

CIN: U74999TN2008PTC067568

TEST REPORT

Report Number and date	CTL/CH/1932/2022-23 & 30.	CTL/CH/1932/2022-23 & 30.09.2022			
Sample Number	1932/22-23	1932/22-23			
	M/s. HINDUSTAN OIL EXPLOR	ATION COMPANY LIMITED(GAS P	LANT),		
Customer Name & Address	Pillaiperumalnallur,Near PPN Powe	Pillaiperumalnallur,Near PPN Power Plant,			
	Thirukadaiyur, Nagapattinam Dist - 609 311.				
SAMPLE DETAILS					
Sample Description	Ambient Air Quality	Ambient Air Quality			
Sampling Location	NEAR FIRE STATION AREA				
Sampling Method	IS 5182 (Part V) and (Part XIV)	Sampled By	Chennai Testing Laboratory Pvt. Ltd.,		
Sampling Date & Time	24.09.2022 & 09.00 to 18.00		•		
Date of Receipt	25.09.2022	25.09.2022 Sample Condition Good			
Analysis Starting Date	26.09.2022	Analysis Completion Date	30.09.2022		

ENVIRONMENTAL CONDITION:

RELATIVE HUMIDITY

57%

AMBIENT TEMPERATURE

34°C

WIND SPEED

5.7 Km/hr

WIND DIRECTION

SW

WEATHER CONDITION

Clear Sky

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	CTL/SOP/AIR/03 - 2016	μg/m³	21.1	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006	µg/m³	49.0	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001	µg/m³	9.5	80
4	OXIDES OF NITROGEN (NOx)	IS 5182 Part 6 - 2006	µg/m³	18.9	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	μg/m³	23.2	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004	µg/m³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	CTL/SOP/AIR/07- 2016 (INDOPHENOL METHOD)	μg/m³	22.4	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m³	BDL(DL:1.0)	6
10	NICKEL (Ni)	CTL/SOP/AIR/06 - 2016	ng/m³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006	μg/m³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004	ng/m³	BDL(DL:0.5)	1

*National Ambient Air Quality Standards - CPCB

BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

The Report shall not be used to malign, defame and for any malicious purpose. The Report is meant only for sole use of the addressee to promote his/her own business.

A - Super 19 | T.V.K. Industrial Estate | Guindy | E-mail : chennait stingle of mail : chennait : chenn

Chennai - 600 032 | Tamil Nadu | India | Telefax : +91-#4ead 50 nwinonment Division

Page 1 of 1

(CHEMICAL)



CIN: U74999TN2008PTC067568

TEST REPORT

Report Number and date	CTL/CH/1933/2022-23 & 30.0	CTL/CH/1933/2022-23 & 30.09.2022			
Sample Number	1933/22-23	1933/22-23			
	M/s. HINDUSTAN OIL EXPLORA	ATION COMPANY LIMITED(GAS PLANT	"),		
Customer Name & Address	Pillaiperumalnallur,Near PPN Power Plant,				
	Thirukadaiyur,Nagapattinam Dist - 609 311.				
SAMPLE DETAILS					
Sample Description	Ambient Air Quality				
Sampling Location	NEAR PRODUCED WATER TANK	AREA			
Sampling Method	IS 5182 (Part V) and (Part XIV)	Sampled By	Chennai Testing Laboratory Pvt. Ltd.,		
Sampling Date & Time	24.09.2022 & 09.15 to 18.15				
Date of Receipt	25.09.2022 Sample Condition Good				
Analysis Starting Date	26.09.2022	Analysis Completion Date	30.09.2022		

ENVIRONMENTAL CONDITION:

RELATIVE HUMIDITY

57%

AMBIENT TEMPERATURE

34°C

WIND SPEED

5.7 Km/hr

WIND DIRECTION

SW

WEATHER CONDITION

Clear Sky

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	CTL/SOP/AIR/03 - 2016	μg/m³	16.5	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006	µg/m³	37.0	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001	µg/m³	BDL(DL:3.0)	80
4	OXIDES OF NITROGEN (NOx)	IS 5182 Part 6 - 2006	µg/m³	9.8	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	μg/m³	18.8	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004	μg/m³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	CTL/SOP/AIR/07- 2016 (INDOPHENOL METHOD)	μg/m³	12.8	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m³	BDL(DL:1.0)	6
10	NICKEL (Ni)	CTL/SOP/AIR/06 - 2016	ng/m³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006	μg/m³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004	ng/m³	BDL(DL:0.5)	1

National Ambient Air Quality Standards - CPCB

BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

The Report shall not be used to malign, defame and for any malicious purpose.

The Report is meant only for sole use of the addressee to promote his/her own business.

Authorised Signatory

A - Super 19 | T.V.K. Industrial Estate | Guindy | E-mail : chennalises the literature.

Chennai - 600 032 | Tamil Nadu | India Telefax : +91+646225011757 ment Division



CIN: U74999TN2008PTC067568

TEST REPORT

Report Number and date	CTL/CH/1934/2022-23 & 30.0	CTL/CH/1934/2022-23 & 30.09.2022			
Sample Number	1934/22-23	1934/22-23			
	M/s. HINDUSTAN OIL EXPLOR	ATION COMPANY LIMITED(GAS PLANT	τ),		
Customer Name & Address	Pillaiperumalnallur,Near PPN Power Plant,				
	Thirukadaiyur,Nagapattinam Dist - 609 311.				
SAMPLE DETAILS					
Sample Description	Ambient Air Quality				
Sampling Location	NEAR SLUG CATCHER AREA				
Sampling Method	IS 5182 (Part V) and (Part XIV)	Sampled By	Chennai Testing Laboratory Pvt. Ltd.,		
Sampling Date & Time	24.09.2022 & 09.25 to 18.25				
Date of Receipt	25.09.2022 Sample Condition Good				
Analysis Starting Date	26.09.2022	Analysis Completion Date	30.09.2022		

ENVIRONMENTAL CONDITION:

RELATIVE HUMIDITY

57%

AMBIENT TEMPERATURE

34°C

WIND SPEED

5.7 Km/hr

WIND DIRECTION

SW

WEATHER CONDITION

Clear Sky

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	CTL/SOP/AIR/03 - 2016	μg/m³	17.2	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006	μg/m³	39.4	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001	μg/m³	3.2	80
4	OXIDES OF NITROGEN (NOx)	IS 5182 Part 6 - 2006	μg/m³	14	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	μg/m³	11	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004	µg/m³	BDL(DL:0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m³	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	CTL/SOP/AIR/07- 2016 (INDOPHENOL METHOD)	μg/m³	17.6	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m³	BDL(DL:1.0)	6
10	NICKEL (Ni)	CTL/SOP/AIR/06 - 2016	ng/m³	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	IS 5182 PART 11 - 2006	μg/m³	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004	ng/m³	BDL(DL:0.5)	1

*National Ambient Air Quality Standards - CPCB

BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

The Report shall not be used to malign, defame and for any malicious purpose.

Chennai - 600 032 | Tamil Nadu | India | Telefax : +91Hear 2550mvitonment Division

The Report is meant only for sole use of the addressee to promote his/her own business.

A - Super 19 | T.V.K. Industrial Estate | Guindy | E-mail : chennates in a body and the control of the control o

Page 1 of 1

(CHEMICAL)



CIN: U74999TN2008PTC067568

TEST REPORT

Report Number and date	CTL/CH/1935/2022-23 8	CTL/CH/1935/2022-23 & 30.09.2022		
Sample Number	1935/22-23	1935/22-23		
	M/s. HINDUSTAN OIL EX	PLORATION COMPANY LIMITED(GA	AS PLANT),	
Customer Name & Address	Pillaiperumalnallur,Near PPN Power Plant, Thirukadaiyur,Nagapattinam Dist - 609 311.			
SAMPLE DETAILS				
Sample Description	Stack	Stack		
Sampling Location	Stack attached with GG -:	380 KVA - B		
Sampling Method	IS 11255			
Sampling Date	24.09.2022	Sampled By	Chennai Testing Laboratory Pvt. Ltd.,	
Date of Receipt	25.09.2022 Sample Condition Good			
Analysis Starting Date	26.09.2022	Analysis Completion Date	30.09.2022	

PHYSICAL PARAMETERS:

STACK HEIGHT (m)

30

STACK TEMPERATURE (K)

433.0

STACK VELOCITY (m/s)

14.0

STACK GAS FLOW RATE (Nm³/hr)

14504.1

DIAMETER OF STACK AT PORTHOLE (m)

0.73

*APCM STATUS AT THE TIME OF SAMPLING

Nil

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS	TNPCB LIMITS
1	OXIDES OF NITROGEN NOx (as NO ₂)	IS 11255 PART 7 2005	mg/Nm³	202	**
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 PART 2 1985	mg/Nm³	17	**
3	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985	mg/Nm³	33.0	150
4	CARBON DIOXIDE (CO ₂)		%	11.7	**
5	CARBON MONOXIDE (CO)	CTL/SOP/STACK/010-2016 (Flue Gas Analyser)	%	0.4	.**
6	OXYGEN (O₂)		%	8.0	**

^{*}Air Pollution Control Measures

BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

The Report shall not be used to malign, defame and for any malicious purposethorised-Signatory

The Report is meant only for sole use of the addressee to promote his/her own busing. MANIKANDAN

Page 1 of 1

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



CIN: U74999TN2008PTC067568

TEST REPORT

Report Number and date	CTL/CH/1936/2022-23 8	CTL/CH/1936/2022-23 & 30.09.2022			
Sample Number	1936/22-23	1936/22-23			
	M/s. HINDUSTAN OIL EX	PLORATION COMPANY LIMITED(GA	AS PLANT),		
Customer Name & Address	Pillaiperumalnallur,Near PPN Power Plant,				
	Thirukadaiyur,Nagapattinam Dist - 609 311.				
SAMPLE DETAILS					
Sample Description	Stack				
Sampling Location	Stack attached with HOT	OIL HEATER			
Sampling Method	IS 11255				
Sampling Date	24.09.2022	Sampled By	Chennai Testing Laboratory Pvt. Ltd.,		
Date of Receipt	25.09.2022 Sample Condition Good				
Analysis Starting Date	26.09.2022	Analysis Completion Date	30.09.2022		

PHYSICAL PARAMETERS:

STACK HEIGHT (m)

20

STACK TEMPERATURE (K)

356.0

STACK VELOCITY (m/s)

10.0

STACK GAS FLOW RATE (Nm³/hr)

3783.3

DIAMETER OF STACK AT PORTHOLE (m)

0.4

*APCM STATUS AT THE TIME OF SAMPLING

Nil

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS	TNPCB LIMITS
1	OXIDES OF NITROGEN NOx (as NO ₂)	IS 11255 PART 7 2005	mg/Nm³	58	**
2	SULPHUR DIOXIDE (SO₂)	IS 11255 PART 2 1985	mg/Nm³	26	**
3	PARTICULATE MATTER(PM)	IS 11255 PART 1 1985	mg/Nm³	9.0	150
4	CARBON DIOXIDE (CO ₂)		%	0.9	**
5	CARBON MONOXIDE (CO)	CTL/SOP/STACK/010-2016 (Flue Gas Analyser)	mg/Nm³	BDL(DL:5.0)	**
6	OXYGEN (O₂)		%	19.7	**

^{*}Air Pollution Control Measures

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

Page 1 of 1

^{**}Depending on the local situation, state pollution control board will prescribe the standards. BDL - Below Detection Limit(D.L - Detection Limit)



CIN: U74999TN2008PTC067568

TEST REPORT

Report	Number and date	CTL/CH/1937/2	2022-23 & 30.09.	2022		
Sample	e Number	1937/22-23				
		M/s. HINDUSTA	N OIL EXPLORAT	TON COMPANY LIMIT	ED(GAS PLANT),	
Custon	ner Name & Address	Pillaiperumalnallur	,Near PPN Power P	lant,		
		Thirukadaiyur,Nag	apattinam Dist - 60	9 311.		
		SAMPLE	DETAILS			
Sample	Description	AMBIENT NOISE				
Sample	d By	Chennai Testing Laboratory Pvt. Ltd.,				
Samplir	ng Date	24.09.2022				
Samplir	ng Method	IS 9989 & CTL/SO	9989 & CTL/SOP/INS/035			
SL.NO	LOCATION	NOISE LEVEL dB (A)			LIMITS*	
SL.NO	LOCATION	Min	Max	Leq	Leq	
1	NEAR ADMIN BUILDING	44.2	48.3	46.7		
2	NEAR FIRE STATION	43.4	49.5	46.8	55 dB (A)	
3	NEAR STP AREA	50.4	53.4	51.9		
4	NEAR SLUG CATCHER AREA	44.3	47.4	46.0		

* CPCB Limits (Day Time)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

G. MANIKANDAN

Page 1 of 1

Head - Environment Division (CHEMICAL)



CIN: U74999TN2008PTC067568

www.ctllabs.in www.foodenvironmenttesting.com

TEST REPORT

Report Number and date	CTL/CH/1938/2022-23 & 30.09.2022			
Sample Number	1938/22-23			
M/s.Hindustan Oil Exploration Company Limited,				
Customer Name & Address	HOEC PY - 1 Plant (Gas Plant), Pillaiperumalnallur, Near PPN Power Plant, Thirukadaiyur, Nagapattinam Dist 609 311.			
SAMPLE DETAILS				
Sample Description By Customer	Raw Sewage Water			
Sampling Location	STP Plant			
Sampling Date	24.09.2022	Sampled By	Chennai Testing Laboratory Pvt. Ltd.,	
Quantity Received	2 Litres	Sampling Method	CTL/QSP/09	
Date of Receipt	25.09.2022 Sample Condition Good & Received in Plastic Container			
Analysis Starting Date	25.09.2022	Analysis Completion Date	30.09.2022	

Test Results:

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

S. NO	PARAMETERS METHOD		UNITS	RESULTS
1	pH @ 25°C 4500-H+-B APHA 23 rd Edn. 20		-	7.3
2	Total Suspended Solids (TSS)	2540-D- APHA 23 rd Edn. 2017	mg/l	192
3	Biochemical Oxygen Demand (BOD) 3 days @ 27°C	5210-B APHA 23 rd Edn. 2017	mg/l	170

END OF REPORT

For Chennai Testing Laboratory Pvt ltd

Authorised Signatory

A. RAJKUMAR

Technical Manager (CHEMICAL)

Page 1 of 1



CIN: U74999TN2008PTC067568

TEST REPORT

Report Number and date	CTL/CH/1939/2022-23 & 30.09.2022						
Sample Number	1939/22-23						
	M/s.Hindustan Oil Exploration Company Limited,						
Customer Name & Address		HOEC PY - 1 Plant (Gas Plant), Pillaiperumalnallur, Near PPN Power Plant, Thirukadaiyur, Nagapattinam Dist 609 311.					
SAMPLE DETAILS							
Sample Description By Customer	cription By Customer Treated Sewage Water						
ampling Location STP Plant							
Sampling Date	24.09.2022		Sampled By	Chennai Testing Laboratory Pvt. Ltd.,			
Quantity Received	2 Litres		Sampling Method	CTL/QSP/09			
Date of Receipt	25.09.2022		Sample Condition	Good & Received in Plastic Container			
Analysis Starting Date	25.09.2022		Analysis Completion Date	30.09.2022			

Test Results:

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

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	рН @ 25°C	4500-H+-B APHA 23 rd Edn. 2017	-	7.2	5.5 to 9.0
2	Total Suspended Solids (TSS)	2540-D- APHA 23 rd Edn. 2017	mg/l	16	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days @ 27°C	5210-B APHA 23 rd Edn. 2017	mg/l	12	Max.20

Max. - Maximum

END OF REPORT

For Chennai Testing Laboratory Pvt ltd

A. RAJKUMAR Technical Manager

www.ctllabs.in

Page 1 of 1

(CHEMICAL)

^{*}Limits as per TNPCB for Treated Sewage