



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/25/0701,0717,0731,0747,0766,0783,0799,07115,07134	Test Report Date	04/08/2025
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	JULY- 2025		

SAMPLING DETAILS - AMBIENT AIR MONITORING :

Sampling Location	Location 1 - Near Amona Gate.
Duration of Sampling [Hrs]	24
Average Ambient Temperature [°C]	27
Average Relative Humidity [%]	91

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/25/0701	03/07/2025	39.44	19.54	10.15	11.28	15.93	0.30	0.04	<1.0	<0.4	3.83	10.32	<0.1
2	GA/VEN/25/0717	07/07/2025	41.56	20.05	10.05	10.95	16.34	0.34	0.05	<1.0	<0.4	4.45	9.66	<0.1
3	GA/VEN/25/0731	10/07/2025	43.34	20.54	10.25	11.61	15.93	0.31	0.04	<1.0	<0.4	3.83	10.32	<0.1
4	GA/VEN/25/0747	14/07/2025	37.64	17.25	10.45	11.28	16.34	0.32	0.03	<1.0	<0.4	0.74	9.24	<0.1
5	GA/VEN/25/0766	17/07/2025	44.67	21.88	9.35	10.95	17.29	0.31	0.06	<1.0	<0.4	4.44	9.82	<0.1
6	GA/VEN/25/0783	21/07/2025	38.71	19.34	9.55	11.28	16.75	0.31	0.02	<1.0	<0.4	7.05	10.07	<0.1
7	GA/VEN/25/0799	24/07/2025	42.18	19.43	9.35	10.95	16.48	0.32	0.02	<1.0	<0.4	2.23	9.34	<0.1
8	GA/VEN/25/07115	28/07/2025	51.43	21.37	9.75	12.10	16.61	0.34	0.04	<1.0	<0.4	1.48	9.70	<0.1
9	GA/VEN/25/07134	31/07/2025	43.33	19.76	10.35	12.43	17.02	0.36	0.04	<1.0	<0.4	3.09	9.65	<0.1
NAAQS Limits*			100	60	80	80	400	2	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

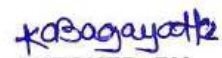
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For GADARKLAB PVT. LTD.


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	IS 5182 (Part XXIII) 2006
PM _{2.5}	IS 5182 (Part XXIV) 2019
SO ₂	IS 5182 (Part II) 2001
NO ₂	IS 5182 (Part VI) 2006
CO	IS 5182 (Part X) 1999
Lead (Pb)	IS 5182 (Part XXII) 2004
Ozone (O ₃)	ISC Method of Air Sampling & Analysis 3 rd Edition Method 411 2016
Ammonia (NH ₃)	ISC Method of Air Sampling & Analysis 3 rd Edition Method 401 2016
Benzene (C ₆ H ₆)	IS 5182 (Part XI) 2006
Benzo Pyrene (B(a)P)	IS 5182 (Part XII):2004
Arsenic (As)	IS 5182 (Part XXII):2004
Nickel (Ni)	IS 5182 (Part XXI):2020

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/25/0702,0718,0732,0748,0767, 0784,07100,07116,07135	Test Report Date	04/08/2025
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	JULY- 2025		

SAMPLING DETAILS - AMBIENT AIR MONITORING :

Sampling Location	Location 2 - Oppo. BSNL Exchange.
Duration of Sampling [Hrs]	24
Average Ambient Temperature [°C]	27
Average Relative Humidity [%]	91

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/25/0702	03/07/2025	42.19	20.34	9.95	11.77	16.48	0.32	0.04	<1.0	<0.4	2.84	9.61	<0.1
2	GA/VEN/25/0718	07/07/2025	43.58	20.44	10.15	11.44	16.61	0.35	0.06	<1.0	<0.4	4.57	9.68	<0.1
3	GA/VEN/25/0732	10/07/2025	41.65	20.16	10.35	11.61	16.20	0.34	0.04	<1.0	<0.4	2.84	9.61	<0.1
4	GA/VEN/25/0748	14/07/2025	36.62	17.04	10.55	11.44	15.93	0.31	0.04	<1.0	<0.4	2.23	9.26	<0.1
5	GA/VEN/25/0767	17/07/2025	42.77	20.64	9.15	10.79	17.70	0.30	0.08	<1.0	<0.4	0.74	9.80	<0.1
6	GA/VEN/25/0784	21/07/2025	40.38	19.78	9.65	11.12	16.88	0.34	0.05	<1.0	<0.4	1.24	8.97	<0.1
7	GA/VEN/25/07100	24/07/2025	38.79	17.34	9.45	10.79	17.16	0.32	0.04	<1.0	<0.4	0.74	8.85	<0.1
8	GA/VEN/25/07116	28/07/2025	45.34	18.75	9.75	11.28	17.02	0.35	0.03	<1.0	<0.4	1.85	8.87	<0.1
9	GA/VEN/25/07135	31/07/2025	41.30	18.24	10.05	11.93	15.80	0.35	0.09	<1.0	<0.4	2.35	9.44	<0.1
NAAQS Limits*			100	60	80	80	400	2	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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K. Bagayath
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Test methods of analyzed parameters

Parameters	Methods
PM ₁₀	IS 5182 (Part XXIII) 2006
PM _{2.5}	IS 5182 (Part XXIV) 2019
SO ₂	IS 5182 (Part II) 2001
NO ₂	IS 5182 (Part VI) 2006
CO	IS 5182 (Part X) 1999
Lead (Pb)	IS 5182 (Part XXII) 2004
Ozone (O ₃)	ISC Method of Air Sampling & Analysis 3 rd Edition Method 411 2016
Ammonia (NH ₃)	ISC Method of Air Sampling & Analysis 3 rd Edition Method 401 2016
Benzene (C ₆ H ₆)	IS 5182 (Part XI) 2006
Benzo Pyrene (B(a)P)	IS 5182 (Part XII):2004
Arsenic (As)	IS 5182 (Part XXII):2004
Nickel (Ni)	IS 5182 (Part XXI):2020

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/25/0703,0719,0733,0749,0768,0785,07101,07117,07136	Test Report Date	04/08/2025
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	JULY- 2025		

SAMPLING DETAILS - AMBIENT AIR MONITORING :

Sampling Location	Location 3 - WHRPP1-Old (GEPL) gate.
Duration of Sampling [Hrs]	24
Average Ambient Temperature [°C]	27
Average Relative Humidity [%]	91

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/25/0703	03/07/2025	43.54	20.47	9.85	10.30	16.34	0.30	0.06	<1.0	<0.4	1.48	9.04	<0.1
2	GA/VEN/25/0719	07/07/2025	45.67	21.65	10.25	10.79	16.07	0.36	0.04	<1.0	<0.4	2.61	10.42	<0.1
3	GA/VEN/25/0733	10/07/2025	44.75	21.46	10.05	11.12	15.93	0.35	0.04	<1.0	<0.4	2.23	9.88	<0.1
4	GA/VEN/25/0749	14/07/2025	40.48	19.55	10.35	10.46	16.20	0.34	0.05	<1.0	<0.4	1.85	9.12	<0.1
5	GA/VEN/25/0768	17/07/2025	43.66	20.86	9.45	10.63	17.57	0.28	0.07	<1.0	<0.4	0.62	9.65	<0.1
6	GA/VEN/25/0785	21/07/2025	37.00	16.95	9.45	10.95	17.16	0.32	0.05	<1.0	<0.4	3.83	10.05	<0.1
7	GA/VEN/25/07101	24/07/2025	41.71	18.72	9.15	11.12	17.70	0.31	0.01	<1.0	<0.4	1.48	9.28	<0.1
8	GA/VEN/25/07117	28/07/2025	48.61	21.49	9.35	11.44	16.75	0.32	0.03	<1.0	<0.4	3.21	9.22	<0.1
9	GA/VEN/25/07136	31/07/2025	45.27	20.24	9.55	11.28	16.88	0.37	0.06	<1.0	<0.4	2.72	9.82	<0.1
NAAQS Limits*			100	60	80	80	400	2	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

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** 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	IS 5182 (Part XXIII) 2006
PM _{2.5}	IS 5182 (Part XXIV) 2019
SO ₂	IS 5182 (Part II) 2001
NO ₂	IS 5182 (Part VI) 2006
CO	IS 5182 (Part X) 1999
Lead (Pb)	IS 5182 (Part XXII) 2004
Ozone (O ₃)	ISC Method of Air Sampling & Analysis 3 rd Edition Method 411 2016
Ammonia (NH ₃)	ISC Method of Air Sampling & Analysis 3 rd Edition Method 401 2016
Benzene (C ₆ H ₆)	IS 5182 (Part XI) 2006
Benzo Pyrene (B(a)P)	IS 5182 (Part XII):2004
Arsenic (As)	IS 5182 (Part XXII):2004
Nickel (Ni)	IS 5182 (Part XXI):2020

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/25/0711,0725,0741,0755,0776,0791,7109,07123,07144	Test Report Date	04/08/2025
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	JULY- 2025		

SAMPLING DETAILS - AMBIENT AIR MONITORING :

Sampling Location	Location 4 -Compound Wall Towards Navelim.
Duration of Sampling [Hrs]	24
Average Ambient Temperature [°C]	27
Average Relative Humidity [%]	91

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/25/0711	03/07/2025	38.87	18.84	10.25	11.77	16.75	0.32	0.05	<1.0	<0.4	2.61	9.55	<0.1
2	GA/VEN/25/0725	07/07/2025	40.37	19.87	9.95	10.79	16.20	0.31	0.04	<1.0	<0.4	3.23	9.95	<0.1
3	GA/VEN/25/0741	10/07/2025	42.77	20.38	9.85	11.12	16.61	0.31	0.05	<1.0	<0.4	2.61	9.55	<0.1
4	GA/VEN/25/0755	14/07/2025	35.58	16.21	9.65	11.61	16.48	0.30	0.05	<1.0	<0.4	0.99	9.31	<0.1
5	GA/VEN/25/0776	17/07/2025	39.27	19.56	9.25	10.46	17.16	0.30	0.05	<1.0	<0.4	2.47	9.21	<0.1
6	GA/VEN/25/0791	21/07/2025	41.46	19.42	9.75	10.95	16.34	0.31	0.03	<1.0	<0.4	5.59	8.73	<0.1
7	GA/VEN/25/07109	24/07/2025	36.88	15.65	9.35	11.28	17.43	0.34	0.04	<1.0	<0.4	0.62	8.68	<0.1
8	GA/VEN/25/07123	28/07/2025	43.55	20.18	9.45	10.63	16.88	0.31	0.02	<1.0	<0.4	2.86	9.28	<0.1
9	GA/VEN/25/07144	31/07/2025	39.68	17.36	9.55	11.44	16.07	0.36	0.02	<1.0	<0.4	0.25	8.99	<0.1
NAAQS Limits*			100	60	80	80	400	2	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

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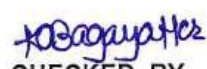
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PM _{2.5}	IS 5182 (Part XXIV) 2019
SO ₂	IS 5182 (Part II) 2001
NO ₂	IS 5182 (Part VI) 2006
CO	IS 5182 (Part X) 1999
Lead (Pb)	IS 5182 (Part XXII) 2004
Ozone (O ₃)	ISC Method of Air Sampling & Analysis 3 rd Edition Method 411 2016
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Benzene (C ₆ H ₆)	IS 5182 (Part XI) 2006
Benzo Pyrene (B(a)P)	IS 5182 (Part XII):2004
Arsenic (As)	IS 5182 (Part XXII):2004
Nickel (Ni)	IS 5182 (Part XXI):2020

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/25/0706,0721,0736,0751,0771,0787,7104,07119,07139	Test Report Date	04/08/2025
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	JULY – 2025		

SAMPLING DETAILS - AMBIENT AIR MONITORING :

Sampling Location	Location 5 – Satteri Temple
Duration of Sampling [Hrs]	24
Average Ambient Temperature [°C]	27
Average Relative Humidity [%]	91

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/25/0706	03/07/2025	44.57	20.26	10.45	11.61	16.88	0.35	0.03	<1.0	<0.4	1.49	9.60	<0.1
2	GA/VEN/25/0721	07/07/2025	42.71	19.24	10.55	11.12	16.61	0.32	0.05	<1.0	<0.4	5.72	10.05	<0.1
3	GA/VEN/25/0736	10/07/2025	47.26	20.93	10.25	11.28	16.48	0.30	0.06	<1.0	<0.4	3.23	10.02	<0.1
4	GA/VEN/25/0751	14/07/2025	41.49	17.64	10.05	11.77	16.07	0.29	0.06	<1.0	<0.4	2.49	9.28	<0.1
5	GA/VEN/25/0771	17/07/2025	44.43	21.06	9.55	10.95	17.02	0.31	0.03	<1.0	<0.4	1.23	9.51	<0.1
6	GA/VEN/25/0787	21/07/2025	39.68	18.35	9.35	11.44	16.34	0.35	0.05	<1.0	<0.4	1.00	9.95	<0.1
7	GA/VEN/25/07104	24/07/2025	43.28	19.64	9.15	11.93	17.29	0.31	0.03	<1.0	<0.4	1.00	9.29	<0.1
8	GA/VEN/25/07119	28/07/2025	46.72	21.66	9.45	12.10	16.20	0.30	0.04	<1.0	<0.4	0.87	9.38	<0.1
9	GA/VEN/25/07139	31/07/2025	42.36	19.42	9.25	12.43	15.93	0.35	0.04	<1.0	<0.4	2.74	9.71	<0.1
NAAQS Limits*			100	60	80	80	400	2	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

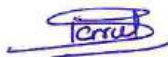
*N.A.A.Q.S. – National Ambient Air Quality Standards.

** 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
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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	IS 5182 (Part XXIII) 2006
PM _{2.5}	IS 5182 (Part XXIV) 2019
SO ₂	IS 5182 (Part II) 2001
NO ₂	IS 5182 (Part VI) 2006
CO	IS 5182 (Part X) 1999
Lead (Pb)	IS 5182 (Part XXII) 2004
Ozone (O ₃)	ISC Method of Air Sampling & Analysis 3 rd Edition Method 411 2016
Ammonia (NH ₃)	ISC Method of Air Sampling & Analysis 3 rd Edition Method 401 2016
Benzene (C ₆ H ₆)	IS 5182 (Part XI) 2006
Benzo Pyrene (B(a)P)	IS 5182 (Part XII):2004
Arsenic (As)	IS 5182 (Part XXII):2004
Nickel (Ni)	IS 5182 (Part XXI):2020

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

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/25/0707,0722,0737,0752,0772,0788,7105,07120,07140	Test Report Date	04/08/2025
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	JULY- 2025		

SAMPLING DETAILS - AMBIENT AIR MONITORING :

Sampling Location	Location 6 -Compound Wall Towards Maina.
Duration of Sampling [Hrs]	24
Average Ambient Temperature [°C]	27
Average Relative Humidity [%]	91

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/25/0707	03/07/2025	40.70	19.68	10.35	11.12	16.75	0.34	0.05	<1.0	<0.4	2.61	9.55	<0.1
2	GA/VEN/25/0722	07/07/2025	41.39	19.15	9.85	10.76	16.20	0.27	0.05	<1.0	<0.4	5.10	10.05	<0.1
3	GA/VEN/25/0737	10/07/2025	40.73	20.15	10.15	10.95	16.88	0.30	0.06	<1.0	<0.4	3.23	10.02	<0.1
4	GA/VEN/25/0752	14/07/2025	38.54	18.73	9.95	11.28	15.93	0.32	0.07	<1.0	<0.4	1.00	9.73	<0.1
5	GA/VEN/25/0772	17/07/2025	41.86	17.56	9.75	10.79	17.16	0.29	0.05	<1.0	<0.4	0.99	9.75	<0.1
6	GA/VEN/25/0788	21/07/2025	37.27	17.86	9.55	10.63	16.61	0.30	0.04	<1.0	<0.4	3.73	9.80	<0.1
7	GA/VEN/25/07105	24/07/2025	35.73	15.24	9.35	11.77	17.02	0.31	0.03	<1.0	<0.4	0.62	8.65	<0.1
8	GA/VEN/25/07120	28/07/2025	41.71	18.77	9.05	11.44	16.34	0.32	0.02	<1.0	<0.4	1.87	9.58	<0.1
9	GA/VEN/25/07140	31/07/2025	40.82	18.21	9.65	11.30	16.48	0.39	0.03	<1.0	<0.4	5.60	9.68	<0.1
NAAQS Limits*			100	60	80	80	400	2	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.

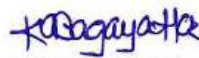
*** Hourly Value

End

For GADARKLAB PVT. LTD.


AUTHORISED SIGNATORY
[JAGANNATH S. PARAB]
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Test methods of analyzed parameters

Parameters	Methods
PM ₁₀	IS 5182 (Part XXIII) 2006
PM _{2.5}	IS 5182 (Part XXIV) 2019
SO ₂	IS 5182 (Part II) 2001
NO ₂	IS 5182 (Part VI) 2006
CO	IS 5182 (Part X) 1999
Lead (Pb)	IS 5182 (Part XXII) 2004
Ozone (O ₃)	ISC Method of Air Sampling & Analysis 3 rd Edition Method 411 2016
Ammonia (NH ₃)	ISC Method of Air Sampling & Analysis 3 rd Edition Method 401 2016
Benzene (C ₆ H ₆)	IS 5182 (Part XI) 2006
Benzo Pyrene (B(a)P)	IS 5182 (Part XII):2004
Arsenic (As)	IS 5182 (Part XXII):2004
Nickel (Ni)	IS 5182 (Part XXI):2020

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	