

TEST REPORT

ISSUED TO

Medicare Environmental Management Pvt.Ltd
41,F-Road,Belgachia,Near HMC Dumping Site
Howrah - 711105

KIND ATTENTION : Mr. Gouranga Bera

REPORT NO

: EFRAC/2023/ENV/00938

ISSUE DATE

: 25/03/2023

CUSTOMER REF

: TRF

REF. DATE

: 09/03/2023

PAGE NO

: 01 of 09

SAMPLE DETAILS

SAMPLE REGISTRATION DETAILS

Sample Receipt Date : 09/03/2023

Sample Registration Date : 14/03/2023

Sample Registration No : EFRAC/2023/ENV/00938/03/WC/ 03739

Sample Type : Stack Monitoring

Batch No : Incinerator Stack

Sample Quantity Received : 1 no.

Sample Quantity Used : 1 no.

Sample Submitted/Drawn by : EFRAC

Sampling Date : 03/03/2023

Sampling Method : IS /EPA / CPCB

Sampler Name : Satyajit Mondal

Sample Condition : Fit For Analysis

SAMPLE ANALYSIS DETAILS

Analysis Starting Date : 14/03/2023

Analysis Completion Date : 15/03/2023

GENERAL INFORMATION ABOUT STACK

Stack identification no : Incinerator Stack
Shape of Stack : Circular
Stack Connected to : Incinerator
Emission due to : Burning of HSD & Biomedical Waste
Stack height from ground level(m) : 30.0m
Height of Sampling point from ground level(m) : 16.0m
Stack diameter at Sampling point(m) : 0.5m
Material of construction of stack : MS
Installed capacity : 250 kg/hr
Running capacity : 250 kg/hr
Fuel used : HSD
Fuel consumption : 90 ltr/hr
Platform & ladder type & condition : Permanent & Well
Pollution control device : Wet scrubber & wet ventury
Remarks : NA

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Howrah - 711105	REF. DATE	: 09/03/2023
KIND ATTENTION : Mr. Gouranga Bera	PAGE NO	: 02 of 09

SAMPLE DETAILS

SAMPLE REGISTRATION DETAILS			
Sample Receipt Date	: 09/03/2023	Sample Quantity Received	: 1 no.
Sample Registration Date	: 14/03/2023	Sample Quantity Used	: 1 no.
Sample Registration No	: EFRAC/2023/ENV/00938/03/RA/ 03130	Sample Submitted/Drawn by	: EFRAC
Sample Type	: Stack Monitoring	Sampling Date	: 03/03/2023
Batch No	: Incinerator Stack	Sampling Method	: IS /EPA / CPCB
		Sampler Name	: Satyajit Mondal
		Sample Condition	: Fit For Analysis
SAMPLE ANALYSIS DETAILS			
Analysis Starting Date	: 15/03/2023	Analysis Completion Date	: 25/03/2023

TEST RESULTS

SL.NO.	PARAMETER	UOM	METHOD	LOQ	REQUIREMENTS	RESULTS
Dioxin						
1	1 2 3 4 6 7 8-Heptachlorodibenzo-p-dioxin	ng.TEQ/N m3	USEPA 23A/QA.16.4.73	N/A	--	< 0.00024
2	1 2 3 4 7 8-Hexachlorodibenzo-p-dioxin	ng.TEQ/N m3	USEPA 23A/QA.16.4.73	N/A	--	< 0.0024
3	1 2 3 7 8 9-Hexachlorodibenzo-p-dioxin	ng.TEQ/N m3	USEPA 23A/QA.16.4.73	N/A	--	< 0.0024
4	1 2 3 7 8-Pentachlorodibenzo-p-dioxin	ng.TEQ/N m3	USEPA 23A/QA.16.4.73	N/A	--	< 0.024
5	2 3 7 8-Tetrachlorodibenzo-p-dioxin	ng.TEQ/N m3	USEPA 23A/QA.16.4.73	N/A	--	< 0.005

Remarks : TEQ:Toxicity Equivalent



Tarun Pravendra Tiwari
Dy. Group Leader
Authorized Signatory

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CUSTOMER REF

: TRF

REF. DATE

: 09/03/2023

PAGE NO

: 03 of 09

TEST RESULTS

SL.NO.	PARAMETER	UOM	METHOD	LOQ	REQUIREMENTS	RESULTS
Dioxin (Contd.)						
6	1 2 3 6 7 8-Hexachlorodibenzo-p-dioxin	ng.TEQ/N m3	USEPA 23A/QA.16.4.73	N/A	--	< 0.0024
7	Octachlorodibenzo-p-dioxin	ng.TEQ/N m3	USEPA 23A/QA.16.4.73	N/A	--	< 0.000015

Remarks : TEQ:Toxicity Equivalent



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: TRF

REF. DATE

: 09/03/2023

PAGE NO

: 04 of 09

SAMPLE DETAILS

SAMPLE REGISTRATION DETAILS

Sample Receipt Date : 09/03/2023
Sample Registration Date : 14/03/2023
Sample Registration No : EFRAC/2023/ENV/00938/03/RA/ 03130
Sample Type : Stack Monitoring
Batch No : Incinerator Stack

Sample Quantity Received : 1 no.
Sample Quantity Used : 1 no.
Sample Submitted/Drawn by : EFRAC
Sampling Date : 03/03/2023
Sampling Method : IS /EPA / CPCB
Sampler Name : Satyajit Mondal
Sample Condition : Fit For Analysis

SAMPLE ANALYSIS DETAILS

Analysis Starting Date : 15/03/2023
Analysis Completion Date : 25/03/2023

TEST RESULTS

SL.NO.	PARAMETER	UOM	METHOD	LOQ	REQUIREMENTS	RESULTS
Furans						
1	2 3 4 7 8-Pentachlorodibenzofuran	ng.TEQ/N m3	USEPA 23A/QA.16.4.73	N/A	--	< 0.0072
2	1 2 3 4 6 7 8-Heptachlorodibenzofuran	ng.TEQ/N m3	USEPA 23A/QA.16.4.73	N/A	--	< 0.00024
3	1 2 3 4 7 8 9-Heptachlorodibenzofuran	ng.TEQ/N m3	USEPA 23A/QA.16.4.73	N/A	--	< 0.00024
4	1 2 3 4 7 8-Hexachlorodibenzofuran	ng.TEQ/N m3	USEPA 23A/QA.16.4.73	N/A	--	< 0.0024
5	1 2 3 6 7 8-Hexachlorodibenzofuran	ng.TEQ/N m3	USEPA 23A/QA.16.4.73	N/A	--	< 0.0024

Remarks : TEQ:Toxicity Equivalent



Tarun Pravendra Tiwari
Dy. Group Leader
Authorized Signatory

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CUSTOMER REF

: TRF

REF. DATE

: 09/03/2023

PAGE NO

: 05 of 09

TEST RESULTS

SL.NO.	PARAMETER	UOM	METHOD	LOQ	REQUIREMENTS	RESULTS
Furans (Contd.)						
6	1 2 3 7 8 9-Hexachlorodibenzofuran	ng.TEQ/N m3	USEPA 23A/QA.16.4.73	N/A	--	< 0.0024
7	1 2 3 7 8-Pentachlorodibenzofuran	ng.TEQ/N m3	USEPA 23A/QA.16.4.73	N/A	--	< 0.00072
8	2 3 4 6 7 8-Hexachlorodibenzofuran	ng.TEQ/N m3	USEPA 23A/QA.16.4.73	N/A	--	< 0.0024
9	2 3 7 8-Tetrachlorodibenzofuran	ng.TEQ/N m3	USEPA 23A/QA.16.4.73	N/A	--	< 0.0005
10	Octachlorodibenzofuran	ng.TEQ/N m3	USEPA 23A/QA.16.4.73	N/A	--	< 0.000015
11	Total Dioxins & Furans	ng.TEQ/N m3	USEPA 23A/QA.16.4.73	0.01	Max:0.1	< 0.01

Remarks

: TEQ:Toxicity Equivalent



Tarun Pravendra Tiwari
Dy. Group Leader
Authorized Signatory

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: TRF

REF. DATE

: 09/03/2023

PAGE NO

: 06 of 09

SAMPLE DETAILS

SAMPLE REGISTRATION DETAILS

Sample Receipt Date : 09/03/2023

Sample Registration Date : 14/03/2023

Sample Registration No : EFRAC/2023/ENV/00938/03/MT/ 03566

Sample Type : Stack Monitoring

Batch No : Incinerator Stack

Sample Quantity Received : 1 no.

Sample Quantity Used : 1 no.

Sample Submitted/Drawn by : EFRAC

Sampling Date : 03/03/2023

Sampling Method : IS /EPA / CPCB

Sampler Name : Satyajit Mondal

Sample Condition : Fit For Analysis

SAMPLE ANALYSIS DETAILS

Analysis Starting Date : 14/03/2023

Analysis Completion Date : 24/03/2023

TEST RESULTS

SL.NO.	PARAMETER	UOM	METHOD	LOQ	REQUIREMENTS	RESULTS
Heavy Metals						
1	Mercury (Hg) and its compounds	mg/Nm ³	USEPA Method 29	0.0003	0.05	<0.0003

Remarks : Requirement given as CPCB guideline for incinerator stack emission monitoring.



Arun Kumar
(E. CODE: EC56744)
Authorized Signatory

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CUSTOMER REF

: TRF

REF. DATE

: 09/03/2023

PAGE NO

: 07 of 09

SAMPLE DETAILS

SAMPLE REGISTRATION DETAILS

Sample Receipt Date : 09/03/2023
Sample Registration Date : 14/03/2023
Sample Registration No : EFRAC/2023/ENV/00938/03/WC/ 03739
Sample Type : Stack Monitoring
Batch No : Incinerator Stack

Sample Quantity Received : 1 no.
Sample Quantity Used : 1 no.
Sample Submitted/Drawn by : EFRAC
Sampling Date : 03/03/2023
Sampling Method : IS /EPA / CPCB
Sampler Name : Satyajit Mondal
Sample Condition : Fit For Analysis

SAMPLE ANALYSIS DETAILS

Analysis Starting Date : 14/03/2023
Analysis Completion Date : 15/03/2023

TEST RESULTS

SL.NO.	PARAMETER	UOM	METHOD	LOQ	REQUIREMENTS	RESULTS
Physical and Chemical Parameters						
1	Particulate Matter	mg/Nm ³	IS 11255 (Part 1) - 1985, RA:2003	N/A	Max. 50.0	41.10 54.08 (11% O ₂ correction)
2	Temperature	°C	IS: 11255 (Part-3): 1985	N/A	--	112
3	Velocity	m/s	IS 11255 : Part 3	N/A	--	12.64
4	Oxygen (O ₂)	%	USEPA 3A	N/A	--	13.4
5	Carbon Dioxide (CO ₂)	%	USEPA 3A	N/A	--	6.2

Remarks : Requirement given as CPCB guideline for incinerator stack emission monitoring.



Souvik Karmakar
(E. CODE: EC56717)
Authorized Signatory

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REF. DATE

: 09/03/2023

PAGE NO

: 08 of 09

TEST RESULTS

SL.NO.	PARAMETER	UOM	METHOD	LOQ	REQUIREMENTS	RESULTS
Physical and Chemical Parameters (Contd.)						
6	Oxides Of Nitrogen(NOx)	mg/Nm ³	EPA Method 7E	N/A	Max. 400.0	34.73 45.69 (11% O2 correction)

Remarks : Requirement given as CPCB guideline for incinerator stack emission monitoring.



Souvik Karmakar
(E. CODE: EC56717)
Authorized Signatory

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PAGE NO

: 09 of 09

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SAMPLE REGISTRATION DETAILS

Sample Receipt Date : 09/03/2023

Sample Registration Date : 14/03/2023

Sample Registration No : EFRAC/2023/ENV/00938/03/WC/ 03739

Sample Type : Stack Monitoring

Batch No : Incinerator Stack

Sample Quantity Received : 1 no.

Sample Quantity Used : 1 no.

Sample Submitted/Drawn by : EFRAC

Sampling Date : 03/03/2023

Sampling Method : IS /EPA / CPCB

Sampler Name : Satyajit Mondal

Sample Condition : Fit For Analysis

SAMPLE ANALYSIS DETAILS

Analysis Starting Date : 14/03/2023

Analysis Completion Date : 15/03/2023

TEST RESULTS

SL.NO.	PARAMETER	UOM	METHOD	LOQ	REQUIREMENTS	RESULTS
Physical and Chemical Parameters						
7	Hydrochloric Acid(HCL)	mg/Nm ³	USEPA 26	N/A	Max. 50.0	2.58 3.39 (11% O2 correction)
8	Flow Rate	Nm ³ /hr	USEPA Method 2	N/A	--	6707
9	Combustion efficiency	%	CPCB Emission Regulation (Part-3): 1985	N/A	--	99.78
10	?P (Delta P)	mmH2O	CPCB Emission Regulation (Part-3): 1985	N/A	--	9.77

Remarks : Requirement given as CPCB guideline for incinerator stack emission monitoring.



Souvik Karmakar
(E. CODE: EC56717)
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