sec)	Stack Temp. (°C)	Ambient Temp. (°C)	Quantity of Flue Gas Discharge (Nm ³ /hr)	PM	SO ₂	NO _x	CO	O ₂ (%)
									(mg/Nm ³)				
1	GCU-2-FF-110	10/06/2025	50.73	2.3	8.79	186	42	85390.07	4.20	21.6	44.1	23.5	5.5
2	GCU-2-FF-120	10/06/2025	50.73	2.3	8.96	173	44	89578.61	3.58	18.3	39.6	18.9	6.3
3	GCU-2-FF-130	10/06/2025	50.73	2.3	9.39	179	44	92631.43	3.96	16.1	41.4	22.1	5.9
4	Power Plant-2-UB-1	06/06/2025	30.0	3.0	6.58	118	42	127663.62	3.72	22.5	38.2	20.9	6.7
5	Power Plant-2-UB-2	06/06/2025	30.0	3.0	7.86	120	43	151721.81	4.28	26.1	46.5	24.1	5.2
PERMISSIBLE LIMITS									5	50	250	100	-



Krishan Rajput - Technical Manager

Environmental Monitoring Report of M/s GAIL Pata for July - 2025

AMBIENT AIR QUALITY MONITORING & ANALYSIS RESULTS

The Ambient Air Quality has been monitored at 2 locations. Results of Ambient Air Quality Monitoring for the Month of July-2025 have been provided in the following tables:-

Ambient Air Quality Monitoring Results								AAQ-1- (PC-1#AAQMS-2)				
Date of Sampling	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	NH ₃ ($\mu\text{g}/\text{m}^3$)	O ₃ ($\mu\text{g}/\text{m}^3$)	Lead ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)	Benzen e ($\mu\text{g}/\text{m}^3$)	Benzo (a) Pyrene (ng/m^3)	Arsen ic (As) (ng/m^3)	Nickel (Ni) (ng/m^3)
02/07/2025	93.8	55.3	13.9	18.4	ND	7.4	10.2	1.1	2.8	ND	ND	ND
08/07/2025	90.1	52.7	6.5	15.2	ND	6.0	13.5	1.0	1.6	ND	ND	ND
10/07/2025	88.0	50.3	5.7	14.6	ND	5.2	8.8	1.2	2.0	ND	ND	ND
15/07/2025	92.6	51.9	8.3	11.1	ND	9.6	14.1	1.7	1.9	ND	ND	ND
17/07/2025	86.1	48.5	5.1	13.4	ND	7.3	10.8	0.9	2.4	ND	ND	ND
22/07/2025	94.5	52.7	9.1	18.4	ND	12.7	9.5	1.4	1.7	ND	ND	ND
24/07/2025	88.1	46.4	8.2	14.2	ND	7.2	10.7	1.1	2.9	ND	ND	ND
28/07/2025	84.6	43.1	7.0	12.4	ND	5.8	8.1	1.8	1.0	ND	ND	ND
30/07/2025	91.9	49.5	13.8	18.1	ND	15.6	9.8	1.3	2.7	ND	ND	ND
Max	94.50	55.30	13.90	18.40	ND	15.60	14.10	1.80	2.90	ND	ND	ND
Min	84.60	43.10	5.10	11.10	ND	5.20	8.10	0.90	1.00	ND	ND	ND
Mean	89.97	49.20	9.50	14.75	ND	8.53	11.10	1.35	1.95	ND	ND	ND
98 Percentile	94.39	54.88	13.88	18.40	ND	15.14	14.00	1.78	2.88	ND	ND	ND
NAAQS Standards	100.0	60.0	400.0	180.0	1.0	80.0	80.0	4.0	5.0	1.0	6.0	20.0



Krishan Rajput- Technical Manager

Report Prepared by ALKOM SYNERGY PRIVATE LIMITED

Environmental Monitoring Report of M/s GAIL Pata for July - 2025

STACK EMISSION ANALYSIS REPORT

S. No.	Name Of Stack	Date Of Sampling	Stack Height (mt)	Stack Dia (mt)	Stack Velocity (m/sec)	Stack Temp. (°C)	Ambient Temp. (°C)	Quantity of Flue Gas Discharge (Nm ³ /hr)	PM	SO ₂	NO _x	CO	O ₂ (%)
									(mg/Nm ³)				
1	LLDPE-1 (Dowtherm A)	22/07/2025	40	1.15	11.15	262	45	23232.30	3.12	21.5	48.2	24.9	4.3
2	LLDPE-1 (Dowtherm B)	22/07/2025	40	1.15	11.06	259	45	23174.73	4.39	24.1	41.7	21.3	5.5
3	GCU-1-FF-101	08/07/2025	37.5	1.5	7.98	154	34	35443.21	3.86	18.7	39.1	18.8	6.0
4	GCU-1-FF-102	Under Shutdown	37.5	1.5	--	--	--	--	--	--	--	--	--
5	GCU-1-FF-103	08/07/2025	37.5	1.5	8.32	159	34	36525.62	3.50	26.2	42.6	25.3	6.7
6	GCU-1-FF-104	08/07/2025	37.5	1.5	8.24	162	34	35924.93	3.62	22.3	38.8	22.1	5.4
7	GCU-1-FF-105	08/07/2025	37.5	1.5	8.96	164	35	38885.22	3.88	19.1	41.2	19.5	4.9
8	GCU-1-FF-106	08/07/2025	37.5	1.5	8.96	167	34	38620.10	4.16	25.4	43.9	24.1	5.7
9	Power Plant-1-UB-1	30/07/2025	100	3	9.31	163	32	161987.39	4.44	20.7	40.5	21.7	5.3
10	Power Plant-1-UB-2	21/07/2025	100	3	8.93	152	36	159397.15	4.76	18.5	36.9	18.2	6.0
11	Power Plant-1-UB-3	21/07/2025	100	3	9.01	137	36	166708.97	3.50	22.8	45.2	23.7	5.9
12	HRSG-1	23/07/2025	60	4	9.20	169	35	280712.05	4.24	19.0	41.7	19.2	4.7
13	HRSG-2	30/07/2025	60	4	8.34	172	32	252756.04	4.10	23.2	43.9	21.5	6.1
PERMISSIBLE LIMITS									10	50	350	150	.

S. No.	Name Of Stack	Date Of Sampling	Stack Height (mt)	Stack Dia (mt)	Stack Velocity (m/sec)	Stack Temp. (°C)	Ambient Temp. (°C)	Quantity of Flue Gas Discharge (Nm ³ /hr)	PM	SO ₂	NO _x	CO	O ₂ (%)
									(mg/Nm ³)				
1	GCU-2-FF-110	10/07/2025	50.73	2.3	8.42	179	33	83062.47	3.04	25.8	42.2	25.7	6.6
2	GCU-2-FF-120	10/07/2025	50.73	2.3	8.78	177	33	86998.79	4.28	20.5	37.9	21.5	5.2
3	GCU-2-FF-130	10/07/2025	50.73	2.3	9.15	173	33	91478.16	3.32	18.9	44.5	19.2	6.0
4	Power Plant-2-UB-1	02/07/2025	30.0	3.0	6.96	122	32	133668.84	3.96	21.2	41.8	23.6	4.9
5	Power Plant-2-UB-2	02/07/2025	30.0	3.0	7.62	126	32	144877.22	4.20	24.5	39.1	21.3	5.7
PERMISSIBLE LIMITS									5	50	250	100	.



Krishan Rajput- Technical Manager

Report Prepared by ALKOM SYNERGY PRIVATE LIMITED

Environmental Monitoring Report of M/s GAIL Pata for August-2025

AMBIENT AIR QUALITY MONITORING & ANALYSIS RESULTS

The Ambient Air Quality has been monitored at 2 locations. Results of Ambient Air Quality Monitoring for the Month of August- 2025 have been provided in the following tables:-

Ambient Air Quality Monitoring Results											AAQ-1 (PC-1, AAQMS-1)	
Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Lead (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)	Benzene (µg/m ³)	Benzo (a) Pyrene (ng/m ³)	Arsenic (As) (ng/m ³)	Nickel (Ni) (ng/m ³)
04/08/2025	88.3	47.7	5.8	10.1	ND	4.6	10.8	1.2	2.3	ND	ND	ND
07/08/2025	84.8	45.1	7.1	13.5	ND	6.1	8.6	1.5	1.7	ND	ND	ND
11/08/2025	92.0	51.9	9.5	15.7	ND	10.6	14.2	1.1	2.4	ND	ND	ND
13/08/2025	90.9	48.5	6.2	18.3	ND	8.1	10.5	1.6	1.3	ND	ND	ND
18/08/2025	88.5	46.1	10.6	14.6	ND	7.8	12.6	1.9	2.0	ND	ND	ND
21/08/2025	89.7	48.3	9.1	16.4	ND	8.5	15.1	1.2	2.6	ND	ND	ND
25/08/2025	91.5	50.0	12.7	14.8	ND	7.3	13.7	1.0	2.8	ND	ND	ND
28/08/2025	88.8	47.5	8.3	17.1	ND	8.0	10.9	1.3	1.9	ND	ND	ND
Max	92.00	51.90	12.70	18.30	ND	10.60	15.10	1.90	2.80	ND	ND	ND
Min	84.80	45.10	5.80	10.10	ND	4.60	8.60	1.00	1.30	ND	ND	ND
Mean	89.31	48.50	9.25	14.20	ND	7.63	11.85	1.45	2.05	ND	ND	ND
98 Percentile	91.93	51.63	12.41	18.13	ND	10.31	14.97	1.86	2.77	ND	ND	ND
NAAQS Standards	100.0	60.0	400.0	180.0	1.0	80.0	80.0	4.0	5.0	1.0	6.0	20.0


Krishan Rajput- Technical Manager



Report Prepared by ALKOM SYNERGY PRIVATE LIMITED

Environmental Monitoring Report of M/s GAIL Pata for August-2025

STACK EMISSION ANALYSIS REPORT

S. No.	Name Of Stack	Date Of Sampling	Stack Height (m)	Stack Dia (m)	Stack Velocity (m/sec)	Stack Temp (°C)	Ambient Temp (°C)	Quantity of Flue Gas Discharge (Nm ³ /hr)	PM	SO ₂	NO _x	CO	O ₂
									[mg/Nm ³]				
1	LLDPE-1 (Dowtherm A)	20/08/2025	40	1.15	10.72	256	38	22589.69	3.94	25.8	42.5	26.8	5.9
2	LLDPE-1 (Dowtherm B)	20/08/2025	40	1.15	10.62	253	38	22506.60	4.10	22.1	34.0	21.4	4.2
3	GCU-1-FF-101	Under Shutdown	37.5	1.5	--	--	--	--	--	--	--	--	--
4	GCU-1-FF-102	11/08/2025	37.5	1.5	8.41	157	33	21802.12	3.45	18.4	39.7	24.1	5.7
5	GCU-1-FF-103	Under Shutdown	37.5	1.5	--	--	--	--	--	--	--	--	--
6	GCU-1-FF-104	11/08/2025	37.5	1.5	8.61	169	33	21714.61	4.25	23.9	38.3	22.7	5.9
7	GCU-1-FF-105	11/08/2025	37.5	1.5	8.74	162	33	22397.18	3.60	19.8	41.5	19.3	4.6
8	GCU-1-FF-106	11/08/2025	37.5	1.5	9.23	172	33	23121.33	4.18	21.5	43.0	21.5	5.5
9	Power Plant-1-UB-1	Under Sbutdown	100	3	--	--	--	--	--	--	--	--	--
10	Power Plant-1-UB-2	Under Shutdown	100	3	--	--	--	--	--	--	--	--	--
11	Power Plant-1-UB-3	25/08/2025	100	3	9.52	158	36	167562.84	3.86	19.2	38.5	24.5	4.3
12	HRS6-1	19/08/2025	60	4	8.95	163	36	276842.04	4.15	23.8	40.3	19.7	6.6
13	HRS6-2	19/08/2025	60	4	8.78	167	36	269114.65	3.43	17.5	43.7	22.1	5.4
PERMISSIBLE LIMITS									10	50	350	150	-

S. No.	Name Of Stack	Date Of Sampling	Stack Height (m)	Stack Dia (m)	Stack Velocity (m/sec)	Stack Temp (°C)	Ambient Temp (°C)	Quantity of Flue Gas Discharge (Nm ³ /hr)	PM	SO ₂	NO _x	CO	O ₂
									[mg/Nm ³]				
1	GCU-2-FF-110	06/08/2025	50.73	2.3	8.92	169	31	89985.76	3.92	24.1	42.4	21.1	5.1
2	GCU-2-FF-120	06/08/2025	50.73	2.3	8.53	171	31	85663.78	4.16	26.8	40.1	23.4	7.0
3	GCU-2-FF-130	06/08/2025	50.73	2.3	9.36	167	31	94853.72	4.50	20.4	43.7	25.9	6.2
4	Power Plant-2-UB-1	25/08/2025	30.0	3.0	7.79	133	33	145555.78	4.15	21.9	37.0	22.4	5.8
5	Power Plant-2-UB-2	25/08/2025	30.0	3.0	8.04	139	33	148039.24	3.89	18.5	35.2	19.5	4.6
PERMISSIBLE LIMITS									5	50	250	100	-


Krishan Rajput- Technical Manager

Report Prepared by ALKOM SYNERGY PRIVATE LIMITED



Environmental Monitoring Report of M/s GAIL Pata for September-2025

AMBIENT AIR QUALITY MONITORING & ANALYSIS RESULTS

The Ambient Air Quality has been monitored at 2 locations. Results of Ambient Air Quality Monitoring for the Month of September- 2025 have been provided in the following tables:-

Ambient Air Quality Monitoring Results										AAQ-1 (PC-2, AAQMS-2)		
Date of Sampling	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	NH ₃ ($\mu\text{g}/\text{m}^3$)	O ₃ ($\mu\text{g}/\text{m}^3$)	Lead ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)	Benzene ($\mu\text{g}/\text{m}^3$)	Benzo (a) Pyrene (ng/m^3)	Arsenic (As) (ng/m^3)	Nickel (Ni) (ng/m^3)
03/09/2025	92.5	50.2	8.2	14.1	ND	9.5	12.8	1.8	2.9	ND	ND	ND
08/09/2025	88.1	46.3	6.0	10.6	ND	7.3	9.1	1.0	1.5	ND	ND	ND
11/09/2025	91.6	49.8	7.1	13.8	ND	9.9	13.7	1.3	2.6	ND	ND	ND
15/09/2025	89.0	47.2	5.9	11.6	ND	7.6	8.8	1.5	1.8	ND	ND	ND
18/09/2025	90.7	48.5	9.7	13.1	ND	8.1	13.4	1.7	2.2	ND	ND	ND
22/09/2025	92.5	51.0	11.5	15.8	ND	12.4	16.9	1.1	2.7	ND	ND	ND
26/09/2025	91.1	49.3	10.7	12.2	ND	10.8	9.4	1.3	2.3	ND	ND	ND
29/09/2025	89.6	46.1	9.0	11.5	ND	9.2	11.5	1.0	2.0	ND	ND	ND
Max	92.50	51.00	11.50	15.80	ND	12.40	16.90	1.80	2.90	ND	ND	ND
Min	88.10	46.10	5.90	10.60	ND	7.30	8.80	1.00	1.50	ND	ND	ND
Mean	90.64	48.55	8.70	13.15	ND	9.35	12.85	1.40	2.20	ND	ND	ND
98 Percentile	92.50	50.89	11.39	15.56	ND	12.18	16.45	1.79	2.87	ND	ND	ND
NAAQS Standards	100.0	60.0	100.0	180.0	1.0	80.0	80.0	4.0	5.0	1.0	6.0	20.0


 Krishan Rajput - Technical Manager



Environmental Monitoring Report of M/s GAIL Pata for September-2025

STACK EMISSION ANALYSIS REPORT

S. No.	Name Of Stack	Date Of Sampling	Stack Height (m)	Stack Dia (m)	Stack Velocity (m/sec)	Stack Temp. (°C)	Ambient Temp. (°C)	Quantity of Flue Gas Discharge (Nm ³ /hr)	PM	SO ₂	NO _x	CO	O ₂ (%)
									(mg/Nm ³)				
1	LLDPE-1 (Dowtherm A)	18/09/2025	40	1.15	11.98	252	32	25437.17	3.50	24.2	44.8	25.1	6.5
2	LLDPE-1 (Dowtherm B)	18/09/2025	40	1.15	11.92	259	32	24976.74	4.55	26.9	36.1	23.4	5.1
3	GCU-1-FF-101	15/09/2025	37.5	1.5	8.51	159	39	37359.74	3.62	23.1	40.5	24.9	4.9
4	GCU-1-FF-102	15/09/2025	37.5	1.5	8.82	161	39	38542.23	3.90	21.8	41.3	22.9	6.3
5	GCU-1-FF-103	15/09/2025	37.5	1.5	8.85	164	39	38407.84	4.16	19.1	38.5	20.3	5.7
6	GCU-1-FF-104	15/09/2025	37.5	1.5	9.08	167	37	39137.33	3.85	24.8	36.1	20.7	5.5
7	GCU-1-FF-105	15/09/2025	37.5	1.5	8.71	169	37	37372.65	4.16	18.2	43.8	22.3	5.0
8	GCU-1-FF-106	Under Shutdown	37.5	1.5	--	--	--	--	--	--	--	--	--
9	Power Plant-1-UB-1	Under Shutdown	100	3	--	--	--	--	--	--	--	--	--
10	Power Plant-1-UB-2	Under Shutdown	100	3	--	--	--	--	--	--	--	--	--
11	Power Plant-1-UB-3	24/09/2025	100	3	9.21	163	42	160247.47	4.18	21.5	41.8	22.5	5.2
12	HRSG-1	12/09/2025	60	4	8.70	168	34	266057.90	3.86	25.3	37.2	21.8	4.8
13	HRSG-2	12/09/2025	60	4	8.96	175	34	269727.67	4.28	21.5	39.7	24.1	5.1
PERMISSIBLE LIMITS									10	50	350	150	-

S. No.	Name Of Stack	Date Of Sampling	Stack Height (m)	Stack Dia (m)	Stack Velocity (m/sec)	Stack Temp. (°C)	Ambient Temp. (°C)	Quantity of Flue Gas Discharge (Nm ³ /hr)	PM	SO ₂	NO _x	CO	O ₂ (%)
									(mg/Nm ³)				
1	GCU-2-FF-110	09/09/2025	50.73	2.3	8.76	173	33	87579.09	4.10	22.5	39.8	22.3	6.8
2	GCU-2-FF-120	09/09/2025	50.73	2.3	8.92	169	33	89985.76	3.86	25.1	42.4	21.9	5.6
3	GCU-2-FF-130	09/09/2025	50.73	2.3	9.13	173	33	91278.21	4.32	23.4	41.6	24.2	6.1
4	Power Plant-2-UB-1	08/09/2025	30.0	3.0	8.47	144	37	154086.78	3.98	20.2	39.8	24.7	5.4
5	Power Plant-2-UB-2	08/09/2025	30.0	3.0	8.33	141	37	152638.01	4.06	19.8	36.5	20.1	5.0
PERMISSIBLE LIMITS									5	50	250	100	-


Krishan Rajput - Technical Manager



Anexure-2

**Environmental Monitoring Report of M/s GAIL Pata for April 2025
WWTP ANALYSIS RESULT - 1st FORTNIGHT (15/04/2025)**

S.No.	Parameters	Unit	Permissible Standards	Test Method	WWTP (Inlet)	WWTP (Outlet)
1	pH	-	6.5-8.5	APHA:- 25404500-H+B 24th Edition	11.54	6.45
2	Temperature (°C)	Shall not exceed 5° C above the receiving water temp.		APHA 2550-B 24th Edition:	26.8	26.5
3	Colour	Hazen	--	APHA 2120B 24th Edition:	7.7	BDL (<5.0)
4	Odour	-	--	IS 3025 PART 5	Objectionable	Agreeable
5	Turbidity	NTU	1.0	APHA 2130B(Nephelometric)24th Edition:	28.2	0.5
6	Total Dissolved Solid	mg/l	2100	APHA:- -C 24th Edition	1120	740
7	Chloride	mg/l	--	APHA:-4500 Cl-B 24th Edition	223.5	154.3
8	Sulphides as (S)	mg/l	2.0	IS 3025 Part 29	BDL (<0.05)	BDL (<0.05)
9	Total Suspended Solid	mg/l	100	APHA 2540D (Gravimetric)23rd edition	85.0	32.0
10	Calcium Hardness as Ca ₂ CO ₃	mg/l	--	APHA 3500 Ca - B(EDTA TITR.)24th Edition	76.0	64.0
11	Magnesium Hardness Ca ₂ CO ₃	mg/l	--	APHA 3500 Mg-B 23RD EDITION	42.1	26.2
12	Phenolic Compound as C ₆ H ₅ OH	mg/l	1.0	APHA 5530- C(Chloroform Extraction method	BDL (<0.001)	BDL (<0.001)
13	Sulphate	mg/l	--	APHA 4500-SO4-E(Turbidimetric method)24th Edition	82.2	44.5
14	Nitrate	mg/l	--	APHA 4500 NO3 - C(Sepctrop) 24th Edition	14.3	9.1
15	Total Phosphorous as P	mg/l	5.0	APHA 4500.D(Spectrop.)23rd Edition	2.3	BDL
16	Cyanide (as CN)	mg/l	--	APHA 4500-CN. C & E (Colorimetric) 24th Edition	BDL (<0.02)	BDL (<0.02)
17	Total Residual Chlorine	mg/l	--	APHA 4500 Cl-B 24th Edition	BDL (<0.1)	BDL (<0.1)
18	Oil & Grease content	mg/l	10	APHA 5520B (Partition Gravimetric)24th Edition	12.9	BDL (<2.0)
19	Fluoride (as F)	mg/l	--	APHA 4500- F.D(Spadns method)24th Edition	0.76	0.41
20	Hexavalent Chromium as (Cr ⁶⁺)	mg/l	0.1	APHA -3500-B 24th Edition	BDL (<0.01)	BDL (<0.01)
21	Total Chromium (as Cr)	mg/l	2.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
22	Cadmium	mg/l	2.0	APHA 3111 -B,24th Edition	BDL (<0.01)	BDL (<0.01)
23	Copper	mg/l	3.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
24	Iron	mg/l	2.0	APHA 3111-B,24th Edition	0.048	0.027
25	Zinc	mg/l	5.0	APHA 3111-B,24th Edition	BDL (<0.05)	BDL (<0.05)
26	Lead	mg/l	0.1	APHA 3111-B,24th Edition	BDL (<0.001)	BDL (<0.001)
27	Nickel	mg/l	3.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
28	Manganese	mg/l	2.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
29	Total Nitrogen	mg/l	--	APHA 4500-NH3C(Titrimetric)24th Edition	16.2	10.5
30	Chemical Oxygen Demand	mg/l	250	APHA 5220-B (OpenReflux)24th Edition	275.6	47.2
31	Biochemical Oxygen Demand (3 Days)	mg/l	30	IS 3025 (P-44)	59.7	14.3
32	Dissolved Oxygen	mg/l	--	APHA -4500 OB(Idometric Method)24th Edition	6.9	7.2
33	Sodium Adsorption Ratio	me/l	--	IS 11624	4.6	1.9
34	Total Heavy Metals	mg/l	1.0	APHA 3111-B,24th Edition	0.310	0.285
35	Total Coliform	MPN/100ML	<1000	IS 1622	>1600	BDL <100

WWTP ANALYSIS RESULT- 2nd FORTNIGHT (26/04/2025)



Environmental Monitoring Report of M/s GAIL Pata for April 2025

S.No.	Parameters	Unit	Permissible Standards	Test Method	WWTP (Inlet)	WWTP (Outlet)
1	pH	-	6.5-8.5	APHA:- 25404500-H+B 24th Edition	10.98	6.18
2	Temperature (°C)	Shall not exceed 5°C above the receiving water temp.		APHA 2550-B 24th Edition:	27.1	27.1
3	Colour	Hazen	--	APHA 2120B 24th Edition:	8.3	BDL (<5.0)
4	Odour	-	--	IS 3025 PART 5	Objectionable	Agreeable
5	Turbidity	NTU	1.0	APHA 2130B(Nephelometric)24th Edition:	20.3	0.9
6	Total Dissolved Solid	mg/l	2100	APHA:- -C 24th Edition	1083	652
7	Chloride	mg/l	--	APHA:-4500 Cl-B 24th Edition	211.1	133.28
8	Sulphides as (S)	mg/l	2.0	IS 3025 Part 29	BDL (<0.05)	BDL (<0.05)
9	Total Suspended Solid	mg/l	100	APHA 2540D (Gravimetric)23rd edition	67.2	21.7
10	Calcium Hardness as Ca ₂ CO ₃	mg/l	--	APHA 3500 Ca - B(EDTA TITR.)24th Edition	69.1	56.1
11	Magnesium Hardness Ca ₂ CO ₃	mg/l	--	APHA 3500 Mg-B 23RD EDITION	41.9	25.8
12	Phenolic Compound as C ₆ H ₅ OH	mg/l	1.0	APHA 5530- C(Chloroform Extraction method	BDL (<0.001)	BDL(<0.001)
13	Sulphate	mg/l	--	APHA 4500-SO4-E(Turbidimetric method)24th Edition	75.0	36.59
14	Nitrate	mg/l	--	APHA 4500 NO3 - C(Sepectrop) ,24th Edition	11.9	7.3
15	Total Phosphorous as P	mg/l	5.0	APHA 4500.D(Spectrop.)23rd Edition	1.9	BDL
16	Cyanide (as CN)	mg/l	--	APHA 4500-CN. C & E (Colorimetric) 24th Edition	BDL (<0.02)	BDL (<0.02)
17	Total Residual Chlorine	mg/l	--	APHA 4500 Cl-B 24th Edition	BDL (<0.1)	BDL (<0.1)
18	Oil & Grease content	mg/l	10	APHA 5520B (Partition Gravimetric)24th Edition	11.6	BDL (<2.0)
19	Fluoride (as F)	mg/l	--	APHA 4500- F.D(Spadns method)24th Edition	0.61	0.32
20	Hexavalent Chromium as (Cr ⁶⁺)	mg/l	0.1	APHA -3500-B 24th Edition	BDL (<0.01)	BDL (<0.01)
21	Total Chromium (as Cr)	mg/l	2.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
22	Cadmium	mg/l	2.0	APHA 3111 -B,24th Edition	BDL (<0.01)	BDL (<0.01)
23	Copper	mg/l	3.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
24	Iron	mg/l	2.0	APHA 3111-B,24th Edition	0.039	0.022
25	Zinc	mg/l	5.0	APHA 3111-B,24th Edition	BDL (<0.05)	BDL (<0.05)
26	Lead	mg/l	0.1	APHA 3111-B,24th Edition	BDL (<0.001)	BDL (<0.001)
27	Nickel	mg/l	3.0	APHA 3111-B,24th Edition	BDL(<0.01)	BDL (<0.01)
28	Manganese	mg/l	2.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
29	Total Nitrogen	mg/l	--	APHA 4500-NH3C(Titrimetric)24th Edition	13.4	8.5
30	Chemical Oxygen Demand	mg/l	250	APHA 5220-B (OpenReflux)24th Edition	265.0	45.7
31	Biochemical Oxygen Demand (3 Days)	mg/l	30	IS 3025 (P-44)	43.6	12.7
32	Dissolved Oxygen	mg/l	--	APHA -4500 OB(Idometric Method)24th Edition	6.6	7.5
33	Sodium Adsorption Ratio	me/l	--	IS 11624	3.7	1.3
34	Total Heavy Metals	mg/l	1	APHA 3111-B,24th Edition	0.288	0.274
35	Total Coliform	MPN/100ML	<1000	IS 1622	>1600	BDL (<100)

STP ANALYSIS RESULT- 1st FORTNIGHT (15/04/2025)



Krishan Rajput - Technical Manager

Environmental Monitoring Report of M/s GAIL Pata for May 2025

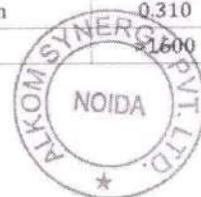
WWTP ANALYSIS RESULT - 1st FORTNIGHT (14/05/2025)

S.No.	Parameters	Unit	Permissible Standards	Test Method	WWTP (Inlet)	WWTP (Outlet)
1	pH	-	6.5-8.5	APHA:- 25404500-H+B 24th Edition	10.39	7.18
2	Temperature (°C)	Shall not exceed 5° C above the receiving water temp.		APHA 2550-B 24th Edition:	26.8	26.5
3	Colour	Hazen	--	APHA 2120B 24th Edition:	5.8	BDL (<5.0)
4	Odour	-	--	IS 3025 PART 5	Objectionable	Agreeable
5	Turbidity	NTU	1.0	APHA 2130B(Nephelometric)24th Edition:	25.9	0.7
6	Total Dissolved Solid	mg/l	2100	APHA:- -C 24th Edition	1089	708
7	Chloride	mg/l	--	APHA:-4500 Cl-B 24th Edition	212.7	139.2
8	Sulphides as (S)	mg/l	2.0	IS 3025 Part 29	BDL (<0.05)	BDL (<0.05)
9	Total Suspended Solid	mg/l	100	APHA 2540D (Gravimetric)23rd edition	72.23	27.11
10	Calcium Hardness as Ca ₂ CO ₃	mg/l	--	APHA 3500 Ca - B(EDTA TITR.)24th Edition	68.19	43.46
11	Magnesium Hardness Ca ₂ CO ₃	mg/l	--	APHA 3500 Mg-B 23RD EDITION	36.28	24.1
12	Phenolic Compound as C ₆ H ₅ OH	mg/l	1.0	APHA 5530- C(Chloroform Extraction method	BDL (<0.001)	BDL (<0.001)
13	Sulphate	mg/l	--	APHA 4500-SO ₄ -E(Turbidimetric method)24th Edition	65.2	32.1
14	Nitrate	mg/l	--	APHA 4500 NO ₃ - C(Sepectrop) 24th Edition	13.1	7.7
15	Total Phosphorous as P	mg/l	5.0	APHA 4500.D(Spectrop.)23rd Edition	2.1	BDL
16	Cyanide (as CN)	mg/l	--	APHA 4500-CN. C & E (Colorimetric) 24th Edition	BDL (<0.02)	BDL (<0.02)
17	Total Residual Chlorine	mg/l	--	APHA 4500 Cl-B 24th Edition	BDL (<0.1)	BDL (<0.1)
18	Oil & Grease content	mg/l	10	APHA 5520B (Partition Gravimetric)24th Edition	13.1	BDL (<2.0)
19	Fluoride (as F)	mg/l	--	APHA 4500- F.D(Spadns method)24th Edition	0.73	0.38
20	Hexavalent Chromium as (Cr ⁶⁺)	mg/l	0.1	APHA -3500-B 24th Edition	BDL (<0.01)	BDL (<0.01)
21	Total Chromium (as Cr)	mg/l	2.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
22	Cadmium	mg/l	2.0	APHA 3111 -B,24th Edition	BDL (<0.01)	BDL (<0.01)
23	Copper	mg/l	3.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
24	Iron	mg/l	2.0	APHA 3111-B,24th Edition	0.045	0.024
25	Zinc	mg/l	5.0	APHA 3111-B,24th Edition	BDL (<0.05)	BDL (<0.05)
26	Lead	mg/l	0.1	APHA 3111-B,24th Edition	BDL (<0.001)	BDL (<0.001)
27	Nickel	mg/l	3.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
28	Manganese	mg/l	2.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
29	Total Nitrogen	mg/l	--	APHA 4500-NH3C(Titrimetric)24th Edition	15.1	9.8
30	Chemical Oxygen Demand	mg/l	250	APHA 5220-B (OpenReflux)24th Edition	247.59	104.22
31	Biochemical Oxygen Demand (3 Days)	mg/l	30	IS 3025 (P-44)	47.6	10.7
32	Dissolved Oxygen	mg/l	--	APHA -4500 OB(Idometric Method)24th Edition	6.7	7.1
33	Sodium Adsorption Ratio	me/l	--	IS 11624	4.1	2.6
34	Total Heavy Metals	mg/l	1.0	APHA 3111-B,24th Edition	0.310	0.285
35	Total Coliform	MPN/100ML	<1000	IS 1622	21600	BDL <100

Krishan Rajput- Technical Manager

Report Prepared by ALKOM SYNERGY PRIVATE LIMITED

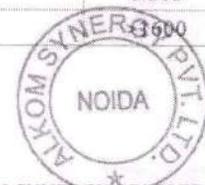
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Environmental Monitoring Report of M/s GAIL Pata for May 2025
WWTP ANALYSIS RESULT- 2nd FORTNIGHT (24/05/2025)

S.No.	Parameters	Unit	Permissible Standards	Test Method	WWTP (Inlet)	WWTP (Outlet)
1	pH	-	6.5-8.5	APHA: 25404500-H+B 24th Edition	10.41	6.29
2	Temperature (°C)	Shall not exceed 5° C above the receiving water temp.		APHA 2550-B 24th Edition:	27.5	26.4
3	Colour	Hazen	--	APHA 2120B 24th Edition:	5.2	BDL (<5.0)
4	Odour	-	--	IS 3025 PART 5	Objectionable	Agreeable
5	Turbidity	NTU	1.0	APHA 2130B(Nephelometric)24th Edition:	22.0	0.7
6	Total Dissolved Solid	mg/l	2100	APHA: -C 24th Edition	1008	686
7	Chloride	mg/l	--	APHA:-4500 Cl-B 24th Edition	197.5	124.71
8	Sulphides as (S)	mg/l	2.0	IS 3025 Part 29	BDL (<0.05)	BDL (<0.05)
9	Total Suspended Solid	mg/l	100	APHA 2540D (Gravimetric)23rd edition	61.4	20.3
10	Calcium Hardness as Ca ₂ CO ₃	mg/l	--	APHA 3500 Ca - B(EDTA TITR.)24th Edition	64.2	49.5
11	Magnesium Hardness Ca ₂ CO ₃	mg/l	--	APHA 3500 Mg-B 23RD EDITION	38.03	23.61
12	Phenolic Compound as C ₆ H ₅ OH	mg/l	1.0	APHA 5530- C(Chloroform Extraction method	BDL (<0.001)	BDL(<0.001)
13	Sulphate	mg/l	--	APHA 4500-SO ₄ -E(Turbidimetric method)24th Edition	73.55	35.18
14	Nitrate	mg/l	--	APHA 4500 NO ₃ - C(Sepectrop) 24th Edition	11.4	7.1
15	Total Phosphorous as P	mg/l	5.0	APHA 4500.D(Spectrop.)23rd Edition	1.5	BDL
16	Cyanide (as CN)	mg/l	--	APHA 4500-CN. C & E (Colorimetric) 24th Edition	BDL (<0.02)	BDL (<0.02)
17	Total Residual Chlorine	mg/l	--	APHA 4500 Cl-B 24th Edition	BDL (<0.1)	BDL (<0.1)
18	Oil & Grease content	mg/l	10	APHA 5520B (Partition Gravimetric)24th Edition	10.6	BDL (<2.0)
19	Fluoride (as F)	mg/l	--	APHA 4500- F.D(Spadns method)24th Edition	0.58	0.33
20	Hexavalent Chromium as (Cr ⁶⁺)	mg/l	0.1	APHA -3500-B 24th Edition	BDL (<0.01)	BDL (<0.01)
21	Total Chromium (as Cr)	mg/l	2.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
22	Cadmium	mg/l	2.0	APHA 3111 -B,24th Edition	BDL (<0.01)	BDL (<0.01)
23	Copper	mg/l	3.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
24	Iron	mg/l	2.0	APHA 3111-B,24th Edition	0.037	0.025
25	Zinc	mg/l	5.0	APHA 3111-B,24th Edition	BDL (<0.05)	BDL (<0.05)
26	Lead	mg/l	0.1	APHA 3111-B,24th Edition	BDL (<0.001)	BDL (<0.001)
27	Nickel	mg/l	3.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
28	Manganese	mg/l	2.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
29	Total Nitrogen	mg/l	--	APHA 4500-NH ₃ C(Titrimetric)24th Edition	12.6	7.9
30	Chemical Oxygen Demand	mg/l	250	APHA 5220-B (OpenReflux)24th Edition	251.0	90.6
31	Biochemical Oxygen Demand (3 Days)	mg/l	30	IS 3025 (P-44)	40.8	10.1
32	Dissolved Oxygen	mg/l	--	APHA -4500 OB(Idometric Method)24th Edition	6.5	7.3
33	Sodium Adsorption Ratio	me/l	--	IS 11624	3.3	1.4
34	Total Heavy Metals	mg/l	1	APHA 3111-B,24th Edition	0.283	0.271
35	Total Coliform	MPN/100ML	<1000	IS 1622	3600	BDL (<100)

Krishan Rajput  Technical Manager



Report Prepared by ALKOM SYNERGY PRIVATE LIMITED

Environmental Monitoring Report of M/s GAIL Pata for June 2025

WWTP ANALYSIS RESULT -1st FORTNIGHT (14/06/2025)

S.No.	Parameters	Unit	Permissible Standards	Test Method	WWTP (Inlet)	WWTP (Outlet)
1	pH	-	6.5-8.5	APHA:- 25404500-H+B 24th Edition	10.44	7.24
2	Temperature (°C)	Shall not exceed 5°C above the receiving water temp.		APHA 2550-B 24th Edition:	26.9	26.7
3	Colour	Hazen	--	APHA 2120B 24th Edition:	5.6	BDL (<5.0)
4	Odour	-	--	IS 3025 PART 5	Objectionable	Agreeable
5	Turbidity	NTU	1.0	APHA 2130B(Nephelometric)24th Edition:	25.5	0.8
6	Total Dissolved Solid	mg/l	2100	APHA:- -C 24th Edition	1086	702
7	Chloride	mg/l	--	APHA:-4500 Cl-B 24th Edition	211.9	138.6
8	Sulphides as (S)	mg/l	2.0	IS 3025 Part 29	BDL (<0.05)	BDL (<0.05)
9	Total Suspended Solid	mg/l	100	APHA 2540D (Gravimetric)23rd edition	72.81	28.21
10	Calcium Hardness as Ca ₂ CO ₃	mg/l	--	APHA 3500 Ca - B(EDTA TITR.)24th Edition	68.75	44.6
11	Magnesium Hardness Ca ₂ CO ₃	mg/l	--	APHA 3500 Mg-B 23RD EDITION	36.35	24.21
12	Phenolic Compound as C ₆ H ₅ OH	mg/l	1.0	APHA 5530- C(Chloroform Extraction method	BDL (<0.001)	BDL (<0.001)
13	Sulphate	mg/l	--	APHA 4500-SO ₄ -E(Turbidimetric method)24th Edition	65.8	32.3
14	Nitrate	mg/l	--	APHA 4500 NO ₃ - C(Sepectrop) ,24th Edition	13.5	7.8
15	Total Phosphorous as P	mg/l	5.0	APHA 4500.D(Spectrop.)23rd Edition	2.2	BDL
16	Cyanide (as CN)	mg/l	--	APHA 4500-CN. C & E (Colorimetric) 24th Edition	BDL (<0.02)	BDL (<0.02)
17	Total Residual Chlorine	mg/l	--	APHA 4500 Cl-B 24th Edition	BDL (<0.1)	BDL (<0.1)
18	Oil & Grease content	mg/l	10	APHA 5520B (Partition Gravimetric)24th Edition	12.8	BDL (<2.0)
19	Fluoride (as F)	mg/l	--	APHA 4500- F.D(Spadns method)24th Edition	0.71	0.34
20	Hexavalent Chromium as (Cr ⁶⁺)	mg/l	0.1	APHA -3500-B 24th Edition	BDL (<0.01)	BDL (<0.01)
21	Total Chromium (as Cr)	mg/l	2.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
22	Cadmium	mg/l	2.0	APHA 3111 -B,24th Edition	BDL (<0.01)	BDL (<0.01)
23	Copper	mg/l	3.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
24	Iron	mg/l	2.0	APHA 3111-B,24th Edition	0.041	0.022
25	Zinc	mg/l	5.0	APHA 3111-B,24th Edition	BDL (<0.05)	BDL (<0.05)
26	Lead	mg/l	0.1	APHA 3111-B,24th Edition	BDL (<0.001)	BDL (<0.001)
27	Nickel	mg/l	3.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
28	Manganese	mg/l	2.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
29	Total Nitrogen	mg/l	--	APHA 4500-NH3C(Titrimetric)24th Edition	15.3	9.9
30	Chemical Oxygen Demand	mg/l	250	APHA 5220-B (Open Reflux)24th Edition	246.2	103.01
31	Biochemical Oxygen Demand (3 Days)	mg/l	30	IS 3025 (P-44)	45.9	10.2
32	Dissolved Oxygen	mg/l	--	APHA -4500 OB(Idometric Method)24th Edition	6.6	7.3
33	Sodium Adsorption Ratio	me/l	--	IS 11624	3.9	2.1
34	Total Heavy Metals	mg/l	1.0	APHA 3111-B,24th Edition	0.311	0.282
35	Total Coliform - l	MPN/100ML	<1000	IS 1622	>1600	BDL <100

Krishan Rajput - Technical Manager

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Report Prepared by ALKOM SYNERGY PRIVATE LIMITED

Environmental Monitoring Report of M/s GAIL Pata for June 2025

WWTP ANALYSIS RESULT- 2nd FORTNIGHT (27/06/2025)

S.No.	Parameters	Unit	Permissible Standards	Test Method	WWTP (Inlet)	WWTP (Outlet)
1	pH	-	6.5-8.5	APHA:- 25404500-H+B 24th Edition	10.38	6.48
2	Temperature (°C)	Shall not exceed 5°C above the receiving water temp.		APHA 2550-B 24th Edition:	26.8	26.7
3	Colour	Hazen	--	APHA 2120B 24th Edition:	5.0	BDL (<5.0)
4	Odour	-	--	IS 3025 PART 5	Objectionable	Agreeable
5	Turbidity	NTU	1.0	APHA 2130B(Nephelometric)24th Edition:	21.9	0.6
6	Total Dissolved Solid	mg/l	2100	APHA:- -C 24th Edition	1001	688
7	Chloride	mg/l	--	APHA:- 4500 Cl-B 24th Edition	198.0	123.9
8	Sulphides as (S)	mg/l	2.0	IS 3025 Part 29	BDL (<0.05)	BDL (<0.05)
9	Total Suspended Solid	mg/l	100	APHA 2540D (Gravimetric)23rd edition	62.0	21.1
10	Calcium Hardness as Ca ₂ CO ₃	mg/l	--	APHA 3500 Ca - B(EDTA TITR.)24th Edition	64.5	50.01
11	Magnesium Hardness Ca ₂ CO ₃	mg/l	--	APHA 3500 Mg-B 23RD EDITION	39.68	24.2
12	Phenolic Compound as C ₆ H ₅ OH	mg/l	1.0	APHA 5530- C(Chloroform Extraction method	BDL (<0.001)	BDL(<0.001)
13	Sulphate	mg/l	--	APHA 4500-SO ₄ -E(Turbidimetric method)24th Edition	73.89	35.06
14	Nitrate	mg/l	--	APHA 4500 NO ₃ - C(Sepectrop). 24th Edition	11.6	7.5
15	Total Phosphorous as P	mg/l	5.0	APHA 4500.D(Spectrop.)23rd Edition	1.6	BDL
16	Cyanide (as CN)	mg/l	--	APHA 4500-CN. C & E (Colorimetric) 24th Edition	BDL (<0.02)	BDL (<0.02)
17	Total Residual Chlorine	mg/l	--	APHA 4500 Cl-B 24th Edition	BDL (<0.1)	BDL (<0.1)
18	Oil & Grease content	mg/l	10	APHA 5520B (Partition Gravimetric)24th Edition	10.2	BDL (<2.0)
19	Fluoride (as F)	mg/l	--	APHA 4500- F.D(Spadns method)24th Edition	0.55	0.30
20	Hexavalent Chromium as (Cr ⁶⁺)	mg/l	0.1	APHA -3500-B 24th Edition	BDL (<0.01)	BDL (<0.01)
21	Total Chromium (as Cr)	mg/l	2.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
22	Cadmium	mg/l	2.0	APHA 3111 -B,24th Edition	BDL (<0.01)	BDL (<0.01)
23	Copper	mg/l	3.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
24	Iron	mg/l	2.0	APHA 3111-B,24th Edition	0.039	0.021
25	Zinc	mg/l	5.0	APHA 3111-B,24th Edition	BDL (<0.05)	BDL (<0.05)
26	Lead	mg/l	0.1	APHA 3111-B,24th Edition	BDL (<0.001)	BDL (<0.001)
27	Nickel	mg/l	3.0	APHA 3111-B,24th Edition	BDL(<0.01)	BDL (<0.01)
28	Manganese	mg/l	2.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
29	Total Nitrogen	mg/l	--	APHA 4500-NH ₃ C(Titrimetric)24th Edition	12.8	8.01
30	Chemical Oxygen Demand	mg/l	250	APHA 5220-B (Open Reflux)24th Edition	251.8	91.6
31	Biochemical Oxygen Demand (3 Days)	mg/l	30	IS 3025 (P-44)	39.8	10.5
32	Dissolved Oxygen	mg/l	--	APHA -4500 OB(Idometric Method)24th Edition	6.6	7.5
33	Sodium Adsorption Ratio	me/l	--	IS 11624	3.5	1.3
34	Total Heavy Metals	mg/l	1	APHA 3111-B,24th Edition	0.286	0.272
35	Total Coliform	MPN/100ML	<1000	IS 1622	>1600	BDL (<100)

Krishan Rajput- Technical Manager

Report Prepared by ALKOM SYNERGY PRIVATE LIMITED

Environmental Monitoring Report of M/s GAIL Pata for July - 2025

WWTP ANALYSIS RESULT -1st FORTNIGHT (12/07/2025)

S.No.	Parameters	Unit	Permissible Standards	Test Method	WWTP (Inlet)	WWTP (Outlet)
1	pH	-	6.5-8.5	APHA:- 25404500-H+B 24th Edition	9.83	7.36
2	Temperature (°C)	Shall not exceed 5°C above the receiving water temp.		APHA 2550-B 24th Edition:	26.4	26.1
3	Colour	Hazen	--	APHA 2120B 24th Edition:	6.2	BDL (<5.0)
4	Odour	-	--	IS 3025 PART 5	Objectionable	Agreeable
5	Turbidity	NTU	1.0	APHA 2130B(Nephelometric)24th Edition:	26.2	0.5
6	Total Dissolved Solid	mg/l	2100	APHA:- -C 24th Edition	987	656
7	Chloride	mg/l	--	APHA:-4500 Cl-B 24th Edition	219.51	124.73
8	Sulphides as (S)	mg/l	2.0	IS 3025 Part 29	BDL (<0.05)	BDL (<0.05)
9	Total Suspended Solid	mg/l	100	APHA 2540D (Gravimetric)23rd edition	65.19	25.33
10	Calcium Hardness as Ca ₂ CO ₃	mg/l	--	APHA 3500 Ca - B(EDTA TITR.)24th Edition	73.65	34.14
11	Magnesium Hardness Ca ₂ CO ₃	mg/l	--	APHA 3500 Mg-B 23RD EDITION	41.39	19.48
12	Phenolic Compound as C ₆ H ₅ OH	mg/l	1.0	APHA 5530- C(Chloroform Extraction method	BDL (<0.001)	BDL (<0.001)
13	Sulphate	mg/l	--	APHA 4500-SO ₄ -E(Turbidimetric method)24th Edition	72.55	28.7
14	Nitrate	mg/l	--	APHA 4500 NO ₃ - C(Sepectrop)24th Edition	14.06	5.97
15	Total Phosphorous as P	mg/l	5.0	APHA 4500.D(Spectrop.)23rd Edition	2.41	BDL
16	Cyanide (as CN)	mg/l	--	APHA 4500-CN. C & E (Colorimetric) 24th Edition	BDL (<0.02)	BDL (<0.02)
17	Total Residual Chlorine	mg/l	--	APHA 4500 Cl-B 24th Edition	BDL (<0.1)	BDL (<0.1)
18	Oil & Grease content	mg/l	10	APHA 5520B (Partition Gravimetric)24th Edition	12.34	BDL (<2.0)
19	Fluoride (as F)	mg/l	--	APHA 4500- F.D(Spadns method)24th Edition	0.63	0.26
20	Hexavalent Chromium as (Cr ⁶⁺)	mg/l	0.1	APHA -3500-B 24th Edition	BDL (<0.01)	BDL (<0.01)
21	Total Chromium (as Cr)	mg/l	2.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
22	Cadmium	mg/l	2.0	APHA 3111 -B,24th Edition	BDL (<0.01)	BDL (<0.01)
23	Copper	mg/l	3.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
24	Iron	mg/l	2.0	APHA 3111-B,24th Edition	0.035	0.026
25	Zinc	mg/l	5.0	APHA 3111-B,24th Edition	BDL (<0.05)	BDL (<0.05)
26	Lead	mg/l	0.1	APHA 3111-B,24th Edition	BDL (<0.001)	BDL (<0.001)
27	Nickel	mg/l	3.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
28	Manganese	mg/l	2.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
29	Total Nitrogen	mg/l	--	APHA 4500-NH3C(Titrimetric)24th Edition	18.92	8.37
30	Chemical Oxygen Demand	mg/l	250	APHA 5220-B (Open Reflux)24th Edition	238.6	90.5
31	Biochemical Oxygen Demand (3 Days)	mg/l	30	IS 3025 (P-44)	28.7	9.6
32	Dissolved Oxygen	mg/l	--	APHA -4500 OB(Idometric Method)24th Edition	6.2	6.9
33	Sodium Adsorption Ratio	me/l	--	IS 11624	4.8	2.6
34	Total Heavy Metals	mg/l	1.0	APHA 3111-B,24th Edition	0.321	0.241
35	Total Coliform	MPN/100ML	<1000	IS 1622	>1600	BDL (<100)

Krishan Rajput- Technical Manager

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Report Prepared by ALKOM SYNERGY PRIVATE LIMITED

Environmental Monitoring Report of M/s GAIL Pata for July - 2025

WWTP ANALYSIS RESULT- 2nd FORTNIGHT (25/07/2025)

S.No.	Parameters	Unit	Permissible Standards	Test Method	WWTP (Inlet)	WWTP (Outlet)
1	pH	-	6.5-8.5	APHA:- 25404500-H+B 24th Edition	9.81	7.36
2	Temperature (°C)	Shall not exceed 5°C above the receiving water temp.		APHA 2550-B 24th Edition:	26.4	26.3
3	Colour	Hazen	--	APHA 2120B 24th Edition:	5.9	BDL (<5.0)
4	Odour	-	--	IS 3025 PART 5	Objectionable	Agreeable
5	Turbidity	NTU	1.0	APHA 2130B(Nephelometric)24th Edition:	25.9	0.5
6	Total Dissolved Solid	mg/l	2100	APHA:- -C 24th Edition	996	644
7	Chloride	mg/l	--	APHA:-4500 Cl-B 24th Edition	217.52	122.33
8	Sulphides as [S]	mg/l	2.0	IS 3025 Part 29	BDL (<0.05)	BDL (<0.05)
9	Total Suspended Solid	mg/l	100	APHA 2540D (Gravimetric)23rd edition	64.76	24.91
10	Calcium Hardness as Ca ₂ CO ₃	mg/l	--	APHA 3500 Ca - B(EDTA TITR.)24th Edition	72.58	33.67
11	Magnesium Hardness as Ca ₂ CO ₃	mg/l	--	APHA 3500 Mg-B 23RD EDITION	41.15	18.88
12	Phenolic Compound as C ₆ H ₅ OH	mg/l	1.0	APHA 5530- C(Chloroform Extraction method	BDL (<0.001)	BDL (<0.001)
13	Sulphate	mg/l	--	APHA 4500-SO4-E(Turbidimetric method)24th Edition	73.21	29.06
14	Nitrate	mg/l	--	APHA 4500 NO3 - C(Sepectrop) 24th Edition	14.57	6.23
15	Total Phosphorous as P	mg/l	5.0	APHA 4500.D(Spectrop.)23rd Edition	2.68	BDL
16	Cyanide (as CN)	mg/l	--	APHA 4500-CN. C & E (Colorimetric) 24th Edition	BDL (<0.02)	BDL (<0.02)
17	Total Residual Chlorine	mg/l	--	APHA 4500 Cl-B 24th Edition	BDL (<0.1)	BDL (<0.1)
18	Oil & Grease content	mg/l	10	APHA 5520B (Partition Gravimetric)24th Edition	11.74	BDL (<2.0)
19	Fluoride (as F)	mg/l	--	APHA 4500- F.D(Spadns method)24th Edition	0.59	0.29
20	Hexavalent Chromium as (Cr ⁶⁺)	mg/l	0.1	APHA -3500-B 24th Edition	BDL (<0.01)	BDL (<0.01)
21	Total Chromium (as Cr)	mg/l	2.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
22	Cadmium	mg/l	2.0	APHA 3111 -B,24th Edition	BDL (<0.01)	BDL (<0.01)
23	Copper	mg/l	3.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
24	Iron	mg/l	2.0	APHA 3111-B,24th Edition	0.037	0.031
25	Zinc	mg/l	5.0	APHA 3111-B,24th Edition	BDL (<0.05)	BDL (<0.05)
26	Lead	mg/l	0.1	APHA 3111-B,24th Edition	BDL (<0.001)	BDL (<0.001)
27	Nickel	mg/l	3.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
28	Manganese	mg/l	2.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
29	Total Nitrogen	mg/l	--	APHA 4500-NH3C(Titrimetric)24th Edition	18.47	7.62
30	Chemical Oxygen Demand	mg/l	250	APHA 5220-B (Open Reflux)24th Edition	241.6	85.2
31	Biochemical Oxygen Demand (3 Days)	mg/l	30	IS 3025 (P-44)	27.2	9.2
32	Dissolved Oxygen	mg/l	--	APHA -4500 OB(Idometric Method)24th Edition	6.5	7.0
33	Sodium Adsorption Ratio	me/l	--	IS 11624	4.5	2.5
34	Total Heavy Metals	mg/l	1	APHA 3111-B,24th Edition	0.319	0.242
35	Total Coliform	MPN/100ML	<1000	IS 1622	>1600	BDL (<100)

Krishan Rajput - Technical Manager

Report Prepared by ALKOM SYNERGY PRIVATE LIMITED

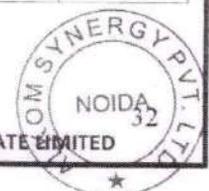
Environmental Monitoring Report of M/s GAIL Pata for August-2025

WWTP ANALYSIS RESULT -1st FORTNIGHT (14/08/2025)

S. No.	Parameters	Unit	Standard Limits	Test Method	WWTP (Inlet)	WWTP (Outlet)
1	pH	-	6.5-8.5	APHA:- 25404500-H+B 24th Edition	10.8	7.3
2	Temperature (°C)	Shall not exceed 5° C above the receiving water temp.		APHA 2550-B 24th Edition:	27.2	27.0
3	Colour	Hazen	--	APHA 2120B 24th Edition:	5.0	BDL (<5.0)
4	Odour	-	--	IS 3025 PART 5	Objectionable	Agreeable
5	Turbidity	NTU	1.0	APHA 2130B (Nephelometric) 24th Edition	24.1	0.68
6	Total Dissolved Solid	mg/l	2100	APHA:- -C 24th Edition	1038	678
7	Chloride	mg/l	--	APHA:-4500 Cl-B 24th Edition	231.5	124.1
8	Sulphides as (S)	mg/l	2.0	IS 3025 Part 29	BDL (<0.05)	BDL (<0.05)
9	Total Suspended Solid	mg/l	100	APHA 2540D (Gravimetric) 23rd edition	74.50	30.72
10	Calcium Hardness as Ca ₂ CO ₃	mg/l	--	APHA 3500 Ca - B (BDTA TITR.) 24th Edition	65.18	42.5
11	Magnesium Hardness Ca ₂ CO ₃	mg/l	--	APHA 3500 Mg-B 23RD EDITION	39.42	21.76
12	Phenolic Compound as C ₆ H ₅ OH	mg/l	1.0	APHA 5530- C (Chloroform Extraction method	BDL (<0.001)	BDL (<0.001)
13	Sulphate	mg/l	--	APHA 4500-SO4-E (Turbidimetric method) 24th Edition	62.8	30.0
14	Nitrate	mg/l	--	APHA 4500 NO3 - C (Spectrop.) 24th Edition	11.5	6.7
15	Total Phosphorous as P	mg/l	5.0	APHA 4500.D (Spectrop.)23rd Edition	2.8	BDL
16	Cyanide (as CN)	mg/l	--	APHA 4500-CN. C & E (Colorimetric) 24th Edition	BDL (<0.02)	BDL (<0.02)
17	Total Residual Chlorine	mg/l	--	APHA 4500 Cl-B 24th Edition	BDL (<0.1)	BDL (<0.1)
18	Oil & Grease content	mg/l	10	APHA 5520B (Partition Gravimetric) 24th Edition	14.6	BDL (<2.0)
19	Fluoride (as F)	mg/l	--	APHA 4500- F.D (Spadns method)24th Edition	0.79	0.31
20	Hexavalent Chromium as (Cr ⁶⁺)	mg/l	0.1	APHA -3500-B 24th Edition	BDL (<0.01)	BDL (<0.01)
21	Total Chromium (as Cr)	mg/l	2.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
22	Cadmium	mg/l	2.0	APHA 3111 -B,24th Edition	BDL (<0.01)	BDL (<0.01)
23	Copper	mg/l	3.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
24	Iron	mg/l	2.0	APHA 3111-B,24th Edition	0.038	0.020
25	Zinc	mg/l	5.0	APHA 3111-B,24th Edition	BDL (<0.05)	BDL (<0.05)
26	Lead	mg/l	0.1	APHA 3111-B,24th Edition	BDL (<0.001)	BDL (<0.001)
27	Nickel	mg/l	3.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
28	Manganese	mg/l	2.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
29	Total Nitrogen	mg/l	--	APHA 4500-NH3C (Titrimetric) 24th Edition	17.2	8.5
30	Chemical Oxygen Demand	mg/l	250	APHA 5220-B (Open Reflux) 24th Edition	251.8	107.3
31	Biochemical Oxygen Demand (3 Days)	mg/l	30	IS 3025 (P-44)	47.1	12.4
32	Dissolved Oxygen	mg/l	--	APHA -4500 OB (Iodometric Method) c 24th Edition	5.4	6.9
33	Sodium Adsorption Ratio	me/l	--	IS 11624	4.7	2.5
34	Total Heavy Metals	mg/l	1.0	APHA 3111-B, c24th Edition	0.329	0.297
35	Total Coliform	MPN/100ML	<1000	APHA method, 24th Edition	>1600	BDL <100


Krishan Rajput- Technical Manager

Report Prepared by ALKOM SYNERGY PRIVATE LIMITED



Environmental Monitoring Report of M/s GAIL Pata for August-2025

WWTP ANALYSIS RESULT- 2nd FORTNIGHT (27/08/2025)

S. No.	Parameters	Unit	Standard Limits	Test Method	WWTP (Inlet)	WWTP (Outlet)
1	pH	-	6.5-8.5	APHA:- 25404500-H+B 24th Edition	11.04	6.98
2	Temperature (°C)	Shall not exceed 5°C above the receiving water temp.		APHA 2550-B 24th Edition:	APHA 2550-B 24th Edition:	27.2
3	Colour	Hazen	--	APHA 2120B 24th Edition:	4.8	BDL (<5.0)
4	Odour	-	--	IS 3025 PART 5	Objectionable	Agreeable
5	Turbidity	NTU	1.0	APHA 2130B (Nephelometric) 24th Edition:	23.0	0.81
6	Total Dissolved Solid	mg/l	2100	APHA:- C 24th Edition	1025	671
7	Chloride	mg/l	--	APHA:-4500 Cl-B 24th Edition	191.9	108.5
8	Sulphides as (S)	mg/l	2.0	IS 3025 Part 29	BDL (<0.05)	BDL (<0.05)
9	Total Suspended Solid	mg/l	100	APHA 2540D (Gravimetric) 23rd edition	64.1	23.7
10	Calcium Hardness as Ca ₂ CO ₃	mg/l	--	APHA 3500 Ca - B(EDTA TITR.) 24th Edition	67.3	53.5
11	Magnesium Hardness Ca ₂ CO ₃	mg/l	--	APHA 3500 Mg-B 23RD EDITION	42.86	25.8
12	Phenolic Compound as C ₆ H ₅ OH	mg/l	1.0	APHA 5530- C (Chloroform Extraction method	BDL (<0.001)	BDL(<0.001)
13	Sulphate	mg/l	--	APHA 4500-SO4-E (Turbidimetric method) 24th Edition	74.28	36.13
14	Nitrate	mg/l	--	APHA 4500 NO ₃ - C (Spectrop.) 24th Edition	12.1	8.4
15	Total Phosphorous as P	mg/l	5.0	APHA 4500.D (Spectrop.)23rd Edition	2.0	BDL
16	Cyanide (as CN)	mg/l	--	APHA 4500-CN. C & E (Colorimetric) 24th Edition	BDL (<0.02)	BDL (<0.02)
17	Total Residual Chlorine	mg/l	--	APHA 4500 Cl-B 24th Edition	BDL (<0.1)	BDL (<0.1)
18	Oil & Grease content	mg/l	10	APHA 5520B (Partition Gravimetric)24th Edition	12.1	BDL (<2.0)
19	Fluoride (as F)	mg/l	--	APHA 4500- F.D (Spadns method) 24th Edition	0.63	0.37
20	Hexavalent Chromium as (Cr ⁶⁺)	mg/l	0.1	APHA -3500-B 24th Edition	BDL (<0.01)	BDL (<0.01)
21	Total Chromium (as Cr)	mg/l	2.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
22	Cadmium	mg/l	2.0	APHA 3111 -B,24th Edition	BDL (<0.01)	BDL (<0.01)
23	Copper	mg/l	3.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
24	Iron	mg/l	2.0	APHA 3111-B,24th Edition	0.048	0.026
25	Zinc	mg/l	5.0	APHA 3111-B,24th Edition	BDL (<0.05)	BDL (<0.05)
26	Lead	mg/l	0.1	APHA 3111-B,24th Edition	BDL (<0.001)	BDL (<0.001)
27	Nickel	mg/l	3.0	APHA 3111-B,24th Edition	BDL(<0.01)	BDL (<0.01)
28	Manganese	mg/l	2.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
29	Total Nitrogen	mg/l	--	APHA 4500-NH3C (Titrimetric) 24th Edition	13.4	7.82
30	Chemical Oxygen Demand	mg/l	250	APHA 5220-B (Open Reflux) 24th Edition	246.1	88.5
31	Biochemical Oxygen Demand (3 Days)	mg/l	30	IS 3025 (P-44)	42.3	11.8
32	Dissolved Oxygen	mg/l	--	APHA -4500 OB (Iodometric Method) c 24th Edition	5.1	6.7
33	Sodium Adsorption Ratio	me/l	--	IS 11624	4.0	1.5
34	Total Heavy Metals	mg/l	1	APHA 3111-B, c24th Edition	0.262	0.240
35	Total Coliform	MPN/100ML	<1000	APHA method, 24th Edition	>1600	BDL (<100)

Krishan Rajput- Technical Manager

Report Prepared by ALKOM SYNERGY PRIVATE LIMITED



Environmental Monitoring Report of M/s GAIL Pata for September-2025

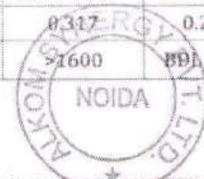
WWTP ANALYSIS RESULT- 1st FORTNIGHT (13/09/2025)

S.No.	Parameters	Unit	Standard Limits	Test Method	WWTP (Inlet)	WWTP (Outlet)
1	pH	-	6.5-8.5	APHA:- 25404500-H+B 24th Edition	10.73	7.66
2	Temperature (°C)	Shall not exceed 5° C above the receiving water temp		APHA 2550-B 24th Edition:	26.4	27.7
3	Colour	Hazen	--	APHA 2120B 24th Edition:	5.2	BDL (<5.0)
4	Odour	-	--	IS 3025 PART 5	Objectionable	Agreeable
5	Turbidity	NTU	1.0	APHA 2130B(Nephelometric)24th Edition	28.3	0.73
6	Total Dissolved Solid	mg/l	2100	APHA:- -C 24th Edition	986	659
7	Chloride	mg/l	--	APHA:-4500 Cl-B 24th Edition	216.3	116.58
8	Sulphides as (S)	mg/l	2.0	IS 3025 Part 29	BDL (<0.05)	BDL (<0.05)
9	Total Suspended Solid	mg/l	100	APHA 2540D (Gravimetric)23rd edition	81.2	38.5
10	Calcium Hardness as Ca ₂ CO ₃	mg/l	--	APHA 3500 Ca - B(EDTA TITR.)24th Edition	67.24	40.83
11	Magnesium Hardness Ca ₂ CO ₃	mg/l	--	APHA 3500 Mg-B 23RD EDITION	36.22	24.21
12	Phenolic Compound as C ₆ H ₅ OH	mg/l	1.0	APHA 5530- C(Chloroform Extraction method	BDL (<0.001)	BDL (<0.001)
13	Sulphate	mg/l	--	APHA 4500-SO ₄ -E(Turbidimetric method)24th Edition	53.8	26.0
14	Nitrate	mg/l	--	APHA 4500 NO ₃ - C (Spectrop.) 24th Edition	9.6	6.3
15	Total Phosphorous as P	mg/l	5.0	APHA 4500.D (Spectrop.)23rd Edition	2.5	BDL
16	Cyanide (as CN)	mg/l	--	APHA 4500-CN. C & E (Colorimetric) 24th Edition	BDL (<0.02)	BDL (<0.02)
17	Total Residual Chlorine	mg/l	--	APHA 4500 Cl-B 24th Edition	BDL (<0.1)	BDL (<0.1)
18	Oil & Grease content	mg/l	10	APHA 5520B (Partition Gravimetric)24th Edition	13.91	BDL (<2.0)
19	Fluoride (as F)	mg/l	--	APHA 4500- F.D (Spadns method)24th Edition	0.75	0.29
20	Hexavalent Chromium as (Cr ⁶⁺)	mg/l	0.1	APHA -3500-B 24th Edition	BDL (<0.01)	BDL (<0.01)
21	Total Chromium (as Cr)	mg/l	2.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
22	Cadmium	mg/l	2.0	APHA 3111 -B,24th Edition	BDL (<0.01)	BDL (<0.01)
23	Copper	mg/l	3.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
24	Iron	mg/l	2.0	APHA 3111-B,24th Edition	0.036	0.021
25	Zinc	mg/l	5.0	APHA 3111-B,24th Edition	BDL (<0.05)	BDL (<0.05)
26	Lead	mg/l	0.1	APHA 3111-B,24th Edition	BDL (<0.001)	BDL (<0.001)
27	Nickel	mg/l	3.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
28	Manganese	mg/l	2.0	APHA 3111-B,24th Edition	BDL (<0.01)	BDL (<0.01)
29	Total Nitrogen	mg/l	--	APHA 4500-NH ₃ C(Titrimetric)24th Edition	16.55	8.2
30	Chemical Oxygen Demand	mg/l	250	APHA 5220-B (Open Reflux)24th Edition	260.4	118.7
31	Biochemical Oxygen Demand(3 Days)	mg/l	30	IS 3025 (P-44)	41.18	10.55
32	Dissolved Oxygen	mg/l	--	APHA -4500 OB(Iodometric Method)c24th Edition	5.5	6.8
33	Sodium Adsorption Ratio	me/l	--	IS 11624	4.68	2.39
34	Total Heavy Metals	mg/l	1.0	APHA 3111-B, c24th Edition	0.317	0.283
35	Total Coliform	MPN/100ML	<1000	APHA method, 24th Edition	>1600	BDL <100

Krishan Rajput Technical Manager

Report Prepared by ALKOM SYNERGY PRIVATE LIMITED

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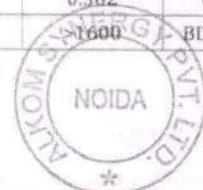


Environmental Monitoring Report of M/s GAIL Pata for September-2025

WWTP ANALYSIS RESULT- 2nd FORTNIGHT (27/09/2025)

S.No.	Parameters	Unit	Standard Limits	Test Method	WWTP (Inlet)	WWTP (Outlet)
1	pH	-	6.5-8.5	APHA:- 25404500-H+B 24th Edition	10.71	7.64
2	Temperature (°C)	Shall not exceed 5° C above the receiving water temp.		APHA 2550-B 24th Edition:	26.2	27.5
3	Colour	Hazen	--	APHA 2120B 24th Edition:	5.3	BDL (<5.0)
4	Odour	-	--	IS 3025 PART 5	Objectionable	Agreeable
5	Turbidity	NTU	1.0	APHA 2130B(Nephelometric)24th Edition:	28.6	0.75
6	Total Dissolved Solid	mg/l	2100	APHA:- -C 24th Edition	1010	672
7	Chloride	mg/l	--	APHA:-4500 Cl-B 24th Edition	213.6	108.39
8	Sulphides as (S)	mg/l	2.0	IS 3025 Part 29	BDL (<0.05)	BDL (<0.05)
9	Total Suspended Solid	mg/l	100	APHA 2540D (Gravimetric)23rd edition	78.6	39.24
10	Calcium Hardness as Ca ₂ CO ₃	mg/l	--	APHA 3500 Ca - B(EDTA TITR.)24th Edition	66.22	38.19
11	Magnesium Hardness Ca ₂ CO ₃	mg/l	--	APHA 3500 Mg-B 23RD EDITION	40.20	31.65
12	Phenolic Compound as C ₆ H ₅ OH	mg/l	1.0	APHA 5530- C(Chloroform Extraction method	BDL (<0.001)	BDL (<0.001)
13	Sulphate	mg/l	--	APHA 4500-SO4-E(Turbidimetric method)24th Edition	53.2	26.14
14	Nitrate	mg/l	--	APHA 4500 NO3 - C (Spectrop.) 24th Edition	9.46	6.24
15	Total Phosphorous as P	mg/l	5.0	APHA 4500.D (Spectrop.)23rd Edition	2.4	BDL
16	Cyanide (as CN)	mg/l	--	APHA 4500-CN. C & E (Colorimetric) 24th Edition	BDL (<0.02)	BDL (<0.02)
17	Total Residual Chlorine	mg/l	--	APHA 4500 Cl-B 24th Edition	BDL (<0.1)	BDL (<0.1)
18	Oil & Grease content	mg/l	10	APHA 5520B (Partition Gravimetric)24th Edition	12.3	BDL (<2.0)
19	Fluoride (as F)	mg/l	--	APHA 4500- F.D (Spadns method)24th Edition	0.73	0.26
20	Hexavalent Chromium as (Cr ⁶⁺)	mg/l	0.1	APHA - 3500-B 24th Edition	BDL (<0.01)	BDL (<0.01)
21	Total Chromium (as Cr)	mg/l	2.0	APHA 3111-B.24th Edition	BDL (<0.01)	BDL (<0.01)
22	Cadmium	mg/l	2.0	APHA 3111 -B.24th Edition	BDL (<0.01)	BDL (<0.01)
23	Copper	mg/l	3.0	APHA 3111-B.24th Edition	BDL (<0.01)	BDL (<0.01)
24	Iron	mg/l	2.0	APHA 3111-B.24th Edition	0.035	0.023
25	Zinc	mg/l	5.0	APHA 3111-B.24th Edition	BDL (<0.05)	BDL (<0.05)
26	Lead	mg/l	0.1	APHA 3111-B.24th Edition	BDL (<0.001)	BDL (<0.001)
27	Nickel	mg/l	3.0	APHA 3111-B.24th Edition	BDL (<0.01)	BDL (<0.01)
28	Manganese	mg/l	2.0	APHA 3111-B.24th Edition	BDL (<0.01)	BDL (<0.01)
29	Total Nitrogen	mg/l	--	APHA 4500-NH3C(Titrimetric)24th Edition	14.36	7.86
30	Chemical Oxygen Demand	mg/l	250	APHA 5220-B (Open Reflux)24th Edition	255.0	120.3
31	Biochemical Oxygen Demand(3 Days)	mg/l	30	IS 3025 (P-44)	41.0	10.2
32	Dissolved Oxygen	mg/l	--	APHA -4500 OB (Iodometric Method)c24th Edition	5.6	6.7
33	Sodium Adsorption Ratio	me/l	--	IS 11624	4.66	2.33
34	Total Heavy Metals	mg/l	1	APHA 3111-B, c24th Edition	0.302	0.277
35	Total Coliform	MPN/100ML	<1000	APHA method, 24th Edition	>1600	BDL <100


Krishan Rajput- Technical Manager





LDAR VOC MONITORING REPORT
Report for the Month of APRIL TO JUNE, 2025.
LEAK SUMMARY

Sr. No.	Unit	Equipment	Tag. No	Components	Line Size	Location	Leak Type	(ppm)	(Kg/Day)	Readings after attending leak		Total saving Kg/Day
										(ppm)	(Kg/Day)	
1		Valve	110-FV-51202 Bypass I/V	Valve	6"	Isolation Valve	Gland	4730	0.364	120	0.006	0.358
2		Valve	ISBL 6"-C2+Liquid FROM New Storage line I/V	Valve	6"	Isolation Valve	Gland	7300	0.597	350	0.019	0.578
3		Valve	Residue Gas Export line I/V	Valve	4"	Isolation Valve	Gland	3730	0.278	0	0.000	0.278
4		Valve	110-FV-36201 A D/S I/V	Valve	4"	Isolation Valve	Gland	3600	0.267	90	0.004	0.263
5		Valve	110-FV-41602	Valve	18"	Control Valve	Gland	4350	0.331	40	0.002	0.329
6		Valve	110-PDV-36201 D/S I/V	Valve	18"	Isolation Valve	Gland	5180	0.404	10	0.000	0.404
7		Valve	110-PV-65004 A U/S I/V	Valve	6"	Isolation Valve	Gland	6360	0.510	180	0.009	0.501
8	GCU - II	Valve	110-FV-40002 U/S I/V	Valve	6"	Isolation Valve	Gland	4200	0.318	70	0.003	0.315
9		Valve	110-HV-17305 D/S I/V	Valve	18"	Isolation Valve	Gland	3140	0.228	795	0.048	0.180
10		Valve	110-PSV-65001 A D/S I/V	Valve	20"	Isolation Valve	Gland	5100	0.397	30	0.001	0.396
11		Valve	110-PSV-60101 D D/S I/V	Valve	16"	Isolation Valve	Gland	3440	0.253	130	0.006	0.247
12		Valve	110-PV-33401 U/S I/V	Valve	10"	Isolation Valve	Gland	5200	0.406	70	0.003	0.403
13		Valve	110-PV-51802 D/S I/V	Valve	6"	Isolation Valve	Gland	4280	0.325	160	0.008	0.317
14		Valve	110-PSV-10509 U/S I/V	Valve	3"	Isolation Valve	Gland	3100	0.225	30	0.001	0.224
15		Valve	110-PV-92102 B 2nd D/S I/V	Valve	8"	Isolation Valve	Gland	4370	0.333	150	0.007	0.326
16		Valve	Vent from VV-665 C3R vent line I/V	Valve	1"	Isolation Valve	Gland	5250	0.410	70	0.003	0.407
17		IOP Storage	Pump Valve	44-PA-CF-11 A DIS Valve D/S Flange	Flange	4"	D/S Flange	Flange	3100	0.298	60	0.012
18	Flange		41-SOV-1408 Drain Flange	Flange	1"	Drain Flange	Flange	3230	0.308	300	0.044	0.264
19	TANK-104		TS-104 (line Near Pump 44-PA-CF-11 B) line I/V D/S Flange	Flange	8"	D/S Flange	Flange	3500	0.329	20	0.005	0.324
20	Flange		10-FV-5101 Drain Flange *	Flange	1"	Drain Flange	Flange	4330	0.391	4330	0.391	0.000
21	Flange	10-PSV-6201 Bypass I/V Flange	Flange	4"	Flange	Flange	3980	0.365	30	0.007	0.358	
22	Flange	10-FV-4911 D/S I/V U/S Flange	Flange	8"	U/S Flange	Flange	4170	0.379	0	0.000	0.379	
23	Pump Flange	10-PA-504 A SUC Drain Flange	Flange	1"	Drain Flange	Flange	3300	0.313	60	0.012	0.301	
24	Exchanger	10-EE-808 B/A MP Ethylene inlet line Drain Flange *	Exchanger	2"	Drain Flange	Flange	3750	0.348	3750	0.348	0.000	7.438
Total Savings :											7.438	

Remark: *Due to operational constraint, leak point is not repaired during this quarter. The same will get repaired during plant shutdown.



LDAR VOC MONITORING REPORT
Report for the Month of JULY TO SEPTEMBER,2025.
LEAK SUMMARY

Sr. No.	Unit	Equipment	Tag. No	Component s	Line Size	Location	Leak Type	(ppm)	(Kg/Day)	Readings after attending leak		Total saving Kg/Day	
										(ppm)	(Kg/Day)		
1	GCU - II COLD	Valve	OSBI 3"-P-170-9626-A1A-Hydrogenated C3 mix line I/V	Valve	3"	Isolation Valve	Gland	4300	0.327	0	0.000	0.327	
2		Valve	110-FV-51202 Bypass I/V	Valve	6"	Isolation Valve	Gland	4000	0.301	0	0.000	0.301	
3		Valve	110-IV-41401	Valve	4"	Control Valve	Gland	3700	0.275	20	0.001	0.274	
4		Valve	110-FV-41602	Valve	18"	Control Valve	Gland	3500	0.258	0	0.000	0.258	
5		Valve	110-MOV-35207	Valve	18"	MOV	Gland	6900	0.560	50	0.002	0.558	
6		Valve	110-PDV-36201 D/S I/V	Valve	18"	Isolation Valve	Gland	6400	0.514	500	0.028	0.486	
7		Valve	110-PV-65004 A U/S I/V	Valve	6"	Isolation Valve	Gland	7600	0.625	5	0.000	0.625	
8		Valve	110-PV-65004 A D/S I/V	Valve	6"	Isolation Valve	Gland	5100	0.397	0	0.000	0.397	
9		Valve	110-FV-43001	Valve	2"	Control Valve	Gland	5200	0.406	50	0.002	0.404	
10		Valve	110-FV-50202 U/S I/V	Valve	3"	Isolation Valve	Gland	3200	0.233	0	0.000	0.233	
11		Valve	110-PSV-60101 C D/S I/V	Valve	16"	Isolation Valve	Gland	4400	0.335	0	0.000	0.335	
12		Valve	110-PSV-60101 D D/S I/V	Valve	16"	Isolation Valve	Gland	7200	0.588	30	0.001	0.587	
13		Valve	110-PSV-42001 A U/S I/V	Valve	10"	Isolation Valve	Gland	3100	0.225	0	0.000	0.225	
14		Valve	110-PV-33401 U/S I/V	Valve	10"	Isolation Valve	Gland	5200	0.406	60	0.003	0.403	
15		Valve	110-PV-51802 U/S I/V	Valve	6"	Isolation Valve	Gland	3600	0.267	10	0.000	0.267	
16	GCU - II HOT	Valve	110-PV-92102 B 2nd D/S I/V	Valve	8"	Isolation Valve	Gland	3700	0.275	30	0.001	0.274	
17		Valve	20"-FG-110-36402-A1A Line D/S I/V	Valve	20"	Isolation Valve	Gland	3400	0.250	4	0.000	0.250	
18		Valve	110-FT-92101 U/S I/V	Valve	12"	Isolation Valve	Gland	5100	0.397	15	0.001	0.396	
19		Valve	110-PSV-30201 A D/S I/V	Valve	6"	Isolation Valve	Gland	3200	0.233	350	0.019	0.214	
20		Valve	110-PSV-30802 A U/S I/V	Valve	8"	Isolation Valve	Gland	5300	0.415	11	0.000	0.415	
21		Valve	110-PSV-30802 C U/S I/V	Valve	8"	Isolation Valve	Gland	4900	0.379	2	0.000	0.379	
22		Valve	110-HV-17305	Valve	6"	Control Valve	Gland	4400	0.335	20	0.001	0.334	
23		Valve	110-HV-14805	Valve	6"	D/S I/V	Gland	3700	0.275	6	0.000	0.275	
24		Pump Valve	110-PA-501 A SUC I/V	Valve	4"	Isolation Valve	Gland	4100	0.309	25	0.001	0.308	
25		Pump Valve	110-PA-502 B SUC I/V	Valve	2"	Isolation Valve	Gland	4300	0.327	0	0.000	0.327	
26	Pump Valve	110-PA-602 A Suction I/V	Valve	3"	Isolation Valve	Gland	5100	0.397	40	0.002	0.395		
27	Pump Valve	110-PA-610 A DIS I/V	Valve	3"	Isolation Valve	Gland	3200	0.233	15	0.001	0.232		
28	Valve	10-TV-4902 B U/S I/V	Valve	8"	Isolation Valve	Gland	3200	0.233	0	0.000	0.233		
29	Valve	10-PV-5402 A U/S I/V	Valve	2"	Isolation Valve	Gland	3700	0.275	0	0.000	0.275		
30	Valve	10-PSV-5804 D/S I/V	Valve	2"	Isolation Valve	Gland	4300	0.327	0	0.000	0.327		
31	Valve	10-PSV-5404 U/S I/V	Valve	2"	Isolation Valve	Gland	5500	0.432	25	0.001	0.431		
32	Flange	10-PSV-5201 B U/S I/V	Valve	4"	Isolation Valve	Gland	4700	0.361	0	0.000	0.361		
33	Flange	10-PSV-4905 U/S I/V	Valve	2"	Isolation Valve	Gland	3700	0.275	10	0.000	0.275		
34	Valve	10-PSV-4901 Bypass 2nd I/V	Valve	2"	Isolation Valve	Gland	3300	0.242	0	0.000	0.242		
35	Valve	10-PSV-4903 Bypass 1st I/V	Valve	2"	Isolation Valve	Gland	4500	0.344	0	0.000	0.344		
36	Valve	10-PSV-6402 U/S I/V	Valve	10"	Isolation Valve	Gland	5300	0.415	20	0.001	0.414		
37	Valve	10-FV-5110 U/S I/V	Valve	12"	Isolation Valve	Gland	9000	0.758	0	0.000	0.758		
38	Valve	10-FV-5003 A	Valve	6"	Control Valve	Gland	4400	0.335	0	0.000	0.335		
39	Valve	10-PSV-5701 B U/S I/V	Valve	4"	Isolation Valve	Gland	5200	0.406	60	0.003	0.403		
40	GCU - I HOT	Battery Limit	MP Ethylene Liquid line I/V	Valve	8"	Isolation Valve	Gland	3600	0.267	0	0.000	0.267	
41		Valve	10-PSV-7402 U/S I/V	Valve	8"	Isolation Valve	Gland	6200	0.496	0	0.000	0.496	
42		Valve	PSV-4105 A U/S I/V	Valve	8"	Isolation Valve	Gland	3900	0.292	80	0.003	0.289	
43		Valve	PSV-4103 A U/S I/V	Valve	8"	Isolation Valve	Gland	4400	0.335	120	0.006	0.329	
44		Valve	PSV-4104 A U/S I/V	Valve	8"	Isolation Valve	Gland	5400	0.423	6	0.000	0.423	
45		Valve	PSV-4102 D/S I/V	Valve	6"	Isolation Valve	Gland	3800	0.284	0	0.000	0.284	
46		Valve	PSV-4102 1st Bypass I/V	Valve	1"	Isolation Valve	Gland	3100	0.225	40	0.002	0.223	
47		Valve	PSV-4001 B U/S I/V	Valve	4"	Isolation Valve	Gland	3700	0.450	0	0.000	0.450	
48		Valve	10-FV-4102 U/S I/V	Valve	12"	Isolation Valve	Gland	5600	0.441	0	0.000	0.441	
49		Valve	10-PV-7401 A	Valve	16"	Control Valve	Gland	3300	0.242	35	0.001	0.241	
50	GPU - I	Valve	08-FCV-2301	Valve	12"	Control Valve	Gland	4100	0.309	50	0.002	0.307	
51		Valve	08-PSV-1801 B U/S I/V	Valve	10"	Isolation Valve	Gland	5300	0.415	10	0.000	0.415	
52		Valve	08-PSV-3502 B U/S I/V	Valve	4"	Isolation Valve	Gland	4700	0.361	0	0.000	0.361	
53		Valve	08-PSV-204 D/S I/V	Valve	2"	Isolation Valve	Gland	4200	0.318	45	0.002	0.316	
54		Valve	08-PSV-104 U/S I/V	Valve	2"	Isolation Valve	Gland	3400	0.250	15	0.001	0.249	
55	MOV	1419	Valve	24"	MOV	Gland	5400	0.423	5	0.000	0.423		
56	GPU - II	Pump Valve	108-PA-101 B Discharge I/V	Valve	12"	Isolation Valve	Gland	4300	0.327	0	0.000	0.327	
57		Valve	108-PSV-6901 A U/S I/V	Valve	6"	Isolation Valve	Gland	3800	0.284	0	0.000	0.284	
58	LLDPE - I	Valve	12-FV-2053 D/S I/V	Valve	6"	Isolation Valve	Gland	3800	0.284	60	0.003	0.281	
59		Valve	12-FV-2251 Bypass I/V	Valve	4"	Isolation Valve	Gland	3200	0.233	4	0.000	0.233	
60		Valve	12-FV-2265 U/S I/V	Valve	3"	Isolation Valve	Gland	4100	0.309	180	0.009	0.300	
61	HDPE - I	Valve	GN - 201 Ethylene Filter Outlet I/V	Valve	2"	Isolation Valve	Gland	3600	0.267	10	0.000	0.267	
62		Valve	102-HV-21101 U/S I/V	Valve	4"	Isolation Valve	Gland	3700	0.275	0	0.000	0.275	
63	LLDPE - II	Valve	102-FV-21102 D/S I/V	Valve	10"	Isolation Valve	Gland	4300	0.327	300	0.016	0.311	
64		Valve	REGN In Ethylene co2 removal VV-215 Line 1st I/V	Valve	10"	Isolation Valve	Gland	3200	0.233	15	0.001	0.232	
65		Valve	REGN In Ethylene co2 removal VV-215 Line 2nd I/V	Valve	10"	Isolation Valve	Gland	3400	0.250	0	0.000	0.250	
66	IOP Storage	Pump Valve	44-PA-CF-011 B Suction line near I/V	Valve	6"	Isolation Valve	Gland	4200	0.318	5	0.000	0.318	
67		Valve	FV-1603 U/S I/V	Valve	4"	Isolation Valve	Gland	3500	0.258	0	0.000	0.258	
68		Flange	FV-1301 U/S I/V	Valve	4"	Isolation Valve	Gland	3100	0.225	10	0.000	0.225	
69		Flange	FV-1301 D/S I/V	Valve	4"	Isolation Valve	Gland	3200	0.233	0	0.000	0.233	
70		Flange	FV-1401 U/S I/V	Valve	4"	Isolation Valve	Gland	3700	0.275	50	0.002	0.273	
71		Flange	FV-1401 D/S I/V	Valve	4"	Isolation Valve	Gland	4200	0.318	120	0.006	0.312	
72	HDPE - II	Valve	18-FV-2502 U/S line 3" HHX-18-70439-A1K line	Valve	3"	Isolation Valve	Gland	3300	0.242	6	0.000	0.242	
73		Valve	18-TV-2501 Drain I/V	Valve	1"	Isolation Valve	Gland	3200	0.233	30	0.001	0.232	
74		Valve	18-PV-2102 B U/S I/V	Valve	6"	Isolation Valve	Gland	4500	0.344	0	0.000	0.344	
75		Valve	18-PV-2102 A U/S I/V	Valve	6"	Isolation Valve	Gland	3900	0.292	10	0.000	0.292	
76	Valve	18-GN-201 Filter Drain I/V	Valve	1"	Isolation Valve	Gland	3800	0.284	0	0.000	0.284		
Total Savings :												0.123	25.164

**U.P Waste Management Project**

(A Division of Ramky Enviro Engg. Ltd.)
A -380 Lakhapur Housing Society,
Nr. Utsav Apartment, Lakhapur,
Vikas nagar, KANPUR-208024 (Utter Pradesh)
Tel.-Fax. :- 0512-2585076 Email :- upwmp@ramky.com

Date: 22/12/2012

To,
M/s. GAIL (India) Limited
(A Govt. of India Undertaking – A Navaratna Company)
Pata, (U.P)

Kind Attn: - Mr. R V Sahane

Sub: - Permanent Membership of UPWMP – CHW TSDF, Kanpur Dehat.

Dear Sir,

We thank you and further welcome you as **PERMANENT MEMBER** of Uttar Pradesh Waste Management Project (A Divn of RAMKY Enviro Engineers Ltd.) for utilizing our Common Hazardous Waste Treatment Storage Disposal Facility (CHW-TSDF) to dispose your hazardous waste safely & securely.

Your Permanent Membership Num. is **UPWMP-KNP-HzW – CHW-TSDF – 1268**

We seek your co-operation & assistance to help us meet our common objectives of keeping our Environment Safe and Secure.

We once again thank you and assure of our best services and look forward to an environment friendly relationship.

Please do contact us for any further information and clarification.

Thanking you

Yours truly,

For **Uttar Pradesh Waste Management Project**
(A Divn of **RAMKY** Enviro Engineers Ltd.)

Hari om Sharan Dwivedi

Hari Om Sharan Dwivedi
AGM – Operation

Environmental Monitoring Report of M/s GAIL Pata for April 2025

GROUND WATER ANALYSIS RESULTS AS PER IS 10500:2012 (26/04/2025)

S.No.	Parameters	Unit	Permissible Standards	Test Method	GW-1	GW-2
1	Colour	Hazen Unit	5/15	IS-3025(P-04)	<5	<5
2	Turbidity	NTU	1/5	IS-3025(P-10)	2.5	2.1
3	pH value	-	6.5-8.5/ no relaxation	IS-3025(P-11)	7.68	7.51
4	Total dissolve solid (TDS)	mg/l	500/2000	IS-3025(P-16)	1730.0	522.0
5	Total Hardness (as CaCO ₃)	mg/l	200/600	IS: 3025 (P- 21)	240.0	151.41
6	Calcium Hardness (as CaCO ₃)	mg/l	250	IS: 3025 (P- 40)	48.09	32.06
7	Magnesium Hardness (as CaCO ₃)	mg/l	200	IS: 3025 (P-46)	29.16	17.35
8	Chloride (as Cl)	mg/l	250/1000	IS: 3025 (P- 32)	835.7	144.6
9	Total Alkalinity (as CaCO ₃)	mg/l	200/600	IS: 3025 (P- 23)	935.25	286
10	Fluoride	mg/l	1.0/1.5	IS: 3025 (P-60)	0.59	0.19
11	Sulphate	mg/l	200/400	IS: 3025 (P-24)	78.4	24.5
12	Sulphide	mg/l	0.05/ no relaxation	IS: 3025 (P-29)	BDL (<0.05)	BDL (<0.05)
13	Manganese	mg/l	0.1/0.3	APHA 3111-B,24th Edition	BDL (<0.002)	BDL (<0.002)
14	Phenol	mg/l	0.001/0.002	IS: 3025 (P-43)	BDL (<0.001)	BDL (<0.001)
15	Cyanide	mg/l	0.05/ no relaxation	IS: 3025 (P-27)	BDL (<0.02)	BDL (<0.02)
16	Zinc	mg/l	5/15	APHA 3111-B,24th Edition	BDL (<0.05)	BDL (<0.05)
17	Nickel	mg/l	0.02/ no relaxation	APHA 3111-B,23rd Edition	BDL (<0.01)	BDL (<0.01)
18	Biochemical Oxygen Demand	mg/l	--	IS: 3025 (P-44)	BDL	BDL
19	Chemical Oxygen Demand	mg/l	--	APHA 5220-B (Open Reflux)24th Edition	45.6	41.2
20	Dissolved Oxygen	mg/l	--	APHA 4500 OB, 24th Edition	6.3	6.9
21	Oil & Grease	mg/l	--	APHA 5520B (Partition Gravimetric)24th Edition	BDL (<3)	BDL (<3)
22	Total Suspended Solid	mg/l	--	APHA 2540D (Gravimetric)23rd edition:	<5	<5
23	Nitrate	mg/l	45/ no relaxation	IS: 3025 (P-34)	0.38	0.31
24	Iron (as Fe)	mg/l	0.3/ no relaxation	IS: 3025(P-53)	BDL (<0.1)	BDL (<0.1)
25	Total Coliform	Present or Absent/100ml	Absent	IS:-15185	Absent/100ml	Absent/100ml



Krishan Rajput Technical Manager

Report Prepared by ALKOM SYNERGY PRIVATE LIMITED

Environmental Monitoring Report of M/s GAIL Pata for May 2025

GROUND WATER ANALYSIS RESULTS AS PER IS:-10500:-2012 (24/05/2025)

S.No.	Parameters	Unit	Permissible Standards	Test Method	GW-1	GW-2
1	Colour	Hazen Unit	5/15	IS-3025(P-04)	<5	<5
2	Turbidity	NTU	1/5	IS-3025(P-10)	2.2	1.8
3	pH value	-	6.5-8.5/ no relaxation	IS-3025(P-11)	7.58	7.31
4	Total dissolve solid (TDS)	mg/l	500/2000	IS-3025(P-16)	1523	551
5	Total Hardness (as CaCO ₃)	mg/l	200/600	IS: 3025 (P- 21)	362	211.3
6	Calcium Hardness (as CaCO ₃)	mg/l	250	IS: 3025 (P- 40)	70.70	41.24
7	Magnesium Hardness (as CaCO ₃)	mg/l	200	IS: 3025 (P-46)	45.10	26.34
8	Chloride (as Cl)	mg/l	250/1000	IS: 3025 (P- 32)	483	167.2
9	Total Alkalinity (as CaCO ₃)	mg/l	200/600	IS: 3025 (P- 23)	763	148.26
10	Fluoride	mg/l	1.0/1.5	IS: 3025 (P-60)	0.62	0.46
11	Sulphate	mg/l	200/400	IS: 3025 (P-24)	78.6	28.9
12	Sulphide	mg/l	0.05/ no relaxation	IS: 3025 (P-29)	BDL (<0.05)	BDL (<0.05)
13	Manganese	mg/l	0.1/0.3	APHA 3111-B,24th Edition	BDL (<0.002)	BDL (<0.002)
14	Phenol	mg/l	0.001/0.002	IS: 3025 (P-43)	BDL (<0.001)	BDL (<0.001)
15	Cyanide	mg/l	0.05/ no relaxation	IS: 3025 (P-27)	BDL (<0.02)	BDL (<0.02)
16	Zinc	mg/l	5/15	APHA 3111-B,24th Edition	BDL (<0.05)	BDL (<0.05)
17	Nickel	mg/l	0.02/ no relaxation	APHA 3111-B,23rd Edition	BDL (<0.01)	BDL (<0.01)
18	Biochemical Oxygen Demand	mg/l	--	IS: 3025 (P-44)	3.6	5.3
19	Chemical Oxygen Demand	mg/l	--	APHA 5220-B (Open Reflux)24th Edition	42.9	46.4
20	Dissolved Oxygen	mg/l	--	APHA 4500 OB, 24th Edition	6.7	6.5
21	Oil & Grease	mg/l	--	APHA 5520B (Partition Gravimetric)24th Edition	BDL (<3)	BDL (<3)
22	Total Suspended Solid	mg/l	--	APHA 2540D (Gravimetric)23rd edition:	<5	<5
23	Nitrate	mg/l	45/ no relaxation	IS: 3025 (P-34)	18.76	6.48
24	Iron (as Fe)	mg/l	0.3/ no relaxation	IS: 3025(P-53)	BDL (<0.1)	BDL (<0.1)
25	Total Coliform	Present or Absent/100ml	Absent	IS:-15185	Absent/100ml	Absent/100ml

Krishan Rajput- Technical Manager



Report Prepared by ALKOM SYNERGY PRIVATE LIMITED

Environmental Monitoring Report of M/s GAIL Pata for June 2025
GROUND WATER ANALYSIS RESULTS AS PER IS:-10500:-2012 (27/06/2025)

S.No.	Parameters	Unit	Permissible Standards	Test Method	GW-1	GW-2
1	Colour	Hazen Unit	5/15	IS-3025(P-04)	<5	<5
2	Turbidity	NTU	1/5	IS-3025(P-10)	2.1	1.6
3	pH value	-	6.5-8.5/ no relaxation	IS-3025(P-11)	7.63	7.38
4	Total dissolve solid (TDS)	mg/l	500/2000	IS-3025(P-16)	1519	553
5	Total Hardness (as CaCO ₃)	mg/l	200/600	IS: 3025 (P- 21)	366	214.03
6	Calcium Hardness (as CaCO ₃)	mg/l	250	IS: 3025 (P- 40)	71.6	40.89
7	Magnesium Hardness (as CaCO ₃)	mg/l	200	IS: 3025 (P-46)	45.05	26.1
8	Chloride (as Cl)	mg/l	250/1000	IS: 3025 (P- 32)	486	168.1
9	Total Alkalinity (as CaCO ₃)	mg/l	200/600	IS: 3025 (P- 23)	766	145.9
10	Fluoride	mg/l	1.0/1.5	IS: 3025 (P-60)	0.59	0.45
11	Sulphate	mg/l	200/400	IS: 3025 (P-24)	79.04	29.1
12	Sulphide	mg/l	0.05/ no relaxation	IS: 3025 (P-29)	BDL (<0.05)	BDL (<0.05)
13	Manganese	mg/l	0.1/0.3	APHA 3111-B,24th Edition	BDL (<0.002)	BDL (<0.002)
14	Phenol	mg/l	0.001/0.002	IS: 3025 (P-43)	BDL (<0.001)	BDL (<0.001)
15	Cyanide	mg/l	0.05/ no relaxation	IS: 3025 (P-27)	BDL (<0.02)	BDL (<0.02)
16	Zinc	mg/l	5/15	APHA 3111-B,24th Edition	BDL (<0.05)	BDL (<0.05)
17	Nickel	mg/l	0.02/ no relaxation	APHA 3111-B,23rd Edition	BDL (<0.01)	BDL (<0.01)
18	Biochemical Oxygen Demand	mg/l	--	IS: 3025 (P-44)	3.7	4.2
19	Chemical Oxygen Demand	mg/l	--	APHA 5220-B (Open Reflux)24th Edition	42.7	45.9
20	Dissolved Oxygen	mg/l	--	APHA 4500 OB, 24th Edition	6.6	6.2
21	Oil & Grease	mg/l	--	APHA 5520B (Partition Gravimetric)24th Edition	BDL (<3)	BDL (<3)
22	Total Suspended Solid	mg/l	--	APHA 2540D (Gravimetric)23rd edition:	<5	<5
23	Nitrate	mg/l	45/ no relaxation	IS: 3025 (P-34)	19.12	6.88
24	Iron (as Fe)	mg/l	0.3/ no relaxation	IS: 3025(P-53)	BDL (<0.1)	BDL (<0.1)
25	Total Coliform	Present or Absent/100ml	Absent	IS:-15185	Absent/100ml	Absent/100ml



Krishan Rajput- Technical Manager

Report Prepared by ALKOM SYNERGY PRIVATE LIMITED

Environmental Monitoring Report of M/s GAIL Pata for July - 2025

GROUND WATER ANALYSIS RESULTS AS PER IS:-10500:-2012 (25/07/2025)

S.No.	Parameters	Unit	Permissible Standards	Test Method	GW-1	GW-2
1	Colour	Hazen Unit	5/15	IS-3025(P-04)	<5	<5
2	Turbidity	NTU	1/5	IS-3025(P-10)	2.3	1.5
3	pH value	-	6.5-8.5/ no relaxation	IS-3025(P-11)	7.62	7.41
4	Total dissolve solid (TDS)	mg/l	500/2000	IS-3025(P-16)	1473	576
5	Total Hardness (as CaCO ₃)	mg/l	200/600	IS: 3025 (P- 21)	358	202.69
6	Calcium Hardness (as CaCO ₃)	mg/l	250	IS: 3025 (P- 40)	73.52	44.2
7	Magnesium Hardness (as CaCO ₃)	mg/l	200	IS: 3025 (P-46)	42.42	22.45
8	Chloride (as Cl)	mg/l	250/1000	IS: 3025 (P- 32)	464.58	155.22
9	Total Alkalinity (as CaCO ₃)	mg/l	200/600	IS: 3025 (P- 23)	672.71	141.57
10	Fluoride	mg/l	1.0/1.5	IS: 3025 (P-60)	0.55	0.41
11	Sulphate	mg/l	200/400	IS: 3025 (P-24)	82.6	32.4
12	Sulphide	mg/l	0.05/ no relaxation	IS: 3025 (P-29)	BDL (<0.05)	BDL (<0.05)
13	Manganese	mg/l	0.1/0.3	APHA 3111-B,24th Edition	BDL (<0.002)	BDL (<0.002)
14	Phenol	mg/l	0.001/0.002	IS: 3025 (P-43)	BDL (<0.001)	BDL (<0.001)
15	Cyanide	mg/l	0.05/ no relaxation	IS: 3025 (P-27)	BDL (<0.02)	BDL (<0.02)
16	Zinc	mg/l	5/15	APHA 3111-B,24th Edition	BDL (<0.05)	BDL (<0.05)
17	Nickel	mg/l	0.02/ no relaxation	APHA 3111-B,23rd Edition	BDL (<0.01)	BDL (<0.01)
18	Biochemical Oxygen Demand	mg/l	--	IS: 3025 (P-44)	3.5	4.1
19	Chemical Oxygen Demand	mg/l	--	APHA 5220-B (Open Reflux)24th Edition	44.6	48.1
20	Dissolved Oxygen	mg/l	--	APHA 4500 OB, 24th Edition	6.3	6.8
21	Oil & Grease	mg/l	--	APHA 5520B (Partition Gravimetric)24th Edition	BDL (<3)	BDL (<3)
22	Total Suspended Solid	mg/l	--	APHA 2540D (Gravimetric)23rd edition:	<5	<5
23	Nitrate	mg/l	45/ no relaxation	IS: 3025 (P-34)	20.11	7.04
24	Iron (as Fe)	mg/l	0.3/ no relaxation	IS: 3025(P-53)	BDL (<0.1)	BDL (<0.1)
25	Total Coliform	Present or Absent/100ml	Absent	IS:-15185	Absent/100ml	Absent/100ml



Krishan Rajput- Technical Manager

Report Prepared by ALKOM SYNERGY PRIVATE LIMITED

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Environmental Monitoring Report of M/s GAIL Pata for August-2025

GROUND WATER ANALYSIS RESULTS AS PER IS:-10500:-2012 (27/08/2025)

S.No.	Parameters	Unit	Standard Limits	Test Method	GW-1	GW-2
1	Colour	Hazen Unit	5/15	IS-3025 (P-04)	<5	<5
2	Turbidity	NTU	1/5	IS-3025(P-10)	2.2	0.9
3	pH value	-	6.5-8.5/ no relaxation	IS-3025(P-11)	7.61	7.36
4	Total dissolve solid (TDS)	mg/l	500/2000	IS-3025(P-16)	1427	551
5	Total Hardness (as CaCO ₃)	mg/l	200/600	IS: 3025 (P- 21)	382.4	193.2
6	Calcium Hardness (as CaCO ₃)	mg/l	250	IS: 3025 (P- 40)	85.3	43.68
7	Magnesium Hardness (as CaCO ₃)	mg/l	200	IS: 3025 (P-46)	41.20	20.46
8	Chloride (as Cl)	mg/l	250/1000	IS: 3025 (P- 32)	410.55	149.2
9	Total Alkalinity (as CaCO ₃)	mg/l	200/600	IS: 3025 (P- 23)	610	123.5
10	Fluoride	mg/l	1.0/1.5	IS: 3025 (P-60)	0.55	0.41
11	Sulphate	mg/l	200/400	IS: 3025 (P-24)	102.4	25.5
12	Sulphide	mg/l	0.05/ no relaxation	IS: 3025 (P-29)	BDL (<0.05)	BDL (<0.05)
13	Manganese	mg/l	0.1/0.3	APHA 3111-B,24th Edition	BDL (<0.002)	BDL (<0.002)
14	Phenol	mg/l	0.001/0.002	IS: 3025 (P-43)	BDL (<0.001)	BDL (<0.001)
15	Cyanide	mg/l	0.05/ no relaxation	IS: 3025 (P-27)	BDL (<0.02)	BDL (<0.02)
16	Zinc	mg/l	5/15	APHA 3111-B,24th Edition	BDL (<0.05)	BDL (<0.05)
17	Nickel	mg/l	0.02/ no relaxation	APHA 3111-B,23rd Edition	BDL (<0.01)	BDL (<0.01)
18	Biochemical Oxygen Demand (3 Days)	mg/l	--	IS: 3025 (P-44)	3.7	4.2
19	Chemical Oxygen Demand	mg/l	--	APHA 5220-B (Open Reflux) 24th Edition	30.4	20.5
20	Dissolved Oxygen	mg/l	--	APHA 4500 OB, 24th Edition	6.7	6.6
21	Oil & Grease	mg/l	--	APHA 5520B (Partition Gravimetric) 24th Edition	BDL (<3)	BDL (<3)
22	Total Suspended Solid	mg/l	--	APHA 2540D (Gravimetric) 23rd edition:	<5	<5
23	Nitrate	mg/l	45/ no relaxation	IS: 3025 (P-34)	26.7	5.22
24	Iron (as Fe)	mg/l	0.3/ no relaxation	IS: 3025(P-53)	BDL (<0.1)	BDL (<0.1)
25	Total Coliform	Present or Absent/100ml	Absent	IS:-15185	Absent/100ml	Absent/100ml



Krishan Rajput- Technical Manager



Report Prepared by ALKOM SYNERGY PRIVATE LIMITED

Environmental Monitoring Report of M/s GAIL Pata for September-2025

GROUND WATER ANALYSIS RESULTS AS PER IS:-10500:-2012 (27/09/2025)

S.No.	Parameters	Unit	Standard Limits	Test Method	GW-1	GW-2
1	Colour	Hazen Unit	5/15	IS-3025(P-04)	<5	<5
2	Turbidity	NTU	1/5	IS-3025(P-10)	2.6	0.7
3	pH value	-	6.5-8.5/ no relaxation	IS-3025(P-11)	7.64	7.28
4	Total dissolve solid (TDS)	mg/l	500/2000	IS-3025(P-16)	1356	610
5	Total Hardness (as CaCO ₃)	mg/l	200/600	IS: 3025 (P- 21)	346	182
6	Calcium Hardness (as CaCO ₃)	mg/l	250	IS: 3025 (P- 40)	81.09	42.11
7	Magnesium Hardness (as CaCO ₃)	mg/l	200	IS: 3025 (P-46)		
8	Chloride (as Cl)	mg/l	250/1000	IS: 3025 (P- 32)	387.46	133.94
9	Total Alkalinity (as CaCO ₃)	mg/l	200/600	IS: 3025 (P- 23)	452	120.24
10	Fluoride	mg/l	1.0/1.5	IS: 3025 (P-60)	0.56	0.45
11	Sulphate	mg/l	200/400	IS: 3025 (P-24)	89.43	26.7
12	Sulphide	mg/l	0.05/ no relaxation	IS: 3025 (P-29)	BDL (<0.05)	BDL (<0.05)
13	Manganese	mg/l	0.1/0.3	APHA 3111-B,24th Edition	BDL (<0.002)	BDL (<0.002)
14	Phenol	mg/l	0.001/0.002	IS: 3025 (P-43)	BDL (<0.001)	BDL (<0.001)
15	Cyanide	mg/l	0.05/ no relaxation	IS: 3025 (P-27)	BDL (<0.02)	BDL (<0.02)
16	Zinc	mg/l	5/15	APHA 3111-B,24th Edition	BDL (<0.05)	BDL (<0.05)
17	Nickel	mg/l	0.02/ no relaxation	APHA 3111-B,23rd Edition	BDL (<0.01)	BDL (<0.01)
18	Biochemical Oxygen Demand (3 Days)	mg/l	--	IS: 3025 (P-44)	2.89	0.77
19	Chemical Oxygen Demand	mg/l	--	APHA 5220-B (Open Reflux)24th Edition	40.5	18.2
20	Dissolved Oxygen	mg/l	--	APHA 4500 OB, 24th Edition	6.7	6.9
21	Oil & Grease	mg/l	--	APHA 5520B (Partition Gravimetric)24th Edition	BDL (<3)	BDL (<3)
22	Total Suspended Solid	mg/l	--	APHA 2540D (Gravimetric)23rd edition:	<5	<5
23	Nitrate	mg/l	45/ no relaxation	IS: 3025 (P-34)	23.17	6.1
24	Iron (as Fe)	mg/l	0.3/ no relaxation	IS: 3025(P-53)	BDL (<0.1)	BDL (<0.1)
25	Total Coliform	Present or Absent/100ml	Absent	IS:-15185	Absent/100ml	Absent/100ml



Krishan Rajput- Technical Manager



Report Prepared by ALKOM SYNERGY PRIVATE LIMITED



गेल (इंडिया) लिमिटेड

(भारत सरकार का उपक्रम - एक महारत्न कम्पनी)

GAIL (India) Limited

(A Government of India Undertaking - A Maharatna Company)

पत्रांक संख्या : गेल/पाता/एस0डी0ई0/2025/ 125

पाता पेट्रोकेमिकल्स

पो. पाता, जिला-औरैया,

पिन-206241 (उ.प्र.)

PATA-PETROCHEMICALS,

PO-PATA, DISTT.-AURAIYA

PIN-206 241(U.P.)

फोन/PHONE : +91-5683-282356, 282049, 283403-5

फैक्स/FAX : +91-5683-282446

दिनांक: 19.09.2025

सेवा में,

मुख्य पर्यावरण अधिकारी (वृत्त -2),

उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड,

टी सी 12-वी विभूति खंड

गोमती नगर, लखनऊ, उत्तर प्रदेश

विषय: वित्तीय वर्ष 2024-25 के लिये गेल पाता का पर्यावरण विवरण ।

महोदय,

गेल पाता का वित्तीय वर्ष 2024-25 का पर्यावरण विवरण आपकी जानकारी के लिये इस पत्र के साथ संलग्न है ।

धन्यवाद सहित ।

आर. पुगाजेंथी

(आर. पुगाजेंथी)

महाप्रबंधक (सतत विकास एवं पर्यावरण)

संलग्नक:

- वित्तीय वर्ष 2024-25 का पर्यावरण विवरण

पंजीकृत कार्यालय:

गेल भवन, 16 भीकाएजी कामा प्लेस, आर.के.पुरम,

नई दिल्ली-110 066, इंडिया

REGD. OFFICE :

GAIL BHAWAN, 16 BHIKAIJI CAMA PLACE, R.K.PURAM,

NEW DELHI-110 066, INDIA

सी आई एन / CIN

L40200DL1984GOI018976

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[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:

Shri Ajay Tripathi
Executive Director (PC-O&M) & OIC
GAIL (India) Limited
Petrochemical Complex
P.O. Pata, District - Auraiya
Uttar Pradesh - 206 241

(ii) Industry Category: Primary – (STC Code-AAACG1209JST006)

(iii) Production Capacity:

Name of Unit	Capacity (MT/Annum)
Polymer (HDPE + LLDPE)	8,10,000
LPG	2,71,059
Propane	1,76,000
Naptha + Pentane	48,686

(iv) Date of the last environmental statement submitted- Submitted for FY 2023-24 on 13.09.2024

(v) Year of establishment- 1999

PART-B

Water and Raw Material Consumption

(i) Water Consumption m³/day

Process - 10,398 m³/ day *

Cooling - 22.831 m³/ day

Domestic - 221 m³/ day

* Water consumption in Process includes mainly Demineralized Water & Service Water etc.

Name of Product	Process Water Consumption per unit of product output	
	During the Previous Financial Year 2023-24	During the Current Financial Year 2024-25
Polymer (HDPE + LLDPE) LPG Propane Naptha + Pentane	3.67 m ³ /MT of product	3.41 m ³ /MT of product
Total Production	11,03,101 MT	11,11,189 MT
Total Process Water	40,51,456 m ³	37,95,227 m ³

(ii) Raw Material Consumption

Name of Raw Material	Name of Products/unit	Consumption of Raw Material per unit of Output	
		During the Previous financial Year 2023-24	During the Current Financial Year 2024-25
Natural Gas*	LPG	477 SCM / MT of LPG	473 SCM / MT of LPG
Natural Gas*	Propane	536 SCM / MT of Propane	536 SCM / MT of Propane
Natural Gas*	Pentane	328 SCM / MT of Pentane	328 SCM / MT of Pentane
Natural Gas*	Naphtha	277 SCM / MT of Naphtha	277 SCM / MT of Naphtha
Ethylene	HDPE	1.025 MT / MT of HDPE	1.02 MT / MT of HDPE
Ethylene	LLDPE	1.013 MT / MT of LLDPE	1.02 MT / MT of LLDPE

*Consumption as Process Gas.

- Industry may use codes if disclosing details of raw material would violate contractual Obligations, otherwise all industries have to name the raw materials used.

PART-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

Pollutants	Quantity of pollutants discharged* (mass/day)	Concentration of pollutants in discharges (mass/volume)*	Percentage of variation from prescribed standards with reasons
(a) Water	Qty of Treated water discharged: 3,653 M ³ /day	BOD: 12.6 mg/l	0
		COD: 73.0 mg/l	0
		Oil & Grease: <2 mg/l	0
		TSS: 33.2 mg/l	0
(b) Air	Qty of Flue gases discharged: 43,469 MT/day	PM: 3.8 mg/Nm ³	0

*Average data for Financial Year 2024-25.

PART-D

HAZARDOUS WASTES

(As specified under Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016)

Hazardous Waste	Total Quantity	
	During the previous Financial Year (2023-24) (MT)	During the current Financial Year (2024-25) (MT)
(a) From process		
Spent Activated Carbon	108.8	106.25
Spent Coke	8.4	6.03
Tar	13	29.41
Spent Resins	9.8	16.74
Waste Mineral Oil	7.1	10.36
Waste Oil	45.3	198.64
Used Lube Oil Filter Cartridges	0.0	0.0
Contaminated Cotton Rags	1.7	1.83
Used Paint Drums	0.0	1.06
Spent Catalysts	23.1	17.23
(b) From pollution control facilities		
WWTP Sludge	793.1	1215.31
Slop Oil	923.1	1415.98

PART-E
SOLID WASTE

Solid Waste	Total Quantity	
	During the previous Financial Year (2023-24) in MT	During the current Financial Year (2024-25) in MT
(a) From process		
Spent Silica Gel	0.0	0.0
(b) From pollution control facility	-	-
(c) (1) Quantity recycled or re-utilized within the unit	-	-
(2) Sold		
Spent Alumina	1169	1218.4
Metal Scrap	810	720
Plastic Scrap	114.3	312.4
Wooden Scrap	662	824
Spent Ceramic Materials	0.0	40.4
Cables scrap	14	5.13
Waste Cartons/Paper	105	89
Used Tyres	0	3.29
(3) Disposed	-	-

PART-F

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

TYPICAL CHARACTERISTICS OF HAZARDOUS WASTE

SOLID/SEMI-SOLID:

SL NO.	PARAMETERS	UNIT	TAR	SPENT CARBON	SPENT COKE	OILY SLUDGE
1.	Calorific value	Kcal/Kg	5753.05	3998.00	923.30	3333.75
2.	Moisture	%	10.77	9.36	0.96	20.52
3.	Total solids	%	24.56	42.43	98.40	50.48
4.	Volatile solids	%	12.09	28.96	21.07	28.42
5.	Ash contents	%	18.76	10.10	54.80	0.24
6.	Oil & Grease	%	1.15	0.60	0.67	3.71
Mode of Disposal			Through Authorized TSDF			

LIQUID HAZARDOUS WASTE:

TYPICAL CHARACTERISTICS OF SLOP OIL

SL NO.	PARAMETERS	UNIT	SLOP OIL	WASTE OIL
1.	Calorific value	Kcal/Kg	1861.35	1639.66
2.	Moisture	%	4.75	22.19
3.	Total solids	%	65.96	34.11
4.	Volatile solids	%	15.69	42.85
5.	Ash contents	%	32.40	1.08
6.	Oil & Grease	%	1.87	2.31
Mode of Disposal			Through authorized recyclers	

Source: Third Party Environment monitoring report by MoEF&CC Authorized and NABL accredited agency.

PART -G

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

GAIL Pata is ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 50001:2018 certified and GreenCo Gold rated company. The following proactive initiatives have been taken for the conservation of Natural Resources:

Water and Wastewater Management:

The water demand of the complex is met by canal water, thereby reducing/eliminating the use of precious groundwater. All the effluent generated from plant premises is routed to Waste Water Treatment Plant situated at GAIL Pata. The effluent is treated to meet the prescribed statutory standards specified by UP State Pollution Control Board (UPPCB). The quality of treated effluent is monitored continuously through online analyzers and data is transmitted to CPCB/UPPCB portal on real-time basis. A part of treated effluent is used in horticulture activities. Membrane Bio Reactor (MBR) based Sewage Treatment Plant has been set up in the GAIL Gaon Township and the treated water is used for irrigation of lawns/gardens etc. GAIL Pata conducts annual Water Audit through an accredited agency and its recommendations are implemented to improve the efficiency of water usage.

Air Quality Management

GAIL Pata utilizes natural gas, which is considered as one of the cleanest fuels available. All the stacks in the plant have suitable height for proper dispersion of the emitted pollutants. In addition, low NOx burners are used in all furnaces and boilers to minimize emissions. The emissions from

Environment Statement for financial year ending 31st March 2025 for GAIL Pata

the stacks are continuously monitored using online analyzers, and the data is transmitted to CPCB/UPPCB portal on real-time basis. Loading facilities are equipped with vapor return circuits, and gas detectors have been installed to ensure timely detection of gas leaks. GAIL Pata carries out Leak Detection & Repair Program (LDAR) for all process units, to detect any fugitive emissions (VOCs) and conserve precious resources while reducing energy consumption.

Biodiversity Management

Regular plantation at GAIL Pata and GAIL Gaon Township is carried out and an extensive greenbelt is being maintained. Mass tree plantation drives are carried out on the occasion of World Environment Day, Van Mahotsav, Birthday Tree Plantation, etc. for increasing awareness among the employees, family members, and other stakeholders. As a result, GAIL Pata has extensive peripheral greenbelt ~36 % of the total plant area against the mandatory requirement of 33%.

Energy Management

As per requirement of Energy Conservation Act'2001, a dedicated Energy Management Team and an energy management cell exists in the complex comprising of a designated energy manager and other engineers who are involved in monitoring, computation & analysis of energy usages. The team helps in taking timely corrective actions in case of deviation in target performance, conducting energy audits and implementation of energy saving measures for energy efficient operation of the complex.

Energy Performance parameters are benchmarked against global standards and are being monitored regularly and reviewed by top management on monthly basis.

External Energy Audits are carried out at specified intervals and Internal Energy Audits are conducted through BEE certified internal energy auditors and energy managers available in the complex.

Some of the key initiatives undertaken for energy performance improvement in the last FY 2024-25 are Operational optimization of running equipment, Monitoring/Rectification of leakages/ Passing Valves, Steam Trap Sustenance Management, Phase wise replacement of HPMV lamps with LEDs, Replacement of Old Rewound Motors with Higher Efficiency IE3 class motors.

In addition, GAIL Pata has Roof Top Grid Connected Solar PV Plant of total capacity 8.4 MWp.

PART-H

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

- Zero Liquid Discharge (ZLD) project is under implementation at GAIL Pata to reduce water footprint of the plant.
- Project for installation of 15 MW floating solar is under progress for increasing renewable share in energy-mix.
- GAIL Pata carried out plantation of 25,118 tree saplings during FY 2024-25.
- Organic waste generated from Plant is being converted into compost in Organic Waste Converter plant installed at the plant and the compost generated is used as manure in gardens.
- Adequate stacks height has been provided for effective dispersion of pollutants.
- Low NOx burners are used in all the furnaces in the complex.

Environment Statement for financial year ending 31st March 2025 for GAIL Pata

Page 6 of 7.

- Liquid hydrocarbon loading facilities are provided with vapor return circuits.
- Gas detectors have been installed to ensure quick detection of a gas leak.
- Five numbers of fixed Continuous Ambient Air Quality Monitoring Station (CAAQMS) and one mobile van has been installed for ambient air quality monitoring.
- All the boiler and furnace stacks are equipped with on-line analyzers for monitoring stack air quality on continuous basis.
- Data from EQMS and OCEMS are transmitted on real-time basis to CPCB & SPCB servers.
- Electronic Display board has been installed at plant main gate for public view of ambient air, stack flue gas and treated effluent quality parameters.
- Advanced Daylighting System has been installed in Mechanical Workshop on pilot basis.
- Wastepaper collection trays have been installed at various sources of generation and collected paper is sent to recyclers.
- Old critical motors are being replaced with energy efficient motors in a phase wise manner.
- Biodiversity assessment was carried out in the plant as well as township premises and measures are being taken for conservation of identified flora & fauna species.
- GAIL Pata has implemented GreenCo rating system and has been rated “GreenCo Gold” by M/s CII Godrej GBC.
- GAIL Pata has set up a pilot scale plant for utilization of 1 MT of CO₂ per day through microbial route.

PART-I

Any other particulars for improving the quality of the environment.

GAIL management has already initiated many projects related to the improvement of the quality of the environment, some of which are described below:

- Ecological Park has been developed in GAIL Gaon Township by carrying out afforestation, fencing of the demarcated area to avoid unauthorized access, fish seeding in eco-ponds, and random dispersion of seed balls in the area.
- Butterfly garden has been developed in GAIL Gaon township by planting various species of Larval Host Plants and Nectar Plants to attract different species of butterflies.
- Installation of Hand pumps, Solar Home lights through CSR in nearby villages.
- Support towards Construction of CC Roads in nearby villages of Pata Plant



उत्तर प्रदेश UTTAR PRADESH

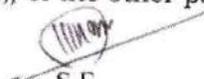
DG 738976

This agreement is made on the 2nd day of May Two Thousands Seventeen corresponding to Saka Samvat the Fifth day of Vaisakha 2074

Between;

The GAIL India Limited (A Government of India Undertaking), a Government Company within the meaning of Companies Act, 2013, through its General Manager, Pata as its Executive Authority having its Corporate Office at 16, Bhikaji Cama Place, R. K. Puram, New Delhi (hereinafter referred to as "the consumer" which expression shall deemed to include its successors, assigns, representatives etc.,) of the One Part; and

The Governor of Uttar Pradesh acting through Superintendent Engineer, Irrigation work circle Etawah, Irrigation Department, Uttar Pradesh, (hereinafter referred to as "the Supplier" which expression shall deem to include its successors, assigns, representatives etc.,) of the other part.


S.E.
1. श्रीमान्. कृष्णमूर्ति
विभागीय कार्य मण्डल, इटावा

1


GAIL

राकेत मिश्रल
R. K. MITTAL
सहसंय (वि.वि.-इटावा) / General Manager (PC-Opn.)
गैल (इंडिया) लिमिटेड / GAIL (India) Limited
पता, डि.ए. अरैया-206 241 (उ.प्र.) भारत
Pata, Dist. Aurya-206 241 (U.P.) INDIA

11
 स्टाफ की तिथि 2/5/17
 स्टाफ का नाम व पुरा पता
 स्टाफ की जानकारी

राहुल कुमार मिश्रा
 राहुल कुमार मिश्रा
 राहुल कुमार मिश्रा

कोषागार कार्यालय
 25 APR 2017
 औरैया

राहुल कुमार मिश्रा
 कोषागार कार्यालय
 कोषागार कार्यालय

कोषागार कार्यालय
 कोषागार कार्यालय
 कोषागार कार्यालय

WHEREAS the Consumer is operating a gas based Petro Chemical Plant near Pata in District Auriaya on the right bank of Burhadana Distributory of Etawah Branch Canal and it has requested to the Irrigation Department, Government of Uttar Pradesh (herein after called "the Government") for permission to draw 30 cusec water from Etawah branch canal system through Buradana Distributory during its running days according to the roster for the use of non-irrigation purpose in Petro chemical complex at Pata.

An agreement was made between Gail, Pata and irrigation department on 04.10.2014 for supply of 13 cusec irrigation canal water and now Gail, Pata requires additional 17 cusec for its expansion project.

After this agreement for supply of 30 cusec irrigation canal water comes into force, all previous agreements including agreement for supply of 13 cusec irrigation canal water with State Irrigation Department will cease to exist.

AND WHEREAS at the request of the Consumer, the Supplier has agreed to supply 30 cusec of non-potable water in bulk to the Consumer from the Etawah Branch of Lower Ganga Canal system through Burhadana Distributory for use in Petro Chemical Complex at Pata, District Auraiya by means of Cross regulator on Burhadana Distributory and suitable intake structure constructed by the Consumer.

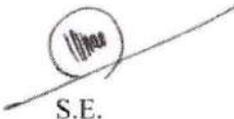
AND WHEREAS, in this regard, an agreement dated 05/07/2012 was executed between the consumer and the Irrigation department and in furtherance of the same, the consumer has deposited an amount of Rs. 5982.45 lacs with the Irrigation Department to undergo C.C lining / repairs of the canal to restrict water seepage.

Now the agreement witnesses as follows: -

1. In this agreement unless the contrary intention appears: -

(a) 'Canal' means Etawah Branch of Lower Ganga Canal system.

(b) "Chief Engineer" means the Chief Engineer of Irrigation Department who will be in the administrative charge of all works pertaining to Lower Ganga Canal system along with their off taking channels, and at present is Chief Engineer (Ram Ganga) with Head Quarter at Kanpur.


S.E.

I.W.G. Etawah
इलाहाबाद
अचार्ज्ड कार्य मण्डल, इलाहाबाद

2

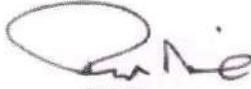

GAIL

राकेश मिश्रा
R. K. MITTAL
सहायक (विद्युत-संचालन) / General Manager (PC-Ops.)
गैल (इंडिया) लिमिटेड / GAIL (India) Limited
पता, जिला औरिया-206 241 (U.P.) भारत
Pata, Distt. Auraiya-206 241 (U.P.) INDIA

- (c) 'Cross Regulator' means Cross regulator constructed in Etawah Branch downstream of Burhadana Distributory Head Regulator to effect supplies into Burhadana Distributory.
- (d) "General Manager" means, the General Manager of GAIL Petro Chemical Complex, Pata, District, Auraiya.
- (e) "Executive Engineer" means Executive Engineer of the Irrigation Department incharge of the Burhadana Distributory, who at present is Executive Engineer, Irrigation Division, Auraiya.
- (f) "Financial year" means:
- (I) Each succeeding Twelve (12) month period beginning on April 1st during the term of this agreement and ending on the following March 31.
- (II) In case the date of commencement of agreement is fixed any month after 1st April of the year then number of months from 1st April till preceding month of the date of signing shall not be construed as a financial year.
- (III) Like wise if the date of termination of agreement is fixed any month beyond 1st April of the year then the balance of months till next 31st March shall not be construed as a financial year.
- (g) "Intake cum cross regulator" means intake cum Cross Regulator Constructed on Burhadana Distributory for diverting water into the intake channel of Petro Chemical Complex, Pata.
- (h) "Irrigation Department" means the Irrigation Department of Government of Uttar Pradesh.
- (i) "Reduced Level" means level measured with reference to the bench mark provided on U/S bed of the regulator Km. 17.200 of Burhadana Distributory diversion left bank. The R. L. 140.355 and at Km. 16.65 RL is 140.455M.
- (j) "Roster" means time schedule for running and closure of Canal as fixed by the Irrigation Department of the Uttar Pradesh Government.
- (k) "Sub Divisional Officer" means the Assistant Engineer of the Irrigation Department in direct charge of Burhadana Distributory.
- (l) "Superintending Engineer" means the Superintending Engineer of the Irrigation Department in direct administrative control of Etawah Branch and Burhadana Distributory presently Superintending Engineer, Irrigation Works Circle, Etawah.
- (m) "The GAIL Petro Chemical Complex" means Gas based Petro Chemical Plant constructed at Pata in District Auraiya on right bank of Burhadana Distributory off taking at Km. 109.00 right bank of Etawah Branch Canal.


S.E.
I.W.C. Etawah
जल विभाग, इटावा
मिचार्ड कार्यालय, इटावा

3


GAIL
राकेश मिश्रल
R. K. MITTAL
सहायक (विद्युत-उपकरण)/General Manager (PC-Op.)
गैस (इंडिया) लिमिटेड / GAIL (India) Limited
पता, जिला औरिया-206 241 (उ.प्र.) भारत
Pata, Distt. Auraiya-206 241 (U.P.) INDIA

(n) "Year" Means a period of 365 days (Three hundred Sixty Five days) calculated from the date of execution of this agreement except in case of leap year in which it means a period of 366 days (Three Hundred Sixty Six days) from the date of execution of this agreement.

2. The supplier and the Consumer agree as Follows: -

- (a) It is agreed that that the consumer shall pay to the supplier water charges at the rate Rs. 12.48 (Rupees Twelve and Paisa forty Eight) per one thousand cubic feet which shall be charged as per actual quantity of water consumed. The said amount of water charges is being qualified as per provision in G.O. NO. 2953/11-27-सि-4-08-(जल)/82 dated 15.07.2011. It is mutually agreed that the water charges at the above rate shall be deposited quarterly as per the actual consumption. The Government shall have the right to change the rate of water charges by way of Notifications from time to time which will be binding on consumer i.e. Gail (India) Limited, Pata, District Auraiya.
- (b) Royalty charges at the rate Rs 6.00 Lacs (Six Lacs) per cusecs per Annum shall be charged as per agreement quantity as per provision of G. O. No. 2953/11-27-सि-4-08-(जल)/82 dated 15.07.2011. The Government shall have the right to change the rate of Royalty charges from time to time which will be binding on consumer. Amount of Royalty charges due for a particular financial year shall be deposited on or before the commencement of the new financial year latest by the end of April of new financial year. To be clear the Royalty charges for financial year 2017-2018 would be payable on or before 30.04.2017 after receipt of bill from Irrigation department and likewise the subsequent payments would be made.
- (c) Under the agreement Irrigation Department shall supply 30 cusecs non-potable water from Burhadana Distributory into both intake channels constructed by Consumer provided that the canal is not closed as per roster.
- (d) The Consumer may store sufficient water as per their requirement in their storage tanks for use during Canal closure.
- (e) Etawah Branch / Burhadana Distributory, supplying water to the consumer will be operated as per roster which will have a normal canal closure period not exceeding 4 (four) weeks at a stretch. However, if the canal closure is not as per the Roster or is for a period of more than 4 (four) weeks duration, the supplier shall inform consumer one month in advance of such canal closure.

S.E.

I.W. Co. Etawah
बिचौड़ी काम सफ़र, इटावा

4

GAIL

राकेश मिश्रल
R. K. MITTAL
महानिदेशक (पी.सी.-प्रबन्धन) / General Manager (PC-Ops.)
गैल (इंडिया) लिमिटेड / GAIL (India) Limited
पता, जिला औरिया-206 241 (उ.प्र.) भारत
Pata, Distt. Auraiya-206 241 (U.P.) INDIA

- (f) The supplier shall supply to the consumer a copy of the roster for both Kharif and Rabi to know about tentative period of running and closure of the canal every year.
- (g) Consumer shall provide following residential accommodation for the staff & executives of Irrigation Department in their colony at Dibiyapur to facilitate day to day working and close liaison on similar terms and conditions as applicable to GAIL staff on chargeable basis. The accommodation shall be earmarked and handed over in the name of Executive Engineer of Irrigation Division Auraiya, Dibiyapur (Supplier).
For Assistant Engineer Incharge, type 'C' one number (unfurnished).
For Junior Engineer Incharge type 'B' one number (unfurnished).
Two Bachelor accommodations.
- (h) The Executive Engineer, Assistant Engineer and Junior Engineer Incharge of Irrigation Division Auraiya, Dibiyapur (Supplier) or any other authority/agent of Uttar Pradesh Irrigation Department shall have free access to the off-take Pump House and other structures and equipments where measuring devices for consumption of water are installed.
- (i) All subsequent alterations or additions in the pumping equipments or the measuring devices or both, if considered necessary, shall be done at its cost by consumer with prior written concurrence of Irrigation Department.
- (j) The joint discharge of intake channels shall be observed monthly to ascertain actual consumption of water by consumer. Executive Engineer shall inform the date of joint observation of discharges to consumer.
- (k) If the payment of dues, as per bills submitted by the Executive Engineer, is not made within the Twelve months of their presentation, the Irrigation Department shall have the right to stop the supplies after giving thirty days notice to the Consumer.
- (l) Annual maintenance cost of work constructed and maintained by the Irrigation Department for supplying water to the GAIL, Petro Chemical Complex shall be paid by the consumer to the Irrigation Department. This amount shall be calculated at the rate of 2% (Two percent) per annum on the total actual cost of the works paid by Gail. This amount shall be increased annually at the simple rate of escalation of 10% (ten percent) per annum. Cost of special repairs or any alternations and additions at any stage for maintenance of supply of 30 cusecs non-potable additional water will be borne by the consumer separately.
- (m) The Consumer shall also pay the Irrigation Department 12.5% centage charges and in addition 1% cess charges on the actual cost of works executed by Irrigation Department at the rates that may be decided by the Government from time to time.

S.E.

I.W.C. Etawah
बिद्युत व प्रियन्ता
सिंचाई कार्य मण्डल, इलाहाबाद

5

GAIL

राकेश मिस्तल
R. K. MITTAL

सहायक (पीसी-उपकरण) / General Manager (PC-Opn.)
गैल (इंडिया) लिमिटेड / GAIL (India) Limited
पता, जिला औरिया-208 241 (उ.प्र.) भारत
Pata, Distt. Auraiya-208 241 (U.P.) INDIA

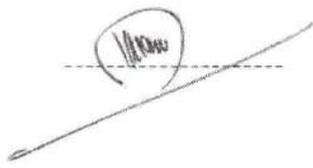
- (n) The demand of funds for the annual maintenance, as per clause (l) above, for the commencing Financial Year shall be sent by Executive Engineer to General Manager in the month of March of every year and Consumer shall have to pay this demand amount by the end of April of the following financial year.
- (o) Final bill on account of annual maintenance charges as per clause (l) above for the financial year shall be submitted by the end of April of following year, crediting the amount already paid by the consumer.
- (p) The amount of Royalty charges, centage charges, annual maintenance cost and other amount which are payable by the consumer at a specified time shall be paid by the consumer on or before the specified date and time. In case the consumer fails to deposit above amount on the specified date and time, the above amount may be recovered from the consumer after one month from the specified date as an arrear of land revenue at the certificate of Superintending Engineer.
- (q) The agreement shall come into force from the date of its execution and will remain effective for a period of 10 (Ten) years unless otherwise terminated earlier.
- (r) After the execution of this agreement all notices to be given or action to be taken under this agreement on behalf of the Consumer, shall be given or taken by the General Manager, GAIL Petro Chemical Complex, Pata who will be addressed in all matters connected with this agreement.
- (s) Effluent water generated, if any, after consumption shall be treated as per the norms of U.P. Pollution Control Board by the consumer before discharging into the natural drain. If any guidelines made by Center Government national green tribunal, the consumer have to follow the guidelines for treatment of effluent water.
- (t) In the event of any dispute, arising out of this agreement, which can not be settled by the joint examination of the facts by the Superintending Engineer, Irrigation Department and the General Manager, shall be referred in writing to the Chief Engineer, Irrigation Department Incharge of this work, and his decision shall be final and legally binding on both the parties.


S.E.
I.W.C. Etawah
बिबीसाहब अभियन्ता
निचाई कार्य मण्डल, इटावा

6


GAIL
राकेश मिश्र
R. K. MITTAL
सहायक (पी.सी.-प्रकारण)/General Manager (PC-Opn.)
गैल (इंडिया) लिमिटेड/GAIL (India) Limited
पता, जिला औरिया-206 241 (उ.प्र.) भारत
Pata, Distt. Auraiya-206 241 (U.P.) INDIA

In witness, whereof these presents have been signed by the parties to this agreement on the day and year above written.



(T. C. Sharma)

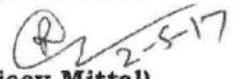
SEIWC Etawah
Signed for and on behalf of Governor of Uttar Pradesh

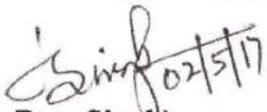


**राजेश मिश्रा
R. K. MITTAL**

(R. K. MITTAL)
General Manager (PC-ops)
GAIL (India) Limited
Pata, Distt. Aunang 206 241 (U.P.) INDIA
Signed for and on behalf of GAIL India Limited, Pata

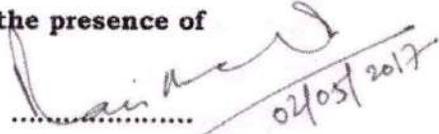
In the presence of

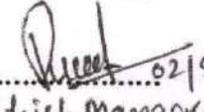
1.  2-5-17
(Rajeev Mittal)
E.E.I.D. Auraiya, Dibiyapur

2.  02/5/17
(Jas Ram Singh)
A.E.I.D. Auraiya, Dibiyapur

Name and address

In the presence of

1.  02/05/2017
(Rajesh Mittal)
General Manager (PC-ops)
GAIL, PATA

2.  02/5/2017
Chief Manager (PC-operation)
GAIL, PATA

Name and address



गेल (इंडिया) लिमिटेड

(भारत सरकार का उपक्रम - एक महारत्न कंपनी)

GAIL (India) Limited

(A Government of India Undertaking - A Maharatna Company)

Ref. No: GAIL/PATA/SD & Env./MOEF/2020/ 574

22nd October- 2020

In-Charge

Ministry of Environment, Forests & Climate Change

Kendriya Bhavan, 5th Floor

Sector- H, Aliganj,

Lucknow-226024

Subject: Regarding advertisement of receipt of environmental clearance by the Ministry in local daily newspaper.

References: Environment Clearance letter no. J-11011/595/2010-IA (II) I, Dated 16th October 21, 2020 for Poly Propylene Expansion Project at GAIL Pata.

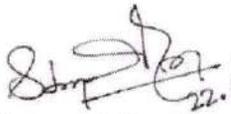
Dear Sir,

This has reference to the Environment Clearance accorded by the ministry for expansion of Poly Propylene project at GAIL Pata.

As per compliance towards general condition point no. ix, we have advertised the information regarding receipt of the environment clearance as per above mentioned project in the local daily newspapers. Scan copy of the same is hereby enclosed with this letter for your reference please.

Thanking you

Yours Sincerely,


22.10.2020

(Shyamal Roy)

General Manager (TS)

Email- shyamal.roy@gail.co.in

Enclosures: Scan copy of newspaper advertisement

पंजीकृत कार्यालय :

गेल भवन, 16 भीकाजी कामा प्लेस, आर.के. पुरम्,

नई दिल्ली - 110066 इंडिया

REGD. OFFICE :

GAIL BHAWAN, 16 BHIKAJI CAMA PLACE, R.K. PURAM,

NEW DELHI - 110066, INDIA

सीआईएन/CIN
L40200DL1984G01018976

www.gailonline.com

Ammeure J

पाता पेट्रोकेमिकल्स
पो - पाता, जिला - औरैया
पिन - 206241 (उ.प्र.), भारत

PATA - PETROCHEMICALS
P.O. - PATA, DISTT-AURAIYA
PIN - 206241 (U.P), INDIA

फोन/PHONE : + 91 5683 282356, 282049, 283403-5
फैक्स/FAX : + 91 5683 282446

Testing DL

official said that the testing camps start functioning from 8.30am and till about 11am, the counters inside see scant footfall but suddenly then, the rush goes up. "We were able to regulate entry to the RTO very well till the camps opened. Now, a large number of people gather at the premises after undergoing tests," he added.

"The testing site is not permanent and it is going to shift to another place that needs attention as we keep doing this on a rotational basis. However, it takes time to set up camps and when we do, we keep testing continuously for enough days," Kaur said, adding that when the positivity rate dips, camps are shifted to another public place.

Forensic lab told to expedite test of riots' data

New Delhi: A Delhi court has directed the director of Forensic Investigation of Crime and Scientific Services (CFSL) to expedite the examination of the analysis of electronic data in a case related to the communal violence in north-east Delhi in February. Metropolitan Magistrate Fahad Uddin asked police to expedite the process and take steps for filing supplementary chargesheet along with pending forensic lab results at the earliest in the case related to the riots in Jaffrabad. The court was hearing an application filed by JNU student and Pinjra Tod activist Devangana Kaifia, arrested in the case, seeking copies of videos of protests against CAA and other electronic data available with the police in the matter. **PT**

ter in the city due to rampant advertisements for maximising revenue. But officials maintained that SDMC had been following the outdoor advertisement policy.

wraps or LED screens. "For LED screens, a maximum of 50-sq-meter area will be allowed and double the rate of the normal monthly licence fee will be levied," the official said.



GAIL (India) Limited
(A Govt. of India Undertaking)

Public Notice

Public at large is hereby informed that Ministry of Environment, Forest and Climate Change (MoEF&CC) has accorded Environmental Clearance to the project for expansion of Petrochemical Complex by adding 60 KTA Polypropylene Unit by GAIL (India) Limited located at Pata, Distt- Auraiya, Uttar Pradesh. The copies of the clearance letter are available with the UPPCB/Committee and may also be seen at website of MoEF&CC and at <https://parivesh.nic.in/>. This public notice is being issued as per the instruction of MoEF&CC, vide letter number F.No. J-11011/595/2010-IA(I) dated 16th October, 2020.

"Safety First..." For any safety concerns of Gas Pipeline/Enquiry, Dial 1800 1231 2111 (Toll Free)
Regd. Office: GAIL Bhawan, 16, Bhikaiji Cama Place, R. K. Puram, New Delhi-110056

Corporate Identification Number : L40200DL1984G01018976

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*No. 1 as per comScore, Total Visits: Feb 2020 to Apr 2020

Times of India - Delhi
21-10-2020

Increase efforts Delhi 21-10-2020

WWW.INDIANEXPRESS.COM

CORONAVIRUS IN THE CAPITAL

TOTAL CASES	HOSPITAL BEDS		VENTILATORS	
	Daily cases	Recoveries	Deaths	Tests
3,36,750	2,154	2,845	31	36,445
Oct 19	3,579	2,186	41	56,593
Oct 20	23,922*	3,06,747	6,081	40,83,476
Total				

Total active cases

It has been reported that there have been repeated instances where RT-PCR test results were not made available to people within 24 hours, and called it "most unacceptable" that the time taken for results was still extending upto even four days.

The court asked the Delhi government in its next status report to clarify how the system is being streamlined to ensure the turnaround time for testing is adhered to. There is obviously "some lag" which must be addressed at earliest, observed the court, while hearing a petition filed by advocate Rakesh Malhotra regarding Delhi's Covid testing strategy.

"The direction is considered necessary in light of the fact that on most occasions where the samples are collected and sent to the laboratories for testing, the person who is tested is not given

Justice Hima Kohli and Subramonium observed, adding there is no reason why results should not be communicated on the mobile phone to the persons. The court made the observations after taking note of recommendations made by an Expert Committee on the Testing Strategy, which said results should be available within 24 hours and suspected cases should ensure strict isolation till then.

"When the government has declared a complete unlockdown which requires all employed persons to report for duty regularly... nor can the self-employed persons/professionals be expected to remain in isolation unnecessarily, it is most unacceptable that turnaround for results is still far exceeding 24 hours and extending upto four days," said the court.

said it was time for prisoners out on interim bail or parole on account of Covid-19 pandemic to return to jails, after it was informed that only three inmates now suffer from Covid-19. A total of 6,711 inmates would have to surrender if the court decides not to extend its blanket order extending the interim bail and parole of prisoners.

The full bench of Chief Justice D N Patel and Justice Siddharth Mridul and Justice Talwant Singh was hearing a suo-motu case regarding extension in interim bails and parole. Directions were passed by the court earlier to decongest the city's jails to contain the spread of Covid-19 there.

"We are not concerned with the capacity of jails and the nature of offence. The order was passed only due to Covid and

However, the Delhi government's senior standing counsel (criminal) Rahul Mehra submitted the state has not brought anything before the court to show the decongestion has led to widespread crime in the city. Mehra also said Covid-19 by "no means is over in Delhi" and there are still a high number of cases.

Mehra also submitted it would be against the spirit of the Supreme Court judgement regarding decongestion of jails during the pandemic. However, CJ Patel observed the "Covid chapter" should close, adding that other avenues for bail and parole exist, and the power of the apex court's high-powered committee will still remain. "Let them surrender and get bail on merits... in a usual manner," he said.

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भारतीय प्रौद्योगिकी संस्थान गुवाहाटी
INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI
Guwahati - 781 039, Assam

Admission to PhD Programmes (December 2020)
Applications are invited from eligible candidates for admission to PhD programmes. Online application process starts on 20.10.2020. For more details, please visit <https://www.iitg.ac.in/acad>.

ADVT. NO. - ACAD/Admissions/03/2020

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES TELANGANA

ADMISSION INTO MASTER OF PUBLIC HEALTH (MPH) COURSE THROUGH COMPUTER BASED ENTRANCE TEST

Applications are invited for admission into MPH Course for the academic year 2020-21 in Indian Institute of Public Health, Hyderabad from 21-10-2020 to 04-11-2020. For detailed notification and prospectus, refer to website <http://knruhs.telangana.gov.in>.

Dated: 19-10-2020 Sd/- REGISTRAR

SML ISUZU LIMITED
(Formerly known as Swara Mazda Limited)

Regd. Office : Village Aaron, Distt. Shalish Bhagal Singh Nagar (Ruwanshahar), Punjab-144532
Phone: 01981-270255, Fax: 01981-270223, CIN : L50101PB1983PLC006516
Email : investor@smlisuzu.com Website address : www.smlisuzu.com

NOTICE

Notice is hereby given pursuant to Regulation 29 read with Regulation 47 of the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015, that a meeting of the Board of Directors of the Company is scheduled to be held on 6th November, 2020 (Friday) to consider and approve the unaudited Financial Results for the second quarter ended on 30th September, 2020.

The information is also available on the Company's website www.smlisuzu.com and also on the website of the Stock Exchanges viz. BSE Limited- www.bseindia.com and the National Stock Exchange of India Limited- www.nseindia.com

Dated: 20.10.2020
Place: Glandighar

For SML ISUZU LIMITED
(PARVESH MADAN)
Company Secretary

GAIL (India) Limited
(A Govt. of India Undertaking)

Public Notice

Public at large is hereby informed that Ministry of Environment, Forest and Climate Change (MoEF&CC) has accorded Environmental Clearance to the project for expansion of Petrochemical Complex by adding 60 KTA Polypropylene Unit by GAIL (India) Limited located at Pata, Distt. Auraya, Uttar Pradesh. The copies of the clearance letter are available with the UPPCB/Committee and may also be seen at website of MoEF&CC and at <https://parivesh.nic.in/>. This public notice is being issued as per the instruction of MoEF&CC, vide letter number F.No. I-1101/595/2010-IA(II) dated 16th October, 2020.

"Safety First..." For any safety concerns of Gas Pipeline/Enquiry, Dial 1800 1231 2111 (Toll Free)

Regd. Office: GAIL Bhawan, IS, Bhikaji Cama Place, R. K. Puram, New Delhi- 110065

Corporate Identification Number : L40200DL1984G01018976

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FESTIVAL SPECIAL TRAIN BETWEEN KATIHAR AND DELHI

It has been decided to run 04083/04084 Katihar-Delhi-Katihar Festival Special (Via Shahpur Patoree) trains to clear extra rush during Purnima Dipawali 2020. Details are as under:

Train No. 04083
Katihar - Delhi Special

Train No. 04084
Delhi-Katihar Special

Revised Timings of 02305/02306 Howrah-New