



CEG Tower, 1st & 2nd 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/25-26/02530/A	Date	20/05/2025
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: 14/05/2025 (Reg. No. 25-26/96470)	
3.	Material Identification with details	Boiler Stack: Date and Time of Sampling: 14/05/2025 (08:00 am to 08:26 am), Qty. 1 No.	
4.	Sample code	96470	
5.	Date of sampling	14/05/2025	
6.	Date of Sample testing	14/05/2025 To 20/05/2025	
7.	Sampling duration (in minutes)	26 Min.	
8.	Sampling Location	Boiler Stack (Unit-1 Third Unit) 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)	39°C	
18.	Flue Gas Temperature (oC)	129°C	

RESULTS

S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
I. Chemical Testing:-					
1. Atmospheric Pollution:-					
1	Particulate Matter (PM)	IS 11255 (Part 1) 1985, RA:	34.5	mg/Nm3	1

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TEST REPORT

Report No.		ISSPL/EN/25-26/02530/A			Date	20/05/2025
S.No.	Test Parameters	Test Method	Results	Units	Detection Limit	
		2019				
2	Sulphur dioxide (SO ₂)	USEPA 6C: 1996/By Flue Gas Analyzer	996.2	mg/Nm ³	0.3	
3	Oxides of Nitrogen (NO _x)	USEPA 7E: 1990/By Flue Gas Analyzer	184.5	mg/Nm ³	0.2	
4	Carbon Monoxide as (CO)	USEPA 10: 1996/By Flue Gas Analyzer	4.9	PPM	0.1	
5	Carbon Dioxide as CO ₂	USEPA 3A:1989	10.2	%	0.1	
6	Oxygen as O ₂	USEPA 3A:1989	7.2	%	0.1	
7	Mercury as (Hg)	USEPA 29:1996/101A:1991	BLQ(LOQ: 0.001)	mg/Nm ³	0.001	

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

Remark:1: PM, SO₂, NO_x at 6% O₂ Corr.

Remark-2: Sampling done by ISSPL Representative (Mr.Pokhar Nath Yogi).

****End of the Report****

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Meeraj Kumar
Authorised Signatory

TEST REPORT

Report No.	ISSPL/EN/25-26/02530/B	Date	20/05/2025
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: 14/05/2025 (Reg. No. 25-26/96470)		
3. Material Identification with details	Boiler Stack: Date and Time of Sampling: 14/05/2025 (08:00 am to 08:26 am), Qty. 1 No.		
4. Sample code	96470		
5. Date of sampling	14/05/2025		
6. Date of Sample testing	14/05/2025 To 20/05/2025		
7. Sampling duration (in minutes)	26 Min.		
8. Sampling Location	Boiler Stack (Unit-1 Third Unit) 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)	39°C		
18. Flue Gas Temperature (oC)	129°C		

RESULTS

S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
3I. Chemical Testing:-					
1. Atmospheric Pollution:-					
1	Velocity of Gas	CPCB Emission	26.5	m/s	Not Specified

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TEST REPORT

Report No.		ISSPL/EN/25-26/02530/B			Date	20/05/2025
S.No.	Test Parameters	Test Method	Results	Units	Detection Limit	
		Regulation(Part -3)				
2	Temperature	CPCB Emission Regulation(Part -3)	129	°C	5	
3	Moisture	USEPA 4	11.0	%	1	

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

Remark:1: PM, SO₂, NO_X at 6% O₂ Corr.

Remark-2: Sampling done by ISSPL Representative (Mr.Pokhar Nath Yogi).

****End of the Report****


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Neeraj Kumar
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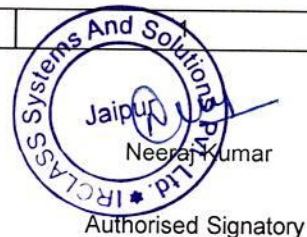
Report No.	ISSPL/EN/25-26/02531/A	Date	20/05/2025
1. Name & address of Customer	Power Mech Project Limited Talwandi Sabo Power Ltd., 3X660MW Thermal Power Plant, Banawala, Mansa District Punjab		
2. Reference No.	Your TRF Dated: 14/05/2025 (Reg. No. 25-26/96469)		
3. Material Identification with details	Boiler Stack: Date and Time of Sampling: 14/05/2025 (09:00 am to 09:25 am), Qty. 1 No.		
4. Sample code	96469		
5. Date of sampling	14/05/2025		
6. Date of Sample testing	14/05/2025 To 20/05/2025		
7. Sampling duration (in minutes)	25 Min.		
8. Sampling Location	Boiler Stack (Unit-2 First Unit) 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)	39°C		
18. Flue Gas Temperature (oC)	130°C		

RESULTS

S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
I. Chemical Testing:-					
1. Atmospheric Pollution:-					
1	Particulate Matter (PM)	IS 11255 (Part 1) 1985, RA:	37.3	mg/Nm3	

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 Jaipur
 Neeraj Kumar
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Report No.		ISSPL/EN/25-26/02531/A		Date	
S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
		2019			
2	Sulphur dioxide (SO ₂)	USEPA 6C: 1996/By Flue Gas Analyzer	1002.6	mg/Nm ³	0.3
3	Oxides of Nitrogen (NO _x)	USEPA 7E: 1990/By Flue Gas Analyzer	192.8	mg/Nm ³	0.2
4	Carbon Monoxide as (CO)	USEPA 10: 1996/By Flue Gas Analyzer	5.2	PPM	0.1
5	Carbon Dioxide as CO ₂	USEPA 3A:1989	10.4	%	0.1
6	Oxygen as O ₂	USEPA 3A:1989	7.4	%	0.1
7	Mercury as (Hg)	USEPA 29:1996/101A:1991	BLQ(LOQ: 0.001)	mg/Nm ³	0.001

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

Remark-1: PM, SO₂, NO_x at 6% O₂ Corr.

Remark-2: Sampling done by ISSPL Representative (Mr.Pokhar Nath Yogi).

****End of the Report****

Reviewed By

IRCLASS Systems And Solutions
Jaipur
Neeraj Kumar

Authorised Signatory

TEST REPORT

Report No.	ISSPL/EN/25-26/02531/B	Date	20/05/2025
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: 14/05/2025 (Reg. No. 25-26/96469)		
3. Material Identification with details	Boiler Stack: Date and Time of Sampling: 14/05/2025 (09:00 am to 09:25 am), Qty. 1 No.		
4. Sample code	96469		
5. Date of sampling	14/05/2025		
6. Date of Sample testing	14/05/2025 To 20/05/2025		
7. Sampling duration (in minutes)	25 Min.		
8. Sampling Location	Boiler Stack (Unit-2 First Unit) 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)	39°C		
18. Flue Gas Temperature (oC)	130°C		

RESULTS

S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
3I. Chemical Testing:-					
1. Atmospheric Pollution:-					
1	Velocity of Gas	CPCB Emission	27.0	m/s	Not Specified

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Neeraj Kumar
Jaipur
Authorised Signatory

TEST REPORT

Report No.		ISSPL/EN/25-26/02531/B			Date	20/05/2025
S.No.	Test Parameters	Test Method	Results	Units	Detection Limit	
		Regulation(Part -3)				
2	Temperature	CPCB Emission Regulation(Part -3)	130	°C	5	
3	Moisture	USEPA 4	10.8	%	1	

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

Remark-1: PM, SO₂, NO_X at 6% O₂ Corr.

Remark-2: Sampling done by ISSPL Representative (Mr.Pokhar Nath Yogi).

****End of the Report****

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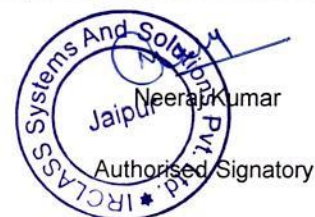
Report No.	ISSPL/EN/25-26/02532/A	Date	20/05/2025
1. Name & address of Customer	Power Mech Project Limited Talwandi Sabo Power Ltd., 3X660MW Thermal Power Plant, Banawala, Mansa District Punjab		
2. Reference No.	Your TRF Dated: 14/05/2025 (Reg. No. 25-26/96468)		
3. Material Identification with details	Boiler Stack: Date and Time of Sampling: 14/05/2025 (09:40 am to 10:06 am), Qty. 1 No.		
4. Sample code	96468		
5. Date of sampling	14/05/2025		
6. Date of Sample testing	14/05/2025 To 20/05/2025		
7. Sampling duration (in minutes)	26 Min.		
8. Sampling Location	Boiler Stack (Unit-3 Second Unit) 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)	39°C		
18. Flue Gas Temperature (oC)	132°C		

RESULTS

S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
I. Chemical Testing:-					
1. Atmospheric Pollution:-					
1	Particulate Matter (PM)	IS 11255 (Part 1) 1985, RA:	38.6	mg/Nm3	1

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Report No.		ISSPL/EN/25-26/02532/A			Date	20/05/2025
S.No.	Test Parameters	Test Method	Results	Units	Detection Limit	
		2019				
2	Sulphur dioxide (SO ₂)	USEPA 6C: 1996/By Flue Gas Analyzer	989.9	mg/Nm ³	0.3	
3	Oxides of Nitrogen (NO _x)	USEPA 7E: 1990/By Flue Gas Analyzer	187.1	mg/Nm ³	0.2	
4	Carbon Monoxide as (CO)	USEPA 10: 1996/By Flue Gas Analyzer	5.1	PPM	0.1	
5	Carbon Dioxide as CO ₂	USEPA 3A:1989	10.1	%	0.1	
6	Oxygen as O ₂	USEPA 3A:1989	7.2	%	0.1	
7	Mercury as (Hg)	USEPA 29:1996/101A:1991	BLQ(LOQ: 0.001)	mg/Nm ³	0.001	

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

Remark-1: PM, SO₂, NO_x at 6% O₂ Corr.

Remark-2: Sampling done by ISSPL Representative (Mr.Pokhar Nath Yogi).

****End of the Report****

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Neeraj Kumar
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TEST REPORT

Report No.	ISSPL/EN/25-26/02532/B	Date	20/05/2025
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: 14/05/2025 (Reg. No. 25-26/96468)		
3. Material Identification with details	Boiler Stack: Date and Time of Sampling: 14/05/2025 (09:40 am to 10:06 am), Qty. 1 No.		
4. Sample code	96468		
5. Date of sampling	14/05/2025		
6. Date of Sample testing	14/05/2025 To 20/05/2025		
7. Sampling duration (in minutes)	26 Min.		
8. Sampling Location	Boiler Stack (Unit-3 Second Unit) 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)	39°C		
18. Flue Gas Temperature (oC)	132°C		

RESULTS

S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
3I. Chemical Testing:-					
1. Atmospheric Pollution:-					
1	Velocity of Gas	CPCB Emission	26.8	m/s	Not Specified

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TEST REPORT

Report No.		ISSPL/EN/25-26/02532/B		Date		20/05/2025
S.No.	Test Parameters	Test Method	Results	Units	Detection Limit	
		Regulation(Part -3)				
2	Temperature	CPCB Emission Regulation(Part -3)	132	°C	5	
3	Moisture	USEPA 4	11.4	%	1	

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

Remark:1: PM, SO₂, NO_x at 6% O₂ Corr.

Remark-2: Sampling done by ISSPL Representative (Mr.Pokhar Nath Yogi).

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TEST REPORT

Report No.	ISSPL/EN/25-26/02632	Date	20/05/2025
1. Name & address of Customer	KEPCO Plant Service & Engineering Co. Ltd. Talwandi Sabo Power Ltd., 3X660MW Thermal Power Plant, Banawala, Mansa District Punjab		
2. Reference No.	Your TRF Dated: 15/05/2025 (Reg.No. 25-26/96368)		
3. Material Identification with details	Ambient Air Quality Monitoring: Qty. 1 No.		
4. Date of Sampling	12/05/2025 - 13/05/2025		
5. Time of Sampling	10:00 am to 10:00 am		
6. Sampling Location	Station No.1 (CAAQMS No. - 1)		
7. Sampling Protocol	IS:5182 (Pt-14) 2000		
8. Duration of Sampling (Minutes)	1440 Min.		
9. Test Started On	15/05/2025		
10. Test Completed On	20/05/2025		
11. Date of sample Testing	15/05/2025 To 20/05/2025		
12. Nature & Activity of the Unit	Human and Plant Site Activities		
13. Ambient Temperature (oC)	Min. 28°C, Max. 43°C		
14. Weather Condition during Monitoring	Clear Sky		
15. Instrument Code & Calibration Status	ISSPL/INS/C/120, ISSPL/INS/C/128, ISSPL/INS/C/217		

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 SO ₂)	IS:5182 (Part 2)-2001, Reaff :2017	8.8	µg/m ³	80 (Max.)	4
2	Nitrogen Dioxide(as NO ₂)	IS:5182 (Part 6)-2006, Reaff :2017	15.6	µg/m ³	80 (Max.)	6

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TEST REPORT

Report No.		ISSPL/EN/25-26/02632			Date		20/05/2025
S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*	Detection Limit	
3	Particulate Matter (as PM _{2.5})	IS:5182 (Part 24):2019	32.5	µg/m ³	60 (Max.)	1	
4	Particulate Matter (as PM ₁₀)	IS:5182 (Part 23)-2006, Reaff:2017	69.1	µg/m ³	100 (Max.)	2	
5	Ammonia (as Total ammonia-N)	IS:5182 (Part 25):2018	8.56	µg/m ³	400 (Max.)	0.1	
6	Ozone (as O ₃)	IS 5182 (P-9):1974, Reaff:2014	21.4	µg/m ³	180 (Max.)	1	
7	Carbon Monoxide (as CO)	IS 5182 (Part - 10):1999	0.83	mg/m ³	4 (Max.)	0.02	
8	Benzene	IS: 5182 (Part 11):2006 Reaff. 2017	BLQ(LOQ 1.0)	µg/m ³	5.0 (Max.)	1.0	
9	Benzo(a)pyrene	IS: 5182 (Part-12)-2004, Reaff:2014	BLQ(LOQ:0.0005)	ng/m ³	1.0 (Max.)	0.0005	
10	Nickel (as Ni)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.5)	ng/m ³	20.0 (Max.)	0.5	
11	Arsenic (as As)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.5)	ng/m ³	6.0 (Max.)	0.5	
12	Lead (as Pb)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.0005)	µg/m ³	1.0 (Max.)	0.0005	

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

*NAAQS- National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-se.-3(i)] 16.11.2009.

Remark: Sampling done by ISSPL Representative (Mr. Pokhar Nath Yogi).

End of the Report



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TEST REPORT

Report No.	ISSPL/EN/25-26/02633	Date	20/05/2024
1. Name & address of Customer	KEPCO Plant Service & Engineering Co. Ltd. Talwandi Sabo Power Ltd., 3X660MW Thermal Power Plant, Banawala, Mansa District Punjab		
2. Reference No.	Your TRF Dated: 14/05/2025 (Reg.No. 25-26/96367)		
3. Material Identification with details	Ambient Air Quality Monitoring: Qty. 1 No.		
4. Date of Sampling	12/05/2025 - 13/05/2025		
5. Time of Sampling	10:30 am to 10:30 am		
6. Sampling Location	Station No.2 (CAAQMS No.- 2)		
7. Sampling Protocol	IS:5182 (Pt-14) 2000		
8. Duration of Sampling (Minutes)	1440 Min.		
9. Test Started On	15/05/2025		
10. Test Completed On	20/05/2025		
11. Date of sample Testing	15/05/2025 To 20/05/2025		
12. Nature & Activity of the Unit	Human and Plant Site Activities		
13. Ambient Temperature (oC)	Min. 28°C, Max. 43°C		
14. Weather Condition during Monitoring	Clear Sky		
15. Instrument Code & Calibration Status	ISSPL/INS/C/122, ISSPL/INS/C/209, ISSPL/INS/C/218		

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 SO ₂)	IS:5182 (Part 2)-2001, Reaff :2017	9.9	µg/m ³	80 (Max.)	4
2	Nitrogen Dioxide(as NO ₂)	IS:5182 (Part 6)-2006, Reaff :2017	16.8	µg/m ³	80 (Max.)	6

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Report No.		ISSPL/EN/25-26/02633			Date		20/05/2024
S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*	Detection Limit	
3	Particulate Matter (as PM _{2.5})	IS:5182 (Part 24):2019	36.2	µg/m ³	60 (Max.)	1	
4	Particulate Matter (as PM ₁₀)	IS:5182 (Part 23)-2006, Reaff:2017	72.5	µg/m ³	100 (Max.)	2	
5	Ammonia (as Total ammonia-N)	IS:5182 (Part 25):2018	7.34	µg/m ³	400 (Max.)	0.1	
6	Ozone (as O ₃)	IS 5182 (P-9):1974, Reaff:2014	18.44	µg/m ³	180 (Max.)	1	
7	Carbon Monoxide (as CO)	IS 5182 (Part - 10):1999	1.24	mg/m ³	4 (Max.)	0.02	
8	Benzene	IS: 5182 (Part 11):2006 Reaff. 2017	BLQ(LOQ 1.0)	µg/m ³	5.0 (Max.)	1.0	
9	Benzo(a)pyrene	IS: 5182 (Part-12)-2004, Reaff:2014	BLQ(LOQ:0.0005)	ng/m ³	1.0 (Max.)	0.0005	
10	Nickel (as Ni)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.5)	ng/m ³	20.0 (Max.)	0.5	
11	Arsenic (as As)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.5)	ng/m ³	6.0 (Max.)	0.5	
12	Lead (as Pb)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.0005)	µg/m ³	1.0 (Max.)	0.0005	

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

*NAAQS- National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-se.-3(i)] 16.11.2009.

Remark: Sampling done by ISSPL Representative (Mr. Pokhar Nath Yogi).

****End of the Report****



CEG Tower, 1st & 2nd Floor, B-11G, Industrial Area,
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TEST REPORT

Report No.	ISSPL/EN/25-26/02634	Date	20/05/2025
1. Name & address of Customer	KEPCO Plant Service & Engineering Co. Ltd. Talwandi Sabo Power Ltd., 3X660MW Thermal Power Plant, Banawala, Mansa District Punjab		
2. Reference No.	Your TRF Dated: 14/05/2025 (Reg.No. 25-26/96366)		
3. Material Identification with details	Ambient Air Quality Monitoring: Qty. 1 No.		
4. Date of Sampling	12/05/2025 - 13/05/2025		
5. Time of Sampling	11:00 am to 11:00 am		
6. Sampling Location	Station No.3 (CAAQMS No.- 3)		
7. Sampling Protocol	IS:5182 (Pt-14) 2000		
8. Duration of Sampling (Minutes)	1440 Min.		
9. Test Started On	15/05/2025		
10. Test Completed On	20/05/2025		
11. Date of sample Testing	15/05/2025 To 20/05/2025		
12. Nature & Activity of the Unit	Human and Plant Site Activities		
13. Ambient Temperature (oC)	Min. 28°C, Max. 43°C		
14. Weather Condition during Monitoring	Clear Sky		
15. Instrument Code & Calibration Status	ISSPL/INS/C/210, ISSPL/INS/C/226, ISSPL/INS/C/128		

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 SO ₂)	IS:5182 (Part 2)-2001, Reaff :2017	10.3	µg/m ³	80 (Max.)	4
2	Nitrogen Dioxide(as NO ₂)	IS:5182 (Part 6)-2006, Reaff :2017	16.7	µg/m ³	80 (Max.)	6

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TEST REPORT

Report No.		ISSPL/EN/25-26/02634			Date		20/05/2025
S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*	Detection Limit	
3	Particulate Matter (as PM _{2.5})	IS:5182 (Part 24):2019	34.5	µg/m ³	60 (Max.)	1	
4	Particulate Matter (as PM ₁₀)	IS:5182 (Part 23)-2006, Reaff:2017	71.2	µg/m ³	100 (Max.)	2	
5	Ammonia (as Total ammonia-N)	IS:5182 (Part 25):2018	9.38	µg/m ³	400 (Max.)	0.1	
6	Ozone (as O ₃)	IS 5182 (P-9):1974, Reaff:2014	20.25	µg/m ³	180 (Max.)	1	
7	Carbon Monoxide (as CO)	IS 5182 (Part - 10):1999	1.22	mg/m ³	4 (Max.)	0.02	
8	Benzene	IS: 5182 (Part 11):2006 Reaff: 2017	BLQ(LOQ 1.0)	µg/m ³	5.0 (Max.)	1.0	
9	Benzo(a)pyrene	IS: 5182 (Part-12)-2004, Reaff:2014	BLQ(LOQ:0.0005)	ng/m ³	1.0 (Max.)	0.0005	
10	Nickel (as Ni)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.5)	ng/m ³	20.0 (Max.)	0.5	
11	Arsenic (as As)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.5)	ng/m ³	6.0 (Max.)	0.5	
12	Lead (as Pb)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.0005)	µg/m ³	1.0 (Max.)	0.0005	

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

*NAAQS- National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-se.-3(i)] 16.11.2009.

Remark: Sampling done by ISSPL Representative (Mr. Pokhar Nath Yogi).

****End of the Report****



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TEST REPORT

Report No.	ISSPL/EN/25-26/02635	Date	20/05/2025
1. Name & address of Customer	KEPCO Plant Service & Engineering Co. Ltd. Talwandi Sabo Power Ltd., 3X660MW Thermal Power Plant, Banawala, Mansa District Punjab		
2. Reference No.	Your TRF Dated: 15/05/2025 (Reg.No. 25-26/96365)		
3. Material Identification with details	Ambient Air Quality Monitoring: Qty. 1 No.		
4. Date of Sampling	12/05/2025 - 13/05/2025		
5. Time of Sampling	11:30 am to 11:30 am		
6. Sampling Location	Station No.4 (CAAQMS No. 4)		
7. Sampling Protocol	IS:5182 (Pt-14) 2000		
8. Duration of Sampling (Minutes)	1440 Min.		
9. Test Started On	15/05/2025		
10. Test Completed On	20/05/2025		
11. Date of sample Testing	15/05/2025 To 20/05/2025		
12. Nature & Activity of the Unit	Human and Plant Site Activities		
13. Ambient Temperature (oC)	Min. 28°C, Max. 43°C		
14. Weather Condition during Monitoring	Clear Sky		
15. Instrument Code & Calibration Status	ISSPL/INS/C/215, ISSPL/INS/C/228, 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 SO ₂)	IS:5182 (Part 2)-2001, Reaff :2017	12.2	µg/m ³	80 (Max.)	4
2	Nitrogen Dioxide(as NO ₂)	IS:5182 (Part 6)-2006, Reaff :2017	17.5	µg/m ³	80 (Max.)	6

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TEST REPORT

Report No.		ISSPL/EN/25-26/02635			Date		20/05/2025
S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*	Detection Limit	
3	Particulate Matter (as PM _{2.5})	IS:5182 (Part 24):2019	42.3	µg/m ³	60 (Max.)	1	
4	Particulate Matter (as PM ₁₀)	IS:5182 (Part 23)-2006, Reaff:2017	83.8	µg/m ³	100 (Max.)	2	
5	Ammonia (as Total ammonia-N)	IS:5182 (Part 25):2018	11.5	µg/m ³	400 (Max.)	0.1	
6	Ozone (as O ₃)	IS 5182 (P-9):1974, Reaff:2014	22.7	µg/m ³	180 (Max.)	1	
7	Carbon Monoxide (as CO)	IS 5182 (Part - 10):1999	1.28	mg/m ³	4 (Max.)	0.02	
8	Benzene	IS: 5182 (Part 11):2006 Reaff. 2017	BLQ(LOQ 1.0)	µg/m ³	5.0 (Max.)	1.0	
9	Benzo(a)pyrene	IS: 5182 (Part-12)-2004, Reaff:2014	BLQ(LOQ:0.0005)	ng/m ³	1.0 (Max.)	0.0005	
10	Nickel (as Ni)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.5)	ng/m ³	20.0 (Max.)	0.5	
11	Arsenic (as As)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.5)	ng/m ³	6.0 (Max.)	0.5	
12	Lead (as Pb)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.0005)	µg/m ³	1.0 (Max.)	0.0005	

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Remark: Sampling done by ISSPL Representative (Mr. Pokhar Nath Yogi).

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TEST REPORT

Report No.	ISSPL/EN/25-26/02636	Date	20/05/2025
1. Name & address of Customer	KEPCO Plant Service & Engineering Co. Ltd. Talwandi Sabo Power Ltd., 3X660MW Thermal Power Plant, Banawala, Mansa District Punjab		
2. Reference No.	Your TRF Dated: 15/05/2025 (Reg.No. 25-26/96364)		
3. Material Identification with details	Ambient Air Quality Monitoring: Qty. 1 No.		
4. Date of Sampling	12/05/2025 - 13/05/2025		
5. Time of Sampling	10:30 am to 10:30 am		
6. Sampling Location	Village Chehlanwali		
7. Sampling Protocol	IS:5182 (Pt-14) 2000		
8. Duration of Sampling (Minutes)	1440 Min.		
9. Test Started On	15/05/2025		
10. Test Completed On	20/05/2025		
11. Date of sample Testing	15/05/2025 To 20/05/2025		
12. Nature & Activity of the Unit	Human and Plant Site Activities		
13. Ambient Temperature (oC)	Min. 28°C, Max. 43°C		
14. Weather Condition during Monitoring	Clear Sky		
15. Instrument Code & Calibration Status	ISSPL/INS/C/215, ISSPL/INS/C/228, 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 SO ₂)	IS:5182 (Part 2)-2001, Reaff :2017	11.9	µg/m ³	80 (Max.)	4
2	Nitrogen Dioxide(as NO ₂)	IS:5182 (Part 6)-2006, Reaff :2017	22.1	µg/m ³	80 (Max.)	6

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TEST REPORT

Report No.		ISSPL/EN/25-26/02636			Date		20/05/2025
S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*	Detection Limit	
3	Particulate Matter (as PM _{2.5})	IS:5182 (Part 24):2019	45.4	µg/m ³	60 (Max.)	1	
4	Particulate Matter (as PM ₁₀)	IS:5182 (Part 23)-2006, Reaff:2017	82.2	µg/m ³	100 (Max.)	2	
5	Ammonia (as Total ammonia-N)	IS:5182 (Part 25):2018	9.23	µg/m ³	400 (Max.)	0.1	
6	Ozone (as O ₃)	IS 5182 (P-9):1974, Reaff:2014	22.9	µg/m ³	180 (Max.)	1	
7	Carbon Monoxide (as CO)	IS 5182 (Part - 10):1999	1.48	mg/m ³	4 (Max.)	0.02	
8	Benzene	IS: 5182 (Part 11):2006 Reaff. 2017	BLQ(LOQ 1.0)	µg/m ³	5.0 (Max.)	1.0	
9	Benzo(a)pyrene	IS: 5182 (Part-12)-2004, Reaff:2014	BLQ(LOQ:0.0005)	ng/m ³	1.0 (Max.)	0.0005	
10	Nickel (as Ni)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.5)	ng/m ³	20.0 (Max.)	0.5	
11	Arsenic (as As)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.5)	ng/m ³	6.0 (Max.)	0.5	
12	Lead (as Pb)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.0005)	µg/m ³	1.0 (Max.)	0.0005	

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

*NAAQS- National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-se.-3(i)] 16.11.2009.

Remark: Sampling done by ISSPL Representative (Mr. Pokhar Nath Yogi).

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