

Vimta Labs Limited

Registered Office
 142, IDA Phase II, Cherlapally
 Hyderabad-500 051, Telangana, India
 T : +91 40 2726 4141
 F : +91 40 2726 3657



TC-5418

Vimta

Driven by Quality. Inspired by Science.

ISSUED TO:

M/s. Re Sustainability Limited,
(Formerly Known as Ramky Enviro Engineers Limited)
Unit: Costal Waste Management Project
Road No: 20/5, Jawaharlal Nehru Pharma city,
Parwada, Anakapalli – 531021, Andhra Pradesh.

Report Number : VLL/VLS/23/20751/001
 Issued Date : 2024-03-08
 P.O. Ref : 0400101284
 P.O. Date : 12-07-2023

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Sample Particulars : Source Emission Monitoring for Hazardous Waste Incinerator Stack.

Sampling Date : 2024-02-12 Sample Registration Date : 2024-02-14
 Analysis Starting Date : 2024-02-14 Analysis Completion Date : 2024-03-08
 Test Required : O₂, CO₂, CO, NO₂, SO₂, THC, HCl, HF, PM, VOC, TOC and PAH, Hg, Cd + Ti and Heavy Metals.

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No	Parameters	UoM	Method of Testing	Results	Limits as per GSR 481(E)	
1	Diameter of stack	m	-	0.8	--	
2	Flue gas temperature	°C	-	73	--	
3	Velocity	m/Sec	-	8.75	--	
4	Volumetric flow rate	Nm ³ /Hr	-	13,587	--	
5	Oxygen as O ₂	%	USEPA Method 30& 34	12.97	--	
6	Carbon Dioxide as CO ₂	%		7.12		
7	Carbon Monoxide as CO	mg/Nm ³		63.07	<100.0	
8	Oxides of Nitrogen as NO _x as NO ₂			129.1	< 400.0	
9	Sulphur Dioxide as SO ₂			69.5	< 200.0	
10	Total Hydrocarbon as THC			8.2	--	
11	Hydrogen Chloride as HCl			USEPA method -13 B	19.7	< 50.0
12	Hydrogen Fluoride as HF			USEPA method -26	1.3	< 4.0
13	Particulate Matter	USEPA method -05		38.1	< 50.0	
14	Volatile Organic Carbon as VOC	µg/Nm ³		USEPA Method-30/ Modified method-31	0.09	---
15	Total Organic Carbon as TOC	mg/Nm ³		USEPA method - 40 & MM5(10)	5.8	<20.0
16	Poly Aromatic Hydrocarbons as PAH	µg/Nm ³		Carb method-429	< 0.01	--
17	Mercury as Hg + their Compound	mg/Nm ³		USEPA Method - 29	<0.001	<0.05
18	Cadmium + Thallium (Cd + Tl) + their Compound	mg/Nm ³	<0.001		<0.05	
19	Total Metals: Sb+ As+ Pb+ Ca+ Cr+ Cu+ Mn+ Ni+ V+ Their Compounds	mg/Nm ³	0.211		< 0.5	

All the Values are represented at 11% O₂

Dr. SubbaReddy Mallampati
Manager-Environment

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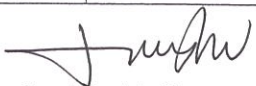
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Sample Particulars : Source Emission Monitoring for Hazardous Waste Incinerator Stack.

Sampling Date : 2024-02-12 Sample Registration Date : 2024-02-14
 Analysis Starting Date : 2024-02-14 Analysis Completion Date : 2024-03-08
 Test Required : PCDD& PCDF
 Sample Collected by Vimta Labs Ltd. Outsourcing Registration number EKA2-24-02-02296.

TEST REPORT

Sr. No	Parameters	UoM	Results	
1	Diameter of Stack	m	0.8	
2	Temperature	°C	73	
3	Average Velocity	m/sec	8.75	
4	Volumetric flow rate	Nm ³ /Hr	13,587	
Congeners of Dioxin & Furans		Concentration		
		Concentration (ng)	WHO TEF	TEQ (ng)
1	2,3,7,8-TCDD	0.0103	1	0.0103
2	1,2,3,7,8-PeCDD	0.0031	0.5	0.0016
3	1,2,3,4,7,8-HxCDD	0.0021	0.1	0.0002
4	1,2,3,6,7,8-HxCDD	0.0021	0.1	0.0002
5	1,2,3,7,8,9-HxCDD	0.0021	0.1	0.0002
6	1,2,3,4,6,7,8-HpCDD	0.0250	0.01	0.0003
7	OCDD	0.0500	0.001	0.0001
8	2,3,7,8-TCDF	0.0800	0.1	0.0080
9	1,2,3,7,8-PeCDF	0.0122	0.05	0.0006
10	2,3,4,7,8-PeCDF	0.0292	0.5	0.0146
11	1,2,3,4,7,8-HxCDF	0.0329	0.1	0.0033
12	1,2,3,6,7,8-HxCDF	0.0279	0.1	0.0028
13	1,2,3,7,8,9-HxCDF	0.0029	0.1	0.0003
14	2,3,4,6,7,8-HxCDF	0.0159	0.1	0.0016
15	1,2,3,4,6,7,8-HpCDF	0.0495	0.01	0.0005
16	1,2,3,4,7,8,9-HpCDF	0.0010	0.01	0.0000
17	OCDF	0.0315	0.001	0.0000
Total ng TEQ				0.0445
Vstd (Nm ³)				5.10
ng TEQ/Nm ³				0.0087
% of O ₂ in Flue Gas				12.97
Total Furans & Dioxins (ng TEQ/Nm ³ at 11 % O ₂ Correction)				0.0108
Limits as per Notification G.S.R. 481(E)				< 0.1


Dr. SubbaReddy Mallampati
 Manager-Environment