

Report No: HWMP/ COM / ENV/24-0213

Page No's. 1of 2

Name and address of the client:

**M/s.Maridi Bio Industries Pvt Ltd,
Sy.No:63/1, madduru (V)
Narsapur (M).Medak (Dist.)**

Date of Report : 25.02.2024
Analysis Starting Date : 21.02.2024
Analysis Completion Date : 21.02.2024
Sample Collected by : HWMP-Laboratory
Date of Sampling on : 20.02.2024
Sample Description : Ambient Air Quality Samples
Subcontract Tests : Nil
Sample Registration no / Locations :

Sl. No's.	Reg. No's.	Locations	Parameters
1.	AAQ-240456	Near Main Gate	SO ₂ , NO ₂ , PM ₁₀ , PM _{2.5} , O ₃ , NH ₃ ,
2.	AAQ-240457	Near Discarded Shed	SO ₂ , NO ₂ , PM ₁₀ , PM _{2.5} , O ₃ , NH ₃ ,
3.	AAQ-240458	Near Incineration Plant	SO ₂ , NO ₂ , PM ₁₀ , PM _{2.5} , O ₃ , NH ₃ ,


Verified by
D.Sanjeeva Reddy
Asst.Manager


Authorized Signatory
K. Ravi Kumar
Technical Manager

Hyderabad Waste Management Project
(A Division of Re Sustainability Limited)

Site Address:

TSDF at: Survey No. 684/1,
Dundigal - Gandimaisamma Municipality,
Medchal - Malkajgiri Dist. - 500 043,
Telangana. India.

Re Sustainability Limited
(formerly known as Ramky Enviro Engineers Limited)
Registered Office:

Level 11B, Aurobindo Galaxy,
Hyderabad Knowledge City,
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TEST RESULTS FOR AMBIENT AIR QUALITY MONITORING

Samples are analyzed "as is where basis is"

Sl. No's	Parameters	Metrics	Methods	Results			CPCB NAAQM Standards
				AAQ-240456	AAQ-240457	AAQ-240458	
				Near Main Gate	Near Discarded Shed	Near Incineration	
1.	Sulfur Dioxide (SO ₂)	µg/ m ³	IS 5182 (Part 2) :2012	18.2	23.6	28.7	80
2.	Oxides of Nitrogen (NO ₂)	µg/ m ³	IS 5182 (Part 6) :2012	21.7	31.5	42.5	80
3.	Particulate matter (PM ₁₀)	µg/ m ³	IS 5182 (Part 23): 2012	48	51	59	100
4.	Particulate matter (PM _{2.5})	µg/ m ³	SOP Based on CPCB Guidelines (2012-13)	19	23	28	60
5.	Ozone (O ₃)	µg/ m ³	IS 5182 (Part IX) :1974	1.8	2.9	3.2	180
6.	Aminonia (NH ₃)	µg/ m ³	SOP Based on CPCB Guidelines (2012-13)	2.6	4.8	5.1	400

- Opinion and interpretation : Nil
- SO₂, NO₂, PM₁₀, PM_{2.5}, and NH₃ are 24 hourly and CO is 8 hourly monitored value
- Reports pertained only to the collected samples while monitoring.
- Test reports shall not be reproduced except in full, without written approval of the Laboratory.

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1. Respirable Dust Sampler Model: APM 860, Sl. No.262-DTD-2017, PM10/2.5 Sampler, Model APM154 - S. No 246-DTD-2017
 2. Respirable Dust Sampler Model: APM 860, Sl. No.263-DTD-2017, PM10/2.5 Sampler, Model APM154 - S. No 247-DTD-2017
 3. Respirable Dust Sampler Model: APM 860, Sl. No.264-DTD-2017, PM10/2.5 Sampler, Model APM154 - S. No 248-DTD-2017
- Note: Calibrated On: 01.02.2024 &: Due Date: 31.01.2025 For RDS: Calibrated On: 02.02.2024 &: Due Date: 01.02.2025 For FPS
 Calibrated by -LATA ENVIROTECH SERVICES

Report No: HWMP/ COM/ ENV /24-0214

Page No's. 1 of 2

Name and address of the client:

M/s.Maridi Bio Industries Pvt Ltd,
Sy.No: 63/1, madduru (V)
Narsapur (M), Medak (Dist.)

Date of Report : 22.02.2024
Analysis Starting Date : 20.02.2024
Analysis Completion Date : 20.02.2024
Sample Collected by : HWMP-Laboratory
Date of Sampling on : 20.02.2024
Sample Registration no : Spore-240459/1 to 240459/2
Sampling Location : Autoclave Room
Sample Description : Autoclave Sterilization Efficiency Test
Subcontract Tests : Nil
Sample Registration no/ Details : 1.Spore-240459/1 : Strip without Sterilization
2.Spore-240459/2: Strip after Sterilization


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Page No. 2 of 2

Samples are analyzed "as is where basis is"

Sl. No's.	Particulars	Descriptions
1.	Autoclave Pressure Sterilizer	24SR/E/HP/HV/928
2.	Name of the Indicator	Geobacillus Stearothermophilus
3.	Temperature	121°C
4.	Pressure	15 Psi
5.	Sterilization Starting Time	11 :45
6.	Sterilization Ending Time	12 :55

TEST RESULTS FOR AUTOCLAVE STERILIZATION EFFICIENCY TEST

Sl. No's.	Particular	Method	Result (Before) Strip without Sterilization (Spore-240459/1)	Result (After) Strip After Sterilization (Spore-240459/2)
1.	Presence of SPORE	ATCC 7953	Present (Growth Observed)	Absent (No Growth Observed)

Note: Psi- Pounds per square inch.

INFERENCE: Sterilization is efficient and meets the requirement.


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Narsapur (M), Medak (Dist.)

Date of Report : 22.02.2024
Analysis Starting Date : 20.02.2024
Analysis Completion Date : 20.02.2024
Sample Collected by : HWMP-Laboratory
Date of Sampling on : 20.02.2024
Sample Description : Noise Level Measurement
Subcontract Tests : Nil

Sample Registration no / Locations: 1).NM-240460/1: Near Incinerator

2).NM-240460/2: Near Main Gate (Outside)

TEST RESULTS FOR NOISE LEVELS MEASUREMENT

Sl. No's.	Reg. No's.	Locations	Units	Noise Level in dB(A)	
				Day Time	Night Time
1.	NM-240460/1	Near Incinerator	dB(A) -Leq	69.6	64.3
2.	NM-240460/2	Near Main Gate (outside)	dB(A) -Leq	51.5	42.1

STANDARDS

Zone	Day Time 6.00 am to 10.00pm	Night Time 10.00pm to 6.00 am
Industrial and mixed use	75 dB(A)	70 dB(A)

- Opinion and interpretation: Nil
- Reports pertained only to the collected samples when monitoring
- Test reports shall not be reproduced except in full, without written approval of the Laboratory.
- Noise Meter: Sl. No:1012918, HTC, Model No: 1350.Calibration Date: 09.01.2024; Due Date: 08.01.2025.


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Asst.Manager


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K. Ravi Kumar
Technical Manager

Report No: HWMP/ COM / ENV/24-0217

Page No's. 1 of 2

Name and address of the client:

**M/s.Maridi Bio Industries Pvt Ltd,
Sy.No: 63/1, madduru (V)
Narsapur (M), Medak (Dist.)**

Date of Report : 24.02.2024
Analysis Starting Date : 21.02.2024
Analysis Completion Date : 22.02.2024
Sample Collected by : HWMP-Laboratory
Date of Sampling on : 20.02.2024
Sample Description : Stack Emission Monitoring
Subcontract Tests : Nil
Sample Registration no/ Locations : SM-240462-DG Set 62.5 Kva


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Technical Manager

TEST RESULTS FOR STACK EMISSION MONITORING

Samples are analyzed "as is where basis is"

Sl. No's.	Parameters	Units	Methods	Results	CPCB Standards as per GSR 520 (E)
				SM-240462	
	Stack Connected to	--	--	D.G. Set (62.5 kVA)	--
	Fuel	--	--	Diesel	--
	Stack Height from Ground	Mtrs.	--	5.0	--
	Stack Diameter	m	--	0.075	--
	Cross Sectional Area	m ²	--	0.0045	--

TEST RESULTS FOR FLUE GAS EMISSION CHARACTERISTICS

1.	Temperature (Ts)	K	IS-11255 (Part-1) :1985	339	--
2.	Velocity	m/sec	IS-11255 (Part-1) :1985	4.06	--
3.	Flow Rate	m ³ /hr	IS-11255 (Part-3) :1985	66	--
4.	Sulfur Dioxide	mg/Nm ³	IS-11255 (Part-3) :1985	21	<800
5.	Oxides of Nitrogen	g/kw-hr	IS-8178 (Part-4)	2.4	9.2
6.	Particulate Matter	g/kw-hr	IS-8178 (Part-4)	0.12	0.3

- Opinion and interpretation: Nil
- Reports pertained only to the collected samples while monitoring
- Test reports shall not be reproduced except in full, without written approval of the laboratory.
- Note: Stack Monitoring Kit- VSS-1/ 67-DTE-12, Vayubodhan.
Calibrated On: 05.02.2024& Due Date: 04.02.2025.


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D. Sanjeeva Reddy
 Asst. Manager


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K. Ravi Kumar
 Technical Manager

Report No: HWMP/COM/ENV/24-0218

Page No's. 1 of 1

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Narsapur (M), Medak (Dist.)**

Date of Report : 24.02.2024
Analysis Starting Date : 21.02.2024
Analysis Completion Date : 22.02.2024
Sample Collected by : HWMP-Laboratory
Date of Sampling on : 20.02.2024
Sample Description : Waste Water Samples (ETP-In & Out)
Subcontract Tests : Nil

TEST RESULTS FOR WASTE WATER SAMPLES

Samples are analyzed "as is where basis is"

Sl. No's.	Parameters	Units	Methods	Results		Standards As Per CFO
				WW-240463/1 (Before)	WW-240463/2 (After)	
1.	pH	---	APHA 4500 H ⁺ B	8.19	7.56	6.50 to 9.00
2.	Total Suspended Solids at 105°C	mg/L	APHA 2540 D	154	42	200
3.	Total Dissolved Solids at 180°	mg/L	APHA 2540 C	1732	56	2100
4.	Chemical Oxygen Demand	mg/L	APHA 5220 B	59	18	250
5.	Biological Oxygen Demand (3 Day at 27°C)	mg/L	IS 3025 (P-44)	26	12	30
6.	Oil & Grease	mg/L	APHA 5520 B	2.0	<1.0	10

- Opinion and interpretation: Nil
- Reports pertained only to the submitted sample
- Test reports shall not be reproduced except in full, without written approval of the Laboratory.


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Report No: HWMP/ COM / ENV/ 24-0334

Page No's. 1 of 2

Name and address of the Client:

**M/s.Maridi Bio Industries Pvt Ltd,
Sy. No: 63/1, madduru (V)
Nishapur (M). Medak (Dist.)**

Date of Report : 13.03.2024
Analysis Starting Date : 09.03.2024
Analysis Completion Date : 12.03.2024
Sample Collected by : HWMP-Laboratory
Date of Sampling on : 08.03.2024
Sample Description : Stack Emission Monitoring
Subcontract Tests : Nil
Sample Registration no/ Locations : 1.SM-240703: Stack Attached to Incineration


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Technical Manager

TEST RESULTS FOR STACK EMISSION MONITORING

Samples are analyzed "as is where basis is"

Parameters	Units	Methods	Results	Standards As Per CFO
			SM-240703 Incinerator	
Stack Connected to	--	--		--
Stack Height from Ground	Mtrs.	--	30	--
Stack Diameter	m	--	1.0	--
Cross Sectional Area	m ²	--	0.785	--
Temperature	K	IS-11255 (Part-1):1985	371	--
Velocity	m/s	IS-11255 (Part-1):1985	4.86	--
Flow Rate	m ³ /hr	IS-11255 (Part-3):1985	13734	--

TEST RESULTS FOR FLUE GAS EMISSION CHARACTERISTICS

Sulfur Dioxide	mg/Nm ³	IS-11255 (Part-2):1985	48	200
Oxides of Nitrogen	mg/Nm ³	IS- 5182 (Part-6):1975	81	400
Particulate Matter	mg/Nm ³	IS-11255 (Part-1):1985	32	50
Carbon Monoxide (CO)	ppm	Multi Gas Analyzer	0.9	100
Carbon Dioxide (CO ₂)	mg/Nm ³	Multi Gas Analyzer	14	100
HCL	mg/Nm ³	US EPA Method 26	9.2	50
Mercury as Hg	mg/Nm ³	APHA 24 th Edition 2023: 3120 B,	<0.05	0.05

- Opinion and interpretation: Nil
- Reports pertained only to the collected samples while monitoring
- Test reports shall not be reproduced except in full, without written approval of the laboratory
- Note: Stack Monitoring Kit- VSS-1/ 67-DTE-12, Vayubodhan.
Calibrated On: 05.02.2024 & Due Date: 04.02.2025.


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D. Sanjeeva Reddy
 Asst. Manager


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 Technical Manager