

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlapally
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**ISSUED TO:**

M/S. Maridi Bio Industries Private Limited.,
Maridi Bio-Kagaz Maddur,
Sy.No: 63/1, Kagaz Maddur Village, Narsapur
Mandal, Medak District, Telangana.

Report Number : VLL/VLS/24/23471/AAQ/1
Issued Date : 2025.03.19
P.O. Number : 0400121996
P.O. Date : 24.02.2025

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Sample Particulars : Ambient Air Quality Monitoring Near Main Gate

Sampling Date	: 2025.02.28	Sample Registration Date	: 2025.03.04
Analysis Starting Date	: 2025.03.05	Analysis Completion Date	: 2025.03.08
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ and NO _x		
Sample Collected by Vimta Labs Ltd			

TEST REPORT

Parameters	UoM	Method	NAAQ Standards	Results
Particulate Matter (PM ₁₀)	µg/m ³	IS:5182 (P:23) 1999	100	78.5
Particulate Matter (PM _{2.5})	µg/m ³	IS:5182 (P:24) 2019	60	43.2
Sulphur dioxide as SO ₂	µg/m ³	IS:5182(P:2) 2001	80	21.8
Nitrogen dioxide as NO ₂	µg/m ³	IS:5182(P:6) 1975	80	22.6

➤ PM₁₀, PM_{2.5}, SO₂ and NO₂ is monitored on 24 hrs. Basis.

Name and Designation of Authorized Signatory


Dr. Subba Reddy Mallampati
Manager-Environment

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Sample Particulars : AMBIENT NOISE MONITORING

Sampling Date : 2025.02.28 Sample Registration Date : 2025.03.04
Test Required : Day, Night, & Average
Sample Collected by Vimta Labs Ltd

TEST REPORT

Parameters	UoM	Day	Night	Average
Near Main Gate	db(A)	69.2	60.4	64.8

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Issued Date : 2025.03.19
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Sample Particulars : Diesel Generator Emission Monitoring
DG Set ID : DG Set-1

Sampling Date	:	2025.02.28	Sample Registration Date	:	2025.03.04
Sample Starting Date	:	2025.03.05	Analysis Completion date	:	2025.03.08
Sample Collected by Vimta Labs Ltd.					

TEST REPORT

Sr. No.	Parameters	UoM	Method of Testing	Results	* Limits
Physical Parameters					
1	DG Set Capacity	KVA	-	62.5	--
2	Stack diameter	m	-	0.235	--
3	Area of the Stack	m ²	-	0.126	--
4	Flue gas Temperature	°C	USEPA M-2	67	--
5	Velocity of the Flue gas	m/Sec		6.34	--
6	Volumetric Flow rate	Nm ³ /hr		836	--
Chemical Parameters					
7	Sulphur Dioxide as SO ₂	mg/Nm ³	By Combustion Analyzer	53.8	--
8	Carbon Monoxide as CO@ 15% O ₂	mg/Nm ³		48.7	≤ 150
9	Oxides of Nitrogen NO _x as NO ₂ @ 15% O ₂	ppmv		79.9	≤ 710
10	Hydro Carbons as NMHC @ 15% O ₂	mg/ Nm ³		24.6	≤ 100
11	Particulate Matter as PM @15% O ₂	mg/ Nm ³	USEPA M-5	25.9	≤ 115

*Limits as per MOEF Notification GSR 489(E) for DG-Sets of a Capacity ≥ 800 KW

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Sample Particulars : Stack Connected to Incinerator.

Sample Parameters		Stack Connected to Incinerator			
Sampling Date	:	2025.02.28	Sample Registration Date	:	2025.03.04
Analysis Starting Date	:	2025.03.05	Analysis Completion Date	:	2025.03.18
Test Required	:	Velocity, Flow rate, O ₂ , CO ₂ , CO, NOX, SO ₂ and PM.			
Incinerator Capacity	:	250 Kg/Hr			
Sample collected by Vimta Labs Ltd.					

TEST REPORT

Sr. No.	Parameters	UoM	Method of Testing	Results	ELV*
1	Total Height of Stack	m	--	20	--
2	Flue gas temperature	0C	-	116	--
3	Dia of the Stack	m	--	1.0	--
4	Velocity of Flue Gas,	m/sec	USEPA Method 2	8.24	--
5	Volumetric Flow Rate	Nm ³ /Hr		17210	--
6	Oxygen as O ₂	%	by Combustion Analyser	14.6	--
7	Carbon Dioxide as CO ₂	%		6.32	--
8	Carbon Monoxide as CO	mg/Nm ³		58.9	<100.0
9	Oxides as Nitrogen as NO _x as NO ₂	mg/Nm ³	USEPA Method -07	223.7	<400.0
10	Sulphur dioxide as SO ₂	mg/Nm ³	USEPA Method -06	54.3	<200
11	Hydrogen Chloride as HCl	mg/Nm ³	USEPA Method -26	22.9	<50.0
12	Hydrogen Fluoride as HF	mg/Nm ³	USEPA method -13	0.82	<4.0
13	Particulate Matter as PM	mg/Nm ³	USEPA Method 5	23.7	50.0

*Emission Limit Values as per Schedule II of the Bio-medical Waste Management Rules, 2016
All the Values are represented at 11 % O₂.



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Sample Particulars : Stack Connected to Incinerator.

Sampling Date : 2025.02.28 Sample Registration Date : 2025.03.04
Analysis Starting Date : 2025.03.05 Analysis Completion Date : 2025.03.18
Test Required : Mercury as Hg; Cd + Tl its compounds+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds
Sample collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	Parameters	UoM	Method of Testing	Results	ELV*
1	Mercury as Hg + their Compound	mg/Nm ³	USEPA method -29	0.013	<0.05
2	Cadmium + Thallium (Cd + Tl) + their Compound			<0.001	<0.05
3	Chromium as Cr + their Compound			0.022	--
4	Manganese as Mn + their Compound			0.014	
5	Arsenic as As + their Compound			0.013	
6	Antimony as Sb + their Compound			0.010	
7	Lead as Pb + their Compound			0.012	
8	Cobalt as Co + their Compound			0.019	
9	Copper as Cu + their Compound			0.009	
10	Nickel as Ni + their Compound			0.012	
11	Vanadium as V + their Compound			0.015	
12	Total Metals: Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds			0.079	<0.5

Instruments used: GC-FID, ICP-MS, Cold Vapor AAS and GC-MS

All the values are represented at 11% O₂.


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Sample Particulars : DESTRUCTION AND REMOVAL EFFICIENCY OF INCINERATOR

Sampling Date	:	2025.02.28	Sample Registration Date	:	2025.03.04
Analysis Starting Date	:	2025.03.05	Analysis Completion Date	:	2025.03.18
Test Required	:	Destruction Efficiency			
Incinerator Capacity	:	200 Kg/Hr (4.5 TPH)			
Sample collected by Vimta Labs Ltd.					

TEST REPORT

Sr. No.	Parameters	Results
1	Combustion Efficiency of Principle organic BMW	98.84%

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Report Number : VLL/VLS/24/23471/Ash/1
Issued Date : 2025.03.19
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Sample Name : Ash Sample

Sampling Date	: 2025.02.28	Sample Registration Date	: 2025.03.04
Analysis Starting Date	: 2025.03.05	Analysis Completion Date	: 2025.03.08
Method of Testing	As per USPA Edition1311, IS 3025. Instrument Used: ICP-OES (Perkin-Elmer)		
Test Required	Arsenic, Barium, Cadmium, Lead, Manganese, Mercury, Selenium, Silver, Beryllium, Cobalt, Copper, Molybdenum		
Samples Coded	: Ash Sample		
Samples Collected by Vimta Labs Limited.			

TEST REPORT

Sr. No.	PARAMETER	UOM	Result
1	Arsenic	mg/L	<0.01
2	Barium	mg/L	2.4
3	Cadmium	mg/L	<0.01
4	Lead	mg/L	<0.1
5	Manganese	mg/L	1.4
6	Mercury	mg/L	<0.001
7	Selenium	mg/L	<0.01
8	Silver	mg/L	0.23
9	Beryllium	mg/L	<0.01
10	Cobalt	mg/L	0.65
11	Copper	mg/L	0.36
12	Molybdenum	mg/L	1.24

Remarks: Results relate only to the sample tested.

--END OF THE TEST REPORT --

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SAMPLE PARTICULARS : Ash Sample	
Sampling Date	: 2025.02.28
Analysis Starting Date	: 2025.03.05
Test Required	: Loss on Ignition, Total Organic Carbon
Method of Testing	: ASTM D7348 and SOP No. 26/22
Sample collected by	: Vimta Labs Ltd.,

TEST REPORT

S. No.	Test Parameters	UoM	Results
1	Total Organic Carbon	%	1.98
2	Loss on Ignition	%	2.56

Remarks: Results relate only to the sample tested.

--END OF THE TEST REPORT --

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SAMPLE PARTICULARS : ETP OUTLET WATER

Sampling Date : 2025.02.28 Sample Registration Date : 2025.03.04
Analysis Starting Date : 2025.03.05 Analysis Completion Date : 2025.03.08
Test Required : pH, TDS, TSS, COD, BOD and oil & Grease
Sample Quantity : 2 Litres x 1 No.
Sample Collected by Vimta Labs Ltd.

TEST REPORT

S. No.	Test Parameters	Method of Testing	UoM	Results
1	pH at 25°C	APHA 23rd ed 4500 H	--	7.78
2	Total Dissolved Solids at 180°C	APHA 23rd ed 2540 C	mg/l	1987
3	Total Suspended solids 105°C	APHA 23rd ed 2540 D	mg/l	18
4	Oil & Grease	APHA 23rd ed 5520 C	mg/l	<1.0
5	Biological Oxygen demand @ 27°C for 3days	IS 3025 Part-44	mg/l	18.0
6	Chemical Oxygen Demand at 150°C	APHA 23rd ed 5220 B	mg/l	60

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SAMPLE PARTICULARS : ETP OUTLET WATER

Sampling Date	: 2025.02.28	Sample Registration Date	: 2025.03.04
Analysis Starting Date	: 2025.03.05	Analysis Completion Date	: 2025.03.08
Test Required	: Bio Assay		
Sample Quantity	: 2 Litters x 1 No.		
Sample Collected by Vimta Labs Ltd.			

TEST REPORT

%Conc [v/v]	No of Fish	Mortality Record				Symptoms of Toxicity
		Time in hours				
		24	48	72	96	
Control	10	0	0	0	0	No symptoms of Toxicity were observed
Test (100 %)	10	0	0	0	0	No symptoms of Toxicity were observed

Method of Testing: As per IS: 6582-1971 (Reapproved 1992) Fish species: *Puntius sophore* (Fresh water minor caro) size: 2.5 to 3.0 cm Quality of sample pH: 7.78 and DO: 4.1 mg/L

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SAMPLE PARTICULARS : ETP INLET WATER

Sampling Date	: 2025.02.28	Sample Registration Date	: 2025.03.04
Analysis Starting Date	: 2025.03.05	Analysis Completion Date	: 2025.03.08
Test Required	pH, TDS, TSS, COD, BOD and oil & Grease		
Sample Quantity	2 Litres x 1 No.		
Sample Collected by Vimta Labs Ltd.			

TEST REPORT

S. No.	Test Parameters	Method of Testing	UoM	Results
1	pH at 25°C	APHA 23rd ed 4500 H	--	6.98
2	Total Dissolved Solids at 180°C	APHA 23rd ed 2540 C	mg/l	2875
3	Total Suspended solids 105°C	APHA 23rd ed 2540 D	mg/l	78
4	Oil & Grease	APHA 23rd ed 5520 C	mg/l	2.7
5	Biological Oxygen demand @ 27°C for 3days	IS 3025 Part-44	mg/l	80
6	Chemical Oxygen Demand at 150°C	APHA 23rd ed 5220 B	mg/l	360

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