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TEST REPORT





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ULR No. : TC1181800	000001200F	Test Report No.:	NSTL111223NA042
Type of Sample: Emission Sta	ack- Boiler		
Name & Address of Customer	Talwandi Sabo Power Limited 3X660 MW, Thermal Power Plant, Mansa	Work Order No. & Date	WA23Y-00006 DT:05.05.202
	Talwandi Sabo Road Village Banawala, Distt. Mansa Punjab	Customer reference No. (If any)	NA
		Date of Sampling	08/12/2023
Sampling Protocol	IS 11255, CPCB: LATS/80/2013-14	Date of Sample Receipt	11/12/2023
Mode of Collection of Sample	Sampling by laboratory	Period of Analysis	11/12/2023 To 16/12/2023
Source of Emission	Boiler No.3 (Second Unit; Unit-3) 660MW	Date of Reporting	16/12/2023
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		=== value by rabile filter
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 12% CO2 Corr.	mg/Nm3	39	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	4.3	5	EL/SOP/FGA/01
5	Carbon Dioxide as CO2	%	10.8		EL/SOP/FGA/01
6	Oxides of Nitrogen as NOX at 6% O2 Corr.	mg/Nm3	178	200	EL/SOP/FGA/01
7	Oxygen as O2	%	6.5	1	EL/SOP/FGA/01
8	Temperature	°C	116		IS 11255 (Part 3)
9	Flue Gas Velocity	m/s	25.7		IS 11255 (Part 3)
10	Moisture	%	14.8		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

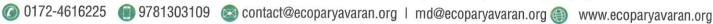
Stack- EL-FMT-7.8.2-SW

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TEST REPORT





MIX.00-1 VIII.0			E 40.8.2 E TC-11818
ULR No. : TC1181800	Test Report No.:	NSTL111223NA043	
Type of Sample: Emission St	ack- Boiler		
Name & Address of Customer	Talwandi Sabo Power Limited 3X660 MW, Thermal Power Plant, Mansa	Work Order No. & Date	WA23Y-00006 DT:05.05.202
	Talwandi Sabo Road Village Banawala, Distt. Mansa Punjab	Customer reference No. (If any)	NA
		Date of Sampling	08/12/2023
Sampling Protocol	IS 11255, CPCB: LATS/80/2013-14	Date of Sample Receipt	11/12/2023
Mode of Collection of Sample	Sampling by laboratory	Period of Analysis	11/12/2023 To 16/12/2023
Source of Emission	Boiler No.2 (First Unit; Unit-2) 660MW	Date of Reporting	16/12/2023
Stack Description	Single, Circular & Metal	Fuel Used	Coal
Point of Sample Collection	From Port Hole after APCD	APCD Details (If provided)	
Standard/Specification	Emission Stack- Boiler: EPA 1986	(ii provided)	Est followed by fabric filter
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 12% CO2 Corr.	mg/Nm3	41	5	IS 11255 (Part 1)
2	Sulphur Dioxide at 6% O2 Corr.	mg/Nm3	1148	5	EL/SOP/FGA/01
3	Mercury as Hg	mg/Nm3	BDL	0.01	USEPA Method 29
4	Carbon Monoxide as CO	mg/Nm3	4.4	5	EL/SOP/FGA/01
5	Carbon Dioxide as CO2	%	10.5		EL/SOP/FGA/01
6	Oxides of Nitrogen as NOX at 6% O2 Corr.	mg/Nm3	179		EL/SOP/FGA/01
7	Oxygen as O2	%	6.0	1	EL/SOP/FGA/01
8	Temperature	°C	121	0-25	IS 11255 (Part 3)
9	Flue Gas Velocity	m/s	25.6		IS 11255 (Part 3)
10	Moisture	%	14.5		IS 11255 (Part 3)

Remarks:

NA

OTHER INFORMATION

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Terms & Conditions:

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End of Report

Stack- EL-FMT-7.8.2-SW

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TEST REPORT





ULR No. : TC1181800	Test Report No.:	NSTL111223NA044	
Type of Sample: Emission Sta	ack- Boiler		
Name & Address of Customer	Talwandi Sabo Power Limited 3X660 MW, Thermal Power Plant, Mansa	Work Order No. & Date	WA23Y-00006 DT:05.05.202
	Talwandi Sabo Road Village Banawala, Distt. Mansa Punjab	Customer reference No. (If any)	NA
		Date of Sampling	08/12/2023
Sampling Protocol	IS 11255, CPCB: LATS/80/2013-14	Date of Sample Receipt	11/12/2023
Mode of Collection of Sample	Sampling by laboratory	Period of Analysis	11/12/2023 To 16/12/2023
Source of Emission	Boiler No.1 (Third Unit; Unit-1) 660MW	Date of Reporting	16/12/2023
Stack Description	Single, Circular & Metal	Fuel Used	Coal
Point of Sample Collection	From Port Hole after APCD	APCD Details (If provided)	
Standard/Specification	Emission Stack- Boiler: EPA 1986	(provided)	Lo. Tollowed by Tabile Title!
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 12% CO2 Corr.	mg/Nm3	38	5	IS 11255 (Part 1)
2	Sulphur Dioxide at 6% O2 Corr.	mg/Nm3	1108	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	%	10.9	1	EL/SOP/FGA/01
6	Oxides of Nitrogen as NOX at 6% O2 Corr.	mg/Nm3	180		EL/SOP/FGA/01
7	Oxygen as O2	%	6.1	1	EL/SOP/FGA/01
8	Temperature	°C	112		IS 11255 (Part 3)
9	Flue Gas Velocity	m/s	25.4		IS 11255 (Part 3)
10	Moisture	%	14.2		IS 11255 (Part 3)

Remarks:

NA

OTHER INFORMATION

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

End of Report

Stack- EL-FMT-7.8.2-SW

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TEST REPORT





ULR No. :	TC1181800000001706F	Test Report No.:	NAIL221223NA018
Type of Sample : A	Ambient Air	Date of Reporting:	28/12/2023
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
Sampling Protocol	IS 5182, EL-MSP-7.3	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	20/12/2023 To 21/12/2023	Date of Receipt of Sample	22/12/2023
Sampling Location	Station No.1	Period of Analysis	22/12/2023 To 28/12/2023
Standard/ Specification	National Ambient Air Quality: G.S.R.No.B-29016/20/19/PCI-L dated 18 Nov, 2009	Environmental Conditions	Clear Sky: fogg during night & early morning
Testing Location	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	129	100	5	IS 5182 (Part 23)
2	Particulate Matter as PM2.5	μg/m3	78	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	29	80	7	IS 5182 (Part 6)
5	Carbon Monoxide as CO	μg/m3	0.76	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:

OTHER INFORMATION Abbreviation:

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Terms & Conditions:

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

End of Report

Dr. Rai Singh (EL-0055) Authorized Signatory-Chemical

Ambient Air - EL-FMT-7.8.2 -AA

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TEST REPORT





	TC1181800000001707F	Test Report No.:	NAIL221223NA019
Type of Sample : A	Ambient Air	Date of Reporting:	28/12/2023
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
Sampling Protocol	IS 5182, EL-MSP-7.3	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	20/12/2023 To 21/12/2023	Date of Receipt of Sample	22/12/2023
Sampling Location	Station No.3	Period of Analysis	22/12/2023 To 28/12/2023
Standard/ Specification	National Ambient Air Quality: G.S.R.No.B-29016/20/19/PCI-L dated 18 Nov, 2009	Environmental Conditions	Clear Sky: fogg during night & early morning
Testing Location	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	142	100	5	IS 5182 (Part 23)
2	Particulate Matter as PM2.5	μg/m3	85	60	5	IS 5182 (Part 24)
3	Sulphur Dioxide as SO2	μg/m3	13	80	5	IS 5182 (Part 2)
4	Oxides of Nitrogen	μg/m3	27	80	7	IS 5182 (Part 6)
5	Carbon Monoxide as CO	μg/m3	0.82	4		IS 5182 (Part 10) NDIR method
6	Lead as Pb	μg/m3	BDL	1.0	0.04	USEPA Method IO-3.4

Remarks:

OTHER INFORMATION Abbreviation:

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Terms & Conditions:

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

End of Report

Dr. Rai Singh (EL-0055)

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Ambient Air - EL-FMT-7.8.2 -AA **ECO BHAWAN**

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



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TEST REPORT





ULR No. :	TC1181800000001708F	Test Report No.:	NAIL221223NA020
Type of Sample : A	Ambient Air	Date of Reporting:	28/12/2023
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
Sampling Protocol	IS 5182, EL-MSP-7.3	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	20/12/2023 To 21/12/2023	Date of Receipt of Sample	22/12/2023
Sampling Location	Village Chehlanwali	Period of Analysis	22/12/2023 To 28/12/2023
Standard/ Specification	National Ambient Air Quality: G.S.R.No.B-29016/20/19/PCI-L dated 18 Nov, 2009	Environmental Conditions	Clear Sky: fogg during night & early morning
Testing Location	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	148	100	5	IS 5182 (Part 23)
2	Particulate Matter as PM2.5	μg/m3	88	60	5	IS 5182 (Part 24)
3	Sulphur Dioxide as SO2	μg/m3	16	80	5	IS 5182 (Part 2)
4	Oxides of Nitrogen	μg/m3	35	80	7	IS 5182 (Part 6)
5	Carbon Monoxide as CO	μg/m3	0.92	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:

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End of Report

Dr. Rai Singh (EL-0055) Authorized Signatory-Chemical

Ambient Air - EL-FMT-7.8.2 -AA

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