



IRCLASS

SYSTEMS AND SOLUTIONS PRIVATE LIMITED

Testing Laboratory

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/24-25/08664		Date	01/06/2024
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.	Order No. WA24Y-00002, Dated: 10/05/2024, Your TRF Dated: 30/05/2024 (Reg. No. 90336)		
3.	Material Identification with details	Ambient Air Quality Monitoring: Date and Time of Sampling: 07/05/2024 (10:30 am) to 08/05/2024 (10:30 am), Location: Station No.1 (CAAQMS), Qty. 1 No.		
4.	Date of Sampling	07/05/2024 - 08/05/2024		
5.	Time of Sampling	10:30 am to 10:30 am		
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	31/05/2024		
10.	Test Completed On	01/06/2024		
11.	Date of sample Testing	31/05/2024 To 01/06/2024		
12.	Nature & Activity of the Unit	Human and Plant Site Activities		
13.	Ambient Temperature (oC)	Min. 27°C, Max. 43°C		
14.	Weather Condition during Monitoring	Clear Sky		
15.	Instrument Code & Calibration Status	ISSPL/INS/C/214, ISSPL/INS/C/128, ISSPL/INS/C/220		

RESULTS

S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*
I.Chemical Parameter:-					
1. Atmospheric Pollution					
1	Sulphur Dioxide (as SO ₂)	IS:5182 (Part 2)-2001, Reaff :2017	12.0	µg/m ³	80 (Max.)
2	Nitrogen Dioxide(as NO ₂)	IS:5182 (Part 6)-2006, Reaff :2017	38.0	µg/m ³	80 (Max.)
3	Particulate Matter (as PM _{2.5})	IS:5182 (Part 24):2019	43.0	µg/m ³	60 (Max.)

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01/06/2024
Reviewed By

01/06/2024
Dinesh Falsaniya
Authorised Signatory



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TEST REPORT

Report No.		ISSPL/EN/24-25/08664			Date	01/06/2024
S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*	
4	Particulate Matter (as PM10)	IS:5182 (Part 23)-2006, Reaff:2017	68.0	µg/m ³	100 (Max.)	
5	Ammonia (as Total ammonia-N)	IS:5182 (Part 25) :2018	10.0	µg/m ³	400 (Max.)	
6	Ozone (as O3)	IS 5182 (P-9):1974, Reaff:2014	21.0	µg/m ³	180 (Max.)	
7	Carbon Monoxide (as CO)	IS 5182 (Part -10):1999	0.56	mg/m ³	4 (Max.)	
8	Benzene	IS: 5182 (Part 11) :2006 Reaff. 2017	BLQ(LOQ 1.0)	µg/m ³	5.0 (Max.)	
9	Benzo(a)pyrene	IS: 5182 (Part-12)-2004, Reaff:2014	BLQ(LOQ 0.5)	ng/m ³	1.0 (Max.)	
10	Nickel (as Ni)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.5)	ng/m ³	20.0 (Max.)	
11	Arsenic (as As)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.5)	ng/m ³	6.0 (Max.)	
12	Lead (as Pb)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.000 5)	µg/m ³	1.0 (Max.)	

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. Dinesh Jangid).

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

01/06/2024

Dinesh
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TEST REPORT

Report No.	ISSPL/EN/24-25/08665	Date	01/06/2024
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.	Order No. WA24Y-00002, Dated: 10/05/2024, Your TRF Dated: 30/05/2024 (Reg. No. 90335)		
3. Material Identification with details	Ambient Air Quality Monitoring: Date and Time of Sampling: 07/05/2024 (09:40 am) to 08/05/2024 (09:40 am), Location: Station No.2 (CAAQMS), Qty. 1 No.		
4. Date of Sampling	07/05/2024 - 08/05/2024		
5. Time of Sampling	09:40 am to 09:40 am		
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	31/05/2024		
10. Test Completed On	01/06/2024		
11. Date of sample Testing	31/05/2024 To 01/06/2024		
12. Nature & Activity of the Unit	Human and Plant Site Activities		
13. Ambient Temperature (oC)	Min. 27°C, Max. 43°C		
14. Weather Condition during Monitoring	Clear Sky		
15. Instrument Code & Calibration Status	ISSPL/INS/C/122, ISSPL/INS/C/197, ISSPL/INS/C/219		

RESULTS

S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*
I.Chemical Parameter:-					
1. Atmospheric Pollution					
1	Sulphur Dioxide (as SO ₂)	IS:5182 (Part 2)-2001, Reaff :2017	14.0	µg/m ³	80 (Max.)
2	Nitrogen Dioxide(as NO ₂)	IS:5182 (Part 6)-2006, Reaff :2017	48.0	µg/m ³	80 (Max.)
3	Particulate Matter (as PM _{2.5})	IS:5182 (Part 24):2019	41.0	µg/m ³	80 (Max.)

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01/06/2024

[Signature]
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[Signature]
01/06/2024
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TEST REPORT

Report No.	ISSPL/EN/24-25/08665			Date	01/06/2024
S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*
4	Particulate Matter (as PM10)	IS:5182 (Part 23)-2006, Reaff:2017	72.0	µg/m ³	100 (Max.)
5	Ammonia (as Total ammonia-N)	IS:5182 (Part 25) :2018	13.0	µg/m ³	400 (Max.)
6	Ozone (as O3)	IS 5182 (P-9):1974, Reaff:2014	24.0	µg/m ³	180 (Max.)
7	Carbon Monoxide (as CO)	IS 5182 (Part -10):1999	0.64	mg/m ³	4 (Max.)
8	Benzene	IS: 5182 (Part 11) :2006 Reaff. 2017	BLQ(LOQ 1.0)	µg/m ³	5.0 (Max.)
9	Benzo(a)pyrene	IS: 5182 (Part-12)-2004, Reaff:2014	BLQ(LOQ 0.5)	ng/m ³	1.0 (Max.)
10	Nickel (as Ni)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.5)	ng/m ³	20.0 (Max.)
11	Arsenic (as As)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.5)	ng/m ³	6.0 (Max.)
12	Lead (as Pb)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.000 5)	µg/m ³	1.0 (Max.)

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. Dinesh Jangid).

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

01/06/2024

Dinesh Jangid
Reviewed By





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TEST REPORT

Report No.	ISSPL/EN/24-25/08667	Date	01/06/2024
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.	Order No. WA24Y-00002, Dated: 10/05/2024, Your TRF Dated: 30/05/2024 (Reg. No. 90333)		
3. Material Identification with details	Ambient Air Quality Monitoring: Date and Time of Sampling: 14/05/2024 (10:50 am) to 15/05/2024 (10:50 am), Location: Station No.4 (CAAQMS), Qty. 1 No.		
4. Date of Sampling	14/05/2024 - 15/05/2024		
5. Time of Sampling	10:50 am to 10:50 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	31/05/2024		
10. Test Completed On	01/06/2024		
11. Date of sample Testing	31/05/2024 To 01/06/2024		
12. Nature & Activity of the Unit	Human and Plant Site Activities		
13. Ambient Temperature (oC)	Min. 27°C, Max. 44°C		
14. Weather Condition during Monitoring	Clear Sky		
15. Instrument Code & Calibration Status	ISSPL/INS/C/122, ISSPL/INS/C/197, ISSPL/INS/C/219		

RESULTS

S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*
I. Chemical Parameter:-					
1. Atmospheric Pollution					
1	Sulphur Dioxide (as SO ₂)	IS:5182 (Part 2)-2001, Reaff :2017	11.0	µg/m ³	80 (Max.)
2	Nitrogen Dioxide(as NO ₂)	IS:5182 (Part 6)-2006, Reaff :2017	33.0	µg/m ³	80 (Max.)
3	Particulate Matter (as PM _{2.5})	IS:5182 (Part 24):2019	41.0	µg/m ³	60 (Max.)

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TEST REPORT

Report No.		ISSPL/EN/24-25/08667			Date	01/06/2024
S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*	
4	Particulate Matter (as PM10)	IS:5182 (Part 23)-2006, Reaff:2017	79.0	µg/m ³	100 (Max.)	
5	Ammonia (as Total ammonia-N)	IS:5182 (Part 25) :2018	11.0	µg/m ³	400 (Max.)	
6	Ozone (as O3)	IS 5182 (P-9):1974, Reaff:2014	14.0	µg/m ³	180 (Max.)	
7	Carbon Monoxide (as CO)	IS 5182 (Part -10):1999	0.51	mg/m ³	4 (Max.)	
8	Benzene	IS: 5182 (Part 11) :2006 Reaff. 2017	BLQ(LOQ 1.0)	µg/m ³	5.0 (Max.)	
9	Benzo(a)pyrene	IS: 5182 (Part-12)-2004, Reaff:2014	BLQ(LOQ 0.5)	ng/m ³	1.0 (Max.)	
10	Nickel (as Ni)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.5)	ng/m ³	20.0 (Max.)	
11	Arsenic (as As)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.5)	ng/m ³	6.0 (Max.)	
12	Lead (as Pb)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.000 5)	µg/m ³	1.0 (Max.)	

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. Dinesh Jangid).

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

01/06/2024
Reviewed By
Dinesh Jangid

IRCLASS Systems And Solutions
Jaipur
01/06/2024
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TEST REPORT

Report No.	ISSPL/EN/24-25/08669	Date	01/06/2024
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.	Order No. WA24Y-00002, Dated: 10/05/2024, Your TRF Dated: 30/05/2024 (Reg. No. 90331)		
3. Material Identification with details	Ambient Air Quality Monitoring: Date and Time of Sampling: 07/05/2024 (10:20 am) to 08/05/2024 (10:20 am), Location: Station No.3 (CAAQMS), Qty. 1 No.		
4. Date of Sampling	07/05/2024 - 08/05/2024		
5. Time of Sampling	10:20 am to 10:20 am		
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	31/05/2024		
10. Test Completed On	01/06/2024		
11. Date of sample Testing	31/05/2024 To 01/06/2024		
12. Nature & Activity of the Unit	Human and Plant Site Activities		
13. Ambient Temperature (oC)	Min. 27°C, Max. 43°C		
14. Weather Condition during Monitoring	Clear Sky		
15. Instrument Code & Calibration Status	ISSPL/INS/C/120, ISSPL/INS/C/229, ISSPL/INS/C/218		

RESULTS

S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*
I. Chemical Parameter:-					
1. Atmospheric Pollution					
1	Sulphur Dioxide (as SO ₂)	IS:5182 (Part 2)-2001, Reaff :2017	17.8	µg/m ³	80 (Max.)
2	Nitrogen Dioxide(as NO ₂)	IS:5182 (Part 6)-2006, Reaff :2017	53.0	µg/m ³	80 (Max.)
3	Particulate Matter (as PM _{2.5})	IS:5182 (Part 24):2019	48.0	µg/m ³	60 (Max.)

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IRCLASS Systems and Solutions Pvt. Ltd.
Jaipur, 01/06/2024
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TEST REPORT


Report No.		ISSPL/EN/24-25/08669			Date	01/06/2024
S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*	
4	Particulate Matter (as PM10)	IS:5182 (Part 23)-2006, Reaff:2017	81.0	µg/m ³	100 (Max.)	
5	Carbon Monoxide (as CO)	IS 5182 (Part -10):1999	0.59	mg/m ³	4 (Max.)	
6	Lead (as Pb)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.000 5)	µg/m ³	1.0 (Max.)	

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

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

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

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

01/06/2024

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IRCLASS Systems And Solutions
 Jaipur
 01/06/2024
 Dinesh Palsaniya
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TEST REPORT

Report No.	ISSPL/EN/24-25/08676	Date	01/06/2024
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.	Order No. WA24Y-00002, Dated: 10/05/2024, Your TRF Dated: 30/05/2024 (Reg. No. 90324)		
3. Material Identification with details	Ambient Air Quality Monitoring: Date and Time of Sampling: 07/05/2024 (01:17 pm) to 08/05/2024 (01:17 pm), Location: Chehlanwali Village, Qty. 1 No.		
4. Date of Sampling	07/05/2024 - 08/05/2024		
5. Time of Sampling	01:17 pm to 01:17 pm		
6. Sampling Location	Chehlanwali Village		
7. Sampling Protocol	IS:5182 (Pt-14) 2000		
8. Duration of Sampling (Minutes)	1440 Min.		
9. Test Started On	31/05/2024		
10. Test Completed On	01/06/2024		
11. Date of sample Testing	31/05/2024 To 01/06/2024		
12. Nature & Activity of the Unit	Human and Plant Site Activities		
13. Ambient Temperature (oC)	Min. 27°C, Max. 41°C		
14. Weather Condition during Monitoring	Clear Sky		
15. Instrument Code & Calibration Status	ISSPL/INS/C/221, ISSPL/INS/C/197, ISSPL/INS/C/221		

RESULTS

S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*
I. Chemical Parameter:-					
1. Atmospheric Pollution					
1	Sulphur Dioxide (as SO ₂)	IS:5182 (Part 2)-2001, Reaff :2017	12.0	µg/m ³	80 (Max.)
2	Nitrogen Dioxide(as NO ₂)	IS:5182 (Part 6)-2006, Reaff :2017	39.0	µg/m ³	80 (Max.)
3	Particulate Matter (as PM _{2.5})	IS:5182 (Part 24):2019	43.0	µg/m ³	60 (Max.)

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TEST REPORT

Report No.		ISSPL/EN/24-25/08676			Date	01/06/2024
S.No.	Name of Test	Method of Test	Results	Unit	Limit as per NAAQS*	
4	Particulate Matter (as PM10)	IS:5182 (Part 23)-2006, Reaff:2017	81.0	µg/m ³	100 (Max.)	
5	Carbon Monoxide (as CO)	IS 5182 (Part -10):1999	0.48	mg/m ³	4 (Max.)	
6	Lead (as Pb)	USEPA Method IO 3.5 1999	BLQ(LOQ:0.000 5)	µg/m ³	1.0 (Max.)	

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. Dinesh Jangid).

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

01/06/2024
Dinesh
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TEST REPORT

Report No.	ISSPL/EN/24-25/08699	Date	31/05/2024
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.	Order No. WA24Y-00002, Dated: 10/05/2024, Your TRF Dated: 30/05/2024 (Reg. No. 90301)	
3.	Material Identification with details	Boiler Stack: Date and Time of Sampling: 14/05/2024 (10:46 am to 11:05 am), Location: Boiler No.1(Third Unit, Unit-1) 660 MW, Qty. 1 No.	
4.	Sample code	90301	
5.	Date of sampling	14/05/2024	
6.	Date of Sample testing	31/05/2024 To 31/05/2024	
7.	Sampling duration (in minutes)	19 Min.	
8.	Sampling Location	Boiler No.1(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	-	
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/133	
16.	Control Measures if any	-	
17.	Ambient Temperature (oC)	47.1°C	
18.	Flue Gas Temperature (oC)	-	

RESULTS

S.No.	Test Parameters	Test Method	Results	Units	Specifications
3I. Chemical Testing:-					
1. Atmospheric Pollution:-					
1	Particulate Matter (PM)	IS 11255 (Part 1) 1985, RA: 2019	34.86	mg/Nm3	Not Specified

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TEST REPORT

Report No.		ISSPL/EN/24-25/08699			Date	31/05/2024
S.No.	Test Parameters	Test Method	Results	Units	Specifications	
2	Temperature	CPCB Emission Regulation(Part -3)	136.0	°C	Not Specified	
3	Velocity of Gas	CPCB Emission Regulation(Part -3)	26.0	m/s	Not Specified	
4	Sulphur dioxide (SO ₂)	USEPA 6C: 1996/By Flue Gas Analyzer	989.4	mg/Nm ³	Not Specified	
5	Oxides of Nitrogen (NO _X)	USEPA 7E: 1990/By Flue Gas Analyzer	92.3	mg/Nm ³	Not Specified	
6	Carbon Monoxide (CO)	USEPA 10: 1996/By Flue Gas Analyzer	3.44	mg/Nm ³	Not Specified	
7	CO ₂	USPA 3A:1989	9.5	%	Not Specified	
8	O ₂	USPA 3A:1989	8.8	%	Not Specified	
9	Mercury (Hg)	USEPA 29:1996/101A:1991	BLQ(LOQ: 0.001)	;	-	
10	Moisture	USEPA 4	11.0	%	Not Specified	

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

Remark: - Sample Conforms to Limit as per Environmental (Protection) Act, 1986 with respect to above tested Parameters.

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

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

31/05/2024

Saxena
Reviewed By





TEST REPORT

Report No.	ISSPL/EN/24-25/08700		Date	31/05/2024
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.	Order No. WA24Y-00002, Dated: 10/05/2024, Your TRF Dated: 30/05/2024 (Reg. No. 90300)		
3.	Material Identification with details	Boiler Stack: Date and Time of Sampling: 14/05/2024 (11:10 am to 11:29 am), Location: Boiler No.2(Third Unit, Unit-2) 660 MW, Qty. 1 No.		
4.	Sample code	90300		
5.	Date of sampling	14/05/2024		
6.	Date of Sample testing	31/05/2024 To 31/05/2024		
7.	Sampling duration (in minutes)	19 Min.		
8.	Sampling Location	Boiler No.2(Third 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	-		
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/133		
16.	Control Measures if any	-		
17.	Ambient Temperature (oC)	47.5°C		
18.	Flue Gas Temperature (oC)	-		

RESULTS

S.No.	Test Parameters	Test Method	Results	Units	Specifications
1	Particulate Matter (PM)	IS 11255 (Part 1) 1985, RA: 2019	34.86	mg/Nm3	Not Specified



TEST REPORT

Report No.		ISSPL/EN/24-25/08700			Date	31/05/2024
S.No.	Test Parameters	Test Method	Results	Units	Specifications	
2	Temperature	CPCB Emission Regulation(Part -3)	149.0	°C	Not Specified	
3	Velocity of Gas	CPCB Emission Regulation(Part -3)	25.3	m/s	Not Specified	
4	Sulphur dioxide (SO ₂)	USEPA 6C: 1996/By Flue Gas Analyzer	1075.8	mg/Nm ³	Not Specified	
5	Oxides of Nitrogen (NO _X)	USEPA 7E: 1990/By Flue Gas Analyzer	99.33	mg/Nm ³	Not Specified	
6	Carbon Monoxide (CO)	USEPA 10: 1996/By Flue Gas Analyzer	2.3	mg/Nm ³	Not Specified	
7	CO ₂	USPA 3A:1989	10.5	%	Not Specified	
8	O ₂	USPA 3A:1989	9.2	%	Not Specified	
9	Mercury (Hg)	USEPA 29:1996/101A:1991	BLQ(LOQ 0.001)	µg/Nm ³	-	
10	Moisture	USEPA 4	11	%	Not Specified	

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

Remark: - Sample Conforms to Limit as per Environmental (Protection) Act, 1986 with respect to above tested Parameters.

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

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

31/05/2024

Dinesh
Reviewed By

Dinesh
31/05/2024
Dinesh Palsaniya
Authorised Signatory



TEST REPORT

Report No.	ISSPL/EN/24-25/08701	Date	31/05/2024
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.	Order No. WA24Y-00002, Dated: 10/05/2024, Your TRF Dated: 30/05/2024 (Reg. No. 90299)	
3.	Material Identification with details	Boiler Stack: Date and Time of Sampling: 14/05/2024 (12:01 pm to 12:20 pm), Location: Boiler No.3(Third Unit, Unit-3) 660 MW, Qty. 1 No.	
4.	Sample code	90299	
5.	Date of sampling	14/05/2024	
6.	Date of Sample testing	31/05/2024 To 31/05/2024	
7.	Sampling duration (in minutes)	19 Min.	
8.	Sampling Location	Boiler No.3(Third 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	Coal	
12.	Stack Diameter (in meters)	7.2	
13.	Stack height (in meters)	275	
14.	Type and quantity of fuel used		
15.	Instrument Code & Calibration Status	ISSPL/INS/C/133	
16.	Control Measures if any	-	
17.	Ambient Temperature (oC)	47.6°C	
18.	Flue Gas Temperature (oC)	-	

RESULTS

S.No.	Test Parameters	Test Method	Results	Units	Specifications
3I. Chemical Testing:-					
1. Atmospheric Pollution:-					
1	Particulate Matter (PM)	IS 11255 (Part 1) 1985, RA: 2019	33.19	mg/Nm3	Not Specified

31/05/2024

[Signature]
Reviewed By





IRCLASS

SYSTEMS AND SOLUTIONS PRIVATE LIMITED

Testing Laboratory

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/24-25/08701			Date	31/05/2024
S.No.	Test Parameters	Test Method	Results	Units	Specifications	
2	Temperature	CPCB Emission Regulation(Part -3)	160.0	°C	Not Specified	
3	Velocity of Gas	CPCB Emission Regulation(Part -3)	26.4	m/s	Not Specified	
4	Sulphur dioxide (SO ₂)	USEPA 6C: 1996/By Flue Gas Analyzer	1104.6	mg/Nm ³	Not Specified	
5	Oxides of Nitrogen (NO _x)	USEPA 7E: 1990/By Flue Gas Analyzer	82.25	mg/Nm ³	Not Specified	
6	Carbon Monoxide (CO)	USEPA 10: 1996/By Flue Gas Analyzer	4.58	mg/Nm ³	Not Specified	
7	CO ₂	USPA 3A:1989	11.0	%	Not Specified	
8	O ₂	USPA 3A:1989	8.4	%	Not Specified	
9	Mercury (Hg)	USEPA 29:1996/101A:1991	BLQ(LOQ 0.001)	µg/Nm ³	-	
10	Moisture	USEPA 4	8.8	%	Not Specified	

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

Remark: - Sample Conforms to Limit as per Environmental (Protection) Act, 1986 with respect to above tested Parameters.

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

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

31/05/2024

D. Jangid
Reviewed By

IRCLASS Systems And Solutions
Jaipur
31/05/2024
Dinesh Palsaniya
Authorised Signatory