

Quarterly Analysis Data for
Ambient Air Quality
and Stack Monitoring
for Q4, FY 2025-26
of GAIL Pata



**GAIL (INDIA) LIMITED
PATA PETROCHEMICAL COMPLEX**



ENVIRONMENTAL MONITORING REPORT for the Month of January- 2026



Report Submitted To

**M/s GAIL (India) LIMITED, Petrochemical Complex, Pata, Auraiya,
Uttar Pradesh (U.P)**

Report Prepared By

**ALKOM SYNERGY PRIVATE LIMITED
Noida (U.P)**

(NABL accredited & MOEF & CC recognized Laboratory)

Environmental Monitoring Report of M/s GAIL Pata for January-2026

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 January 2026 have been provided in the following tables:-

Ambient Air Quality Monitoring Results										AAQ-1 (PC-1, AAQMS-3)		
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)
05/01/2026	90.5	49.9	6.0	7.2	ND	12.9	16.5	1.8	1.1	ND	ND	ND
07/01/2026	87.3	46.1	5.4	8.5	ND	10.6	14.1	1.1	1.6	ND	ND	ND
12/01/2026	91.8	52.3	7.5	10.1	ND	16.2	15.9	1.0	1.3	ND	ND	ND
15/01/2026	89.0	48.5	6.9	9.7	ND	11.6	14.7	1.6	1.5	ND	ND	ND
19/01/2026	92.6	51.2	10.4	11.6	ND	13.1	17.4	1.9	2.0	ND	ND	ND
22/01/2026	95.8	53.6	13.1	14.8	ND	16.5	18.1	2.3	2.5	ND	ND	ND
27/01/2026	91.2	50.0	8.7	12.1	ND	12.9	15.6	2.0	1.6	ND	ND	ND
30/01/2026	89.7	47.1	7.3	9.0	ND	11.7	14.0	1.8	1.2	ND	ND	ND
Max	95.80	53.60	13.10	14.80	ND	16.50	18.10	2.30	2.50	ND	ND	ND
Min	87.30	46.10	5.40	7.20	ND	10.60	14.00	1.00	1.10	ND	ND	ND
Mean	91.10	49.85	9.25	11.00	ND	13.26	16.05	1.65	1.80	ND	ND	ND
98 Percentile	95.42	53.42	12.72	14.42	ND	16.46	18.00	2.26	2.43	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 January-2026

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)	09/01/2026	40	1.15	11.42	245	18	24575.79	3.98	21.5	38.1	22.9	5.1
2	LLDPE-1 (Dowtherm B)	09/01/2026	40	1.15	12.03	252	18	25543.33	4.50	24.1	41.9	24.2	6.3
3	GCU-1-FF-101	13/01/2026	37.5	1.5	10.40	143	19	47413.07	5.27	27.6	39.2	26.0	6.8
4	GCU-1-FF-102	13/01/2026	37.5	1.5	10.49	138	19	48405.16	4.00	20.8	35.7	19.2	7.4
5	GCU-1-FF-103	Under Shutdown	37.5	1.5	-	-	-	-	-	-	-	-	-
6	GCU-1-FF-104	13/01/2026	37.5	1.5	10.29	148	19	46354.44	4.70	29.4	46.2	29.5	7.0
7	GCU-1-FF-105	13/01/2026	37.5	1.5	10.34	145	19	46913.98	4.05	24.1	38.3	20.7	5.7
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	23/01/2026	100	3	10.40	143	21	189652.27	4.10	23.0	37.1	22.9	5.0
11	Power Plant-1-UB-3	Under Shutdown	100	3	-	-	-	-	-	-	-	-	-
12	HRS-1	09/01/2026	60	4	10.40	143	16	337159.58	4.35	25.9	41.4	24.7	6.9
13	HRS-2	09/01/2026	60	4	10.21	147	16	327847.56	4.90	27.1	44.9	26.3	7.4
PERMISSIBLE LIMITS									10	50	350	150	-

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									(mg/Nm ³)				
1	GCU-2-FF-110	07/01/2026	50.73	2.3	10.13	153	16	106030.56	4.15	24.0	41.8	23.2	6.0
2	GCU-2-FF-120	07/01/2026	50.73	2.3	10.23	149	16	108092.20	4.70	28.5	47.2	25.8	7.4
3	GCU-2-FF-130	07/01/2026	50.73	2.3	10.56	157	16	109503.16	3.86	21.2	38.9	22.5	5.7
4	Power Plant-2-UB-1	21/01/2026	30.0	3.0	10.25	132	28	191993.65	4.30	23.9	42.5	24.0	7.0
5	Power Plant-2-UB-2	21/01/2026	30.0	3.0	10.18	137	27	188357.08	3.50	19.7	36.2	21.8	5.1
PERMISSIBLE LIMITS									5	50	250	100	-


Krishan Rajput - Technical Manager



ENVIRONMENTAL MONITORING REPORT for the Month of February-2026



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Environmental Monitoring Report of M/s GAIL Pata for February-2026

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 February-2026 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)	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)
02/02/2026	88.7	46.5	5.7	6.0	ND	10.1	15.4	1.2	1.0	ND	ND	ND
05/02/2026	92.3	50.1	7.3	9.7	ND	13.9	17.9	2.1	1.8	ND	ND	ND
09/02/2026	94.1	53.2	8.9	12.5	ND	17.1	16.4	1.8	1.2	ND	ND	ND
12/02/2026	90.5	47.2	7.0	11.3	ND	12.6	11.2	2.0	1.0	ND	ND	ND
16/02/2026	89.2	48.0	12.4	8.6	ND	14.2	16.0	1.3	1.9	ND	ND	ND
19/02/2026	92.0	50.5	9.1	12.3	ND	17.4	15.7	2.6	2.1	ND	ND	ND
23/02/2026	91.3	49.0	7.4	13.7	ND	16.2	18.5	1.4	1.7	ND	ND	ND
26/02/2026	94.5	52.5	6.1	12.4	ND	14.8	17.2	2.2	1.2	ND	ND	ND
Max	94.50	53.20	12.40	13.70	ND	17.40	18.50	2.60	2.10	ND	ND	ND
Min	88.70	46.50	5.70	6.00	ND	10.10	11.20	1.20	1.00	ND	ND	ND
Mean	91.58	49.75	8.20	10.62	ND	14.38	15.80	1.84	1.50	ND	ND	ND
98 Percentile	94.44	53.45	11.94	13.53	ND	17.36	18.42	2.54	2.07	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

Krishan Rajput- Technical Manager



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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)	26/02/2026	40	1.15	11.41	242	28	24697.31	4.20	23.8	40.5	25.1	6.2
2	LLDPE-1 (Dowtherm B)	26/02/2026	40	1.15	11.71	248	28	25054.77	3.65	21.0	38.2	22.6	5.0
3	GCU- 1-FF-101	25/02/2026	37.5	1.5	10.79	176	27	45575.68	4.80	25.2	36.0	23.2	6.7
4	GCU- 1-FF-102	Under Shutdown	37.5	1.5	-	-	-	-	-	-	-	-	-
5	GCU- 1-FF-103	25/02/2026	37.5	1.5	10.67	172	27	45473.93	4.35	22.6	38.6	21.6	5.3
6	GCU- 1-FF-104	25/02/2026	37.5	1.5	10.72	182	27	44682.91	3.98	25.2	43.8	25.1	6.5
7	GCU- 1-FF-105	Under Shutdown	37.5	1.5	-	-	-	-	-	-	-	-	-
8	GCU- 1-FF-106	25/02/2026	37.5	1.5	10.86	174	27	46076.59	4.40	22.0	36.5	21.8	6.0
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	19/02/2026	100	3	10.61	148	30	191183.90	4.75	25.3	39.2	24.1	5.8
12	HRS-1	10/02/2026	60	4	10.76	172	25	326097.72	3.96	23.1	37.8	22.4	5.1
13	HRS-2	10/02/2026	60	4	10.90	179	25	325224.73	4.05	25.9	42.1	24.7	6.9
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	06/02/2026	50.73	2.3	10.37	159	21	107035.10	3.90	22.5	38.6	21.0	6.8
2	GCU- 2-FF-120	06/02/2026	50.73	2.3	10.55	163	21	107893.97	4.05	26.0	43.1	24.3	5.6
3	GCU- 2-FF-130	06/02/2026	50.73	2.3	10.72	157	21	111162.30	4.60	24.8	41.2	25.1	7.1
4	Power Plant-2-UB-1	12/02/2026	30.0	3.0	10.14	129	28	191350.64	3.75	21.5	39.7	22.9	6.2
5	Power Plant-2-UB-2	12/02/2026	30.0	3.0	10.33	133	28	193015.56	4.30	23.1	42.5	24.2	7.0
PERMISSIBLE LIMITS									5	50	250	100	-

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Krishan Rajput- Technical Manager



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Ambient Air Quality Monitoring Results										AAQ-1 (PC-2, 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)
03/03/2026	87.2	41.2	7.2	9.0	ND	10.4	15.6	1.3	0.9	ND	ND	ND
05/03/2026	90.3	42.3	6.1	7.2	ND	12.3	17.9	1.9	1.2	ND	ND	ND
09/03/2026	84.2	40.8	5.3	8.6	ND	10.4	14.1	0.9	1.0	ND	ND	ND
12/03/2026	90.1	42.4	7.7	9.0	ND	9.8	13.6	1.7	1.4	ND	ND	ND
16/03/2026	95.6	49.6	9.9	8.5	ND	13.3	19.9	2.9	0.8	ND	ND	ND
19/03/2026	81.4	40.2	7.5	9.2	ND	12.4	17.1	1.8	2.3	ND	ND	ND
23/03/2026	89.2	41.1	10.2	11.2	ND	15.5	18.8	3.1	0.7	ND	ND	ND
27/03/2026	93.7	44.5	6.8	10.3	ND	12.7	20.1	1.7	2.0	ND	ND	ND
Max	95.6	49.6	10.2	11.2	ND	15.5	20.1	3.1	2.3	ND	ND	ND
Min	81.4	40.2	5.3	7.2	ND	9.8	13.6	0.9	0.7	ND	ND	ND
Mean	88.87	43.19	7.62	9.14	ND	12.21	17.08	1.93	1.33	ND	ND	ND
98 Percentile	95.334	48.886	10.158	11.074	ND	15.192	20.072	3.072	2.258	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

Krishan Rajput- Technical Manager

