

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, Telangana, India
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Driven by Quality. Inspired by Science.

ISSUED TO:

**M/s. JRR Waste Management Pvt. Ltd.,
Plot No-22,23 GAA, MPIDC,
Industrial Area, Malanpur, Ghirongi,
District Bhind-477117
Madhya Pradesh.**

Report Number : VLL/VLS/23/20813/001
Issued Date : 2024.02.22
P.O. Number : JRR/BHIND/2024
P.O. Date : 22.01.2024

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SAMPLE PARTICULARS : Stack Connected to Bio Medical Waste Incinerator.

Sample Registration Date	: 2024.02.09	Sampling Date	: 2024.02.06
Analysis Starting Date	: 2024.02.09	Analysis Completion Date	: 2024.02.22
Test Required	: O ₂ , CO, CO ₂ , and Combustion Efficiency.		
Capacity of Incinerator	: 250 Kg/Hr		
Fuel Used	: PNG		
Sample collected by Vimta Labs Ltd.			

TEST REPORT

Sr.No	Parameters	UoM	Method of Testing	Results	ELV*
1	Height of the Stack	m	--	30	--
2	Dia of the Stack	m	--	0.4	--
3	Flue Gas Temperature	°C	--	142	--
4	Velocity of Flue Gas, Ve.	m/Sec	USEPA Method -3	8.91	--
5	Volumetric Flow Rate	Nm ³ /Hr		2591.7	--
6	Oxygen as O ₂	%	USEPA CTM 30&34 by Combustion Analyser	14.31	--
7	Carbon Di Oxide as CO ₂	%		5.61	--
8	Carbon Monoxide as CO	mg/Nm ³		201.25	--
10	Combustion Efficiency	%	Calculation	99.82	> 99.00

*Emission Limit Values as per Schedule II of the Bio-medical Waste Management Rules, 2016

Dr. SubbaReddy Mallampati
Manager-Environment

Vimta Labs Limited

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SAMPLE PARTICULARS : Stack Connected to Bio Medical Waste Incinerator.

Sample Registration Date	: 2024.02.09	Sampling Date	: 2024.02.06
Analysis Starting Date	: 2024.02.09	Analysis Completion Date	: 2024.02.22
Test Required	: PCDD& PCDF		
Capacity of Incinerator	: 250 Kg/Hr		
Fuel Used	: PNG		
Sample collected by Vimta Labs Ltd.			

TEST REPORT

Sr.No.	Parameters	UoM	Method of Testing	Results
1	Dia of the Stack	m	--	0.4
2	Flue Gas Temperature	°C	USEPA Method -3	142
3	Velocity of Flue Gas	m/Sec		8.91
4	Volumetric Flow Rate	Nm ³ /Hr		2591.7

Sr. No	Congeners of Dioxin & Furans	Concentration (ng)	TEF by WHO	Results TEQ-(ng)
1	1234678-HpCDD	0.033	0.01	0.000
2	1234678-HpCDF	0.260	0.01	0.003
3	1234789-HpCDF	0.017	0.01	0.000
4	123478-HxCDD	0.020	0.1	0.002
5	123478-HxCDF	0.012	0.1	0.001
6	123678-HxCDD	0.406	0.1	0.041
7	123678-HxCDF	0.001	0.1	0.000
8	123789-HxCDD	0.289	0.1	0.029
9	123789-HxCDF	0.019	0.1	0.002
10	12378-PeCDD	0.026	0.5	0.013
11	12378-PeCDF	0.118	0.05	0.006
12	234678-HxCDF	1.010	0.1	0.101
13	23478-PeCDF	0.003	0.5	0.001
14	2378-TCDD	0.000	1	0.000
15	23478-TCDF	0.006	0.1	0.001
16	OCDD	0.873	0.001	0.001
17	OCDF	3.074	0.001	0.003
Total ng TEQ				0.2037
Vstd (Nm³)				5.44
ng TEQ/Nm³				0.0374
O₂% in Flue Gas				14.31
Total Furans & Dioxins (ng TEQ/Nm³ at 11 % O₂ Correction)				0.0563
Limits as per As per Schedule II of the Bio-medical Waste Management Rules, 2016.				<0.1

Instruments used for Gaseous Composition: Optima 7 Multi Gas Analyser
Detection Limit: 0.01pg
TEF: Toxicity Equivalence Factor by W.H.O.


Dr. SubbaReddy Mallampati
Manager-Environment