

Vimta Labs Limited

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ISSUED TO:

M/s.RE SUSTAINABILITY IWM SOLUTIONS LIMITED,
 TAMILNADU WASTE MANAGEMENT LTD.,
 PLOT NO.5-51, 28-33,SIPCOT INDUSTRIALCOMPLEX,
 GUMMIDIPOONDI – THIRUVALLUR DISTRICT.
 PINCODE -601 201.
 TAMILNADU, INDIA.

Report Number : VLL/VLS/22/08644/001
 Issued Date : 2022-09-19
 Your Ref : 0400090163
 And Date : 25/08/2022

Page 1 of 3

SAMPLE PARTICULARS : SOURCE EMISSION MONITORING FOR HAZARDOUS WASTE INCINERATOR STACK

Sample Registration Date	: 2022-09-07	Sample Collection Date	: 2022-09-06
Analysis Starting Date	: 2022-09-07	Analysis Completion Date	: 2022-09-19
Test Required	: PM, SO ₂ , NO _x , HCl, HF, CO, CO ₂ , O ₂ and TOC.		
Fuel	: Solid Waste		

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	-	0.6	--
2	Flue gas temperature	°C	-	57	--
3	Velocity	m/sec	-	7.3	--
4	Volumetric flow rate	Nm ³ /Sec	-	5.07	--
5	Oxygen	%	Flue Gas Analyser	10.2	--
6	PM	mg/Nm ³	USEPA method -05	23.6	50.0
7	HF	mg/Nm ³	USEPA method -13	3.0	4.0
8	HCl	mg/Nm ³	USEPA method -26	7.3	50.0
9	Oxides of Nitrogen	mg/Nm ³	Flue Gas Analyser	51.2	400.0
10	Sulphur Dioxide	mg/Nm ³	Flue Gas Analyser	16.6	200.0
11	Carbon Monoxide	ppm	Flue Gas Analyser	31.2	100.0
12	Carbon Dioxide	%	Flue Gas Analyser	10.1	--
13	Hydrocarbons	ppm	Flue Gas Analyser	1.4	--

Method of Testing: As per USEPA Methods

Instruments used: For HF and HCl – Ion selective Electrode analyzer;

All the Values are represented at 11% O₂



Dr. Subba Reddy Mallampati
 Dy. Manager-Environment

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Driven by Quality. Inspired by Science.

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Sample Registration Date	: 2022-09-07	Sample Collection Date	: 2022-09-06
Analysis Starting Date	: 2022-09-07	Analysis Completion Date	: 2022-09-19
Test Required	: Total Organic Carbon, VOC, PAH and Metals;		
SAMPLE COLLECTED BY VIMTA LABS LTD.			

TEST REPORT

Sr. No	PARAMETERS	UOM	METHOD OF TESTING	RESULTS	Limits as per GSR 481(E)	
1	Total Organic Carbon	mg/Nm ³	USEPA method -40 & MM5(10)	2.4	20.0	
2	Volatile Organic Carbon	mg/Nm ³	USEPA method -30 & 31	<0.01	--	
3	Polly Aromatic Hydro Carbon	mg/Nm ³	CARB method -429	<0.01	--	
4	Chromium as Cr	mg/Nm ³	USEPA method -29	0.020	..	
5	Manganese as Mn	mg/Nm ³	USEPA method -29	0.022		
6	Cadmium as Cd	mg/Nm ³	USEPA method -29	0.018		
7	Thallium as Tl	mg/Nm ³	USEPA method -29	<0.001		
8	Mercury as Hg	mg/Nm ³	USEPA method -29	0.005		
9	Arsenic as As	mg/Nm ³	USEPA method -29	<0.001		
10	Antimony as Sb	mg/Nm ³	USEPA method -29	0.007		
11	Lead as Pb	mg/Nm ³	USEPA method -29	0.020		
12	Cobalt as co	mg/Nm ³	USEPA method -29	0.017		
13	Copper as Cu	mg/Nm ³	USEPA method -29	0.021		
14	Nickel as Ni	mg/Nm ³	USEPA method -29	0.020		
15	Vanadium as V	mg/Nm ³	USEPA method -29	0.016		
16	Thorium as Th	mg/Nm ³	USEPA method -29	0.007		
17	Cd+Th+ Their compounds	mg/Nm ³	USEPA method -29	0.021		<0.05
18	Hg and its compounds	mg/Nm ³	USEPA method -29	0.003		<0.05
19	Sb+As+Pb+Cr+Co+Cu+Mn+Ni +V+ Their Compounds	mg/Nm ³	USEPA method -29	0.143		<0.5

Instruments used: GC-FID, ICP-MS

Minimum Detectable Limit for Metals – 0.1µg/m³

Minimum Detectable Limit for TOC – 0.01µg/m³

All the values are represented at 11% O₂

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Sample Registration Date	: 2022-09-07	Sample Collection Date	: 2022-09-06
Analysis Starting Date	: 2022-09-07	Analysis Completion Date	: 2022-09-19
Test Required	: PCDD& PCDF		
SAMPLE COLLECTED BY VIMTA LABS LTD.			

TEST REPORT

Sr.No.	PARAMETERS	UOM	RESULTS
EMISSION RATES			
1	Diameter of stack	m	0.6
2	Flue gas temperature	°C	57
3	Velocity	m/sec	7.3
4	Volumetric flow rate	Nm ³ /Sec	5.07
DIOXIN AND FURANS			
5	2,3,7,8-TCDF	ng/Nm ³ , TEQ	0.0007
6	1,2,3,7,8-PeCDF	ng/Nm ³ , TEQ	0.0003
7	2,3,4,7,8-PeCDF	ng/Nm ³ , TEQ	0.0004
8	1,2,3,4,7,8-HxCDF	ng/Nm ³ , TEQ	0.0007
9	1,2,3,6,7,8-HxCDF	ng/Nm ³ , TEQ	0.0006
10	2,3,4,6,7,8-HxCDF	ng/Nm ³ , TEQ	0.0005
11	1,2,3,7,8,9-HxCDF	ng/Nm ³ , TEQ	0.0001
12	1,2,3,4,6,7,8-HpCDF	ng/Nm ³ , TEQ	0.0002
13	1,2,3,4,7,8,9-HpCDF	ng/Nm ³ , TEQ	0.0003
14	OCDF	ng/Nm ³ , TEQ	0.0008
15	2,3,7,8-TCDD	ng/Nm ³ , TEQ	0.0008
16	1,2,3,7,8-PeCDD	ng/Nm ³ , TEQ	0.0003
17	1,2,3,4,7,8-HxCDD	ng/Nm ³ , TEQ	0.0004
18	1,2,3,6,7,8-HxCDD	ng/Nm ³ , TEQ	0.0007
19	1,2,3,7,8,9-HxCDD	ng/Nm ³ , TEQ	0.0005
20	1,2,3,4,6,7,8-HpCDD	ng/Nm ³ , TEQ	0.0003
21	OCDD	ng/Nm ³ , TEQ	0.0008
	Total Furans & Dioxins	ng/Nm³, TEQ Corrected to 11% O₂ Concentration	0.0084
Emission Limits as per GSR 481(E)			< 0.1

Method of Testing: As per USEPA 23 A & 8290

Instruments used: Auto spec (HRGC/HRMS). Detection Limit: 0.01 pg/ Nm³ TEQ

Remarks: All the values are corrected to 11% O₂ as per CPCB Guidelines HAZWAMS/30/2005-06.

Dr. Subba Reddy Mallampati
Dy. Manager-Environment