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Testing Laboratory

TC-5843

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Malviya Nagar, Jaipur, Rajasthan – 302017: India
Tel: 0141-4805672 | Email – lab@irclass.org | Website : www.isspllab.com

TEST REPORT

	Report No.	ISSPL/EN/24-25/19262/A	**Date**	30/11/2024
1.	**Name & address of Customer**	**Power Mech Project Limited** Talwandi Sabo Power Ltd., 3X660MW Thermal Power Plant, Banawala, Mansa District Punjab		
2.	**Reference No.**	Your TRF Dated: 28/11/2024 (Reg. No. 79738)		
3.	Material Identification with details	Boiler Stack: Date and Time of Sampling: 26/11/2024 (04:55 pm to 05:25 pm), , Qty. 1 No.		
4.	**Sample code**	79738		
5.	**Date of sampling**	26/11/2024		
6.	**Date of Sample testing**	28/11/2024 To 30/11/2024		
7.	**Sampling duration (in minutes)**	30 Min.		
8.	Sampling Location	Boiler Stack (Third Unit, Unit-1) - 660 MW		
9.	**Sampling Protocol**	IS:11255 (Pt-1) 1985 (RA 2014)		
10.	Type of stack	MS Circular		
11.	Stack attached to	Boiler Stack		
12.	**Stack Diameter (in meters)**	7.2		
13.	**Stack height (in meters)**	275		
14.	**Type and quantity of fuel used**	Coal		
15.	**Instrument Code & Calibration Status**	ISSPL/INS/C/134		
16.	**Control Measures if any**	-		
17.	Ambient Temperature (oC)	26°C		
18.	**Flue Gas Temperature (oC)**	133°C		

RESULTS

S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
1	Particulate Matter (PM) at 6% O2 Corr.	IS 11255 (Part 1) 1985, RA:	35.14	mg/Nm3	1

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TEST REPORT

Report No.		ISSPL/EN/24-25/19262/A		Date	30/11/2024
S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
1		2019			
2	Sulphur dioxide (SO2) at 6% O2 Corr.	USEPA 6C: 1996/By Flue Gas Analyzer	904.18	mg/Nm3	0.3
3	Oxides of Nitrogen (NOX) at 6% O2 Corr.	USEPA 7E: 1990/By Flue Gas Analyzer	154.26	mg/Nm3	0.2
4	Carbon Monoxide as (CO)	USEPA 10: 1996/By Flue Gas Analyzer	4.4	PPM	0.1
5	Carbon Dioxide as (CO2)	USEPA 3A:1989	10.5	%	0.1
6	Oxyen as O2	USEPA 3A:1989	67.8	%	0.1
7	Mercury as (Hg)	USEPA 29:1996/101A:1991	BLQ(LOQ 0.001)	mg/Nm3	0.001

BLQ= Below Limit of Quantification, LOQ= Limit of Quantification

Remark: Sampling done by ISSPL Representative (Mr. Dinesh Jangid).

End of the Report

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TEST REPORT

	Report No.	ISSPL/EN/24-25/19262/B	Date	30/11/2024
1.	Name & address of Customer	**Power Mech Project Limited** Talwandi Sabo Power Ltd., 3X660MW Thermal Power Plant, Banawala, Mansa District Punjab		
2.	Reference No.	Your TRF Dated: 28/11/2024 (Reg. No. 79738)		
3.	Material Identification with details	Boiler Stack: Date and Time of Sampling: 26/11/2024 (04:55 pm to 05:25 pm), , Qty. 1 No.		
4.	Sample code	79738		
5.	Date of sampling	26/11/2024		
6.	Date of Sample testing	28/11/2024 To 30/11/2024		
7.	Sampling duration (in minutes)	30 Min.		
8.	Sampling Location	Boiler Stack (Third Unit, Unit-1) - 660 MW		
9.	Sampling Protocol	IS:11255 (Pt-1) 1985 (RA 2014)		
10.	Type of stack	MS Circular		
11.	Stack attached to	Boiler Stack		
12.	Stack Diameter (in meters)	7.2		
13.	Stack height (in meters)	275		
14.	Type and quantity of fuel used	Coal		
15.	Instrument Code & Calibration Status	ISSPL/INS/C/134		
16.	Control Measures if any	-		
17.	Ambient Temperature (oC)	26°C		
18.	Flue Gas Temperature (oC)	133°C		

RESULTS

S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
1	Velocity of Gas	CPCB Emission	26.5	m/s	Not Specified

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TEST REPORT

Report No.		ISSPL/EN/24-25/19262/B		Date	30/11/2024
S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
1		Regulation(Part -3)			
2.	Temperature	CPCB Emission Regulation(Part -3)	122	°C	5
3.	Moisture	USEPA 4	10.9	%	1

BLQ= Below Limit of Quantification, LOQ= Limit of Quantification

Remark: Sampling done by ISSPL Representative (Mr. Dinesh Jangid).

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TEST REPORT

	Report No.	ISSPL/EN/24-25/19261/A	Date	30/11/2024
1.	Name & address of Customer	**Power Mech Project Limited** Talwandi Sabo Power Ltd., 3X660MW Thermal Power Plant, Banawala, Mansa District Punjab		
2.	Reference No.	Your TRF Dated: 28/11/2024 (Reg. No. 79739)		
3.	Material Identification with details	Boiler Stack: Date and Time of Sampling: 26/11/2024 (04:20 pm to 04:50 pm), , Qty. 1 No.		
4.	Sample code	79739		
5.	Date of sampling	26/11/2024		
6.	Date of Sample testing	28/11/2024 To 30/11/2024		
7.	Sampling duration (in minutes)	30 Min.		
8.	Sampling Location	Boiler Stack (First Unit, Unit-2) - 660 MW		
9.	Sampling Protocol	IS:11255 (Pt-1) 1985 (RA 2014)		
10.	Type of stack	MS Circular		
11.	Stack attached to	Boiler Stack		
12.	Stack Diameter (in meters)	7.2		
13.	Stack height (in meters)	275		
14.	Type and quantity of fuel used	Coal		
15.	Instrument Code & Calibration Status	ISSPL/INS/C/134		
16.	Control Measures if any	-		
17.	Ambient Temperature (oC)	26°C		
18.	Flue Gas Temperature (oC)	131°C		

RESULTS

S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
1	Particulate Matter (PM) at 6% O2 Corr.	IS 11255 (Part 1) 1985, RA:	39.66	mg/Nm3	1

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TEST REPORT

Report No.		ISSPL/EN/24-25/19261/A		Date	30/11/2024
S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
1		2019			
2	Sulphur dioxide (SO2) at 6% O2 Corr.	USEPA 6C: 1996/By Flue Gas Analyzer	912.53	mg/Nm3	0.3
3	Oxides of Nitrogen (NOX) at 6% O2 Corr.	USEPA 7E: 1990/By Flue Gas Analyzer	228.3	mg/Nm3	0.2
4	Carbon Monoxide as (CO)	USEPA 10: 1996/By Flue Gas Analyzer	3.9	PPM	0.1
5	Carbon Dioxide as (CO2)	USEPA 3A:1989	10.2	%	0.1
6	Oxyen as O2	USEPA 3A:1989	7.6	%	0.1
7	Mercury as (Hg)	USEPA 29:1996/101A:1991	BLQ(LOQ 0.001)	mg/Nm3	0.001

BLQ= Below Limit of Quantification, LOQ= Limit of Quantification

Remark: Sampling done by ISSPL Representative (Mr. Dinesh Jangid).

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TEST REPORT

	Report No.	ISSPL/EN/24-25/19261/B	Date	30/11/2024
1.	Name & address of Customer	**Power Mech Project Limited** Talwandi Sabo Power Ltd., 3X660MW Thermal Power Plant, Banawala, Mansa District Punjab		
2.	Reference No.	Your TRF Dated: 28/11/2024 (Reg. No. 79739)		
3.	Material Identification with details	Boiler Stack: Date and Time of Sampling: 26/11/2024 (04:20 pm to 04:50 pm), , Qty. 1 No.		
4.	Sample code	79739		
5.	Date of sampling	26/11/2024		
6.	Date of Sample testing	28/11/2024 To 30/11/2024		
7.	Sampling duration (in minutes)	30 Min.		
8.	Sampling Location	Boiler Stack (First Unit, Unit-2) - 660 MW		
9.	Sampling Protocol	IS:11255 (Pt-1) 1985 (RA 2014)		
10.	Type of stack	MS Circular		
11.	Stack attached to	Boiler Stack		
12.	Stack Diameter (in meters)	7.2		
13.	Stack height (in meters)	275		
14.	Type and quantity of fuel used	Coal		
15.	Instrument Code & Calibration Status	ISSPL/INS/C/134		
16.	Control Measures if any	-		
17.	Ambient Temperature (oC)	26°C		
18.	Flue Gas Temperature (oC)	131°C		

RESULTS

S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
1	Velocity of Gas	CPCB Emission	26.9	m/s	Not Specified

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TEST REPORT

Report No.		ISSPL/EN/24-25/19261/B		Date	30/11/2024
S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
1		Regulation(Part -3)			
2.	Temperature	CPCB Emission Regulation(Part -3)	128	°C	5
3.	Moisture	USEPA 4	11.8	%	1

BLQ= Below Limit of Quantification, LOQ= Limit of Quantification

Remark: Sampling done by ISSPL Representative (Mr. Dinesh Jangid).

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TEST REPORT

	Report No.	ISSPL/EN/24-25/19260/A	**Date**	30/11/2024
1.	**Name & address of Customer**	Power Mech Project Limited Talwandi Sabo Power Ltd., 3X660MW Thermal Power Plant, Banawala, Mansa District Punjab		
2.	**Reference No.**	Your TRF Dated: 28/11/2024 (Reg. No. 79740)		
3.	**Material Identification with details**	Boiler Stack: Date and Time of Sampling: 26/11/2024 (03:45 pm to 04:15 pm), , Qty. 1 No.		
4.	**Sample code**	79740		
5.	**Date of sampling**	26/11/2024		
6.	**Date of Sample testing**	28/11/2024 To 30/11/2024		
7.	**Sampling duration (in minutes)**	30 Min.		
8.	**Sampling Location**	Boiler Stack (Second Unit - Unit-3) – 660 MW		
9.	**Sampling Protocol**	IS:11255 (Pt-1) 1985 (RA 2014)		
10.	**Type of stack**	MS Circular		
11.	**Stack attached to**	Boiler Stack		
12.	**Stack Diameter (in meters)**	7.2		
13.	**Stack height (in meters)**	275		
14.	**Type and quantity of fuel used**	Coal		
15.	**Instrument Code & Calibration Status**	ISSPL/INS/C/134		
16.	**Control Measures if any**	-		
17.	**Ambient Temperature (oC)**	26°C		
18.	**Flue Gas Temperature (oC)**	127°C		

RESULTS

S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
1	Particulate Matter (PM) at 6% O2 Corr.	IS 11255 (Part 1) 1985, RA:	34.9	mg/Nm3	1

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TEST REPORT

Report No.		ISSPL/EN/24-25/19260/A		Date	30/11/2024
S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
1		2019			
2	Sulphur dioxide (SO2) at 6% O2 Corr.	USEPA 6C: 1996/By Flue Gas Analyzer	914.23	mg/Nm3	0.3
3	Oxides of Nitrogen (NOX) at 6% O2 Corr.	USEPA 7E: 1990/By Flue Gas Analyzer	158.14	mg/Nm3	0.2
4	Carbon Monoxide as (CO)	USEPA 10: 1996/By Flue Gas Analyzer	3.9	PPM	0.1
5	Carbon Dioxide as (CO2)	USEPA 3A:1989	11.9	%	0.1
6	Oxyen as O2	USEPA 3A:1989	7.4	%	0.1
7	Mercury as (Hg)	USEPA 29:1996/101A:1991	BLQ(LOQ 0.001)	mg/Nm3	0.001

BLQ= Below Limit of Quantification, LOQ= Limit of Quantification

Remark: Sampling done by ISSPL Representative (Mr. Dinesh Jangid).

End of the Report

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TEST REPORT

	Report No.	ISSPL/EN/24-25/19260/B	**Date**	30/11/2024
1.	**Name & address of Customer**	**Power Mech Project Limited** Talwandi Sabo Power Ltd., 3X660MW Thermal Power Plant, Banawala, Mansa District Punjab		
2.	**Reference No.**	Your TRF Dated: 28/11/2024 (Reg. No. 79740)		
3.	**Material Identification with details**	Boiler Stack: Date and Time of Sampling: 26/11/2024 (03:45 pm to 04:15 pm), , Qty. 1 No.		
4.	**Sample code**	79740		
5.	**Date of sampling**	26/11/2024		
6.	**Date of Sample testing**	28/11/2024 To 30/11/2024		
7.	**Sampling duration (in minutes)**	30 Min.		
8.	**Sampling Location**	Boiler Stack (Second Unit - Unit-3) – 660 MW		
9.	**Sampling Protocol**	IS:11255 (Pt-1) 1985 (RA 2014)		
10.	**Type of stack**	MS Circular		
11.	**Stack attached to**	Boiler Stack		
12.	**Stack Diameter (in meters)**	7.2		
13.	**Stack height (in meters)**	275		
14.	**Type and quantity of fuel used**	Coal		
15.	**Instrument Code & Calibration Status**	ISSPL/INS/C/134		
16.	**Control Measures if any**	-		
17.	**Ambient Temperature (oC)**	26°C		
18.	**Flue Gas Temperature (oC)**	127°C		

RESULTS

S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
1	Velocity of Gas	CPCB Emission	26.4	m/s	Not Specified

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TEST REPORT

Report No.		ISSPL/EN/24-25/19260/B		Date	30/11/2024
S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
1		Regulation(Part -3)			
2.	Temperature	CPCB Emission Regulation(Part -3)	131	°C	5
3.	Moisture	USEPA 4	11.6	%	1

BLQ= Below Limit of Quantification, LOQ= Limit of Quantification

Remark: Sampling done by ISSPL Representative (Mr. Dinesh Jangid).

End of the Report

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TEST REPORT

	Report No.	ISSPL/EN/24-25/18779	Date	20/11/2024
1.	Name & address of Customer	**Power Mech Project Limited** Talwandi Sabo Power Ltd., 3X660MW Thermal Power Plant, Banawala, Mansa District Punjab		
2.	Reference No.	Your Dated: 19/11/2024 (Reg. No. 80221)		
3.	Material Identification with details	**Ambient Air Quality Monitoring:** Qty. 1 No.		
4.	Date of Sampling	14/11/2024 - 15/11/2024		
5.	Time of Sampling	12:20 pm to 12:20 pm		
6	Sampling Location	Station No.1 (CAAQMS)		
7.	Sampling Protocol	IS:5182 (Pt-14) 2000		
8.	Duration of Sampling (Minutes)	1440 Min.		
9.	Test Started On	19/11/2024		
10.	Test Completed On	20/11/2024		
11.	Date of sample Testing	19/11/2024 To 20/11/2024		
12.	Nature & Activity of the Unit	Human and Plant Site Activities		
13.	Ambient Temperature (oC)	Min. 16°C, Max. 27°C		
14.	Weather Condition during Monitoring	Clear Sky		
15.	Instrument Code & Calibration Status	ISSPL/INS/C/212, ISSPL/INS/197,ISSPL/INS/C/126		

RESULTS

S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*	Detection Limit
I.Chemical Parameter:-						
1. Atmospheric Pollution						
1	Sulphur Dioxide (as SO2)	IS:5182 (Part 2)-2001, Reaff :2017	9.45	µg/m³	80 (Max.)	4
2	Nitrogen Dioxide(as NO2)	IS:5182 (Part 6)-2006, Reaff :2017	33.76	µg/m³	80 (Max.)	6

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TEST REPORT

Report No.		ISSPL/EN/24-25/18779			Date	20/11/2024
S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*	Detection Limit
3	Particulate Matter (as PM2.5)	IS:5182 (Part 24):2019	80.7	µg/m³	60 (Max.)	1
4	Particulate Matter (as PM10)	IS:5182 (Part 23)-2006, Reaff:2017	152.7	µg/m³	100 (Max.)	2
5	Ammonia (as Total ammonia-N)	IS:5182 (Part 25) :2018	19.2	µg/m³	400 (Max.)	0.1
6	Ozone (as O3)	IS 5182 (P-9):1974, Reaff:2014	34	µg/m³	180 (Max.)	1
7	Carbon Monoxide (as CO)	IS 5182 (Part - 10):1999	1.87	mg/m³	4 (Max.)	0.02
8	Benzene	IS: 5182 (Part 11) :2006 Reaff. 2017	BLQ(LOQ 1.0)	µg/m³	5.0 (Max.)	1.0
9	Benzo(a)pyrene	IS: 5182 (Part-12)-2004, Reaff:2014	BLQ(LOQ:0.0005)	ng/m³	1.0 (Max.)	0.0005
10	Nickel (as Ni)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.5)	ng/m³	20.0 (Max.)	0.5
11	Arsenic (as As)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.5)	ng/m³	6.0 (Max.)	0.5
12	Lead (as Pb)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.0005)	µg/m³	1.0 (Max.)	0.0005

BLQ= Below Limit of Quantification, LOQ= Limit of Quantification

*NAAQS- National Ambient Air Quality **Does Not Standards**; Schedule-VII, [Rule 3 (3B)], [Part-II-se.-3(i)] 16.11.2009. Remark: Sampling done by ISSPL Representative (Mr.Dinesh Jangid).

End of the Report

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TEST REPORT

	Report No.	ISSPL/EN/24-25/18777	**Date**	20/11/2024
1.	**Name & address of Customer**	**Power Mech Project Limited** Talwandi Sabo Power Ltd., 3X660MW Thermal Power Plant, Banawala, Mansa District Punjab		
2.	**Reference No.**	Your Dated: 19/11/2024 (Reg. No. 80223)		
3.	**Material Identification with details**	**Ambient Air Quality Monitoring:** Qty. 1 No.		
4.	**Date of Sampling**	14/11/2024 - 15/11/2024		
5.	**Time of Sampling**	01:34 pm to 01:34 pm		
6.	**Sampling Location**	Station No.2 (CAAQMS)		
7.	**Sampling Protocol**	IS:5182 (Pt-14) 2000		
8.	**Duration of Sampling (Minutes)**	1440 Min.		
9.	**Test Started On**	19/11/2024		
10.	**Test Completed On**	20/11/2024		
11.	**Date of sample Testing**	19/11/2024 To 20/11/2024		
12.	**Nature & Activity of the Unit**	Human and Plant Site Activities		
13.	**Ambient Temperature (oC)**	Min. 16°C, Max. 27°C		
14.	**Weather Condition during Monitoring**	Clear Sky		
15.	**Instrument Code & Calibration Status**	ISSPL/INS/C/212, ISSPL/INS/197,ISSPL/INS/C/126		

RESULTS

S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*	Detection Limit
I.Chemical Parameter:-						
1. Atmospheric Pollution						
1	Sulphur Dioxide (as SO2)	IS:5182 (Part 2)-2001, Reaff :2017	8.93	µg/m³	80 (Max.)	4
2	Nitrogen Dioxide(as NO2)	IS:5182 (Part 6)-2006, Reaff :2017	32.17	µg/m³	80 (Max.)	6

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IRCLASS Systems And Solutions Pvt. Ltd. Jaipur

Parmeshwar Lal
Authorised Signatory

IRCLASS
SYSTEMS AND SOLUTIONS PRIVATE LIMITED
(Promoted by Indian Register of Shipping)
Testing Laboratory

TC-5843

CEG Tower, 1st & 2 nd Floor, B-11G, Industrial Area,
Malviya Nagar, Jaipur, Rajasthan – 302017: India
Tel: 0141-4805672 | Email – lab@irclass.org | Website : www.isspllab.com

TEST REPORT

Report No.		ISSPL/EN/24-25/18777			Date	20/11/2024
S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*	Detection Limit
3	Particulate Matter (as PM2.5)	IS:5182 (Part 24):2019	81.6	µg/m³	60 (Max.)	1
4	Particulate Matter (as PM10)	IS:5182 (Part 23)-2006, Reaff:2017	148.2	µg/m³	100 (Max.)	2
5	Ammonia (as Total ammonia-N)	IS:5182 (Part 25) :2018	18.8	µg/m³	400 (Max.)	0.1
6	Ozone (as O3)	IS 5182 (P-9):1974, Reaff:2014	32.2	µg/m³	180 (Max.)	1
7	Carbon Monoxide (as CO)	IS 5182 (Part - 10):1999	1.36	mg/m³	4 (Max.)	0.02
8	Benzene	IS: 5182 (Part 11) :2006 Reaff. 2017	BLQ(LOQ 1.0)	µg/m³	5.0 (Max.)	1.0
9	Benzo(a)pyrene	IS: 5182 (Part-12)-2004, Reaff:2014	BLQ(LOQ:0.0005)	ng/m³	1.0 (Max.)	0.0005
10	Nickel (as Ni)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.5)	ng/m³	20.0 (Max.)	0.5
11	Arsenic (as As)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.5)	ng/m³	6.0 (Max.)	0.5
12	Lead (as Pb)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.0005)	µg/m³	1.0 (Max.)	0.0005

BLQ= Below Limit of Quantification, LOQ= Limit of Quantification

*NAAQS- National Ambient Air Quality **Does Not Standards;** Schedule-VII, [Rule 3 (3B)], [Part-II-se.-3(i)] 16.11.2009.

Remark: Sampling done by ISSPL Representative (Mr.Dinesh Jangid).

End of the Report

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TEST REPORT

	Report No.	ISSPL/EN/24-25/18780	Date	20/11/2024
1.	Name & address of Customer	Power Mech Project Limited Talwandi Sabo Power Ltd., 3X660MW Thermal Power Plant, Banawala, Mansa District Punjab		
2.	Reference No.	Your Dated: 19/11/2024 (Reg. No. 80220)		
3.	Material Identification with details	Ambient Air Quality Monitoring: Qty. 1 No.		
4.	Date of Sampling	14/11/2024 - 15/11/2024		
5.	Time of Sampling	12:57 pm to 12:57 pm		
6.	Sampling Location	Station No.3 (CAAQMS)		
7.	Sampling Protocol	IS:5182 (Pt-14) 2000		
8.	Duration of Sampling (Minutes)	1440 Min.		
9.	Test Started On	19/11/2024		
10.	Test Completed On	20/11/2024		
11.	Date of sample Testing	19/11/2024 To 20/11/2024		
12.	Nature & Activity of the Unit	Human and Plant Site Activities		
13.	Ambient Temperature (oC)	Min. 16°C, Max. 27°C		
14.	Weather Condition during Monitoring	Clear Sky		
15.	Instrument Code & Calibration Status	ISSPL/INS/C/214, ISSPL/INS/228,ISSPL/INS/C/219		

RESULTS

S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*	Detection Limit
I.Chemical Parameter:-						
1. Atmospheric Pollution						
1	Sulphur Dioxide (as SO2)	IS:5182 (Part 2)-2001, Reaff :2017	9.6	µg/m³	80 (Max.)	4
2	Nitrogen Dioxide(as NO2)	IS:5182 (Part 6)-2006, Reaff :2017	34.19	µg/m³	80 (Max.)	6

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TEST REPORT

Report No.		ISSPL/EN/24-25/18780			Date	20/11/2024
S.No.	**Name of Test**	**Method of Test**	**Results**	**Unit**	**Limit as per NAAQS***	**Detection Limit**
3	Particulate Matter (as PM2.5)	IS:5182 (Part 24):2019	78.4	µg/m³	60 (Max.)	1
4	Particulate Matter (as PM10)	IS:5182 (Part 23)-2006, Reaff:2017	149.1	µg/m³	100 (Max.)	2
5	Ammonia (as Total ammonia-N)	IS:5182 (Part 25) :2018	17.8	µg/m³	400 (Max.)	0.1
6	Ozone (as O3)	IS 5182 (P-9):1974, Reaff:2014	35.8	µg/m³	180 (Max.)	1
7	Carbon Monoxide (as CO)	IS 5182 (Part - 10):1999	1.48	mg/m³	4 (Max.)	0.02
8	Benzene	IS: 5182 (Part 11) :2006 Reaff. 2017	BLQ(LOQ 1.0)	µg/m³	5.0 (Max.)	1.0
9	Benzo(a)pyrene	IS: 5182 (Part-12)-2004, Reaff:2014	BLQ(LOQ:0.0005)	ng/m³	1.0 (Max.)	0.0005
10	Nickel (as Ni)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.5)	ng/m³	20.0 (Max.)	0.5
11	Arsenic (as As)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.5)	ng/m³	6.0 (Max.)	0.5
12	Lead (as Pb)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.0005)	µg/m³	1.0 (Max.)	0.0005

BLQ= Below Limit of Quantification, LOQ= Limit of Quantification

***NAAQS-** National Ambient Air Quality **Does Not Standards;** Schedule-VII, [Rule 3 (3B)], [Part-II-se.-3(i)] 16.11.2009. Remark: Sampling done by ISSPL Representative (Mr.Dinesh Jangid).

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TEST REPORT

	Report No.	ISSPL/EN/24-25/18778	Date	20/11/2024
1.	Name & address of Customer	**Power Mech Project Limited** Talwandi Sabo Power Ltd., 3X660MW Thermal Power Plant, Banawala, Mansa District Punjab		
2.	Reference No.	Your Dated: 19/11/2024 (Reg. No. 80222)		
3.	Material Identification with details	**Ambient Air Quality Monitoring:** Qty. 1 No.		
4.	Date of Sampling	13/11/2024 - 14/11/2024		
5.	Time of Sampling	09:38 am to 09:38 am		
6.	Sampling Location	Station No.4 (CAAQMS)		
7.	Sampling Protocol	IS:5182 (Pt-14) 2000		
8.	Duration of Sampling (Minutes)	1440 Min.		
9.	Test Started On	19/11/2024		
10.	Test Completed On	20/11/2024		
11.	Date of sample Testing	19/11/2024 To 20/11/2024		
12.	Nature & Activity of the Unit	Human and Plant Site Activities		
13.	Ambient Temperature (oC)	Min. 16°C, Max. 27°C		
14.	Weather Condition during Monitoring	Clear Sky		
15.	Instrument Code & Calibration Status	ISSPL/INS/C/214, ISSPL/INS/228,ISSPL/INS/C/219		

RESULTS

S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*	Detection Limit
I.Chemical Parameter:-						
1. Atmospheric Pollution						
1	Sulphur Dioxide (as SO2)	IS:5182 (Part 2)-2001, Reaff :2017	8.34	µg/m³	80 (Max.)	4
2	Nitrogen Dioxide(as NO2)	IS:5182 (Part 6)-2006, Reaff :2017	31.41	µg/m³	80 (Max.)	6

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TEST REPORT

Report No.		ISSPL/EN/24-25/18778			Date	20/11/2024
S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*	Detection Limit
3	Particulate Matter (as PM2.5)	IS:5182 (Part 24):2019	85.4	µg/m³	60 (Max.)	1
4	Particulate Matter (as PM10)	IS:5182 (Part 23)-2006, Reaff:2017	157.7	µg/m³	100 (Max.)	2
5	Ammonia (as Total ammonia-N)	IS:5182 (Part 25) :2018	18.5	µg/m³	400 (Max.)	0.1
6	Ozone (as O3)	IS 5182 (P-9):1974, Reaff:2014	33.9	µg/m³	180 (Max.)	1
7	Carbon Monoxide (as CO)	IS 5182 (Part - 10):1999	1.56	mg/m³	4 (Max.)	0.02
8	Benzene	IS: 5182 (Part 11) :2006 Reaff. 2017	BLQ(LOQ 1.0)	µg/m³	5.0 (Max.)	1.0
9	Benzo(a)pyrene	IS: 5182 (Part-12)-2004, Reaff:2014	BLQ(LOQ:0.0005)	ng/m³	1.0 (Max.)	0.0005
10	Nickel (as Ni)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.5)	ng/m³	20.0 (Max.)	0.5
11	Arsenic (as As)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.5)	ng/m³	6.0 (Max.)	0.5
12	Lead (as Pb)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.0005)	µg/m³	1.0 (Max.)	0.0005

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