



ITS TESTING LABORATORY PRIVATE LIMITED

Laboratory: A-114, Sector-80, Phase-II Noida, Gautam Budh Nagar - 201305, (U.P.)
(An ISO 9001: 2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory)
Website: www.itslab.in, Email: itrlclab@gmail.com, info@itslab.in, contact@itslab.in
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Doc. No. – ITS/7.8-01, Page No. – 1 of 1

TEST REPORT

Ambient Air Quality Analysis

Report Code: AAQ-100326-40

Issue Date: 24/03/2026

Issued To : M/s. Kesda Waste Management Pvt. Ltd.
Balodabazar, Chhattisgarh

SAMPLING & ANALYSIS DATA

Sample Description : Ambient Air
Date of Sampling : 05/03/2026 to 06/03/2026
Sample Drawn By : (ITS LAB Representative)
Sampling Location : Near CAAQMS-2 (N21.598728,E 81.791138)
Sampling Plan & Procedure : IS:5182 & CPCB Guidelines
Average Flow Rate of SPM (m³/min.) : 1.16
Average Flow Rate of Gases (lpm) : 0.2
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate Sampler (PM_{2.5}) With Gaseous Attachment
Sampling Machine Placed At Height : 2.5 Meter from Ground Level
Ambient Temperature & Humidity : 26 °C & 53 %
Weather Condition : Clear
Sample Received On : 10/03/2026
Analysis Duration : 10/03/2026 To 15/03/2026

TEST RESULT				
S. No.	Parameter	Test Method	Results	Limits as per CPCB Notification 18 th Nov 2009
1.	Particulate Matter (PM ₁₀) (µg/m ³)	IS:5182 (Part-23)	89	100
2.	Particulate Matter (PM _{2.5}) (µg/m ³)	IS:5182 (Part-24)	54	60
3.	Sulphur dioxide (as SO ₂) (µg/m ³)	IS:5182 (Part-02/Sec-2)	18.3	80
4.	Nitrogen dioxide (as NO ₂) (µg/m ³)	IS 5182 (Part-06/Sec-2)	36.9	80
5.	Carbon monoxide (as CO) (mg/m ³)	IS:5182 (Part-10)	0.90	4.0
6.	Lead (as Pb) (ng/m ³)	IS:5182 (Part-22)	<1.0	1.0
7.	Ozone (as O ₃) (µg/m ³)	IS:5182 (Part-09)	35.2	180
8.	Benzene (as C ₆ H ₆) (µg/m ³)	IS:5182 (Part-11)	<0.1	5.0
9.	Benzo (a) Pyrine, (ng/m ³)	IS:5182 (Part-12)	<1.0	1.0
10.	Ammonia (as NH ₃) (µg/m ³)	IS:5182 (Part-25)	21.6	400
11.	Nickel (as Ni) (ng/m ³)	IS:5182 (Part-26)	<1.0	20
12.	Arsenic (as As) (ng/m ³)	APHA-AIR 3rd Edition-302	<1.0	6.0

Note: - Report shall not be produce except in full without approval of the laboratory

Reviewed by

End of Report



Terms & Conditions :

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TEST REPORT

Ambient Air Quality Analysis

Report Code: AAQ-100326-41

Issue Date: 24/03/2026

Issued To : M/s. Kesda Waste Management Pvt. Ltd.
Balodabazar, Chhattisgarh

SAMPLING & ANALYSIS DATA

Sample Description : Ambient Air
Date of Sampling : 05/03/2026 to 06/03/2026
Sample Drawn By : (ITS LAB Representative)
Sampling Location : Near Labour Room (N21.602785, E81.789330)
Sampling Plan & Procedure : IS:5182 & CPCB Guidelines
Average Flow Rate of SPM (m³/min.) : 1.16
Average Flow Rate of Gases (lpm) : 0.2
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate Sampler (PM_{2.5}) With Gaseous Attachment
Sampling Machine Placed At Height : 2.5 Meter from Ground Level
Ambient Temperature & Humidity : 26 °C & 53 %
Weather Condition : Clear
Sample Received On : 10/03/2026
Analysis Duration : 10/03/2026 To 15/03/2026

TEST RESULT

S. No.	Parameter	Test Method	Results	Limits as per CPCB Notification 18 th Nov 2009
1.	Particulate Matter (PM ₁₀) (µg/m ³)	IS:5182 (Part-23)	87	100
2.	Particulate Matter (PM _{2.5}) (µg/m ³)	IS:5182 (Part-24)	52	60
3.	Sulphur dioxide (as SO ₂) (µg/m ³)	IS:5182 (Part-02/Sec-2)	20.6	80
4.	Nitrogen dioxide (as NO ₂) (µg/m ³)	IS 5182 (Part-06/Sec-2)	43.5	80
5.	Carbon monoxide (as CO) (mg/m ³)	IS:5182 (Part-10)	0.95	4.0
6.	Lead (as Pb) (ng/m ³)	IS:5182 (Part-22)	<1.0	1.0
7.	Ozone (as O ₃) (µg/m ³)	IS:5182 (Part-09)	41.9	180
8.	Benzene (as C ₆ H ₆) (µg/m ³)	IS:5182 (Part-11)	<0.1	5.0
9.	Benzo (a) Pyrene, (ng/m ³)	IS:5182 (Part-12)	<1.0	1.0
10.	Ammonia (as NH ₃) (µg/m ³)	IS:5182 (Part-25)	26.2	400
11.	Nickel (as Ni) (ng/m ³)	IS:5182 (Part-26)	<1.0	20
12.	Arsenic (as As) (ng/m ³)	APHA-AIR 3rd Edition-302	<1.0	6.0

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Reviewed by

End of Report



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TEST REPORT

Ambient Air Quality Analysis

Report Code: AAQ-100326-42

Issue Date: 24/03/2026

Issued To : M/s. Kesda Waste Management Pvt. Ltd.
Balodabazar, Chhattisgarh

SAMPLING & ANALYSIS DATA

Sample Description : Ambient Air
Date of Sampling : 05/03/2026 to 06/03/2026
Sample Drawn By : (ITS LAB Representative)
Sampling Location : Near Parking Area (21.602870, 81.792515)
Sampling Plan & Procedure : IS:5182 & CPCB Guidelines
Average Flow Rate of SPM (m³/min.) : 1.16
Average Flow Rate of Gases (lpm) : 0.2
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate Sampler (PM_{2.5}) With Gaseous Attachment
Sampling Machine Placed At Height : 2.5 Meter from Ground Level
Ambient Temperature & Humidity : 26 °C & 53 %
Weather Condition : Clear
Sample Received On : 10/03/2026
Analysis Duration : 10/03/2026 To 15/03/2026

TEST RESULT

S. No.	Parameter	Test Method	Results	Limits as per CPCB Notification 18 th Nov 2009
1.	Particulate Matter (PM ₁₀) (µg/m ³)	IS:5182 (Part-23)	87	100
2.	Particulate Matter (PM _{2.5}) (µg/m ³)	IS:5182 (Part-24)	52	60
3.	Sulphur dioxide (as SO ₂) (µg/m ³)	IS:5182 (Part-02/Sec-2)	17.2	80
4.	Nitrogen dioxide (as NO ₂) (µg/m ³)	IS 5182 (Part-06/Sec-2)	42.1	80
5.	Carbon monoxide (as CO) (mg/m ³)	IS:5182 (Part-10)	1.15	4.0
6.	Lead (as Pb) (ng/m ³)	IS:5182 (Part-22)	<1.0	1.0
7.	Ozone (as O ₃) (µg/m ³)	IS:5182 (Part-09)	38.7	180
8.	Benzene (as C ₆ H ₆) (µg/m ³)	IS:5182 (Part-11)	<0.1	5.0
9.	Benzo (a) Pyrene, (ng/m ³)	IS:5182 (Part-12)	<1.0	1.0
10.	Ammonia (as NH ₃) (µg/m ³)	IS:5182 (Part-25)	29.6	400
11.	Nickel (as Ni) (ng/m ³)	IS:5182 (Part-26)	<1.0	20
12.	Arsenic (as As) (ng/m ³)	APHA-AIR 3rd Edition-302	<1.0	6.0

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Reviewed by

End of Report

Authorized Signatory



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TEST REPORT

Ambient Air Quality Analysis

Report Code: AAQ-100326-43

Issue Date: 24/03/2026

Issued To : M/s. Kesda Waste Management Pvt. Ltd.
Balodabazar, Chhattisgarh

SAMPLING & ANALYSIS DATA

Sample Description : Ambient Air
Date of Sampling : 05/03/2026 to 06/03/2026
Sample Drawn By : (ITS LAB Representative)
Sampling Location : Near Scrapyrd Area (21.603578, 81.787429)
Sampling Plan & Procedure : IS:5182 & CPCB Guidelines
Average Flow Rate of SPM (m³/min.) : 1.16
Average Flow Rate of Gases (lpm) : 0.2
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate Sampler (PM_{2.5}) With Gaseous Attachment
Sampling Machine Placed At Height : 2.5 Meter from Ground Level
Ambient Temperature & Humidity : 26 °C & 53 %
Weather Condition : Clear
Sample Received On : 10/03/2026
Analysis Duration : 10/03/2026 To 15/03/2026

TEST RESULT

S. No.	Parameter	Test Method	Results	Limits as per CPCB Notification 18 th Nov 2009
1.	Particulate Matter (PM ₁₀) (µg/m ³)	IS:5182 (Part-23)	93.0	100
2.	Particulate Matter (PM _{2.5}) (µg/m ³)	IS:5182 (Part-24)	54.0	60
3.	Sulphur dioxide (as SO ₂) (µg/m ³)	IS:5182 (Part-02/Sec-2)	23.6	80
4.	Nitrogen dioxide (as NO ₂) (µg/m ³)	IS 5182 (Part-06/Sec-2)	45.2	80
5.	Carbon monoxide (as CO) (mg/m ³)	IS:5182 (Part-10)	1.26	4.0
6.	Lead (as Pb) (ng/m ³)	IS:5182 (Part-22)	<1.0	1.0
7.	Ozone (as O ₃) (µg/m ³)	IS:5182 (Part-09)	49.2	180
8.	Benzene (as C ₆ H ₆) (µg/m ³)	IS:5182 (Part-11)	<0.1	5.0
9.	Benzo (a) Pyrine. (ng/m ³)	IS:5182 (Part-12)	<1.0	1.0
10.	Ammonia (as NH ₃) (µg/m ³)	IS:5182 (Part-25)	30.7	400
11.	Nickel (as Ni) (ng/m ³)	IS:5182 (Part-26)	<1.0	20
12.	Arsenic (as As) (ng/m ³)	APHA-AIR 3rd Edition-302	<1.0	6.0

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Reviewed by

End of Report



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Report Code: W-010626-80, Page- 1 of 2

TEST REPORT

Water Sample Analysis Discipline/Group-Chemical/Water

Report Code: W-010626-80

Issue Date: 16/06/2026

ISSUED TO : M/s. Kesda Waste Management Pvt. Ltd.
Address: Balodabazar, Chhattisgarh

Sample Description	:	Ground Water Sample				
Sampling Location	:	GW-1 MBW-01	GW-2 MBW-02	GW-3 MBW-03	GW-4 MBW-04	GW-5 MBW-05
GPS Coordinates	:	21.603435N, 81.789646E	21.602960N, 81.792536E	21.600732N 81.791837E	21.598356N 81.791560E	21.599399N 81.789187E
Sample Drawn By	:	ITS Representative				
Date of Sampling	:	05/03/2026	05/03/2026	05/03/2026	05/03/2026	05/03/2026
Sampling Procedure	:	IS:17614 (Part-01):2021				
Sample Quantity	:	2.0 Litre in Pet Bottle				
Analysis Duration	:	01/06/2026 To 07/06/2026	01/06/2026 To 07/06/2026	01/06/2026 To 07/06/2026	01/06/2026 To 07/06/2026	01/06/2026 To 07/06/2026

RESULTS As per IS 10500:2012										
S.No	Parameter	Test Method	Results					Unit	Acceptable Limit	Permissible Limit in the Absence of Alternate Source
			Location							
			GW-1	GW-2	GW-3	GW-4	GW-5			
1	Odour	IS-3025 (Part-05):2018	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable	Agreeable
2	pH Value at 25.4°C	IS:3025 (Part-11):2022	7.99	7.38	8.02	7.93	8.02	-	6.5–8.5	No Relaxation
3	Taste	IS:3025 (Part-07):2017	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable	Agreeable
4	Conductivity	IS:3025 (Part-14)	541.2	427.4	527.4	494.2	541.2	µS/cm	-	-
5	Total Dissolved Solids (TDS)	IS:3025 (Part-16)	324	256	316	296	324	mg/L	500	2000
6	Chloride (as Cl)	IS:3025 (Part-32)	14.9	18.9	34.9	33.9	68.9	mg/L	250	1000
7	Turbidity	IS-3025 (Part-10):1984	0.8	0.2	0.55	1.76	2.28	NTU	1	5
8	Total Alkalinity (as CaCO ₃)	IS:3025 (Part-23)	188	116	162	108	122	mg/L	200	600

Checked By

[Signature]

Authorized Signatory



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9	Total Hardness (as CaCO ₃)	IS:3025 (Part-21):2009	240	162	228	156	184	mg/L	200	600
10	Calcium (as Ca)	IS:3025 (Part-40):1991	62.52	39.28	58.52	38.48	42.48	mg/L	75	200
11	Magnesium (as Mg)	IS:3025 (Part-46)	20.41	15.55	19.93	14.58	18.95	mg/L	30	100
12	Sulphate (as SO ₄)	IS:3025 (Part-24)	27.8	37.94	25.39	37.41	28.21	mg/L	200	400
13	Fluoride (as F)	APHA 4500 F(D) 23rd Ed.: 2017	0.13	0.14	0.11	0.13	0.1	mg/L	1.0	1.5
14	Nitrate (as NO ₃)	IS:3025 (Part-34)	1.66	7.56	0.918	2.775	21.28	mg/L	45	No Relaxation
15	Copper (as Cu)	IS:3025 (Part-42)	0.3	0.29	0.3	0.28	0.27	mg/L	0.05	1.5
16	Iron (as Fe)	IS:3025 (Part-53)	0.11	0.16	0.1	0.11	0.12	mg/L	0.3	No Relaxation
17	Zinc (as Zn)	IS:3025 (Part-49)	N.D.	N.D.	N.D.	N.D.	N.D.	mg/L	5	15
18	Manganese (as Mn)	IS:3025 (Part-59)	N.D.	N.D.	N.D.	N.D.	N.D.	mg/L	0.1	0.3
19	Cadmium (as Cd)	IS:3025 (Part-41)	N.D.	N.D.	N.D.	N.D.	N.D.	mg/L	0.003	No Relaxation
20	Lead (as Pb)	IS:3025 (Part-47)	N.D.	N.D.	N.D.	N.D.	N.D.	mg/L	0.01	No Relaxation
21	Chromium (as Cr)	IS:3025 (Part-52)	N.D.	N.D.	N.D.	N.D.	N.D.	mg/L	0.05	No Relaxation
22	Selenium (as Se)	IS:3025 (Part-56)	N.D.	N.D.	N.D.	N.D.	N.D.	mg/L	0.01	No Relaxation
23	Arsenic (as As)	IS:3025 (Part-37)	N.D.	N.D.	N.D.	N.D.	N.D.	mg/L	0.01	0.05
24	Mercury (as Hg)		N.D.	N.D.	N.D.	N.D.	N.D.	mg/L	0.001	No Relaxation
25	Residual Free Chlorine	IS:3025 (Part-26)	N.D.	N.D.	N.D.	N.D.	N.D.	mg/L	0.2 minimum	1.0
26	Phenolic Compound (as C ₆ H ₅ OH)	IS:3025 (Part-43)	N.D.	N.D.	N.D.	N.D.	N.D.	mg/L	0.001	0.002
27	Cyanide (as CN)	APHA 6440 B	N.D.	N.D.	N.D.	N.D.	N.D.	mg/L	0.05	No Relaxation
28	Anionic Detergent (as MBAS)	Annex K of IS 13428	N.D.	N.D.	N.D.	N.D.	N.D.	mg/L	0.2	1.0
29	Aluminium (as Al)	APHA 3120 B	N.D.	N.D.	N.D.	N.D.	N.D.	mg/L	0.03	0.2
30	Polynuclear Aromatic Hydrocarbons (PAH)	APHA 4500-CN E	N.D.	N.D.	N.D.	N.D.	N.D.	mg/L	0.0001	No Relaxation
31	Total Coliform	IS-1622:1981	Absent	Absent	Absent	Absent	Absent	CFU/100 mL	Shall not be detectable in 100 ml sample	
32	E. coli	IS-1622:1981	Absent	Absent	Absent	Absent	Absent	CFU/100 mL	Shall not be detectable in 100 ml sample	

Checked By

End of Report

Authorized Signatory

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TEST REPORT

Work Zone Noise

Report Code: N- 100326-11

Issue Date: 16/03/2026

ISSUED TO: M/S. KESDA WASTE MANAGEMENT PVT. LTD.
BALODABAZAR, CHHATTISGARH

SAMPLING & ANALYSIS DATA

Sample Description : Work Zone Noise
Date of Sample Drawn : 07/03/2026
Sample drawn by : Mr. Prakash Kumar (ITS LAB Representative)
Sampling Location : 1.0 Meter Away from Acoustic Enclosure
Capacity : ATFD
Sampling Duration : 10 Minutes
Sampling Plan & Procedure : ITS/LAB/SAMPLING/SOP/02
Sampling Instrument Used : Noise Meter
Weather Condition : Clear
Purpose of Monitoring : Near ATFD.
Sample Received On : 10/03/2026
Analysis Duration : 10/03/2026 To 14/03/2026

TEST RESULT

Location	Noise Level, Cum Leq dB(A)	Protocol followed	Limit as per CPCB Norms
(A). When ATFD On.	85.7	EPA-1986 PCL/02/2010	90.0 (Max)

Note: - (*) EPA-1986 PCL/02/2010, Factory Act [Chapter 104, Section 102(1)} Factories noise regulation.

Remark: The sound level is coming below the limit prescribed by EPA-1986 for work zone/Indoor Area.

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Reviewed by

R.K. Singh
Technical Manager
Authorized Signatory

End of Report

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Doc. No. – ITS/7.8-01, Page No. – 1 of 1

TEST REPORT

D.G. Noise Analysis

Report Code: N 100326-10

Issue Date: 16/03/2026

ISSUED TO: M/S. KESDA WASTE MANAGEMENT PVT. LTD.
BALODABAZAR, CHHATTISGARH

SAMPLING & ANALYSIS DATA

Sample Description : D.G. Set Noise
Date of Sample Drawn : 07/03/2026
Sample drawn by : Mr. Prakash Kumar (ITS LAB Representative)
Sampling Location : 1.0 Meter Away from Acoustic Enclosure
Capacity : D.G. Set – 250 KVA
Sampling Duration : 10 Minutes (One Minute Interval of Each Point)
Sampling Plan & Procedure : ITS/LAB/SAMPLING/SOP/02
Sampling Instrument Used : Noise Meter
Weather Condition : Clear
Purpose of Monitoring : Efficacy of D.G. Acoustic Enclosure
Sample Received On : 10/03/2026
Analysis Duration : 10/03/2026 To 14/03/2026

TEST RESULT			
Location	Noise Level, Cum Leq dB(A)	Protocol followed	Limit as per CPCB Norms
(A). When D.G. Set was in operation			
1. Open D.G. window			
(a) 0.5 mtr. Distance away from DG Set engine	102.4	IS:4758: 1968	75.0 (Max) from 1.0-meter distance in close window
(b) 1.0 mtr. Distance away from DG Set engine	101.7		
2. Close DG window			
(a) 0.5 mtr. Distance away from the gate of DG Set engine	73.5		
(b) 1.0 mtr. Distance away from the gate DG Set engine	72.2		

Remark: All doors of acoustic enclosure closed and D.G. Set running at the time of monitoring.

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Reviewed by

R.K. Singh
Technical Manager
Authorized Signatory

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Test Report

Stack Emission Quality Analysis

Report Code: SE 100326-09

Issue Date: 16/03/2026

ISSUED TO : M/S. KESDA WASTE MANAGEMENT PVT. LTD.
BALODABAZAR, CHHATTISGARH

SAMPLING & ANALYSIS DATA

Sample Description	:	Stack Emission
Date of Sample Drawn	:	07/03/2026
Sample drawn by	:	ITS LAB Representative
Source of Emission	:	Stack Attached To D.G. Set – 200KVA (160 kW)
Ambient Temperature (°C)	:	32
Flue Gas Temperature (°C)	:	187
Type of Stack	:	MS / Circular
Type of Fuel Used	:	HSD
Stack Height from Ground Level (meter)	:	12.0
Stack Diameter (meter)	:	0.1524
Average Velocity of Flue Emission(m/s)	:	15.87
Quantity of Emission Discharge (m ³ /hr.)	:	276.99
Parameters to be tested	:	As per EPA Act-1986/CPCB/MoEF Guideline
Test Method Used for Monitoring	:	APHA-AIR/US EPA/IS:11255
Instrument Used for Monitoring	:	Stack Kit/Flue Gas Analyzer
Operating Load	:	Full
Sampling Time (Minutes)	:	46.0
Any Pollution Control System, If Any	:	RSED
Date Sample Received	:	10/03/2026
Analysis Duration	:	10/03/2026 To 14/03/2026

TEST RESULTS				
S. No.	Parameter	Test Method	Results	Limit as per CPCB Notification, 3 November 2022 For 56kW To 560kW D.G. Set (Max)
1.	Particulate Matter (as PM) (g/kw-hr)	IS:11255(Part-1)	0.017	0.02
2.	Sulphur Dioxide (as SO ₂) (mg/Nm ³)	IS:11255(Part-1)	10.45	Not Specified
3.	Oxides of Nitrogen (as NO _x) (g/kw-hr)	IS:11255(Part-7)	0.276	0.40
4.	Hydrocarbons (as HC) (g/kw-hr)	IS:11255(Part-13)	0.050	0.19
5.	Carbon monoxide (as CO) (g/kw-hr)	IS:13270	0.076	3.5

Remark- Tested parameters meet as per standard notified on dated 3 November 2022 by CPCB for 56-560 kW D.G Set.

Note: g/Kw-hr:- Gram Per Kilo Watt Hour

Note:- Report shall not be produced except in full without approval of the laboratory.

Reviewed by

R.K. Singh
Authorized Signatory

End of Report

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Test Report

Stack Emission Quality Analysis

Report Code: SE 100326-07

Issue Date: 16/03/2026

ISSUED TO: M/S. KESDA WASTE MANAGEMENT PVT. LTD.
BALODABAZAR, CHHATTISGARH

SAMPLING & ANALYSIS DATA

Sample Drawn on	:	06/03/2026
Sample Drawn By	:	Mr. Krishan Kumar (ITS Representative)
Sample Description	:	Stack Emission
Sampling Plan & Procedure	:	SOP/SE/09
Date of Sample Received	:	10/03/2026
Time Of Sampling & No. Of Sample	:	(Time:01:23AM to 02.43PM)
Analysis Duration	:	10/03/2026 TO 14/03/2026
Ambient Temperature (°C)	:	36
Stack Temperature (°C)	:	47.0
Source of Emission	:	Stack Attached to FES-2
Purpose of Monitoring	:	Assessment of Pollution Load
Capacity	:	2000 CFM.
Type of Stack	:	MS/Circular
Type of Fuel used	:	Electricity
Fuel Consumption	:	...
Operating Load	:	100%
Stack Dia (meter)	:	0.15
Stack Height form Ground Level (Mtr.)	:	16 Mtr.
Average Velocity of Flue Emission (m/s)	:	11.9
Quantity of Emission Discharge (Nm ³ /hr)	:	453.623
Sampling Time (Minutes)	:	48.0
Flow Rate of PM (LPM)	:	22.0
Any Air pollution Control System, If Any	:	NA

ANALYSIS TEST RESULT

S.N.	Parameter	Test Method	Results	Units	Emission limits for Boiler As per CPCB Norm's
1.	Particulate Matter (PM)	IS:11255(Part-1)	26.8	mg /Nm ³	50 Max.

Checked by

Authorized Signatory

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Test Report

Stack Emission Quality Analysis

Report Code: SE 100326-06

Issue Date: 16/03/2026

ISSUED TO: M/S. KESDA WASTE MANAGEMENT PVT. LTD.
BALODABAZAR, CHHATTISGARH

SAMPLING & ANALYSIS DATA

Sample Drawn on	:	06/03/2026
Sample Drawn By	:	Mr. Krishan Kumar (ITS Representative)
Sample Description	:	Stack Emission
Sampling Plan & Procedure	:	SOP/SE/09
Date of Sample Received	:	10/03/2026
Time Of Sampling & No. Of Sample	:	(Time: 10:32AM to 12.10PM)
Analysis Duration	:	10/03/2026 TO 14/03/2026
Ambient Temperature (°C)	:	36
Stack Temperature (°C)	:	45.0
Source of Emission	:	Stack Attached to FES-1
Purpose of Monitoring	:	Assessment of Pollution Load
Capacity	:	2000 CFM.
Type of Stack	:	MS/Circulars
Type of Fuel used	:	Electricity
Fuel Consumption	:	...
Operating Load	:	100%
Stack Dia (meter)	:	0.15
Stack Height form Ground Level (Mtr.)	:	16 Mtr.
Average Velocity of Flue Emission (m/s)	:	12.8
Quantity of Emission Discharge (Nm ³ /hr)	:	543.342
Sampling Time (Minutes)	:	56.0
Flow Rate of PM (LPM)	:	20.0
Any Air pollution Control System, If Any	:	NA

ANALYSIS TEST RESULT

S.N.	Parameter	Test Method	Results	Units	Emission limits for Boiler As per CPCB Norm's
1.	Particulate Matter (PM)	IS:11255(Part-1)	23.6	mg /Nm ³	50 Max.

Checked by 

Authorized Signatory 
R.K. Singh
Technical Manager

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TC-11181

Test Report

Stack Emission Quality Analysis

Report Code: SE 100326-08

Issue Date: 16/03/2026

ISSUED TO : M/S. KESDA WASTE MANAGEMENT PVT. LTD.
BALODABAZAR, CHHATTISGARH

SAMPLING & ANALYSIS DATA

Sample Drawn on	:	06/03/2026
Sample Drawn By	:	Mr. Krishan Kumar (ITS Representative)
Sample Description	:	Stack Emission
Sampling Plan & Procedure	:	SOP/SE/09
Date of Sample Received	:	10/03/2026
Time Of Sampling & No. Of Sample	:	(Time: 03:23AM to 04.53PM)
Analysis Duration	:	10/03/2026 TO 14/03/2026
Ambient Temperature (°C)	:	36
Stack Temperature (°C)	:	139.0
Source of Emission	:	Stack Attached to ATFD
Purpose of Monitoring	:	Assessment of Pollution Load
Capacity	:	2000 CFM.
Type of Stack	:	MS/Circular
Type of Fuel used	:	HSD
Fuel Consumption	:	25ltr/hr.
Operating Load	:	100%
Stack Dia (meter)	:	0.1
Stack Height form Ground Level (Mtr.)	:	18 Mtr.
Average Velocity of Flue Emission (m/s)	:	14.3
Quantity of Emission Discharge (Nm ³ /hr)	:	256.44
Sampling Time (Minutes)	:	36.0
Flow Rate of PM (LPM)	:	29.0
Any Air pollution Control System, If Any	:	RSED

ANALYSIS TEST RESULT

S.N.	Parameter	Test Method	Results	Units	Emission limits for Boiler As per CPCB Norm's
1.	Particulate Matter (PM)	IS:11255(Part-1)	43.1	mg /Nm ³	50 Max.

Checked by

Authorized Signatory
Technical Manager



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Doc. No. – ITS/7.8-01

Report Code: SS: 100325-03, Page – 1 of 3

TEST REPORT

Soil Sample Analysis

Report Code: SS: 100325-04

Issue Date: 15/03/2025

Issued To: M/s. Kesda Waste Management Pvt. Ltd.
Balodabazar, Chhattisgarh

Sampling & Particulate Detail

Sample Description	:	Soil Sample
Sampling Location	:	Near FFRP (N21.603719, E81.788949)
Date of Sampling	:	06/03/2025
Sample Drawn By	:	Mr. Vivek Kumar (ITS LAB Representative)
Sampling Procedure	:	ITS/LAB/SAMPLING/STP/05
Sample Quantity	:	2.0 Kg in Zip Poly Bag
Weather Condition	:	Clear Sky
Sample Received On	:	10/03/2025
Analysis Duration	:	10/03/2025 To 15/03/2025

TEST RESULT

S. No.	Parameter	Test Method	Result	Unit
1.	pH Value	IS:2720(Part-26)	8.34	-
2.	Conductivity	IS:14767	193.8	μS/cm
3.	Sulphur	ITS/STP/SOIL/09	51.2	mg/kg
4.	Zinc (as Zn)	IS:2720(Part-02)	13.41	mg/kg
5.	Iron (as Fe)	IS:2720(Part-23)	102.48	mg/kg
6.	Copper (as Cu)	ITS/STP/SOIL/06	9.07	mg/kg
7.	Manganese (as Mn)	ITS/STP/SOIL/01	24.15	mg/kg
8.	Boron	ITS/STP/SOIL/07	4.52	kg/ha
9.	Molybdenum	IS:2720 (Part-27)	N.D.	kg/ha
10.	Water Content	ITS/STP/SOIL/08	14.3	%
11.	Texture of Soil	ITS/STP/SOIL/03	CLAY	-

Reviewed by

End Report

Authorized Signatory



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Report Code: SS: 100325-03, Page – 1 of 3

TEST REPORT

Soil Sample Analysis

Report Code: SS: 100325-05

Issue Date: 15/03/2025

Issued To: M/s. Kesda Waste Management Pvt. Ltd.
Balodabazar, Chhattisgarh

Sampling & Particulate Detail

Sample Description	:	Soil Sample
Sampling Location	:	Bilari Village(N21.778583, E81.778583)
Date of Sampling	:	06/03/2025
Sample Drawn By	:	Mr. Vivek Kumar (ITS LAB Representative)
Sampling Procedure	:	ITS/LAB/SAMPLING/STP/05
Sample Quantity	:	2.0 Kg in Zip Poly Bag
Weather Condition	:	Clear Sky
Sample Received On	:	10/03/2025
Analysis Duration	:	10/03/2025 To 15/03/2025

TEST RESULT

S. No.	Parameter	Test Method	Result	Unit
1.	pH Value	IS:2720(Part-26)	8.21	-
2.	Conductivity	IS:14767	187	μS/cm
3.	Sulphur	ITS/STP/SOIL/09	48.6	mg/kg
4.	Zinc (as Zn)	IS:2720(Part-02)	12.68	mg/kg
5.	Iron (as Fe)	IS:2720(Part-23)	98.63	mg/kg
6.	Copper (as Cu)	ITS/STP/SOIL/06	8.65	mg/kg
7.	Manganese (as Mn)	ITS/STP/SOIL/01	22.62	mg/kg
8.	Boron	ITS/STP/SOIL/07	4.16	kg/ha
9.	Molybdenum	IS:2720 (Part-27)	N.D.	kg/ha
10.	Water Content	ITS/STP/SOIL/08	13.6	%
11.	Texture of Soil	ITS/STP/SOIL/03	CLAY	

Reviewed by

End Report

Authorized Signatory



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Doc. No. – ITS/7.8-01

Report Code: SS: 100325-03, Page – 1 of 3

TEST REPORT

Soil Sample Analysis

Report Code: SS: 100325-03

Issue Date: 15/03/2025

Issued To: M/s. Kesda Waste Management Pvt. Ltd.
Balodabazar, Chhattisgarh

Sampling & Particulate Detail

Sample Description	:	Soil Sample
Sampling Location	:	Kesda Village (N21.614056, E81.803833)
Date of Sampling	:	06/03/2025
Sample Drawn By	:	Mr. Vivek Kumar (ITS LAB Representative)
Sampling Procedure	:	ITS/LAB/SAMPLING/STP/05
Sample Quantity	:	2.0 Kg in Zip Poly Bag
Weather Condition	:	Clear Sky
Sample Received On	:	10/03/2025
Analysis Duration	:	10/03/2025 To 15/03/2025

TEST RESULT

S. No.	Parameter	Test Method	Result	Unit
1.	pH Value	IS:2720(Part-26)	8.08	-
2.	Conductivity	IS:14767	179.5	µS/cm
3.	Sulphur	ITS/STP/SOIL/09	45.8	mg/kg
4.	Zinc (as Zn)	IS:2720(Part-02)	11.92	mg/kg
5.	Iron (as Fe)	IS:2720(Part-23)	94.75	mg/kg
6.	Copper (as Cu)	ITS/STP/SOIL/06	8.12	mg/kg
7.	Manganese (as Mn)	ITS/STP/SOIL/01	21.34	mg/kg
8.	Boron	ITS/STP/SOIL/07	3.89	kg/ha
9.	Molybdenum	IS:2720 (Part-27)	N.D.	kg/ha
10.	Water Content	ITS/STP/SOIL/08	12.8	%
11.	Texture of Soil	ITS/STP/SOIL/03	CLAY	-

Reviewed by

End Report

Authorized Signatory



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