

TEST REPORT



ULR No : NA		Test Report No : NSEL170826NA070	
Type of Sample # : Stack Emission			
Reference Type : Work Order No		Reference No : 5100044398 Dt.: 18/11/2025	
Customer Name #	Power Mech Projects Limited.		
Customer Address #	Vedanta Power Limited, Talwandi Sabo Thermal Plant. 3x660MW Thermal Power Plant, Banawala, District Mansa, Punjab-151302.	Period of Sampling	13/08/2026 - 13/08/2026
Sampling Protocol	IS 11255, CPCB: LATS/80/2013-14	Date of Sample Receipt	17/08/2026
Mode of Collection of Sample	Sample collected by Laboratory Mr. Prabhjot Singh	Period of Analysis	17/08/2026 - 22/08/2026
Source of Emission	Boiler Stack (Unit-1; Third Unit) 660 MW	Date of reporting	22/08/2026
Stack Description	Single, Circular & Metal	Fuel Used	Coal + Biomass
Point of Sample Collection	From Port Hole after APCD	APCD Details (If provided)	ESP followed with Fabric Filter
Standard/Specifications	Thermal Power Plant : EPA 1986, Sr. No. 25		
Testing Location	On Site & Permanent Facility		

RESULTS

1. Chemical Testing

I. Atmospheric Pollution (Stack Emission)

Sr.No	Test Parameter	Unit	Result	Standard	Test Method
1	Particulate Matter (at 6% O ₂ Corr.)	mg/Nm ³	30	50(max.)	IS 11255 (Part-1)
2	Sulphur dioxide as SO ₂ (at 6% O ₂ Corr.)	mg/Nm ³	1065	Not Specified	EL-QTM-08
3	Oxides of Nitrogen (at 6% O ₂ Corr.)	mg/Nm ³	168	450(max.)	EL-QTM-08
4	Mercury as Hg	mg/Nm ³	BDL (0.01)	0.03(max.)	USEPA Method 29
5	Flue gas velocity	m/s	25.3	Not Specified	IS 11255 : Part 3
6	Moisture	%	15.2	Not Specified	IS 11255 : Part 3
7	Temperature	°C	131	Not Specified	IS 11255 : Part 3
8	Oxygen as O ₂	%	6.5	Not Specified	EL-QTM-08
9	Carbon dioxide as CO ₂	%	10.5	Not Specified	EL-QTM-08
10	Carbon Monoxide as CO	mg/Nm ³	BDL (5)	Not Specified	EL-QTM-08

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TEST REPORT



ULR No : NA

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Type of Sample # : Stack Emission

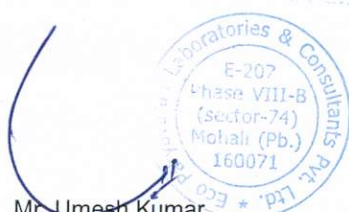
Remarks : NA

****End of Report****

OTHER INFORMATION

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4. Complaint log book is with Quality Cell. Contact No. (M) 91 8872 04 3135, Phone 91 172 4616 225 Email: quality@ecoparyavaran.org
5. The samples tested may be preserved for a period but not exceeding 7 days from date of reporting, unless otherwise specifically desired by the customer or regulatory authorities. However, depending upon the nature of samples and effect of preservation the test results of preserved samples may vary. Laboratory also does not assume any responsibility in the test results of samples kept on hold for want of clarification.
6. All disputes are subjected to jurisdiction of Mohali (Punjab) India and maximum liability of the laboratory does not exceed the testing and sampling charges.
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TEST REPORT



ULR No : NA		Test Report No : NSEL170826NA071	
Type of Sample # : Stack Emission			
Reference Type : Work Order No		Reference No : 5100044398 Dt.: 18/11/2025	
Customer Name #	Power Mech Projects Limited.		
Customer Address #	Vedanta Power Limited, Talwandi Sabo Thermal Plant. 3x660MW Thermal Power Plant, Banawala, District Mansa, Punjab-151302.	Period of Sampling	13/08/2026 - 13/08/2026
Sampling Protocol	IS 11255, CPCB: LATS/80/2013-14	Date of Sample Receipt	17/08/2026
Mode of Collection of Sample	Sample collected by Laboratory Mr. Prabhjot Singh	Period of Analysis	17/08/2026 - 22/08/2026
Source of Emission	Boiler Stack (Unit-2; First Unit) 660 MW	Date of reporting	22/08/2026
Stack Description	Single, Circular & Metal	Fuel Used	Coal + Biomass
Point of Sample Collection	From Port Hole after APCD	APCD Details (If provided)	ESP followed with Fabric Filter
Standard/Specifications	Thermal Power Plant : EPA 1986, Sr. No. 25		
Testing Location	On Site & Permanent Facility		

RESULTS

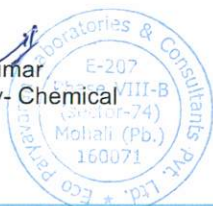
1. Chemical Testing

I. Atmospheric Pollution (Stack Emission)

Sr.No	Test Parameter	Unit	Result	Standard	Test Method
1	Particulate Matter (at 6% O ₂ Corr.)	mg/Nm ³	34	50(max.)	IS 11255 (Part-1)
2	Sulphur dioxide as SO ₂ (at 6% O ₂ Corr.)	mg/Nm ³	1072	Not Specified	EL-QTM-08
3	Oxides of Nitrogen (at 6% O ₂ Corr.)	mg/Nm ³	171	450(max.)	EL-QTM-08
4	Mercury as Hg	mg/Nm ³	BDL (0.01)	0.03(max.)	USEPA Method 29
5	Flue gas velocity	m/s	25.2	Not Specified	IS 11255 : Part 3
6	Moisture	%	14.3	Not Specified	IS 11255 : Part 3
7	Temperature	°C	132	Not Specified	IS 11255 : Part 3
8	Oxygen as O ₂	%	6.1	Not Specified	EL-QTM-08
9	Carbon dioxide as CO ₂	%	10.7	Not Specified	EL-QTM-08
10	Carbon Monoxide as CO	mg/Nm ³	BDL (5)	Not Specified	EL-QTM-08

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TEST REPORT



ULR No : NA

Test Report No : NSEL170826NA071

Type of Sample # : Stack Emission

Remarks : NA

End of Report

OTHER INFORMATION

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TEST REPORT



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ULR No : NA		Test Report No : NSEL170826NA072	
Type of Sample # : Stack Emission			
Reference Type : Work Order No		Reference No : 5100044398 Dt.: 18/11/2025	
Customer Name #	Power Mech Projects Limited.		
Customer Address #	Vedanta Power Limited, Talwandi Sabo Thermal Plant. 3x660MW Thermal Power Plant, Banawala, District Mansa, Punjab-151302.	Period of Sampling	13/08/2026 - 13/08/2026
Sampling Protocol	IS 11255, CPCB: LATS/80/2013-14	Date of Sample Receipt	17/08/2026
Mode of Collection of Sample	Sample collected by Laboratory Mr. Prabhjot Singh	Period of Analysis	17/08/2026 - 22/08/2026
Source of Emission	Boiler Stack (Unit-1; Second Unit) 660 MW	Date of reporting	22/08/2026
Stack Description	Single, Circular & Metal	Fuel Used	Coal + Biomass
Point of Sample Collection	From Port Hole after APCD	APCD Details (If provided)	ESP followed with Fabric Filter
Standard/Specifications	Thermal Power Plant : EPA 1986, Sr. No. 25		
Testing Location	On Site & Permanent Facility		

RESULTS

1. Chemical Testing

I. Atmospheric Pollution (Stack Emission)

Sr.No	Test Parameter	Unit	Result	Standard	Test Method
1	Particulate Matter (at 6% O2 Corr.)	mg/Nm3	36	50(max.)	IS 11255 (Part-1)
2	Sulphur dioxide as SO2 (at 6% O2 Corr.)	mg/Nm3	1038	Not Specified	EL-QTM-08
3	Oxides of Nitrogen (at 6% O2 Corr.)	mg/Nm3	176	450(max.)	EL-QTM-08
4	Mercury as Hg	mg/Nm3	BDL (0.01)	0.03(max.)	USEPA Method 29
5	Flue gas velocity	m/s	25.4	Not Specified	IS 11255 : Part 3
6	Moisture	%	14.8	Not Specified	IS 11255 : Part 3
7	Temperature	°C	135	Not Specified	IS 11255 : Part 3
8	Oxygen as O2	%	6.2	Not Specified	EL-QTM-08
9	Carbon dioxide as CO2	%	10.8	Not Specified	EL-QTM-08

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TEST REPORT



ULR No : NA			Test Report No : NSEL170826NA072		
Type of Sample # : Stack Emission					
10	Carbon Monoxide as CO	mg/Nm3	BDL (5)	Not Specified	EL-QTM-08

Remarks : NA

End of Report

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TEST REPORT



ULR No : NA		Test Report No : NAAL170826NA045	
Type of Sample # : Ambient Air		Date of reporting : 22/08/2026	
Reference Type : Work Order No		Reference No : 5100044398 Dt.: 18/11/2025	
Customer #	Power Mech Projects Limited., Vedanta Power Limited, Talwandi Sabo Thermal Plant. 3x660MW Thermal Power Plant, Banawala, District Mansa, Punjab- 151302.		
Sampling Protocol	IS 5182, EL-MSP-7.3	Mode of Collection of Sample	Sample collected by Laboratory Mr. Prabhjot Singh
Period of Sampling	12/08/2026 - 13/08/2026	Date of Receipt of Sample	17/08/2026
Sampling Location	Village- Chehlanwali	Period of Analysis	17/08/2026 - 22/08/2026
Standard/Specifications	National Ambient Air Quality: G.S.R.No.B-29016/20/90/PCI-L dated 18 Nov, 2009	Environmental Condition	Partially cloudy weather
Testing Location	On Site & Permanent Facility		

RESULTS

1. Chemical Testing

I. Atmospheric Pollution (Ambient Air)

Sr.No	Test Parameter	Unit	Result	Standard	Test Method
1	Respirable Suspended Particulate Matter (PM10)	µg/m3	65	100(max.)	IS 5182 (Part 23)
2	Particulate Matter (PM2.5)	µg/m3	38	60(max.)	IS 5182 (Part 24)
3	Sulphur Dioxide as SO2	µg/m3	BDL (25)	80(max.)	IS 5182 (Part 2)
4	Nitrogen Dioxide (NO2)	µg/m3	27	80(max.)	IS 5182 (Part 6)
5	Ammonia as NH3	µg/m3	BDL (20)	400(max.)	IS 5182 (Part 25)
6	Ozone as O3	µg/m3	23	180(max.)	IS 5182 (Part 9)
7	Carbon Monoxide as CO	mg/m3	0.46	4(max.)	IS 5182 (Part 10) NDIR method
8	Lead (Pb)	µg/m3	BDL (0.004)	1.0(max.)	USEPA Method IO-3.5
9	Arsenic (As)	ng/m3	BDL (4)	6(max.)	USEPA Method IO-3.5
10	Nickel as Ni	ng/m3	BDL (4)	20(max.)	USEPA Method IO-3.5
11	Benzene as C6H6	µg/m3	BDL (2)	5(max.)	IS 5182 (Part 11)
12	Benzo Pyrene (BaP), Particulate Phase Only	ng/m3	BDL (0.3)	1(max.)	IS 5182 (Part 12)

Remarks : NA

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TEST REPORT



ULR No : NA

Test Report No : NAAL170826NA045

Type of Sample # : Ambient Air

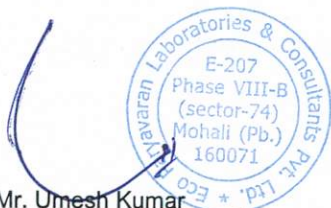
Date of reporting : 22/08/2026

End of Report

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TEST REPORT



ULR No : NA		Test Report No : NAAL170826NA046	
Type of Sample # : Ambient Air		Date of reporting : 22/08/2026	
Reference Type : Work Order No		Reference No : 5100044398 Dt.: 18/11/2025	
Customer #	Power Mech Projects Limited., Vedanta Power Limited, Talwandi Sabo Thermal Plant. 3x660MW Thermal Power Plant, Banawala, District Mansa, Punjab- 151302.		
Sampling Protocol	IS 5182, EL-MSP-7.3	Mode of Collection of Sample	Sample collected by Laboratory Mr. Prabhjot Singh
Period of Sampling	12/08/2026 - 13/08/2026	Date of Receipt of Sample	17/08/2026
Sampling Location	Station No.04	Period of Analysis	17/08/2026 - 22/08/2026
Standard/Specifications	National Ambient Air Quality: G.S.R.No.B-29016/20/90/PCI-L dated 18 Nov, 2009	Environmental Condition	Partially cloudy weather
Testing Location	On Site & Permanent Facility		

RESULTS

1. Chemical Testing

I. Atmospheric Pollution (Ambient Air)

Sr.No	Test Parameter	Unit	Result	Standard	Test Method
1	Respirable Suspended Particulate Matter (PM10)	µg/m3	59	100(max.)	IS 5182 (Part 23)
2	Particulate Matter (PM2.5)	µg/m3	35	60(max.)	IS 5182 (Part 24)
3	Sulphur Dioxide as SO2	µg/m3	BDL (25)	80(max.)	IS 5182 (Part 2)
4	Nitrogen Dioxide (NO2)	µg/m3	38	80(max.)	IS 5182 (Part 6)
5	Ammonia as NH3	µg/m3	BDL (20)	400(max.)	IS 5182 (Part 25)
6	Ozone as O3	µg/m3	23	180(max.)	IS 5182 (Part 9)
7	Carbon Monoxide as CO	mg/m3	0.65	4(max.)	IS 5182 (Part 10) NDIR method
8	Lead (Pb)	µg/m3	BDL (0.004)	1.0(max.)	USEPA Method IO-3.5
9	Arsenic (As)	ng/m3	BDL (4)	6(max.)	USEPA Method IO-3.5
10	Nickel as Ni	ng/m3	BDL (4)	20(max.)	USEPA Method IO-3.5
11	Benzene as C6H6	µg/m3	BDL (2)	5(max.)	IS 5182 (Part 11)
12	Benzo Pyrene (BaP), Particulate Phase Only	ng/m3	BDL (0.3)	1(max.)	IS 5182 (Part 12)

Remarks : NA



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TEST REPORT



TC-11818

ULR No : NA

Test Report No : NAAL170826NA046

Type of Sample # : Ambient Air

Date of reporting : 22/08/2026

End of Report

OTHER INFORMATION

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TEST REPORT



TC-11818

ULR No : NA		Test Report No : NAAL170826NA047	
Type of Sample # : Ambient Air		Date of reporting : 22/08/2026	
Reference Type : Work Order No		Reference No : 5100044398 Dt.: 18/11/2025	
Customer #	Power Mech Projects Limited., Vedanta Power Limited, Talwandi Sabo Thermal Plant. 3x660MW Thermal Power Plant, Banawala, District Mansa, Punjab- 151302.		
Sampling Protocol	IS 5182, EL-MSP-7.3	Mode of Collection of Sample	Sample collected by Laboratory Mr. Prabhjot Singh
Period of Sampling	12/08/2026 - 13/08/2026	Date of Receipt of Sample	17/08/2026
Sampling Location	Station No.03	Period of Analysis	17/08/2026 - 22/08/2026
Standard/Specifications	National Ambient Air Quality: G.S.R.No.B-29016/20/90/PCI-L dated 18 Nov, 2009	Environmental Condition	Partially cloudy weather
Testing Location	On Site & Permanent Facility		

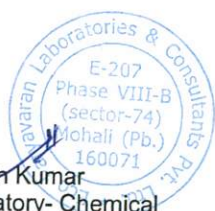
RESULTS

1. Chemical Testing

I. Atmospheric Pollution (Ambient Air)

Sr.No	Test Parameter	Unit	Result	Standard	Test Method
1	Respirable Suspended Particulate Matter (PM10)	µg/m3	63	100(max.)	IS 5182 (Part 23)
2	Particulate Matter (PM2.5)	µg/m3	36	60(max.)	IS 5182 (Part 24)
3	Sulphur Dioxide as SO2	µg/m3	BDL (25)	80(max.)	IS 5182 (Part 2)
4	Nitrogen Dioxide (NO2)	µg/m3	35	80(max.)	IS 5182 (Part 6)
5	Ammonia as NH3	µg/m3	BDL (20)	400(max.)	IS 5182 (Part 25)
6	Ozone as O3	µg/m3	20	180(max.)	IS 5182 (Part 9)
7	Carbon Monoxide as CO	mg/m3	0.58	4(max.)	IS 5182 (Part 10) NDIR method
8	Lead (Pb)	µg/m3	BDL (0.004)	1.0(max.)	USEPA Method IO-3.5
9	Arsenic (As)	ng/m3	BDL (4)	6(max.)	USEPA Method IO-3.5
10	Nickel as Ni	ng/m3	BDL (4)	20(max.)	USEPA Method IO-3.5
11	Benzene as C6H6	µg/m3	BDL (2)	5(max.)	IS 5182 (Part 11)
12	Benzo Pyrene (BaP), Particulate Phase Only	ng/m3	BDL (0.3)	1(max.)	IS 5182 (Part 12)

Remarks : NA



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TEST REPORT



TC-11818

ULR No : NA

Test Report No : NAAL170826NA047

Type of Sample # : Ambient Air

Date of reporting : 22/08/2026

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Mr. Umesh Kumar
Authorized Signatory- Chemical

TEST REPORT



ULR No : NA		Test Report No : NAAL170826NA048	
Type of Sample # : Ambient Air		Date of reporting : 22/08/2026	
Reference Type : Work Order No		Reference No : 5100044398 Dt.: 18/11/2025	
Customer #	Power Mech Projects Limited., Vedanta Power Limited, Talwandi Sabo Thermal Plant. 3x660MW Thermal Power Plant, Banawala, District Mansa, Punjab- 151302.		
Sampling Protocol	IS 5182, EL-MSP-7.3	Mode of Collection of Sample	Sample collected by Laboratory Mr. Prabhjot Singh
Period of Sampling	12/08/2026 - 13/08/2026	Date of Receipt of Sample	17/08/2026
Sampling Location	Station No.02	Period of Analysis	17/08/2026 - 22/08/2026
Standard/Specifications	National Ambient Air Quality: G.S.R.No.B-29016/20/90/PCI-L dated 18 Nov, 2009	Environmental Condition	Partially cloudy weather
Testing Location	On Site & Permanent Facility		

RESULTS

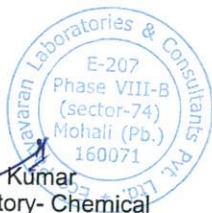
1. Chemical Testing

I. Atmospheric Pollution (Ambient Air)

Sr.No	Test Parameter	Unit	Result	Standard	Test Method
1	Respirable Suspended Particulate Matter (PM10)	µg/m3	58	100(max.)	IS 5182 (Part 23)
2	Particulate Matter (PM2.5)	µg/m3	33	60(max.)	IS 5182 (Part 24)
3	Sulphur Dioxide as SO2	µg/m3	BDL (25)	80(max.)	IS 5182 (Part 2)
4	Nitrogen Dioxide (NO2)	µg/m3	38	80(max.)	IS 5182 (Part 6)
5	Ammonia as NH3	µg/m3	BDL (20)	400(max.)	IS 5182 (Part 25)
6	Ozone as O3	µg/m3	21	180(max.)	IS 5182 (Part 9)
7	Carbon Monoxide as CO	mg/m3	0.57	4(max.)	IS 5182 (Part 10) NDIR method
8	Lead (Pb)	µg/m3	BDL (0.004)	1.0(max.)	USEPA Method IO-3.5
9	Arsenic (As)	ng/m3	BDL (4)	6(max.)	USEPA Method IO-3.5
10	Nickel as Ni	ng/m3	BDL (4)	20(max.)	USEPA Method IO-3.5
11	Benzene as C6H6	µg/m3	BDL (2)	5(max.)	IS 5182 (Part 11)
12	Benzo Pyrene (BaP), Particulate Phase Only	ng/m3	BDL (0.3)	1(max.)	IS 5182 (Part 12)

Remarks : NA

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TEST REPORT



TC-11818

ULR No : NA

Test Report No : NAAL170826NA048

Type of Sample # : Ambient Air

Date of reporting : 22/08/2026

End of Report

OTHER INFORMATION

Abbreviation & Symbol : # Information provided by customer. ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions :

1. The results relate only to the items tested.
2. Giving opinions does not imply endorsement of the tested product by laboratory. Under no circumstances, laboratory accepts any liability caused by use or misuse of Test Report.
3. The Test Report shall not be reproduced except in full or part or used as advertisement or evidence in court of law without written approval of the laboratory. Samples drawn under special circumstances like legal cases, the customer must declare the same at the time of submission.
4. Complaint log book is with Quality Cell. Contact No. (M) 91 8872 04 3135, Phone 91 172 4616 225 Email: quality@ecoparyavaran.org
5. The samples tested may be preserved for a period but not exceeding 7 days from date of reporting, unless otherwise specifically desired by the customer or regulatory authorities. However, depending upon the nature of samples and effect of preservation the test results of preserved samples may vary. Laboratory also does not assume any responsibility in the test results of samples kept on hold for want of clarification.
6. All disputes are subjected to jurisdiction of Mohali (Punjab) India and maximum liability of the laboratory does not exceed the testing and sampling charges.
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Mr. Umesh Kumar
Authorized Signatory- Chemical

TEST REPORT



ULR No : NA		Test Report No : NAAL170826NA049	
Type of Sample # : Ambient Air		Date of reporting : 22/08/2026	
Reference Type : Work Order No		Reference No : 5100044398 Dt.: 18/11/2025	
Customer #	Power Mech Projects Limited., Vedanta Power Limited, Talwandi Sabo Thermal Plant. 3x660MW Thermal Power Plant, Banawala, District Mansa, Punjab- 151302.		
Sampling Protocol	IS 5182, EL-MSP-7.3	Mode of Collection of Sample	Sample collected by Laboratory Mr. Prabhjot Singh
Period of Sampling	12/08/2026 - 13/08/2026	Date of Receipt of Sample	17/08/2026
Sampling Location	Station No.01	Period of Analysis	17/08/2026 - 22/08/2026
Standard/Specifications	National Ambient Air Quality: G.S.R.No.B-29016/20/90/PCI-L dated 18 Nov, 2009	Environmental Condition	Partially cloudy weather
Testing Location	On Site & Permanent Facility		

RESULTS

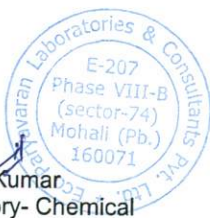
1. Chemical Testing

I. Atmospheric Pollution (Ambient Air)

Sr.No	Test Parameter	Unit	Result	Standard	Test Method
1	Respirable Suspended Particulate Matter (PM10)	µg/m3	65	100(max.)	IS 5182 (Part 23)
2	Particulate Matter (PM2.5)	µg/m3	37	60(max.)	IS 5182 (Part 24)
3	Sulphur Dioxide as SO2	µg/m3	BDL (25)	80(max.)	IS 5182 (Part 2)
4	Nitrogen Dioxide (NO2)	µg/m3	42	80(max.)	IS 5182 (Part 6)
5	Ammonia as NH3	µg/m3	BDL (20)	400(max.)	IS 5182 (Part 25)
6	Ozone as O3	µg/m3	24	180(max.)	IS 5182 (Part 9)
7	Carbon Monoxide as CO	mg/m3	0.82	4(max.)	IS 5182 (Part 10) NDIR method
8	Lead (Pb)	µg/m3	BDL (0.004)	1.0(max.)	USEPA Method IO-3.5
9	Arsenic (As)	ng/m3	BDL (4)	6(max.)	USEPA Method IO-3.5
10	Nickel as Ni	ng/m3	BDL (4)	20(max.)	USEPA Method IO-3.5
11	Benzene as C6H6	µg/m3	BDL (2)	5(max.)	IS 5182 (Part 11)
12	Benzo Pyrene (BaP), Particulate Phase Only	ng/m3	BDL (0.3)	1(max.)	IS 5182 (Part 12)

Remarks : NA

Mr. Umesh Kumar
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EL-FMT-7.8.2 -AA

Page No.1/2

TEST REPORT



TC-11818

ULR No : NA

Test Report No : NAAL170826NA049

Type of Sample # : Ambient Air

Date of reporting : 22/08/2026

End of Report

OTHER INFORMATION

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