

**ISSUED TO:**

**M/s. ADITYAPUR WASTE MANAGEMENT  
PRIVATE LIMITED  
(A Division Of Re sustainability Limited)  
Plot No.43, Khata No.529, Sini More,  
Ukri Road, Dist.: -Saraikeella - Kharswan,  
Jharkhand-833220.**

Report Number : **VLL/VLS/23/06190/014**  
Issued Date : **2023.07.25**  
P.O. Number : **0400100694**  
P.O. Date : **27.06.2023**

**SAMPLE PARTICULARS : Stack Connected to Incinerator Stack**

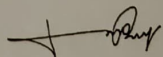
Sample Registration Date : 2023-07-06 Sample Collection Date : 2023-07-03  
Analysis Starting Date : 2023-07-06 Analysis Completion Date : 2023-07-14  
Test Required : PM, SO<sub>2</sub>, NO<sub>x</sub>, HCl, HF, CO, TOC  
Fuel Used : H.S.D  
Process Description : Incineration Process Of Hazardous & Bio-medical Waste  
Control Device : Multi cyclone, Recirculation Tank, Ventur yScubber, Packed Bed Scrubber, Carbon Bed

Sample Collected by Vimta Labs Ltd.

**TEST REPORT**

Sr. No.	Parameters	UoM	Method of Testing	Results	Limits as per CPCB emission standards for common hazardous waste incinerators
1	Diameter of stack	m	-	0.6	--
2	Flue gas temperature	°C	-	52	--
3	Oxygen as O <sub>2</sub>	%	USEPA method -3A	14.4	--
4	Velocity	m/sec	USEPA method-2	10.26	--
5	Volumetric flow rate	Nm <sup>3</sup> /Hr	USEPA method-2	8031	--
6	Particulate Matter	mg/Nm <sup>3</sup>	USEPA method-5	37.6	<50
7	Sulphur Dioxide as SO <sub>2</sub>	mg/Nm <sup>3</sup>	USEPA method-6	160	<200
8	Oxides of Nitrogen as NO <sub>2</sub>	mg/Nm <sup>3</sup>	CTM 030	253.6	<400
9	Hydrogen Chloride as HCl	mg/Nm <sup>3</sup>	USEPA method -26	6.9	<50
10	Hydrogen Fluoride as HF	mg/Nm <sup>3</sup>	USEPA method -13	2.1	<4
11	Carbon Monoxide as CO	mg/Nm <sup>3</sup>	USEPA method -10B	93.9	100
12	Total Organic Compounds as TOC	mg/Nm <sup>3</sup>	USEPA method -40 & MM5(10)	8.1	<20
13	Mercury as Hg + their Compound	mg/Nm <sup>3</sup>	USEPA method -29	0.005	<0.05
14	Cadmium + Thallium (Cd + Tl) + their Compound	mg/Nm <sup>3</sup>		0.039	<0.05
15	Total Metals: Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds	mg/Nm <sup>3</sup>		0.129	<0.5
16.	Combustion Efficiency	%	By Calculation	99.9	--

All Values are corrected to 11% O<sub>2</sub> on a dry basis.

  
**Dr. Subba Reddy Mallampati**  
Manager-Environment

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(A Division of Resustainability Limited)  
Plot No.43, Khata No.529, Sini More,  
Ukri Road, Dist.:- Saraikella-Kharswan,  
Jharkhand-833220.

Report Number : **VLL/VLS/23/06190/015**  
Issued Date : **2023.08.07**  
P.O. Number : **0400100694**  
P.O. Date : **27.06.2023**

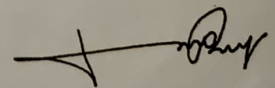
**SAMPLE PARTICULARS : Stack Connected to Incinerator Stack**

Sample Registration Date	: 2023-07-10	Sample Collection Date	: 2023-07-03
Analysis Starting Date	: 2023-07-10	Analysis Completion Date	: 2023-08-04
Test Required	: PCDD & PCDF		
Fuel Used	: H.S.D		
Process Description	: Incineration Process of Hazardous & Bio-medical Waste		
Control Device	: Multicyclone, Recirculation Tank, Venturi Scrubber, Packed Bed Scrubber, Carbon Bed		
Sample Collected by	Vimta Labs Ltd.		

**TEST REPORT**

Sr. No.	Parameters	Method of Testing	UoM	Results
1	Diameter of stack	-	m	0.6
2	Flue gas temperature	-	°C	52
3	Oxygen as O <sub>2</sub>	USEPA method -3A	%	14.4
4	Velocity	USEPA Method-2	m/sec	10.26
5	Volumetric flow rate		Nm <sup>3</sup> /Hr	8031
Sr. No.	Congeners of PCDD & PCDF	UoM	Results	Limits as per GSR 481(E).
1	1234678-HpCDD	ng TEQ/Nm <sup>3</sup>	0.0022	--
2	1234678-HpCDF		0.0001	
3	1234789-HpCDF		0.0001	
4	123478-HxCDD		0.0048	
5	123478-HxCDF		0.0006	
6	123678-HxCDD		0.0013	
7	123678-HxCDF		0.0057	
8	123789-HxCDD		0.0032	
9	123789-HxCDF		0.0014	
10	12378-PeCDD		0.0034	
11	12378-PeCDF		0.0002	
12	234678-HxCDF		0.0011	
13	23478-PeCDF		0.0045	
14	2378-TCDD		0.0059	
15	23478-TCDF		0.0005	
16	OCDD		0.0000	
17	OCDF		0.0000	
<b>Total Furans &amp; Dioxins</b>		ng TEQ /Nm <sup>3</sup> ,	0.0348	
<b>Total Furans &amp; Dioxins</b>		ngTEQ/Nm <sup>3</sup> , Corrected to 11% O <sub>2</sub>	<b>0.0531</b>	< 0.1

Method of Testing: As per USEPA 23 A & 8290



**Dr. SubbaReddy Mallampati**  
Manager-Environment