



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525.
Tel. : (02362) 223519 • E-mail : info@gadark.in • Website : www.gadark.in

OFF.: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83.
Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/VEN/25/06001, 06015, 06031, 06045, 06061, 06075, 06093, 06107, 06124.	Test Report Date	04/07/2025
Customer Name and Address	M/s. VEDANTA LIMITED. VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIMM – GOA.		
Letter Ref / Date .	As per dated PO /2025/05/06288 (7920077644) date 07/05/2025		
Sampling Done By	GLPL	Page No.	1 of 1
Month of Sampling	JUNE – 2025		

SAMPLING DETAILS - AMBIENT AIR MONITORING :

Sampling Location	Location 1 – Near Amona Gate.
Duration of Sampling [Hrs]	24
Average Ambient Temperature [°C]	29
Average Relative Humidity [%]	87

ANALYSIS REPORT :

Sr. No.	Report No.	Date of Sampling	Parameters											
			PM ₁₀	PM _{2.5}	SO ₂	NO _x	NH ₃	CO***	Pb	C ₆ H ₆	As	Ni	O ₃ ***	B(a)P
1	GA/VEN/25/06001	02/06/2025	43.28	20.29	9.95	10.76	<20.0	0.31	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
2	GA/VEN/25/06015	05/06/2025	45.28	21.17	9.35	10.62	<20.0	0.34	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
3	GA/VEN/25/06031	09/06/2025	47.85	21.67	9.45	11.32	<20.0	0.29	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
4	GA/VEN/25/06045	12/06/2025	40.60	20.24	9.15	11.18	<20.0	0.32	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
5	GA/VEN/25/06061	16/06/2025	40.25	19.54	9.25	11.46	<20.0	0.31	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
6	GA/VEN/25/06075	19/06/2025	44.25	20.04	9.45	11.04	<20.0	0.32	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
7	GA/VEN/25/06093	23/06/2025	39.23	19.84	9.95	10.48	<20.0	0.35	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
8	GA/VEN/25/06107	26/06/2025	43.50	20.80	9.45	11.74	<20.0	0.33	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
9	GA/VEN/25/06124	30/06/2025	42.25	20.08	9.35	10.95	<20.0	0.31	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
NAAQS Limits*			100	60	80	80	400	4	1	5	6	20	100	1
Units			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	µg/m ³	ng/m ³

*N.A.A.Q.S. – National Ambient Air Quality Standards.

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

*** Hourly Value

End

For GADARKLAB PVT. LTD.

AUTHORISED SIGNATORY
[JAGANNATH S. PARAB]

Note :

1. The results relate only to the samples tested
2. Test report shall not be reproduced except in full, without written approval of the laboratory.
3. Samples will be preserved for a period 15 days from the delivery of Test Report.
4. Test Results relate only to the conditions prevailing at the time of sampling
5. Customer complaint register is available at laboratory.
6. Calibration details of the equipments used in monitoring and / or analysis is back side of analysis report.
7. Test methods of analyzed parameters are back side of analysis report.

Checked by
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Test methods of analyzed parameters

Parameters	Methods
PM ₁₀	NAAQMS/36/2012-2013 Volume 1
PM _{2.5}	NAAQMS/36/2012-2013 Volume 1
SO ₂	IS 5182 (Part II) 2012
NO ₂	IS 5182 (Part VI) 2012
CO	IS 5182 (Part X) 1999
Lead (Pb)	NAAQMS/36/2012-2013 Volume 1
Ozone (O ₃)	APHA Method 411 3 rd Edition
Ammonia (NH ₃)	APHA Method 401 3 rd Edition
Benzene (C ₆ H ₆)	IS 5182 (Part 11) 2006
Benzo Pyrene (B(a)P)	IS 5182 (Part 12):2004
Arsenic (As)	NAAQMS/36/2012-2013 Volume 1
Nickel (Ni)	NAAQMS/36/2012-2013 Volume 1

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Sr. No.	Instrument Type	Calibrated On	Calibration Due Date
1	Respirable Dust Sample - Sr. No. 2842-DTB-2020	02/02/2025	01/02/2026
2	Fine Particulate Sampler - Sr. No. 919-DTB-2020	31/01/2025	30/01/2026
3	Analytical Balance (GL/E/BAL/02)	10/06/2025	09/06/2026
4	Gas Chromatograph – Model Thermo-Fisher, Trace 1110	10/05/2025	09/05/2026
5	UV Spectrophotometer Model – UV - 3092, ID No. GL/EQ/UV2	03/05/2025	02/08/2025
6	ICP – OES , Thermo-fisher	Inhouse Calibration	



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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/VEN/25/06002, 06016, 06032, 06046, 06062, 06076, 06094, 06108, 06125.	Test Report Date	04/07/2025
Customer Name and Address	M/s. VEDANTA LIMITED. VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIMM – GOA.		
Letter Ref / Date .	As per dated PO /2025/05/06288 (7920077644) date 07/05/2025		
Sampling Done By	GLPL	Page No.	1 of 1
Month of Sampling	JUNE – 2025		

SAMPLING DETAILS - AMBIENT AIR MONITORING :

Sampling Location	Location 2 – Oppo. BSNL Exchange.
Duration of Sampling [Hrs]	24
Average Ambient Temperature [°C]	29
Average Relative Humidity [%]	87

ANALYSIS REPORT :

Sr. No.	Report No.	Date of Sampling	Parameters											
			PM ₁₀	PM _{2.5}	SO ₂	NO _x	NH ₃	CO***	Pb	C ₆ H ₆	As	Ni	O ₃ ***	B(a)P
1	GA/VEN/25/06002	02/06/2025	44.68	20.01	9.85	10.62	<20.0	0.29	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
2	GA/VEN/25/06016	05/06/2025	50.46	21.35	9.75	10.20	<20.0	0.33	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
3	GA/VEN/25/06032	09/06/2025	49.57	22.46	9.95	11.04	<20.0	0.27	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
4	GA/VEN/25/06046	12/06/2025	41.86	20.68	9.45	10.76	<20.0	0.31	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
5	GA/VEN/25/06062	16/06/2025	42.37	19.77	9.75	11.18	<20.0	0.29	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
6	GA/VEN/25/06076	19/06/2025	46.35	20.51	9.75	11.18	<20.0	0.31	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
7	GA/VEN/25/06094	23/06/2025	38.47	19.50	9.85	10.34	<20.0	0.32	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
8	GA/VEN/25/06108	26/06/2025	47.19	22.35	9.95	11.88	<20.0	0.31	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
9	GA/VEN/25/06125	30/06/2025	44.91	19.58	9.15	10.79	<20.0	0.30	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
NAAQS Limits*			100	60	80	80	400	4	1	5	6	20	100	1
Units			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	µg/m ³	ng/m ³

*N.A.A.Q.S. – National Ambient Air Quality Standards.

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

*** Hourly Value

End

For GADARKLAB PVT. LTD.

AUTHORISED SIGNATORY
[JAGANNATH S. PARAB]

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7. Test methods of analyzed parameters are back side of analysis report.

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Test methods of analyzed parameters

Parameters	Methods
PM ₁₀	NAAQMS/36/2012-2013 Volume 1
PM _{2.5}	NAAQMS/36/2012-2013 Volume 1
SO ₂	IS 5182 (Part II) 2012
NO ₂	IS 5182 (Part VI) 2012
CO	IS 5182 (Part X) 1999
Lead (Pb)	NAAQMS/36/2012-2013 Volume 1
Ozone (O ₃)	APHA Method 411 3 rd Edition
Ammonia (NH ₃)	APHA Method 401 3 rd Edition
Benzene (C ₆ H ₆)	IS 5182 (Part 11) 2006
Benzo Pyrene (B(a)P)	IS 5182 (Part 12):2004
Arsenic (As)	NAAQMS/36/2012-2013 Volume 1
Nickel (Ni)	NAAQMS/36/2012-2013 Volume 1

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Sr. No.	Instrument Type	Calibrated On	Calibration Due Date
1	Respirable Dust Sample - Sr. No. 192-B-22	14/05/2025	13/05/2026
2	Fine Particulate Sampler - Sr. No. 1363-J-23	18/09/2024	17/09/2025
3	Analytical Balance (GL/E/BAL/02)	10/06/2025	09/06/2026
4	Gas Chromatograph – Model Thermo-Fisher, Trace 1110	10/05/2025	09/05/2026
5	UV Spectrophotometer Model – UV - 3092, ID No. GL/EQ/UV2	03/05/2025	02/08/2025
6	ICP – OES , Thermo-fisher	Inhouse Calibration	



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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/VEN/25/06003, 06017, 06033, 06047, 06063, 06077, 06095, 06109, 06126.	Test Report Date	04/07/2025
Customer Name and Address	M/s. VEDANTA LIMITED. VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIMM – GOA.		
Letter Ref / Date .	As per dated PO /2025/05/06288 (7920077644) date 07/05/2025		
Sampling Done By	GLPL	Page No.	1 of 1
Month of Sampling	JUNE– 2025		

SAMPLING DETAILS - AMBIENT AIR MONITORING :

Sampling Location	Location 3 – Near Dispatch Gate.
Duration of Sampling [Hrs]	24
Average Ambient Temperature [°C]	29
Average Relative Humidity [%]	87

ANALYSIS REPORT :

Sr. No.	Report No.	Date of Sampling	Parameters											
			PM ₁₀	PM _{2.5}	SO ₂	NO _x	NH ₃	CO***	Pb	C ₆ H ₆	As	Ni	O ₃ ***	B(a)P
1	GA/VEN/25/06003	02/06/2025	46.89	23.26	9.65	10.34	<20.0	0.27	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
2	GA/VEN/25/06017	05/06/2025	47.92	23.26	9.85	10.48	<20.0	0.33	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
3	GA/VEN/25/06033	09/06/2025	51.39	21.57	9.55	10.76	<20.0	0.28	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
4	GA/VEN/25/06047	12/06/2025	42.16	21.65	9.15	10.62	<20.0	0.25	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
5	GA/VEN/25/06063	16/06/2025	44.18	20.44	9.85	11.32	<20.0	0.28	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
6	GA/VEN/25/06077	19/06/2025	44.18	21.26	9.65	10.90	<20.0	0.30	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
7	GA/VEN/25/06095	23/06/2025	38.47	19.50	9.75	10.20	<20.0	0.28	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
8	GA/VEN/25/06109	26/06/2025	50.17	22.69	9.35	11.04	<20.0	0.26	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
9	GA/VEN/25/06126	30/06/2025	46.71	20.67	9.45	10.63	<20.0	0.32	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
NAAQS Limits*			100	60	80	80	400	4	1	5	6	20	100	1
Units			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	µg/m ³	ng/m ³

*N.A.A.Q.S. – National Ambient Air Quality Standards.

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

*** Hourly Value

End

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Test methods of analyzed parameters

Parameters	Methods
PM ₁₀	NAAQMS/36/2012-2013 Volume 1
PM _{2.5}	NAAQMS/36/2012-2013 Volume 1
SO ₂	IS 5182 (Part II) 2012
NO ₂	IS 5182 (Part VI) 2012
CO	IS 5182 (Part X) 1999
Lead (Pb)	NAAQMS/36/2012-2013 Volume 1
Ozone (O ₃)	APHA Method 411 3 rd Edition
Ammonia (NH ₃)	APHA Method 401 3 rd Edition
Benzene (C ₆ H ₆)	IS 5182 (Part 11) 2006
Benzo Pyrene (B(a)P)	IS 5182 (Part 12):2004
Arsenic (As)	NAAQMS/36/2012-2013 Volume 1
Nickel (Ni)	NAAQMS/36/2012-2013 Volume 1

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Sr. No.	Instrument Type	Calibrated On	Calibration Due Date
1	Respirable Dust Sample - Sr. No. 2812-DTB-2020	01/02/2025	31/01/2026
2	Fine Particulate Sampler - Sr. No. 1256-L-22	04/01/2025	03/01/2026
3	Analytical Balance (GL/E/BAL/02)	10/06/2025	09/06/2026
4	Gas Chromatograph – Model Thermo-Fisher, Trace 1110	10/05/2025	09/05/2026
5	UV Spectrophotometer Model – UV - 3092, ID No. GL/EQ/UV2	03/05/2025	02/08/2025
6	ICP – OES , Thermo-fisher	Inhouse Calibration	



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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/VEN/25/06004, 06018, 06034, 06048, 06064, 06080, 06096, 06110, 06127.	Test Report Date	04/07/2025
Customer Name and Address	M/s. VEDANTA LIMITED. VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIMM - GOA.		
Letter Ref / Date .	As per dated PO /2025/05/06288 (7920077644) date 07/05/2025		
Sampling Done By	GLPL	Page No.	1 of 1
Month of Sampling	JUNE- 2025		

SAMPLING DETAILS - AMBIENT AIR MONITORING :

Sampling Location	Location 4 -Compound Wall Towards Navelim.
Duration of Sampling [Hrs]	24
Average Ambient Temperature [°C]	29
Average Relative Humidity [%]	87

ANALYSIS REPORT :

Sr. No.	Report No.	Date of Sampling	Parameters											
			PM ₁₀	PM _{2.5}	SO ₂	NO _x	NH ₃	CO***	Pb	C ₆ H ₆	As	Ni	O ₃ ***	B(a)P
1	GA/VEN/25/06004	02/06/2025	45.92	21.25	10.05	10.48	<20.0	0.28	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
2	GA/VEN/25/06018	05/06/2025	47.53	21.68	9.55	10.06	<20.0	0.31	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
3	GA/VEN/25/06034	09/06/2025	44.35	21.88	9.95	10.48	<20.0	0.34	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
4	GA/VEN/25/06048	12/06/2025	39.68	19.54	9.39	10.48	<20.0	0.28	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
5	GA/VEN/25/06064	16/06/2025	39.27	20.16	9.35	10.90	<20.0	0.27	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
6	GA/VEN/25/06080	19/06/2025	42.89	20.49	9.85	10.34	<20.0	0.29	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
7	GA/VEN/25/06096	23/06/2025	37.56	19.24	9.95	10.62	<20.0	0.31	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
8	GA/VEN/25/06110	26/06/2025	45.33	21.42	9.65	11.18	<20.0	0.30	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
9	GA/VEN/25/06127	30/06/2025	43.52	20.53	9.25	11.28	<20.0	0.29	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
NAAQS Limits*			100	60	80	80	400	4	1	5	6	20	100	1
Units			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	µg/m ³	ng/m ³

*N.A.A.Q.S. - National Ambient Air Quality Standards.

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

*** Hourly Value

End

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Test methods of analyzed parameters

Parameters	Methods
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PM _{2.5}	NAAQMS/36/2012-2013 Volume 1
SO ₂	IS 5182 (Part II) 2012
NO ₂	IS 5182 (Part VI) 2012
CO	IS 5182 (Part X) 1999
Lead (Pb)	NAAQMS/36/2012-2013 Volume 1
Ozone (O ₃)	APHA Method 411 3 rd Edition
Ammonia (NH ₃)	APHA Method 401 3 rd Edition
Benzene (C ₆ H ₆)	IS 5182 (Part 11) 2006
Benzo Pyrene (B(a)P)	IS 5182 (Part 12):2004
Arsenic (As)	NAAQMS/36/2012-2013 Volume 1
Nickel (Ni)	NAAQMS/36/2012-2013 Volume 1

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Sr. No.	Instrument Type	Calibrated On	Calibration Due Date
1	Respirable Dust Sample - Sr. No. 2834-DTB-2020	02/02/2025	01/02/2026
2	Fine Particulate Sampler - Sr. No. 335-DTA-2015	31/01/2025	30/01/2026
3	Analytical Balance (GL/E/BAL/02)	10/06/2025	09/06/2026
4	Gas Chromatograph – Model Thermo-Fisher, Trace 1110	10/05/2025	09/05/2026
5	UV Spectrophotometer Model – UV - 3092, ID No. GL/EQ/UV2	03/05/2025	02/08/2025
6	ICP – OES , Thermo-fisher	Inhouse Calibration	



GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/VEN/25/06005, 06019, 06035, 06049, 06065, 06079, 06097, 06111, 06128.	Test Report Date	04/07/2025
Customer Name and Address	M/s. VEDANTA LIMITED. VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIMM – GOA.		
Letter Ref / Date .	As per dated PO /2025/05/06288 (7920077644) date 07/05/2025		
Sampling Done By	GLPL	Page No.	1 of 1
Month of Sampling	JUNE – 2025		

SAMPLING DETAILS - AMBIENT AIR MONITORING :

Sampling Location	Location 5 – Satterri Temple
Duration of Sampling [Hrs]	24
Average Ambient Temperature [°C]	29
Average Relative Humidity [%]	87

ANALYSIS REPORT :

Sr. No.	Report No.	Date of Sampling	Parameters											
			PM ₁₀	PM _{2.5}	SO ₂	NO _x	NH ₃	CO***	Pb	C ₆ H ₆	As	Ni	O ₃ ***	B(a)P
1	GA/VEN/25/06005	02/06/2025	48.77	21.66	9.75	10.76	<20.0	0.33	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
2	GA/VEN/25/06019	05/06/2025	49.68	21.77	9.45	10.34	<20.0	0.33	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
3	GA/VEN/25/06035	09/06/2025	51.37	22.05	9.55	10.90	<20.0	0.32	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
4	GA/VEN/25/06049	12/06/2025	38.76	19.24	9.85	10.90	<20.0	0.24	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
5	GA/VEN/25/06065	16/06/2025	42.57	19.83	9.55	10.76	<20.0	0.29	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
6	GA/VEN/25/06079	19/06/2025	48.56	22.36	9.35	10.76	<20.0	0.28	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
7	GA/VEN/25/06097	23/06/2025	41.79	20.14	9.85	10.48	<20.0	0.34	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
8	GA/VEN/25/06111	26/06/2025	48.62	22.25	9.75	10.76	<20.0	0.28	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
9	GA/VEN/25/06128	30/06/2025	46.81	21.63	9.55	11.28	<20.0	0.31	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
NAAQS Limits*			100	60	80	80	400	4	1	5	6	20	100	1
Units			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	µg/m ³	ng/m ³

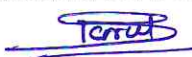
*N.A.A.Q.S. – National Ambient Air Quality Standards.

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

*** Hourly Value

End

For GADARKLAB PVT. LTD.


AUTHORISED SIGNATORY
[JAGANNATH S. PARAB]

Note :

1. The results relate only to the samples tested
2. Test report shall not be reproduced except in full, without written approval of the laboratory.
3. Samples will be preserved for a period 15 days from the delivery of Test Report.
4. Test Results relate only to the conditions prevailing at the time of sampling
5. Customer complaint register is available at laboratory.
6. Calibration details of the equipments used in monitoring and / or analysis is back side of analysis report.
7. Test methods of analyzed parameters are back side of analysis report.


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Test methods of analyzed parameters

Parameters	Methods
PM ₁₀	NAAQMS/36/2012-2013 Volume 1
PM _{2.5}	NAAQMS/36/2012-2013 Volume 1
SO ₂	IS 5182 (Part II) 2012
NO ₂	IS 5182 (Part VI) 2012
CO	IS 5182 (Part X) 1999
Lead (Pb)	NAAQMS/36/2012-2013 Volume 1
Ozone (O ₃)	APHA Method 411 3 rd Edition
Ammonia (NH ₃)	APHA Method 401 3 rd Edition
Benzene (C ₆ H ₆)	IS 5182 (Part 11) 2006
Benzo Pyrene (B(a)P)	IS 5182 (Part 12):2004
Arsenic (As)	NAAQMS/36/2012-2013 Volume 1
Nickel (Ni)	NAAQMS/36/2012-2013 Volume 1

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Sr. No.	Instrument Type	Calibrated On	Calibration Due Date
1	Respirable Dust Sample - Sr. No. 2832-DTB-2020	02/02/2025	01/02/2026
2	Fine Particulate Sampler - Sr. No. 1327-F-23	18/09/2024	17/09/2025
3	Analytical Balance (GL/E/BAL/02)	10/06/2025	09/06/2026
4	Gas Chromatograph – Model Thermo-Fisher, Trace 1110	10/05/2025	09/05/2026
5	UV Spectrophotometer Model – UV - 3092, ID No. GL/EQ/UV2	03/05/2025	02/08/2025
6	ICP – OES , Thermo-fisher	Inhouse Calibration	



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/VEN/25/06006, 06020, 06036, 06050, 06066, 06080, 06098, 06112, 06129.	Test Report Date	04/07/2025
Customer Name and Address	M/s. VEDANTA LIMITED. VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIMM – GOA.		
Letter Ref / Date .	As per dated PO /2025/05/06288 (7920077644) date 07/05/2025		
Sampling Done By	GLPL	Page No.	1 of 1
Month of Sampling	JUNE– 2025		

SAMPLING DETAILS - AMBIENT AIR MONITORING :

Sampling Location	Location 6 –Compound Wall Towards Maina.
Duration of Sampling [Hrs]	24
Average Ambient Temperature [°C]	29
Average Relative Humidity [%]	87

ANALYSIS REPORT :

Sr. No.	Report No.	Date of Sampling	Parameters											
			PM ₁₀	PM _{2.5}	SO ₂	NO _x	NH ₃	CO***	Pb	C ₆ H ₆	As	Ni	O ₃ ***	B(a)P
1	GA/VEN/25/06006	02/06/2025	42.59	20.89	9.85	10.20	<20.0	0.31	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
2	GA/VEN/25/06020	05/06/2025	44.38	20.98	9.95	10.76	<20.0	0.27	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
3	GA/VEN/25/06036	09/06/2025	44.79	21.25	9.75	10.62	<20.0	0.27	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
4	GA/VEN/25/06050	12/06/2025	37.89	18.54	9.19	11.04	<20.0	0.26	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
5	GA/VEN/25/06066	16/06/2025	43.71	18.91	9.85	11.32	<20.0	0.28	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
6	GA/VEN/25/06080	19/06/2025	49.55	21.79	9.55	10.06	<20.0	0.30	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
7	GA/VEN/25/06098	23/06/2025	39.20	20.58	9.75	10.34	<20.0	0.33	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
8	GA/VEN/25/06112	26/06/2025	44.85	21.05	10.05	11.32	<20.0	0.31	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
9	GA/VEN/25/06129	30/06/2025	42.78	20.15	9.75	10.79	<20.0	0.34	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
NAAQS Limits*			100	60	80	80	400	4	1	5	6	20	100	1
Units			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	µg/m ³	ng/m ³

*N.A.A.Q.S. – National Ambient Air Quality Standards.

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

*** Hourly Value

End

For GADARKLAB PVT. LTD.

Parab

AUTHORISED SIGNATORY
[JAGANNATH S. PARAB]

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7. Test methods of analyzed parameters are back side of analysis report.

K. Bagayath
CHECKED BY

Test methods of analyzed parameters

Parameters	Methods
PM ₁₀	NAAQMS/36/2012-2013 Volume 1
PM _{2.5}	NAAQMS/36/2012-2013 Volume 1
SO ₂	IS 5182 (Part II) 2012
NO ₂	IS 5182 (Part VI) 2012
CO	IS 5182 (Part X) 1999
Lead (Pb)	NAAQMS/36/2012-2013 Volume 1
Ozone (O ₃)	APHA Method 411 3 rd Edition
Ammonia (NH ₃)	APHA Method 401 3 rd Edition
Benzene (C ₆ H ₆)	IS 5182 (Part 11) 2006
Benzo Pyrene (B(a)P)	IS 5182 (Part 12):2004
Arsenic (As)	NAAQMS/36/2012-2013 Volume 1
Nickel (Ni)	NAAQMS/36/2012-2013 Volume 1

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Sr. No.	Instrument Type	Calibrated On	Calibration Due Date
1	Respirable Dust Sample - Sr. No. 2839-DTB-2020	02/02/2025	01/02/2026
2	Fine Particulate Sampler - Sr. No. 1365-J-23	18/12/2024	17/12/2025
3	Analytical Balance (GL/E/BAL/02)	10/06/2025	09/06/2026
4	Gas Chromatograph – Model Thermo-Fisher, Trace 1110	10/05/2025	09/05/2026
5	UV Spectrophotometer Model – UV - 3092, ID No. GL/EQ/UV2	03/05/2025	02/08/2025
6	ICP – OES , Thermo-fisher	Inhouse Calibration	