

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/E-00046/2025-26 & 06.05.2025
Sample Number	E-00046/25-26
Name of the Customer	M/s. HINDUSTAN OIL EXPLORATION COMPANY LIMITED(GAS PLANT),
Address	Pillaiyerumalallur, Near PPN Power Plant, Thirukadaiyur, Nagapattinam Dist - 609 311.
Sample Drawn by	Laboratory
Sample Name	Ambient Air
Sample Description	Ambient Air Quality
Sampling Location	NEAR WEIGH BRIDGE
Sample Drawn on	30.04.2025 & 09.30 to 17.30
Sample Received on	02.05.2025
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity	1 No
Equipment used for Sampling	Respirable Dust Sampler S.No :2941-DTL-2020 Fine Particulate Sampler S.No:1007-DTK-2020
Analysis Started on	02.05.2025
Analysis Completed on	06.05.2025

ENVIRONMENTAL CONDITION:

RELATIVE HUMIDITY	55%
AMBIENT TEMPERATURE	34°C
WIND SPEED	8.3 Km/hr
WIND DIRECTION	SE
WEATHER CONDITION	Clear Sky

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 (Part 24)	µg/m ³	23.8	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 (Part 23)	µg/m ³	54.1	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 (Part 2)	µg/m ³	7.4	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 (Part 6)	µg/m ³	14.6	80
5	OZONE (O ₃)	CTL/SOP/AIR/08	µg/m ³	32.0	180
6	LEAD (Pb)	IS 5182 (Part 22)	µg/m ³	BLQ(LOQ:0.05)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23	mg/m ³	BLQ(LOQ:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 (Part 25)	µg/m ³	16.7	400
9	ARSENIC (As)	CTL/SOP/AIR/06	ng/m ³	BLQ(LOQ:1.0)	6
10	NICKEL (Ni)	IS 5182 (Part 26)	ng/m ³	BLQ(LOQ:2.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 (Part 11)	µg/m ³	BLQ(LOQ:1.0)	5
12	BENZO(a)PYRENE	IS 5182 (Part 12)	ng/m ³	BLQ(LOQ:0.5)	1

*National Ambient Air Quality Standards - CPCB

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification:

END OF REPORT



The Report shall not be used for any other purpose and for any malicious purpose.
The Report is meant for the use of the addressee

For Chennai Testing Laboratory Pvt Ltd

Verified by

Authorised Signatory

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G. MANIKANDAN
SENIOR MANAGER
(CHEMICAL)

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/E-00047/2025-26 & 06.05.2025
Sample Number E-00047/25-26
Name of the Customer M/s. HINDUSTAN OIL EXPLORATION COMPANY LIMITED(GAS PLANT),
Address Pillaiperumalnallur, Near PPN Power Plant,
 Thirukadaiyur, Nagapattinam Dist - 609 311.

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality
Sampling Location NEAR SLUG CATCHER AREA
Sample Drawn on 30.04.2025 & 09.50 to 17.50
Sample Received on 02.05.2025
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity 1 No
Equipment used for Sampling Respirable Dust Sampler S.No :3240-DTG-2019
 Fine Particulate Sampler S.No:1150-A-22

Analysis Started on 02.05.2025
Analysis Completed on 06.05.2025

ENVIRONMENTAL CONDITION:

RELATIVE HUMIDITY 55%
AMBIENT TEMPERATURE 34°C
WIND SPEED 8.3 Km/hr
WIND DIRECTION SE
WEATHER CONDITION Clear Sky

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 (Part 24)	µg/m ³	19.6	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 (Part 23)	µg/m ³	44.9	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 (Part 2)	µg/m ³	3.2	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 (Part 6)	µg/m ³	9.8	80
5	OZONE (O ₃)	CTL/SOP/AIR/08	µg/m ³	28.3	180
6	LEAD (Pb)	IS 5182 (Part 22)	µg/m ³	BLQ(LOQ:0.05)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23	mg/m ³	BLQ(LOQ:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 (Part 25)	µg/m ³	10.4	400
9	ARSENIC (As)	CTL/SOP/AIR/06	ng/m ³	BLQ(LOQ:1.0)	6
10	NICKEL (Ni)	IS 5182 (Part 26)	ng/m ³	BLQ(LOQ:2.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 (Part 11)	µg/m ³	BLQ(LOQ:1.0)	5
12	BENZO(a)PYRENE	IS 5182 (Part 12)	ng/m ³	BLQ(LOQ:0.5)	1

*National Ambient Air Quality Standards - CPCB

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification:

END OF REPORT



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For Chennai Testing Laboratory Pvt Ltd

Verified by 

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/E-00048/2025-26 & 06.05.2025
Sample Number	E-00048/25-26
Name of the Customer	M/s. HINDUSTAN OIL EXPLORATION COMPANY LIMITED(GAS PLANT),
Address	Pillaiperumalnallur,Near PPN Power Plant, Thirukadaiyur,Nagapattinam Dist - 609 311.
Sample Drawn by	Laboratory
Sample Name	Ambient Air
Sample Description	Ambient Air Quality
Sampling Location	NEAR PRODUCED WATER TANK AREA
Sample Drawn on	30.04.2025 & 10.00 to 18.00
Sample Received on	02.05.2025
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Sample Quantity	1 No
Equipment used for Sampling	Respirable Dust Sampler S.No :179-C-22 Fine Particulate Sampler S.No:1134-A-22
Analysis Started on	02.05.2025
Analysis Completed on	06.05.2025

ENVIRONMENTAL CONDITION:

RELATIVE HUMIDITY	55%
AMBIENT TEMPERATURE	34°C
WIND SPEED	8.3 Km/hr
WIND DIRECTION	SE
WEATHER CONDITION	Clear Sky

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 (Part 24)	µg/m ³	21.4	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 (Part 23)	µg/m ³	46.5	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 (Part 2)	µg/m ³	5.3	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 (Part 6)	µg/m ³	11.1	80
5	OZONE (O ₃)	CTL/SOP/AIR/08	µg/m ³	31.7	180
6	LEAD (Pb)	IS 5182 (Part 22)	µg/m ³	BLQ(LOQ:0.05)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23	mg/m ³	BLQ(LOQ:1.15)	4
8	AMMONIA (NH ₃)	IS 5182 (Part 25)	µg/m ³	11.8	400
9	ARSENIC (As)	CTL/SOP/AIR/06	ng/m ³	BLQ(LOQ:1.0)	6
10	NICKEL (Ni)	IS 5182 (Part 26)	ng/m ³	BLQ(LOQ:2.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 (Part 11)	µg/m ³	BLQ(LOQ:1.0)	5
12	BENZO(a)PYRENE	IS 5182 (Part 12)	ng/m ³	BLQ(LOQ:0.5)	1

*National Ambient Air Quality Standards - CPCB

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification:

END OF REPORT



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For Chennai Testing Laboratory Pvt Ltd

Verified by

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai 600 032, Tamil Nadu, India

G. MANIKANDAN
SENIOR MANAGER
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/E-00049/2025-26 & 06.05.2025
Sample Number E-00049/25-26
Name of the Customer M/s. HINDUSTAN OIL EXPLORATION COMPANY LIMITED(GAS PLANT),
Address Pillaiperumalnallur, Near PPN Power Plant,
Thirukadaiyur, Nagapattinam Dist - 609 311.

Sample Drawn by Laboratory
Sample Name Stack Emission
Sample Description Stack
Sampling Location Stack attached with GG-B 380 KVA
Sample Drawn on 30.04.2025
Sample Received on 02.05.2025
Sampling Plan & Procedure CTL/QSP/F-89 & IS 11255
Sample Quantity 1 No
Equipment used for Sampling Stack Kit S.No:288 DTI 2020
Analysis Started on 02.05.2025
Analysis Completed on 06.05.2025

PHYSICAL PARAMETERS:

STACK HEIGHT (m) 30
STACK TEMPERATURE (K) 467.0
STACK VELOCITY (m/s) 14.6
STACK GAS FLOW RATE (Nm³/hr) 14006.0
DIAMETER OF STACK AT PORTHOLE (m) 0.73
*APCM STATUS AT THE TIME OF SAMPLING Nil

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS	TNPCB LIMITS
1	OXIDES OF NITROGEN NO _x (as NO ₂)	IS 11255 (PART 7)	mg/Nm ³	245	**
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 (PART 2)	mg/Nm ³	20	**
3	PARTICULATE MATTER(PM)	IS 11255 (PART 1)	mg/Nm ³	25.3	150
4	CARBON DIOXIDE (CO ₂)	CTL/SOP/STACK/010 (Flue Gas Analyser)	%	12.5	**
5	CARBON MONOXIDE (CO)		%	0.1	**
6	OXYGEN (O ₂)		%	8.1	**

*Air Pollution Control Measures

**Depending on the local situation, state pollution control board will prescribe the standards.

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END OF REPORT



For Chennai Testing Laboratory Pvt Ltd

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G. MANIKANDAN
SENIOR MANAGER
(CHEMICAL)



CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/E-00050/2025-26 & 06.05.2025
Sample Number E-00050/25-26
Name of the Customer M/s. HINDUSTAN OIL EXPLORATION COMPANY LIMITED(GAS PLANT),
Address Pillaiperumalnallur, Near PPN Power Plant,
Thirukadaiyur, Nagapattinam Dist - 609 311.

Sample Drawn by Laboratory
Sample Name Noise
Sample Description AMBIENT NOISE
Sample Drawn on 30.04.2025
Sampling Plan & Procedure CTL/QSP/F-89 & IS 9989
Equipment used for Sampling Sound Level Meter: S.No:554062

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL.NO	LOCATION	NOISE LEVEL dB (A)			LIMITS*
		Min	Max	Leq	Leq
1	NEAR ADMIN BUILDING	43.5	47.9	46.0	55 dB (A)
2	NEAR FIRE STATION	42.8	47.1	45.3	
3	NEAR STP AREA	53.8	55.3	54.5	
4	NEAR SLUG CATCHER AREA	41.3	46.5	44.4	

* CPCB Limits (Day Time)

END OF REPORT



For Chennai Testing Laboratory Pvt Ltd

Verified by

Authorised Signatory

G.MANIKANDAN
SENIOR MANAGER
(CHEMICAL)

Page 1 of 1

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/W-00633/2025-26 & 06.05.2025
Sample Number	W-00633/25-26
Name of the Customer	M/s. HINDUSTAN OIL EXPLORATION COMPANY LIMITED(GAS PLANT),
Address	Pillaiperumalnallur, Near PPN Power Plant, Thirukadaiyur, Nagapattinam Dist - 609 311.
Sample Drawn by	Laboratory
Sample Name	Sewage Water
Sample Description	Treated Sewage Water
Sampling Location	STP Plant
Sample Drawn on	30.04.2025
Sampling Plan & Procedure	CTL/QSP/09
Sample Quantity	2 Litres
Sample Condition	Good & Received in Plastic container
Environmental Conditions	Temperature- 34.0°C and Humidity- 57.2%
Equipment used for Sampling	NA
Sample Received on	02.05.2025
Analysis Started on	02.05.2025
Analysis Completed on	06.05.2025

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL

GROUP : POLLUTION AND ENVIRONMENT

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	4500 H+ B- APHA 24th Edn	-	7.3	5.5 to 9.0
2	Total Suspended Solids (TSS)	2540 D- APHA 24th Edn	mg/l	6	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days @ 27°C	IS 3025 (Part 44)	mg/l	4	Max.20

Max. - Maximum

*Limits as per TNPCB for Treated Sewage

END OF REPORT



For Chennai Testing Laboratory Pvt Ltd

A. Raj Kumar
Authorised Signatory
SENIOR MANAGER
(CHEMICAL)

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