

## TEST REPORT



ULR No. : TC118182400002993F		Test Report No. : NSTL050424NA009	
Type of Sample : Emission Stack- Boiler			
Name & Address of Customer	Talwandi Sabo Power Limited 3X660 MW, Thermal Power Plant, Mansa Talwandi Sabo Road Village Banawala, Distt. Mansa Punjab	Work Order No. & Date	WA23Y-00006 DT:05.05.2023
		Customer reference No. (If any)	NA
		Date of Sampling	02/04/2024
Sampling Protocol	IS 11255, CPCB: LATS/80/2013-14	Date of Sample Receipt	05/04/2024
Mode of Collection of Sample	Mr. Prabhjot (Eco Rep.)	Period of Analysis	05/04/2024 To 12/04/2024
Source of Emission	Boiler Stack No.1 (Third Unit; Unit-1) 660W	Date of Reporting	12/04/2024
Stack Description	Single, Circular & Metal	Fuel Used	Coal
Point of Sample Collection	From Port Hole after APCD	APCD Details (If provided)	ESP followed by fabric filter
Standard/Specification	Emission Stack- Boiler: EPA 1986		
Testing Location	On Site & Permanent Facility		

## RESULTS

### I. Chemical Testing

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

S.No.	Test Parameters	Unit	Result	Detection Limit	Test Method
1	Particulate Matter at 6% O2 Corr.	mg/Nm3	36	5	IS 11255 (Part 1)
2	Sulphur Dioxide at 6% O2 Corr.	mg/Nm3	1073	5	EL/SOP/FGA/01
3	Mercury as Hg	mg/Nm3	BDL	0.01	USEPA Method 29
4	Carbon Monoxide as CO	mg/Nm3	4.0	5	EL/SOP/FGA/01
5	Carbon Dioxide as CO2	%	10.8	1	EL/SOP/FGA/01
6	Oxides of Nitrogen as NOX at 6% O2 Corr.	mg/Nm3	166	5	EL/SOP/FGA/01
7	Oxygen as O2	%	6.3	1	EL/SOP/FGA/01
8	Temperature	°C	136	5	IS 11255 (Part 3)
9	Flue Gas Velocity	m/s	26.4	3	IS 11255 (Part 3)
10	Moisture	%	12.1	1	IS 11255 (Part 3)

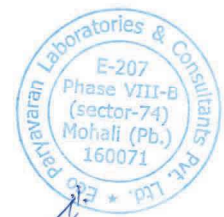
Remarks : NA

#### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*



Umesh Kumar

Authorized Signatory-Chemical

## TEST REPORT



ULR No. : TC118182400002992F		Test Report No. : NSTL050424NA008	
Type of Sample : Emission Stack- Boiler			
Name & Address of Customer	Talwandi Sabo Power Limited 3X660 MW, Thermal Power Plant, Mansa Talwandi Sabo Road Village Banawala, Distt. Mansa Punjab	Work Order No. & Date	WA23Y-00006 DT:05.05.2023
		Customer reference No. (If any)	NA
		Date of Sampling	02/04/2024
Sampling Protocol	IS 11255, CPCB: LATS/80/2013-14	Date of Sample Receipt	05/04/2024
Mode of Collection of Sample	Mr. Prabhjot (Eco Rep.)	Period of Analysis	05/04/2024 To 12/04/2024
Source of Emission	Boiler Stack No.2 (First Unit; Unit-2) 660MW	Date of Reporting	12/04/2024
Stack Description	Single, Circular & Metal	Fuel Used	Coal
Point of Sample Collection	From Port Hole after APCD	APCD Details (If provided)	ESP followed by fabric filter
Standard/Specification	Emission Stack- Boiler: EPA 1986		
Testing Location	On Site & Permanent Facility		

## RESULTS

### I. Chemical Testing

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

S.No.	Test Parameters	Unit	Result	Detection Limit	Test Method
1	Particulate Matter at 6% O2 Corr.	mg/Nm3	37	5	IS 11255 (Part 1)
2	Sulphur Dioxide at 6% O2 Corr.	mg/Nm3	1124	5	EL/SOP/FGA/01
3	Mercury as Hg	mg/Nm3	BDL	0.01	USEPA Method 29
4	Carbon Monoxide as CO	mg/Nm3	4.1	5	EL/SOP/FGA/01
5	Carbon Dioxide as CO2	%	10.5	1	EL/SOP/FGA/01
6	Oxides of Nitrogen as NOX at 6% O2 Corr.	mg/Nm3	167	5	EL/SOP/FGA/01
7	Oxygen as O2	%	6.5	1	EL/SOP/FGA/01
8	Temperature	°C	137	5	IS 11255 (Part 3)
9	Flue Gas Velocity	m/s	25.6	3	IS 11255 (Part 3)
10	Moisture	%	12.6	1	IS 11255 (Part 3)

Remarks : NA

#### OTHER INFORMATION

##### Abbreviation :

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##### Terms & Conditions :

Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*



## TEST REPORT



ULR No. : TC1181824000002994F		Test Report No. : NSTL050424NA010	
Type of Sample : Emission Stack- Boiler			
Name & Address of Customer	Talwandi Sabo Power Limited 3X660 MW, Thermal Power Plant, Mansa Talwandi Sabo Road Village Banawala, Distt. Mansa Punjab	Work Order No. & Date	WA23Y-00006 DT:05.05.2023
		Customer reference No. (if any)	NA
		Date of Sampling	02/04/2024
Sampling Protocol	IS 11255, CPCB: LATS/80/2013-14	Date of Sample Receipt	05/04/2024
Mode of Collection of Sample	Mr. Prabhjot (Eco Rep.)	Period of Analysis	05/04/2024 To 12/04/2024
Source of Emission	Boiler Stack No.3 (Second Unit; Unit-3) 660MW	Date of Reporting	12/04/2024
Stack Description	Single, Circular & Metal	Fuel Used	Coal
Point of Sample Collection	From Port Hole after APCD	APCD Details (If provided)	ESP followed by fabric filter
Standard/Specification	Emission Stack- Boiler: EPA 1986		
Testing Location	On Site & Permanent Facility		

## RESULTS

### I. Chemical Testing

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

S.No.	Test Parameters	Unit	Result	Detection Limit	Test Method
1	Particulate Matter at 6% O2 Corr.	mg/Nm3	40	5	IS 11255 (Part 1)
2	Sulphur Dioxide at 6% O2 Corr.	mg/Nm3	1081	5	EL/SOP/FGA/01
3	Mercury as Hg	mg/Nm3	BDL	0.01	USEPA Method 29
4	Carbon Monoxide as CO	mg/Nm3	4.5	5	EL/SOP/FGA/01
5	Carbon Dioxide as CO2	%	10.2	1	EL/SOP/FGA/01
6	Oxides of Nitrogen as NOX at 6% O2 Corr.	mg/Nm3	171	5	EL/SOP/FGA/01
7	Oxygen as O2	%	6.6	1	EL/SOP/FGA/01
8	Temperature	°C	129	5	IS 11255 (Part 3)
9	Flue Gas Velocity	m/s	26.3	3	IS 11255 (Part 3)
10	Moisture	%	11.8	1	IS 11255 (Part 3)

Remarks : NA

#### OTHER INFORMATION

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Terms & Conditions :

Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*



Umesh Kumar

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Stack- EL-FMT-7.8.2-SW

**ECO BHAWAN**

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

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## TEST REPORT



<b>ULR No. :</b> TC1181824000003479F		<b>Test Report No. :</b> NAIL150424NA007	
<b>Type of Sample :</b> Ambient Air		<b>Date of Reporting :</b> 18/04/2024	
<b>Customer</b>	Talwandi Sabo Power Limited 3X660 MW, Thermal Power Plant, Mansa Talwandi Sabo Road Village Banawala, Distt. Mansa Punjab	<b>Work Order No. &amp; Date</b>	WA23Y-00006 DT:05.05.2023
		<b>Customer reference No. (If any)</b>	NA
<b>Sampling Protocol</b>	IS 5182, EL-MSP-7.3	<b>Mode of Collection of Sample</b>	Mr. Honey (Eco Rep.)
<b>Date of Sampling</b>	11/04/2024 To 12/04/2024	<b>Date of Receipt of Sample</b>	15/04/2024
<b>Sampling Location</b>	Station No.1	<b>Period of Analysis</b>	15/04/2024 To 18/04/2024
<b>Standard/ Specification</b>	National Ambient Air Quality: G.S.R.No.B-29016/20/19/PCI-L dated 18 Nov, 2009	<b>Environmental Conditions</b>	Partially cloudy weather
<b>Testing Location</b>	On Site & Permanent Facility		

## RESULTS

### I. Chemical Testing

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

S.No.	Test Parameter	Unit	Result	Standard	Detection Limit	Test Method
1	Respirable Suspended Particulate Matter as PM10	µg/m3	76	100	5	IS 5182 (Part 23)
2	Particulate Matter as PM2.5	µg/m3	46	60	5	IS 5182 (Part 24)
3	Sulphur Dioxide as SO2	µg/m3	12	80	5	IS 5182 (Part 2)
4	Oxides of Nitrogen	µg/m3	26	80	7	IS 5182 (Part 6)
5	Carbon Monoxide as CO	mg/m3	0.66	4	0.1	IS 5182 (Part 10) NDIR method
6	Lead as Pb	µg/m3	BDL	1.0	0.04	USEPA Method IO-3.4

Remarks : NA

#### OTHER INFORMATION

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\*\*End of Report\*\*



Umesh Kumar

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Ambient Air - EL-FMT-7.8.2 -AA

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

## TEST REPORT



<b>ULR No. :</b> TC1181824000003480F		<b>Test Report No. :</b> NAIL150424NA008	
<b>Type of Sample :</b> Ambient Air		<b>Date of Reporting :</b> 18/04/2024	
<b>Customer</b>	Talwandi Sabo Power Limited 3X660 MW, Thermal Power Plant, Mansa Talwandi Sabo Road Village Banawala, Distt. Mansa Punjab	<b>Work Order No. &amp; Date</b>	WA23Y-00006 DT:05.05.2023
		<b>Customer reference No. (If any)</b>	NA
<b>Sampling Protocol</b>	IS 5182, EL-MSP-7.3	<b>Mode of Collection of Sample</b>	Mr. Honey (Eco Rep.)
<b>Date of Sampling</b>	11/04/2024 To 12/04/2024	<b>Date of Receipt of Sample</b>	15/04/2024
<b>Sampling Location</b>	Station No.2	<b>Period of Analysis</b>	15/04/2024 To 18/04/2024
<b>Standard/ Specification</b>	National Ambient Air Quality: G.S.R.No.B-29016/20/19/PCI-L dated 18 Nov, 2009	<b>Environmental Conditions</b>	Partially cloudy weather
<b>Testing Location</b>	On Site & Permanent Facility		

## RESULTS

### I. Chemical Testing

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

S.No.	Test Parameter	Unit	Result	Standard	Detection Limit	Test Method
1	Respirable Suspended Particulate Matter as PM10	µg/m3	74	100	5	IS 5182 (Part 23)
2	Particulate Matter as PM2.5	µg/m3	45	60	5	IS 5182 (Part 24)
3	Sulphur Dioxide as SO2	µg/m3	12	80	5	IS 5182 (Part 2)
4	Oxides of Nitrogen	µg/m3	25	80	7	IS 5182 (Part 6)
5	Carbon Monoxide as CO	mg/m3	0.55	4	0.1	IS 5182 (Part 10) NDIR method
6	Lead as Pb	µg/m3	BDL	1.0	0.04	USEPA Method IO-3.4

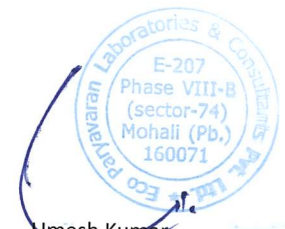
Remarks : NA

#### OTHER INFORMATION

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\*\*End of Report\*\*



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## TEST REPORT



<b>ULR No. :</b> TC1181824000003481F		<b>Test Report No. :</b> NAIL150424NA009	
<b>Type of Sample :</b> Ambient Air		<b>Date of Reporting :</b> 18/04/2024	
<b>Customer</b>	Talwandi Sabo Power Limited 3X660 MW, Thermal Power Plant, Mansa Talwandi Sabo Road Village Banawala, Distt. Mansa Punjab	<b>Work Order No. &amp; Date</b>	WA23Y-00006 DT:05.05.2023
		<b>Customer reference No. (If any)</b>	NA
<b>Sampling Protocol</b>	IS 5182, EL-MSP-7.3	<b>Mode of Collection of Sample</b>	Mr. Honey (Eco Rep.)
<b>Date of Sampling</b>	11/04/2024 To 12/04/2024	<b>Date of Receipt of Sample</b>	15/04/2024
<b>Sampling Location</b>	Station No.3	<b>Period of Analysis</b>	15/04/2024 To 18/04/2024
<b>Standard/ Specification</b>	National Ambient Air Quality: G.S.R.No.B-29016/20/19/PCI-L dated 18 Nov, 2009	<b>Environmental Conditions</b>	Partially cloudy weather
<b>Testing Location</b>	On Site & Permanent Facility		

## RESULTS

### I. Chemical Testing

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

S.No.	Test Parameter	Unit	Result	Standard	Detection Limit	Test Method
1	Respirable Suspended Particulate Matter as PM10	µg/m3	72	100	5	IS 5182 (Part 23)
2	Particulate Matter as PM2.5	µg/m3	44	60	5	IS 5182 (Part 24)
3	Sulphur Dioxide as SO2	µg/m3	10	80	5	IS 5182 (Part 2)
4	Oxides of Nitrogen	µg/m3	23	80	7	IS 5182 (Part 6)
5	Carbon Monoxide as CO	mg/m3	0.58	4	0.1	IS 5182 (Part 10) NDIR method
6	Lead as Pb	µg/m3	BDL	1.0	0.04	USEPA Method IO-3.4

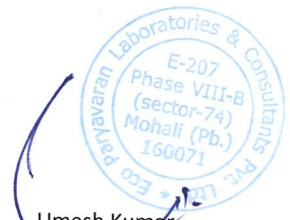
Remarks : NA

#### OTHER INFORMATION

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\*\*End of Report\*\*



Umesh Kumar

Authorized Signatory-Chemical

## TEST REPORT



<b>ULR No. :</b> TC1181824000003482F		<b>Test Report No. :</b> NAIL150424NA010	
<b>Type of Sample :</b> Ambient Air		<b>Date of Reporting :</b> 18/04/2024	
<b>Customer</b>	Talwandi Sabo Power Limited 3X660 MW, Thermal Power Plant, Mansa Talwandi Sabo Road Village Banawala, Distt. Mansa Punjab	<b>Work Order No. &amp; Date</b>	WA23Y-00006 DT:05.05.2023
		<b>Customer reference No. (If any)</b>	NA
<b>Sampling Protocol</b>	IS 5182, EL-MSP-7.3	<b>Mode of Collection of Sample</b>	Mr. Honey (Eco Rep.)
<b>Date of Sampling</b>	11/04/2024 To 12/04/2024	<b>Date of Receipt of Sample</b>	15/04/2024
<b>Sampling Location</b>	Station No.4	<b>Period of Analysis</b>	15/04/2024 To 18/04/2024
<b>Standard/ Specification</b>	National Ambient Air Quality: G.S.R.No.B-29016/20/19/PCI-L dated 18 Nov, 2009	<b>Environmental Conditions</b>	Partially cloudy weather
<b>Testing Location</b>	On Site & Permanent Facility		

## RESULTS

### I. Chemical Testing

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

S.No.	Test Parameter	Unit	Result	Standard	Detection Limit	Test Method
1	Respirable Suspended Particulate Matter as PM10	µg/m3	79	100	5	IS 5182 (Part 23)
2	Particulate Matter as PM2.5	µg/m3	43	60	5	IS 5182 (Part 24)
3	Sulphur Dioxide as SO2	µg/m3	9	80	5	IS 5182 (Part 2)
4	Oxides of Nitrogen	µg/m3	28	80	7	IS 5182 (Part 6)
5	Carbon Monoxide as CO	mg/m3	0.73	4	0.1	IS 5182 (Part 10) NDIR method
6	Lead as Pb	µg/m3	BDL	1.0	0.04	USEPA Method IO-3.4

Remarks : NA

#### OTHER INFORMATION

**Abbreviation :** ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

**Terms & Conditions :** Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*



Authorized Signatory-Chemical

Ambient Air - EL-FMT-7.8.2 -AA

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



## TEST REPORT

<b>ULR No. :</b> TC1181824000003483F		<b>Test Report No. :</b> NAIL150424NA011	
<b>Type of Sample :</b> Ambient Air		<b>Date of Reporting :</b> 18/04/2024	
<b>Customer</b>	Talwandi Sabo Power Limited 3X660 MW, Thermal Power Plant, Mansa Talwandi Sabo Road Village Banawala, Distt. Mansa Punjab	<b>Work Order No. &amp; Date</b>	WA23Y-00006 DT:05.05.2023
		<b>Customer reference No. (If any)</b>	NA
<b>Sampling Protocol</b>	IS 5182, EL-MSP-7.3	<b>Mode of Collection of Sample</b>	Mr. Honey (Eco Rep.)
<b>Date of Sampling</b>	11/04/2024 To 12/04/2024	<b>Date of Receipt of Sample</b>	15/04/2024
<b>Sampling Location</b>	Vill. Chehlanwali	<b>Period of Analysis</b>	15/04/2024 To 18/04/2024
<b>Standard/ Specification</b>	National Ambient Air Quality: G.S.R.No.B-29016/20/19/PCI-L dated 18 Nov, 2009	<b>Environmental Conditions</b>	Partially cloudy weather
<b>Testing Location</b>	On Site & Permanent Facility		

## RESULTS

### I. Chemical Testing

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

S.No.	Test Parameter	Unit	Result	Standard	Detection Limit	Test Method
1	Respirable Suspended Particulate Matter as PM10	µg/m3	83	100	5	IS 5182 (Part 23)
2	Particulate Matter as PM2.5	µg/m3	46	60	5	IS 5182 (Part 24)
3	Sulphur Dioxide as SO2	µg/m3	14	80	5	IS 5182 (Part 2)
4	Oxides of Nitrogen	µg/m3	31	80	7	IS 5182 (Part 6)
5	Carbon Monoxide as CO	mg/m3	0.69	4	0.1	IS 5182 (Part 10) NDIR method
6	Lead as Pb	µg/m3	BDL	1.0	0.04	USEPA Method IO-3.4

Remarks : NA

#### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*



Umesh Kumar

Authorized Signatory-Chemical