

## TEST REPORT



ULR No : NA

Test Report No : NSEL151225NA181

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 # Talwandi Sabo Power Ltd.  
3x660MW Thermal Power Plant,  
Banawala, District Mansa, Punjab-  
151302.

Sampling Protocol IS 11255, CPCB: LATS/80/2013-14

Date of Sample Receipt 15/12/2025

Mode of Collection of Sample Sample collected by Laboratory  
Mr. Prabhjot Singh

Period of Analysis 15/12/2025 - 23/12/2025

Source of Emission Boiler Stack (Unit-1; Third Unit) 660 MW

Date of reporting 23/12/2025

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

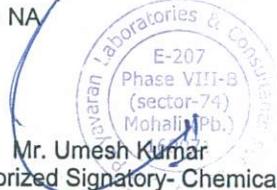
## RESULTS

### 1. Chemical Testing

#### I. Atmospheric Pollution ( Stack Emission )

Sr.No	Test Parameter	Unit	Result	Test Method
1	Particulate Matter (at 6% O2 Corr.)	mg/Nm3	42	IS 11255 (Part-1)
2	Sulphur dioxide as SO2 (at 6% O2 Corr.)	mg/Nm3	1081	EL-QTM-08
3	Oxides of Nitrogen (at 6% O2 Corr.)	mg/Nm3	175	EL-QTM-08
4	Mercury	mg/Nm3	BDL (0.01)	USEPA Method 29
5	Flue gas velocity	m/s	25.3	IS 11255 : Part 3
6	Moisture	%	14.4	IS 11255 : Part 3
7	Temperature	°C	128	IS 11255 : Part 3
8	Oxygen as O2	%	6.5	EL-QTM-08
9	Carbon dioxide as CO2	%	10.3	EL-QTM-08
10	Carbon Monoxide as CO	mg/Nm3	BDL (5)	EL-QTM-08

Remarks : NA



Mr. Umesh Kumar  
Authorized Signatory- Chemical

## TEST REPORT



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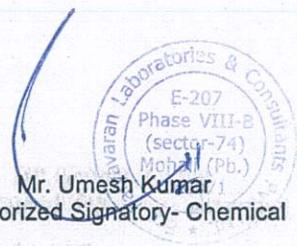
\*\*End of Report\*\*

### 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](mailto: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.
7. In case where sample is provided by the customer, the reported results shall apply to the sample as received.



Mr. Umesh Kumar  
Authorized Signatory- Chemical

## TEST REPORT



ULR No : NA

Test Report No : NSEL151225NA182

Type of Sample # : Stack Emission

Reference Type : Work Order No

Reference No : 5100044398 Dt.: 18/11/2025

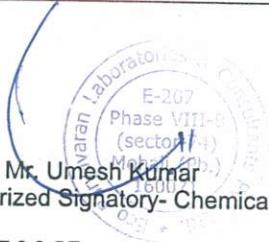
Customer Name #	Power Mech Projects Limited.		
Customer Address #	Talwandi Sabo Power Ltd. 3x660MW Thermal Power Plant, Banawala, District Mansa, Punjab- 151302.	Period of Sampling	11/12/2025 - 11/12/2025
Sampling Protocol	IS 11255, CPCB: LATS/80/2013-14	Date of Sample Receipt	15/12/2025
Mode of Collection of Sample	Sample collected by Laboratory Mr. Prabhjot Singh	Period of Analysis	15/12/2025 - 23/12/2025
Source of Emission	Boiler Stack (Unit-3; Second Unit) 660 MW	Date of reporting	23/12/2025
Stack Description	Single, Circular & Metal	Fuel Used	Coal+Biomass
Point of Sample Collection	From Port Hole after APCD	APCD Details (If provided)	ESP followed by 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	Test Method
1	Particulate Matter (at 6% O2 Corr.)	mg/Nm3	44	IS 11255 (Part-1)
2	Sulphur dioxide as SO2 (at 6% O2 Corr.)	mg/Nm3	1029	EL-QTM-08
3	Oxides of Nitrogen (at 6% O2 Corr.)	mg/Nm3	178	EL-QTM-08
4	Mercury	mg/Nm3	BDL (0.01)	USEPA Method 29
5	Flue gas velocity	m/s	25.9	IS 11255 : Part 3
6	Moisture	%	14.1	IS 11255 : Part 3
7	Temperature	°C	126	IS 11255 : Part 3
8	Oxygen as O2	%	6.3	EL-QTM-08
9	Carbon dioxide as CO2	%	10.6	EL-QTM-08
10	Carbon Monoxide as CO	mg/Nm3	BDL (5)	EL-QTM-08



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**ECO BHAWAN** E-207, Industrial Area, Phase VIII-B (Sector-74), Mohali (Punjab) 160071

## TEST REPORT



TC-11818

ULR No : NA

Test Report No : NSEL151225NA182

Type of Sample # : Stack Emission

Remarks : NA

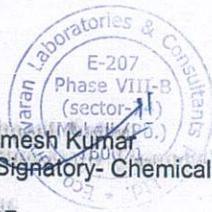
\*\*End of Report\*\*

### 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](mailto: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.
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Mr. Umesh Kumar  
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## TEST REPORT



ULR No : NA

Test Report No : NAAL151225NA198

Type of Sample # : Ambient Air

Date of reporting : 23/12/2025

Reference Type : Work Order No

Reference No : 5100044398 Dt.: 18/11/2025

Customer # Power Mech Projects Limited.,  
Talwandi Sabo Power Ltd.  
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	11/12/2025 - 12/12/2025	Date of Receipt of Sample	15/12/2025
Sampling Location	Village Chelanwali	Period of Analysis	15/12/2025 - 23/12/2025
Standard/Specifications	National Ambient Air Quality: G.S.R.No.B-29016/20/90/PCI-L dated 18 Nov, 2009	Environmental Condition	Clear sky
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	162	100(max.)	IS 5182 (Part 23)
2	Particulate Matter (PM2.5)	µg/m3	96	60(max.)	IS 5182 (Part 24)
3	Sulphur Dioxide as SO2	µg/m3	28	80(max.)	IS 5182 (Part 2)
4	Nitrogen Dioxide (NO2)	µg/m3	42	80(max.)	IS 5182 (Part 6)
5	Carbon Monoxide as CO	mg/m3	0.96	4(max.)	IS 5182 (Part 10) NDIR method
6	Lead (Pb)	µg/m3	BDL (0.004)	1.0(max.)	USEPA Method IO-3.5

Remarks : NA

\*\*End of Report\*\*

Mr. Umesh Kumar  
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ECO BHAWAN E-207, Industrial Area, Phase VIII-B (Sector-74), Mohali (Punjab) 160071

## TEST REPORT



ULR No : NA

Test Report No : NAAL151225NA199

Type of Sample # : Ambient Air

Date of reporting : 23/12/2025

Reference Type : Work Order No

Reference No : 5100044398 Dt.: 18/11/2025

Customer #	Power Mech Projects Limited., Talwandi Sabo Power Ltd. 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	11/12/2025 - 12/12/2025	Date of Receipt of Sample	15/12/2025
Sampling Location	Station No.4	Period of Analysis	15/12/2025 - 23/12/2025
Standard/Specifications	National Ambient Air Quality: G.S.R.No.B-29016/20/90/PCI-L dated 18 Nov, 2009	Environmental Condition	Clear sky
Testing Location	On Site & Permanent Facility		

## RESULTS

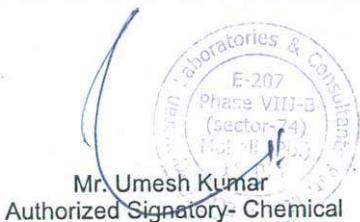
### 1. Chemical Testing

#### I. Atmospheric Pollution ( Ambient Air )

Sr.No	Test Parameter	Unit	Result	Standard	Test Method
1	Respirable Suspended Particulate Matter (PM10)	µg/m3	145	100(max.)	IS 5182 (Part 23)
2	Particulate Matter (PM2.5)	µg/m3	87	60(max.)	IS 5182 (Part 24)
3	Sulphur Dioxide as SO2	µg/m3	31	80(max.)	IS 5182 (Part 2)
4	Nitrogen Dioxide (NO2)	µg/m3	38	80(max.)	IS 5182 (Part 6)
5	Carbon Monoxide as CO	mg/m3	0.88	4(max.)	IS 5182 (Part 10) NDIR method
6	Lead (Pb)	µg/m3	BDL (0.004)	1.0(max.)	USEPA Method IO-3.5

Remarks : NA

\*\*End of Report\*\*



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## TEST REPORT



ULR No : NA

Test Report No : NAAL151225NA200

Type of Sample # : Ambient Air

Date of reporting : 23/12/2025

Reference Type : Work Order No

Reference No : 5100044398 Dt.: 18/11/2025

Customer #	Power Mech Projects Limited., Talwandi Sabo Power Ltd. 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	11/12/2025 - 12/12/2025	Date of Receipt of Sample	15/12/2025
Sampling Location	Station No.3	Period of Analysis	15/12/2025 - 23/12/2025
Standard/Specifications	National Ambient Air Quality: G.S.R.No.B-29016/20/90/PCI-L dated 18 Nov, 2009	Environmental Condition	Clear sky
Testing Location	On Site & Permanent Facility		

## RESULTS

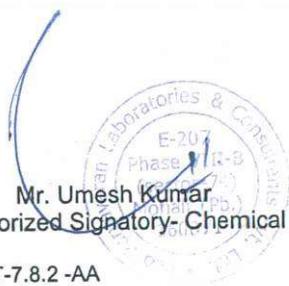
### 1. Chemical Testing

#### I. Atmospheric Pollution ( Ambient Air )

Sr.No	Test Parameter	Unit	Result	Standard	Test Method
1	Respirable Suspended Particulate Matter (PM10)	µg/m3	136	100(max.)	IS 5182 (Part 23)
2	Particulate Matter (PM2.5)	µg/m3	81	60(max.)	IS 5182 (Part 24)
3	Sulphur Dioxide as SO2	µg/m3	32	80(max.)	IS 5182 (Part 2)
4	Nitrogen Dioxide (NO2)	µg/m3	35	80(max.)	IS 5182 (Part 6)
5	Carbon Monoxide as CO	mg/m3	0.92	4(max.)	IS 5182 (Part 10) NDIR method
6	Lead (Pb)	µg/m3	BDL (0.004)	1.0(max.)	USEPA Method IO-3.5

Remarks : NA

\*\*End of Report\*\*



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ECO BHAWAN E-207, Industrial Area, Phase VIII-B (Sector-74), Mohali (Punjab) 160071

## TEST REPORT



ULR No : NA

Test Report No : NAAL151225NA201

Type of Sample # : Ambient Air

Date of reporting : 23/12/2025

Reference Type : Work Order No

Reference No : 5100044398 Dt.: 18/11/2025

Customer #	Power Mech Projects Limited., Talwandi Sabo Power Ltd. 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	11/12/2025 - 12/12/2025	Date of Receipt of Sample	15/12/2025
Sampling Location	Station No.2	Period of Analysis	15/12/2025 - 23/12/2025
Standard/Specifications	National Ambient Air Quality: G.S.R.No.B-29016/20/90/PCI-L dated 18 Nov, 2009	Environmental Condition	Clear sky
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	137	100(max.)	IS 5182 (Part 23)
2	Particulate Matter (PM2.5)	µg/m3	82	60(max.)	IS 5182 (Part 24)
3	Sulphur Dioxide as SO2	µg/m3	30	80(max.)	IS 5182 (Part 2)
4	Nitrogen Dioxide (NO2)	µg/m3	36	80(max.)	IS 5182 (Part 6)
5	Carbon Monoxide as CO	mg/m3	0.85	4(max.)	IS 5182 (Part 10) NDIR method
6	Lead (Pb)	µg/m3	BDL (0.004)	1.0(max.)	USEPA Method IO-3.5

Remarks : NA

\*\*End of Report\*\*

Mr. Umesh Kumar  
Authorized Signatory- Chemical

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ECO BHAWAN E-207, Industrial Area, Phase VIII-B (Sector-74), Mohali (Punjab) 160071

## TEST REPORT



ULR No : NA	Test Report No : NAAL151225NA202		
Type of Sample # : Ambient Air	Date of reporting : 23/12/2025		
Reference Type : Work Order No	Reference No : 5100044398 Dt.: 18/11/2025		
Customer #	Power Mech Projects Limited., Talwandi Sabo Power Ltd. 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	11/12/2025 - 12/12/2025	Date of Receipt of Sample	15/12/2025
Sampling Location	Station No.1	Period of Analysis	15/12/2025 - 23/12/2025
Standard/Specifications	National Ambient Air Quality: G.S.R.No.B-29016/20/90/PCI-L dated 18 Nov, 2009	Environmental Condition	Clear sky
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	142	100(max.)	IS 5182 (Part 23)
2	Particulate Matter (PM2.5)	µg/m3	85	60(max.)	IS 5182 (Part 24)
3	Sulphur Dioxide as SO2	µg/m3	33	80(max.)	IS 5182 (Part 2)
4	Nitrogen Dioxide (NO2)	µg/m3	41	80(max.)	IS 5182 (Part 6)
5	Carbon Monoxide as CO	mg/m3	0.97	4(max.)	IS 5182 (Part 10) NDIR method
6	Lead (Pb)	µg/m3	BDL (0.004)	1.0(max.)	USEPA Method IO-3.5

Remarks : NA

\*\*End of Report\*\*

Mr. Umesh Kumar (Pd.)  
Authorized Signatory- Chemical

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