

ISSUED TO:

M/S. DEVI SURGICO
Office : 3, Girraj Market ,Lohia Bazar
Gwalior
Plant Address : 1331/2 Jourasi Antri Road
District : Gwalior

Report Number : VLL/VLS/23/09511/002
Issued Date : 15.09.2023
P.O. Number : 528/CBWTF/2023-24
P.O. Date : 28/08/2023

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SAMPLE PARTICULARS : Stack Connected to Bio Medical Waste Incinerator

Sample Registration Date	: 26/08/2023	Sampling Date	: 21/08/2023
Analysis Starting Date	: 26/08/2023	Analysis Completion Date	: 15/09/2023
Test Required	: PCDD& PCDF		
Incinerator Capacity	: 100 Kg/Hr		
Fuel Used	: Light Diesel Oil		
Sample collected by Vimta Labs Ltd.			

TEST REPORT

Sr.N o	Congeners of Dioxin & Furans	Concentrations		
		Concentration (ng)	TEF	TEQ (ng)
1	1234678-HpCDD	0.4100	0.01	0.0041
2	1234678-HpCDF	0.2740	0.01	0.0027
3	1234789-HpCDF	0.0740	0.01	0.00074
4	123478-HxCDD	0.0086	0.1	0.0009
5	123478-HxCDF	0.1520	0.1	0.0152
6	123678-HxCDD	0.0930	0.1	0.0093
7	123678-HxCDF	0.0830	0.1	0.0083
8	123789-HxCDD	0.0660	0.1	0.0066
9	123789-HxCDF	0.0510	0.1	0.0051
10	12378-PeCDD	0.0274	0.5	0.0137
11	12378-PeCDF	0.1400	0.05	0.0070
12	234678-HxCDF	0.0630	0.1	0.0063
13	23478-PeCDF	0.3330	0.5	0.1665
14	2378-TCDD	0.2630	1	0.2630
15	23478-TCDF	0.4990	0.1	0.0499
16	OCDD	0.7650	0.001	0.0008
17	OCDF	0.2148	0.001	0.0018
Total ng TEQ				0.5619
Vstd (Nm³)				5.13
ng TEQ/Nm³				0.1095
% of O2 in Flue Gas				08.01
Total Furans & Dioxins (ng TEQ/Nm³ at 11 % O2 Correction)				0.0841
Limits as per As per Schedule II of the Bio-medical Waste Management Rules, 2016.				<0.1
ng TEQ/Nm³ at 11 % O2 Correction				

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

Original Report

Vimta Labs Limited

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Driven by Quality. Inspired by Science.

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Sample Registration Date	: 26/08/2023	Sampling Date	: 21/08/2023
Analysis Starting Date	: 26/08/2023	Analysis Completion Date	: 15/09/2023
Test Required	: O ₂ ,SO ₂ , CO ₂ , NO _x , and Particulate Matter.		
Incinerator Capacity	: 100 Kg/Hr		
Fuel Used	: Light Diesel Oil		
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	--	0.33	--
3	Velocity of Flue Gas, Ve.	m/Sec	USEPA Method 3	4.7	--
4	Volumetric Flow Rate	Nm ³ /Hr		1152	--
5	Oxygen as O ₂	%	USEPA CTM 30&34 by Combustion Analyser	08.01	--
6	Carbon Di-Oxide as CO ₂	%		09.54	--
7	Carbon Monoxide as CO	ppm		78	100.00
8	Sulphur Dioxide as SO ₂	mg/Nm ³		64	200.00
9	Oxides as Nitrogen as NO _x as NO ₂	mg/Nm ³	USEPA Method -07	184.45	400.00
10	Particulate Matter	mg/Nm ³	USEPA Method 5	35.3	50.0

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

Dr. SubbaReddy Mallampati
Manager-Environment