



CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/E-00199/2025-26 & 01.08.2025
Sample Number E-00199/25-26
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 WEIGH BRIDGE
Sample Drawn on 25.07.2025 & 09.50 to 17.50
Sample Received on 26.07.2025
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 :2937-DTL-2020
Fine Particulate Sampler S.No:1004-DTK-2020
Analysis Started on 26.07.2025
Analysis Completed on 01.08.2025

ENVIRONMENTAL CONDITION:

RELATIVE HUMIDITY 53%
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	24.8	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 (Part 23)	µg/m ³	56.5	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 (Part 2)	µg/m ³	9.6	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 (Part 6)	µg/m ³	18.3	80
5	OZONE (O ₃)	CTL/SOP/AIR/08	µg/m ³	37.7	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	15.2	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



For Chennai Testing Laboratory Pvt Ltd

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/E-00200/2025-26 & 01.08.2025
Sample Number E-00200/25-26
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 25.07.2025 & 09.35 to 17.35
Sample Received on 26.07.2025
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 :3239-DTG-2019
Fine Particulate Sampler S.No:1147-A-22

Analysis Started on 26.07.2025
Analysis Completed on 01.08.2025

ENVIRONMENTAL CONDITION:

RELATIVE HUMIDITY 53%
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	20.2	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 (Part 23)	µg/m ³	46.4	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 (Part 2)	µg/m ³	4.3	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 (Part 6)	µg/m ³	10.5	80
5	OZONE (O ₃)	CTL/SOP/AIR/08	µg/m ³	31.3	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	11.0	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



For Chennai Testing Laboratory Pvt Ltd

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G. MANIKANDAN
SENIOR MANAGER
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/E-00201/2025-26 & 01.08.2025
Sample Number E-00201/25-26
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 25.07.2025 & 09.45 to 17.45
Sample Received on 26.07.2025
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 :2932-DTL-2020
Fine Particulate Sampler S.No:1000-DTK-2020

Analysis Started on 26.07.2025
Analysis Completed on 01.08.2025

ENVIRONMENTAL CONDITION:

RELATIVE HUMIDITY 53%
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	23.6	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 (Part 23)	µg/m ³	49.2	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 (Part 2)	µg/m ³	6.4	80
4	OXIDES OF NITROGEN (NO _x)	IS 5182 (Part 6)	µg/m ³	11.9	80
5	OZONE (O ₃)	CTL/SOP/AIR/08	µg/m ³	35.0	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	13.8	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

Authorised Signatory

G. MANIKANDAN
SENIOR MANAGER
(CHEMICAL)

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TEST REPORT

Test Report No & Date	CTL/CH/E-00202/2025-26 & 01.08.2025
Sample Number	E-00202/25-26
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	25.07.2025
Sample Received on	26.07.2025
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	26.07.2025
Analysis Completed on	01.08.2025

PHYSICAL PARAMETERS:

STACK HEIGHT (m)	30
STACK TEMPERATURE (K)	538.0
STACK VELOCITY (m/s)	16.0
STACK GAS FLOW RATE (Nm ³ /hr)	13323.4
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	296	**
2	SULPHUR DIOXIDE (SO ₂)	IS 11255 (PART 2)	mg/Nm ³	23	**
3	PARTICULATE MATTER(PM)	IS 11255 (PART 1)	mg/Nm ³	28.5	150
4	CARBON DIOXIDE (CO ₂)	CTL/SOP/STACK/010 (Flue Gas Analyser)	%	12.4	**
5	CARBON MONOXIDE (CO)		%	0.11	**
6	OXYGEN (O ₂)		%	8.3	**

*Air Pollution Control Measures

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

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

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For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

G. MANIKANDAN
SENIOR MANAGER
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/E-00203/2025-26 & 01.08.2025
Sample Number E-00203/25-26
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 25.07.2025
Sampling Plan & Procedure CTL/QSP/F-89 & IS 9989
Equipment used for Sampling Sound Level Meter: S.No:395-DTH-23

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	44.6	47.1	45.8	55 dB (A)
2	NEAR FIRE STATION	43.6	46.7	45.1	
3	NEAR STP AREA	53.9	54.8	54.4	
4	NEAR SLUG CATCHER AREA	43.8	47.3	45.7	

* CPCB Limits (Day Time)

END OF REPORT

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For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

G.MANIKANDAN
SENIOR MANAGER
(CHEMICAL)

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CIN : U93000TN2000PTC043869



TEST REPORT

Test Report No & Date	CTL/CH/W-02567/2025-26 & 01.08.2025
Sample Number	W-02567/25-26
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	25.07.2025
Sampling Plan & Procedure	CTL/QSP/09
Sample Quantity	2 Litres
Sample Condition	Good & Received in Plastic container
Environmental Conditions	Temperature- 35.0°C and Humidity- 58.0%
Equipment used for Sampling	NA
Sample Received on	26.07.2025
Analysis Started on	26.07.2025
Analysis Completed on	01.08.2025

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	-	7.1	5.5 to 9.0
2	Total Suspended Solids (TSS)	2540 D- APHA 24th Edn	mg/l	8	Max.30
3	Biochemical Oxygen Demand (BOD) 3 days @ 27°C	IS 3025 (Part 44)	mg/l	6	Max.20

Max. - Maximum

*Limits as per TNPCB for Treated Sewage

END OF REPORT



For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

A. RAJ KUMAR
SENIOR MANAGER
(CHEMICAL)

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date CTL/CH/W-02568/2025-26 & 01.08.2025
Sample Number W-02568/25-26
Name of the Customer M/s.Hindustan Oil Exploration Company Limited,
Address HOEC PY - 1 Plant (Gas Plant), Pillaiperumalnallur,
Near PPN Power Plant, Thirukadaiyur, Nagapattinam Dist. - 609 311.

Sample Drawn by Laboratory
Sample Name Water
Sample Description Produced Water (Outlet)
Sampling Location Produced Water Plant
Sample Drawn on 25.07.2025
Sampling Plan & Procedure CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic container
Environmental Conditions Temperature- 35.0°C and Humidity- 58.0%
Equipment used for Sampling NA
Sample Received on 26.07.2025
Analysis Started on 26.07.2025
Analysis Completed on 01.08.2025

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	Total Suspended Solids	2540 D- APHA 24th Edn	mg/l	28	Max.30
2	Particle Size of Suspended Solids	CTL/SOP/WATER/61	-	Passed through IS 850 micron Sieve	Shall pass 850 micron I.S. Sieve
3	Total Dissolved Solids	2540 C- APHA 24th Edn	mg/l	21842	-
4	pH @ 25°C	4500 H+ B- APHA 24th Edn	-	7.3	5.5 to 9.0
5	Temperature	2550 B- APHA 24th Edn	°C	30.6	Max.45
6	Oil & Grease	5520 O&G B- APHA 24th Edn (Partition Gravimetric Method)	mg/l	6	Max.20
7	Total Residual Chlorine	4500 Cl B- APHA 24th Edn	mg/l	BLQ(LOQ:0.1)	Max.1.0
8	Ammonical Nitrogen as N	4500 NH3 B, C - APHA 24th Edn	mg/l	6.8	Max.50
9	Total Kjeldahl Nitrogen as N	4500 N - B, C- APHA 24th Edn	mg/l	15.3	Max.100
10	Free Ammonia as NH ₃	CTL/SOP/WATER-066	mg/l	0.15	Max.5.0
11	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)	mg/l	58	20 - 100
12	Chemical Oxygen Demand (COD)	5220 B- APHA 24th Edn	mg/l	240	Max.250
13	Hexavalent Chromium as Cr ⁶⁺	3500 Cr B- APHA 24th Edn	mg/l	BLQ(LOQ:0.01)	Max.1.0
14	Percent Sodium	CTL/SOP/WATER/60	%	86.21	-
15	Residual Sodium Carbonate	IS 11624	meq/l	Nil	-
16	Cyanide as CN	4500 CN-C, E - APHA 24th Edn	mg/l	BLQ(LOQ:0.01)	Max.0.2
17	Chloride as Cl	4500 Cl- B- APHA 24th Edn	mg/l	10123	-
18	Fluoride as F	4500 F B, D - APHA 24th Edn	mg/l	1.40	Max.1.5



For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

A. RAJ KUMAR
SENIOR MANAGER
(CHEMICAL)

Page 1 of 2

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CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/W-02568/2025-26 & 01.08.2025
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
19	Dissolved Phosphate as P	4500 P B, D- APHA 24th Edn	mg/l	0.82	-
20	Sulphate as SO ₄	4500 SO4 E- APHA 24th Edn	mg/l	985	Max.1000
21	Sulphide as S	4500- S2 –F- APHA 24th Edn	mg/l	0.42	Max.5.0
22	Phenolic Compounds as C ₆ H ₅ OH	5530 B,C- APHA 24th Edn	mg/l	BLQ(LOQ:0.001)	Max.5.0
23	Boron as B	4500 B/B- APHA 24th Edn	mg/l	1.89	Max.2.0
24	Arsenic as As	3120 -B- APHA 24th Edn	mg/l	BLQ(LOQ:0.01)	Max.0.2
25	Cadmium as Cd		mg/l	BLQ(LOQ:0.02)	Max.2.0
26	Total Chromium as Cr		mg/l	BLQ(LOQ:0.02)	Max.1.0
27	Copper as Cu		mg/l	0.38	Max.3.0
28	Lead as Pb		mg/l	0.28	Max.1.0
29	Mercury as Hg		mg/l	BLQ(LOQ:0.001)	Max.0.01
30	Nickel as Ni		mg/l	0.12	Max.3.0
31	Selenium as Se		mg/l	BLQ(LOQ:0.005)	Max.0.05
32	Zinc as Zn		mg/l	0.43	Max.1.5
33	Organic Solids	2540 -E-APHA 24th Edn	mg/l	102	-
34	Inorganic Solids		mg/l	21842	-
35	Pesticide Residues:				
	Alachlor	CTL/SOP/WATER/101	µg/l	Absent	Absent
	Aldrin		µg/l	Absent	
	Dieldrin		µg/l	Absent	
	Alpha HCH		µg/l	Absent	
	Beta HCH		µg/l	Absent	
	Butachlor		µg/l	Absent	
	Chlorpyriphos		µg/l	Absent	
	Delta HCH		µg/l	Absent	
	o,p'-DDT		µg/l	Absent	
	p,p'-DDT		µg/l	Absent	
	p,p'-DDE		µg/l	Absent	
	o,p'-DDE		µg/l	Absent	
	o,p'-DDD		µg/l	Absent	
	p,p'-DDD		µg/l	Absent	
	Endosulfan alpha		µg/l	Absent	
	Endosulfan Beta		µg/l	Absent	
	Endosulfan Sulfate		µg/l	Absent	
	Ethion		µg/l	Absent	
	Gamma HCH (Lindane)		µg/l	Absent	
	Methyl Parathion		µg/l	Absent	
	Monocrotophos		µg/l	Absent	

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification: Max. - Maximum

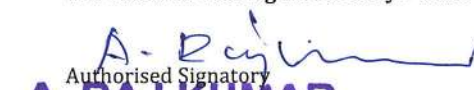
*For Total Pesticides, BLQ(LOQ) is considered as Absent.

*Limits as per TNPCB

END OF REPORT

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For Chennai Testing Laboratory Pvt Ltd


A. RAJ KUMAR
SENIOR MANAGER
(CHEMICAL)

Page 2 of 2

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CIN : U93000TN2000PTC043869



TEST REPORT

Test Report No & Date CTL/CH/W-02569/2025-26 & 01.08.2025
Sample Number W-02569/25-26
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 Sea Water
Sample Description Marine Water
Sampling Location NA
Sample Drawn on 25.07.2025
Sampling Plan & Procedure CTL/QSP/09
Sample Quantity 2 Litres
Sample Condition Good & Received in Plastic container
Environmental Conditions Temperature- 35.0°C and Humidity- 58.0%
Equipment used for Sampling NA
Sample Received on 26.07.2025
Analysis Started on 26.07.2025
Analysis Completed on 01.08.2025

Test Results:

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

DISCIPLINE : BIOLOGICAL

GROUP : WATER

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Phytoplankton	IS 1622	Cells/ml	Present
2	Zooplankton		Organisms/ml	Present
3	Total Coliform	9221-B-APHA 24 th Edn.	MPN/100ml	17
4	E. coli	9221-F-APHA 24 th Edn.	MPN/100ml	< 1.8

Verified by

For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

R. JAYAVARTHANAM
Manager
(MICROBIOLOGY)

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TEST REPORT

Test Report No & Date	CTL/CH/W-02569/2025-26 & 01.08.2025
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
5	Total Viable Count	IS 1622	CFU/ml	2800
6	Vibrio parahaemolyticus	IS 5887 (Part 5)	Per 250ml	Absent
7	Vibrio cholerae	IS 5887 (Part 5)	Per 250ml	Absent
8	Salmonella	IS 5887 (Part 3)	Per 250ml	Absent
9	Bioassay test [#]	CTL/SOP/WATER/201	-	Complies
10	Chlorophyll	10150-B-APHA 24 th Edn.	mg/m ³	1.39
11	Benthos	10500-D-APHA 24 th Edn.	No/m ²	Absent

#90% survival of fish after 96 hrs in 100% effluent

END OF REPORT

Verified by 

For Chennai Testing Laboratory Pvt Ltd


Authorised Signatory

R. JAYAVARTHANAN
Manager
(MICROBIOLOGY)

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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

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