



CEG Tower, 1<sup>st</sup> & 2<sup>nd</sup> 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/24-25/14433/A	Date	20/09/2024
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: 16/06/2024 (Reg. No.98637)		
3. Material Identification with details	Boiler Stack: Date and Time of Sampling: 14/09/2024 (03:40 pm to 04:29 pm), Qty. 1 No.		
4. Sample code	98637		
5. Date of sampling	14/09/2024		
6. Date of Sample testing	16/09/2024 To 20/09/2024		
7. Sampling duration (in minutes)	25.8 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 Mtr.		
13. Stack height (in meters)	275 Mtr.		
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)	128°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:	35.5	mg/Nm3	1

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**TEST REPORT**

Report No.		ISSPL/EN/24-25/14433/A		Date		
S.No.		Test Parameters	Test Method	Results	Units	Detection Limit
1			2019			
2	Sulphur dioxide (SO <sub>2</sub> )	USEPA 6C: 1996		1136.2	mg/Nm <sup>3</sup>	0.3
3	Oxides of Nitrogen (NO <sub>X</sub> )	USEPA 7E: 1990		192.8	mg/Nm <sup>3</sup>	0.2
4	Carbon Monoxide (CO)	USEPA 10 :1996		4.6	mg/Nm <sup>3</sup>	0.1
5	Oxygen (O <sub>2</sub> )	USEPA 3A :1989		7.1	%	0.1
6	Carbon dioxide (CO <sub>2</sub> )	USEPA 3A :1989		10.9	%	0.1
7	Mercury (Hg)	USEPA 29:1996		BLQ(LOQ:0.01)	µg/Nm <sup>3</sup>	0.01

BLQ= Below Limit of Quantification, LOQ= Limit of Quantification  
Remark: Sampling done by ISSPL Representative (Mr. Pokhar Nath Yogi).  
\*\*End of the Report\*\*

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## TEST REPORT

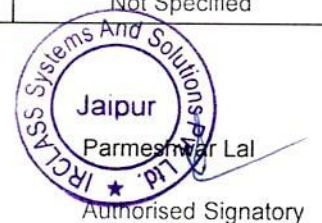
Report No.	ISSPL/EN/24-25/14433/B	Date	20/09/2024
1. Name & address of Customer	KEPCO Plant Service & Engineering Co. Ltd. Talwandi Sabo Power Ltd., 3X660MW Thermal Power Plant, Banawala, Mansa District Punjab		
2. Reference No.	Your TRF Dated: 16/06/2024 (Reg. No.98637)		
3. Material Identification with details	Boiler Stack: Date and Time of Sampling: 14/09/2024 (03:40 pm to 04:29 pm), Qty. 1 No.		
4. Sample code	98637		
5. Date of sampling	14/09/2024		
6. Date of Sample testing	16/09/2024 To 20/09/2024		
7. Sampling duration (in minutes)	28 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 Mtr.		
13. Stack height (in meters)	275 Mtr.		
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)	128°C		

## RESULTS

S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
3I. Chemical Testing:-					
1. Atmospheric Pollution:-					
1	Velocity of Gas	CPCB Emission	26.2	m/s	Not Specified

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**TEST REPORT**

Report No.		ISSPL/EN/24-25/14433/B		Date	20/06/2024
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	10.4	%	1

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

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

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

  
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### TEST REPORT

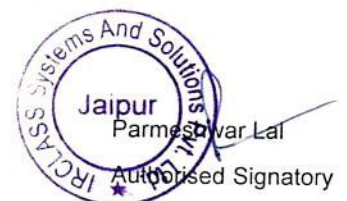
Report No.	ISSPL/EN/24-25/14434/A		Date	20/09/2024
1. Name & address of Customer	KEPCO Plant Service & Engineering Co. Ltd. Talwandi Sabo Power Ltd., 3X660MW Thermal Power Plant, Banawala, Mansa District Punjab			
2. Reference No.	Your TRF Dated: 16/06/2024 (Reg. No.98636)			
3. Material Identification with details	Boiler Stack: Date and Time of Sampling: 14/09/2024 (02:50 pm to 03:17 pm), Qty. 1 No.			
4. Sample code	98636			
5. Date of sampling	14/09/2024			
6. Date of Sample testing	16/09/2024 To 20/09/2024			
7. Sampling duration (in minutes)	26.6 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 Mtr.			
13. Stack height (in meters)	275 Mtr.			
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
31. Chemical Testing:-					
1. Atmospheric Pollution:-					
1	Particulate Matter (PM)	IS 11255 (Part 1) 1985, RA:	36.1	mg/Nm3	1

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**TEST REPORT**

Report No.		ISSPL/EN/24-25/14434/A			Date	20/09/2024
S.No.	Test Parameters	Test Method	Results	Units	Detection Limit	
1		2019				
2	Sulphur dioxide (SO <sub>2</sub> )	USEPA 6C: 1996	1062.6	mg/Nm <sup>3</sup>	0.3	
3	Oxides of Nitrogen (NO <sub>X</sub> )	USEPA 7E: 1990	184.9	mg/Nm <sup>3</sup>	0.2	
4	Carbon Monoxide (CO)	USEPA 10 :1996	4.2	mg/Nm <sup>3</sup>	0.1	
5	Oxygen (O <sub>2</sub> )	USEPA 3A :1989	7.0	%	0.1	
6	Carbon dioxide (CO <sub>2</sub> )	USEPA 3A :1989	10.7	%	0.1	
7	Mercury (Hg)	USEPA 29:1996	BLQ(LOQ:0.001)	µg/Nm <sup>3</sup>	0.01	

BLQ= Below Limit of Quantification, LOQ= Limit of Quantification  
Remark: Sampling done by ISSPL Representative (Mr. Pokhar Nath Yogi).  
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TEST REPORT

Report No.	ISSPL/EN/24-25/14434/B	Date	20/09/2024
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: 16/06/2024 (Reg. No.98636)	
3.	Material Identification with details	Boiler Stack: Date and Time of Sampling: 14/09/2024 (02:50 pm to 03:17 pm), Qty. 1 No.	
4.	Sample code	98636	
5.	Date of sampling	14/09/2024	
6.	Date of Sample testing	16/09/2024 To 20/09/2024	
7.	Sampling duration (in minutes)	26.6 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 Mtr.	
13.	Stack height (in meters)	275 Mtr.	
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	25.7	m/s	Not Specified

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**TEST REPORT**

Report No.		ISSPL/EN/24-25/14434/B		Date	
S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
1		Regulation(Part -3)			
2	Temperature	CPCB Emission Regulation(Part -3)	132	°C	5
3	Moisture	USEPA 4	12.2	%	1

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

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

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

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## TEST REPORT

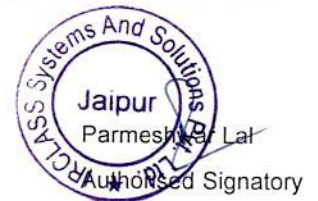
Report No.	ISSPL/EN/24-25/14435/A	Date	20/09/2024
1. Name & address of Customer	KEPCO Plant Service & Engineering Co. Ltd. Talwandi Sabo Power Ltd., 3X660MW Thermal Power Plant, Banawala, Mansa District Punjab		
2. Reference No.	Your TRF Dated: 16/06/2024 (Reg. No.98635)		
3. Material Identification with details	Boiler Stack: Date and Time of Sampling: 14/09/2024 (02:05 pm to 02:31 pm), Qty. 1 No.		
4. Sample code	98635		
5. Date of sampling	14/09/2024		
6. Date of Sample testing	16/09/2024 To 20/09/2024		
7. Sampling duration (in minutes)	26.6 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 Mtr.		
13. Stack height (in meters)	275 Mtr.		
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)	120°C		

## RESULTS

S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
3I. Chemical Testing:-					
1. Atmospheric Pollution:-					
1	Particulate Matter (PM)	IS 11255 (Part 1) 1985, RA:	37.2	mg/Nm3	1

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## TEST REPORT

Report No.	ISSPL/EN/24-25/14435/A			Date	20/09/2024
S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
1		2019			
2	Sulphur dioxide (SO <sub>2</sub> )	USEPA 6C: 1996	870.5	mg/Nm <sub>3</sub>	0.3
3	Oxides of Nitrogen (NO <sub>X</sub> )	USEPA 7E: 1990	166.9	mg/Nm <sub>3</sub>	0.2
4	Carbon Monoxide (CO)	USEPA 10 :1996	3.56	mg/Nm <sub>3</sub>	0.1
5	Oxygen (O <sub>2</sub> )	USEPA 3A :1989	7.2	%	0.1
6	Carbon dioxide (CO <sub>2</sub> )	USEPA 3A :1989	10.9	%	0.1
7	Mercury (Hg)	USEPA 29:1996	BLQ(LOQ:0.001)	µg/Nm <sub>3</sub>	0.01

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

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

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

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Parmeshwar Lal  
Authorised Signatory



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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: 16/06/2024 (Reg. No.98635)		
3. Material Identification with details	Boiler Stack: Date and Time of Sampling: 14/09/2024 (02:05 pm to 02:31 pm), Qty. 1 No.		
4. Sample code	98635		
5. Date of sampling	14/09/2024		
6. Date of Sample testing	16/09/2024 To 20/09/2024		
7. Sampling duration (in minutes)	26.6 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 Mtr.		
13. Stack height (in meters)	275 Mtr.		
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)	120°C		

RESULTS

S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
3I. Chemical Testing:-					
1. Atmospheric Pollution:-					
1	Velocity of Gas	CPCB Emission	25.4	m/s	Not Specified

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**TEST REPORT**

Report No.		ISSPL/EN/24-25/14435/B		Date	
S.No.	Test Parameters	Test Method	Results	Units	Detection Limit
1		Regulation(Part -3)			
2	Temperature	CPCB Emission Regulation(Part -3)	120	°C	5
3	Moisture	USEPA 4	10.5	%	1

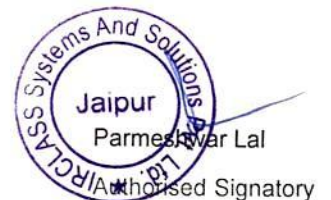
BLQ= Below Limit of Quantification, LOQ= Limit of Quantification

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

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

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## TEST REPORT

Report No.	ISSPL/EN/24-25/14417	Date	20/09/2024
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: 16/09/2024 (Reg. No.84583)		
3. Material Identification with details	Ambient Air Quality Monitoring: Qty. 1 No.		
4. Date of Sampling	11/09/2024 to 12/09/2024		
5. Time of Sampling	10:00 am to 10:00 am		
6. Sampling Location	Station No. 01 (CAAQMS)		
7. Sampling Protocol	IS:5182 (Pt-14) 2000		
8. Duration of Sampling (Minutes)	1440 Min.		
9. Test Started On	16/09/2024		
10. Test Completed On	20/09/2024		
11. Date of sample Testing	16/09/2024 To 20/09/2024		
12. Nature & Activity of the Unit	Human and Plant Site Activities		
13. Ambient Temperature (oC)	Min. 25°C, Max. 31°C		
14. Weather Condition during Monitoring	Clear Sky		
15. Instrument Code & Calibration Status	ISSPL/INS/C/212, ISSPL/INS/C/129, ISSPL/INS/C/221		

## RESULTS

S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*	Detection Limit
<b>I. Chemical Parameter:-</b>						
<b>1. Atmospheric Pollution</b>						
1	Sulphur Dioxide ( as SO <sub>2</sub> )	IS:5182 (Part 2)-2001, Reaff :2017	12.9	µg/m <sup>3</sup>	80 (Max.)	4
2	Nitrogen Dioxide( as NO <sub>2</sub> )	IS:5182 (Part 6)-2006, Reaff	25.3	µg/m <sup>3</sup>	80 (Max.)	6

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**TEST REPORT**

Report No.		ISSPL/EN/24-25/14417			Date	
S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*	Detection Limit
2		:2017				
3	Particulate Matter ( as PM2.5)	IS:5182 (Part 24):2019	43.9	µg/m <sup>3</sup>	60 (Max.)	1
4	Particulate Matter ( as PM10)	IS:5182 (Part 23)-2006, Reaff:2017	83.8	µg/m <sup>3</sup>	100 (Max.)	1
5	Carbon Monoxide ( as CO)	IS 5182 (Part -10):1999	0.70	mg/m <sup>3</sup>	4 (Max.)	0.02
6	Lead (as Pb)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.0005)	µg/m <sup>3</sup>	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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Authorized Signatory



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## TEST REPORT

Report No.	ISSPL/EN/24-25/14419	Date	20/09/2024
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: 16/09/2024 (Reg. No.84581)		
3. Material Identification with details	Ambient Air Quality Monitoring: Qty. 1 No.		
4. Date of Sampling	10/09/2024 to 11/09/2024		
5. Time of Sampling	09:30 am to 09:30 am		
6. Sampling Location	Station No. 02 (CAAQMS)		
7. Sampling Protocol	IS:5182 (Pt-14) 2000		
8. Duration of Sampling (Minutes)	1440 Min.		
9. Test Started On	16/09/2024		
10. Test Completed On	20/09/2024		
11. Date of sample Testing	16/09/2024 To 20/09/2024		
12. Nature & Activity of the Unit	Human and Plant Site Activities		
13. Ambient Temperature (oC)	Min. 25°C, Max. 31°C		
14. Weather Condition during Monitoring	Cloudy		
15. Instrument Code & Calibration Status	ISSPL/INS/C/122, ISSPL/INS/C/213, ISSPL/INS/C/222		

## 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 <sub>2</sub> )	IS:5182 (Part 2)-2001, Reaff :2017	13.7	µg/m <sup>3</sup>	80 (Max.)	4
2	Nitrogen Dioxide( as NO <sub>2</sub> )	IS:5182 (Part 6)-2006, Reaff	27.3	µg/m <sup>3</sup>	80 (Max.)	6

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**TEST REPORT**

Report No.		ISSPL/EN/24-25/14419			Date	
S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*	Detection Limit
2		:2017				
3	Particulate Matter ( as PM2.5)	IS:5182 (Part 24):2019	41.6	µg/m <sup>3</sup>	60 (Max.)	1
4	Particulate Matter ( as PM10)	IS:5182 (Part 23)-2006, Reaff:2017	81.8	µg/m <sup>3</sup>	100 (Max.)	1
5	Carbon Monoxide ( as CO)	IS 5182 (Part -10):1999	0.72	mg/m <sup>3</sup>	4 (Max.)	0.02
6	Lead (as Pb)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.0005)	µg/m <sup>3</sup>	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\*\***

Reviewed By





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## TEST REPORT

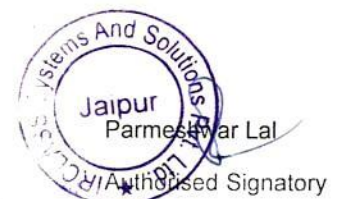
Report No.	ISSPL/EN/24-25/14418		Date	20/09/2024
1.	Name & address of Customer	KEPCO Plant Service & Engineering Co. Ltd. Talwandi Sabo Power Ltd., 3X660MW Thermal Power Plant, Banawala, Mansa District Punjab		
2.	Reference No.	Your TRF Dated: 16/09/2024 (Reg. No.84582)		
3.	Material Identification with details	Ambient Air Quality Monitoring: Qty. 1 No.		
4.	Date of Sampling	11/09/2024 to 12/09/2024		
5.	Time of Sampling	11:00 am to 11:00 am		
6.	Sampling Location	Station No. 03 (CAAQMS)		
7.	Sampling Protocol	IS:5182 (Pt-14) 2000		
8.	Duration of Sampling (Minutes)	1440 Min.		
9.	Test Started On	16/09/2024		
10.	Test Completed On	20/09/2024		
11.	Date of sample Testing	16/09/2024 To 20/09/2024		
12.	Nature & Activity of the Unit	Human and Plant Site Activities		
13.	Ambient Temperature (oC)	Min. 25°C, Max. 31°C		
14.	Weather Condition during Monitoring	Cloudy		
15.	Instrument Code & Calibration Status	ISSPL/INS/C/122, ISSPL/INS/C/213, ISSPL/INS/C/222		

### RESULTS

S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*	Detection Limit
<b>I. Chemical Parameter:-</b>						
<b>1. Atmospheric Pollution</b>						
1	Sulphur Dioxide ( as SO <sub>2</sub> )	IS:5182 (Part 2)-2001, Reaff :2017	13.7	µg/m <sup>3</sup>	80 (Max.)	4
2	Nitrogen Dioxide( as NO <sub>2</sub> )	IS:5182 (Part 6)-2006, Reaff	26.5	µg/m <sup>3</sup>	80 (Max.)	6

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**TEST REPORT**

Report No.		ISSPL/EN/24-25/14418			Date		20/09/2024
S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*	Detection Limit	
2		:2017					
3	Particulate Matter ( as PM2.5)	IS:5182 (Part 24):2019	42.2	µg/m <sup>3</sup>	60 (Max.)	1	
4	Particulate Matter ( as PM10)	IS:5182 (Part 23)-2006, Reaff:2017	80.8	µg/m <sup>3</sup>	100 (Max.)	1	
5	Carbon Monoxide ( as CO)	IS 5182 (Part -10):1999	0.68	mg/m <sup>3</sup>	4 (Max.)	0.02	
6	Lead (as Pb)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.0005)	µg/m <sup>3</sup>	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\*\***

  
Reviewed By

  
Parmeshwar Lal  
Authorised Signatory



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## TEST REPORT

Report No.	ISSPL/EN/24-25/14420	Date	20/09/2024
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: 16/09/2024 (Reg. No.84580)		
3. Material Identification with details	Ambient Air Quality Monitoring: Qty. 1 No.		
4. Date of Sampling	10/09/2024 to 11/09/2024		
5. Time of Sampling	10:00 am to 10:00 am		
6. Sampling Location	Station No. 04 (CAAQMS)		
7. Sampling Protocol	IS:5182 (Pt-14) 2000		
8. Duration of Sampling (Minutes)	1440 Min.		
9. Test Started On	16/09/2024		
10. Test Completed On	20/09/2024		
11. Date of sample Testing	16/09/2024 To 20/09/2024		
12. Nature & Activity of the Unit	Human and Plant Site Activities		
13. Ambient Temperature (oC)	Min. 25°C, Max. 31°C		
14. Weather Condition during Monitoring	Cloudy		
15. Instrument Code & Calibration Status	ISSPL/INS/C/214, ISSPL/INS/C/209, ISSPL/INS/C/220		

## 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 <sub>2</sub> )	IS:5182 (Part 2)-2001, Reaff :2017	13.8	µg/m <sup>3</sup>	80 (Max.)	4
2	Nitrogen Dioxide( as NO <sub>2</sub> )	IS:5182 (Part 6)-2006, Reaff	21.2	µg/m <sup>3</sup>	80 (Max.)	6

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## TEST REPORT

Report No.		ISSPL/EN/24-25/14420			Date		20/09/2024
S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*	Detection Limit	
2		:2017					
3	Particulate Matter ( as PM2.5)	IS:5182 (Part 24):2019	43.6	µg/m <sup>3</sup>	60 (Max.)	1	
4	Particulate Matter ( as PM10)	IS:5182 (Part 23)-2006, Reaff.2017	80.5	µg/m <sup>3</sup>	100 (Max.)	1	
5	Carbon Monoxide ( as CO)	IS 5182 (Part -10):1999	0.74	mg/m <sup>3</sup>	4 (Max.)	0.02	
6	Lead (as Pb)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.0005)	µg/m <sup>3</sup>	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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 Parmeshwar Lal  
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## TEST REPORT

Report No.	ISSPL/EN/24-25/14416	Date	20/09/2024
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: 16/09/2024 (Reg. No.84584)		
3. Material Identification with details	Ambient Air Quality Monitoring: Qty. 1 No.		
4. Date of Sampling	10/09/2024 to 11/09/2024		
5. Time of Sampling	10:30 am to 10:30 am		
6. Sampling Location	Village – Chelanwali, (Buffer Zone)		
7. Sampling Protocol	IS:5182 (Pt-14) 2000		
8. Duration of Sampling (Minutes)	1440 Min.		
9. Test Started On	16/09/2024		
10. Test Completed On	20/09/2024		
11. Date of sample Testing	16/09/2024 To 20/09/2024		
12. Nature & Activity of the Unit	Human and Plant Site Activities		
13. Ambient Temperature (oC)	Min. 27°C, Max. 34°C		
14. Weather Condition during Monitoring	Clear Sky		
15. Instrument Code & Calibration Status	ISSPL/INS/C/212, ISSPL/INS/C/129, ISSPL/INS/C/221		

### 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 <sub>2</sub> )	IS:5182 (Part 2)-2001, Reaff :2017	12.7	µg/m <sup>3</sup>	80 (Max.)	4
2	Nitrogen Dioxide( as NO <sub>2</sub> )	IS:5182 (Part 6)-2006, Reaff	22.4	µg/m <sup>3</sup>	80 (Max.)	6

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**TEST REPORT**

Report No.		ISSPL/EN/24-25/14416			Date	20/09/2024
S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*	Detection Limit
2		:2017				
3	Particulate Matter ( as PM2.5)	IS:5182 (Part 24):2019	44.5	µg/m <sup>3</sup>	60 (Max.)	1
4	Particulate Matter ( as PM10)	IS:5182 (Part 23)-2006, Reaff:2017	84.3	µg/m <sup>3</sup>	100 (Max.)	1
5	Carbon Monoxide ( as CO)	IS 5182 (Part -10):1999	0.72	mg/m <sup>3</sup>	4 (Max.)	0.02
6	Lead (as Pb)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.0005)	µg/m <sup>3</sup>	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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