



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/25/0945,0959,0975,0989,1005,1022,1040,1052,1068	Test Report Date	03/10/2025
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	SEPTEMBER– 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 [%]	90

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/25/0945	01.09.2025	52.91	22.45	< 20	13.21	< 20	0.90	0.06	<1.0	<0.4	1.36	< 20	< 0.5
2	GA/VEN/25/0959	04.09.2025	46.60	22.12	< 20	12.96	< 20	0.73	0.04	<1.0	<0.4	1.11	< 20	< 0.5
3	GA/VEN/25/0975	08.09.2025	44.59	19.55	< 20	13.85	< 20	0.87	0.02	<1.0	<0.4	0.12	< 20	< 0.5
4	GA/VEN/25/0989	12.09.2025	41.75	18.55	< 20	15.24	< 20	0.92	< 0.01	<1.0	<0.4	0.73	< 20	< 0.5
5	GA/VEN/25/1005	15.09.2025	42.81	19.22	< 20	14.74	< 20	0.86	0.05	<1.0	<0.4	1.35	< 20	< 0.5
6	GA/VEN/25/1022	18.09.2025	47.57	22.40	< 20	14.48	< 20	0.95	0.04	<1.0	<0.4	1.33	< 20	< 0.5
7	GA/VEN/25/1040	22.09.2025	40.70	18.52	< 20	14.74	< 20	0.85	< 0.01	<1.0	<0.4	3.25	< 20	< 0.5
8	GA/VEN/25/1052	25.09.2025	43.56	19.81	< 20	15.11	< 20	0.85	0.03	<1.0	<0.4	1.96	< 20	< 0.5
9	GA/VEN/25/1068	29.09.2025	49.54	22.86	< 20	15.24	< 20	1.04	0.05	<1.0	<0.4	2.10	< 20	< 0.5
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 GADARK LAB PVT. LTD.


AUTHORISED SIGNATORY
[SANJIV V. RAJADHYAKSHA]

Note :

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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

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)	IS 5182 (Part IX) 2019
Ammonia (NH ₃)	IS 5182 (Part XXV) 2018
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	04/08/2025	03/11/2025
6	ICP – OES , Thermo-fisher	Inhouse Calibration	



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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GAVEN/25/0946,0960,0976,0990,1006,1023,1039,1053,1069	Test Report Date	03/10/2025
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	SEPTEMBER– 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 [%]	90

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	GAVEN/25/0946	01.09.2025	47.30	20.36	< 20	13.72	< 20	0.87	0.03	<1.0	<0.4	0.75	< 20	< 0.5
2	GAVEN/25/0960	04.09.2025	43.35	21.05	< 20	13.97	< 20	0.66	0.04	<1.0	<0.4	0.99	< 20	< 0.5
3	GAVEN/25/0976	08.09.2025	48.64	21.43	< 20	14.10	< 20	0.82	0.03	<1.0	<0.4	1.99	< 20	< 0.5
4	GAVEN/25/0990	12.09.2025	43.63	20.61	< 20	14.23	< 20	0.78	0.01	<1.0	<0.4	1.60	< 20	< 0.5
5	GAVEN/25/1006	15.09.2025	40.44	18.69	< 20	13.97	< 20	0.81	0.06	<1.0	<0.4	1.72	< 20	< 0.5
6	GAVEN/25/1023	18.09.2025	44.26	21.83	< 20	14.10	< 20	0.83	0.03	<1.0	<0.4	1.25	< 20	< 0.5
7	GAVEN/25/1039	22.09.2025	42.73	22.30	< 20	13.85	< 20	0.77	0.02	<1.0	<0.4	1.24	< 20	< 0.5
8	GAVEN/25/1053	25.09.2025	47.41	21.23	< 20	14.17	< 20	0.90	0.05	<1.0	<0.4	3.39	< 20	< 0.5
9	GAVEN/25/1069	29.09.2025	51.32	23.44	< 20	14.57	< 20	0.71	0.04	<1.0	<0.4	2.35	< 20	< 0.5
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 GADARK LAB PVT. LTD.


AUTHORISED SIGNATORY
[SANJIV V. RAJADHYAKSHA]

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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)	IS 5182 (Part IX) 2019
Ammonia (NH ₃)	IS 5182 (Part XXV) 2018
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	04/08/2025	03/11/2025
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/25/0947,0961,0977,0991,1007,1024,1040,1054,1070	Test Report Date	03/10/2025
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	SEPTEMBER– 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 [%]	90

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/25/0947	01.09.2025	46.76	22.54	< 20	12.70	< 20	0.99	0.03	<1.0	<0.4	1.31	< 20	< 0.5
2	GA/VEN/25/0961	04.09.2025	44.65	21.26	< 20	12.96	< 20	0.70	0.03	<1.0	<0.4	2.77	< 20	< 0.5
3	GA/VEN/25/0977	08.09.2025	45.67	22.30	< 20	13.08	< 20	0.78	0.04	<1.0	<0.4	2.34	< 20	< 0.5
4	GA/VEN/25/0991	12.09.2025	42.40	20.25	< 20	13.34	< 20	0.71	0.03	<1.0	<0.4	2.75	< 20	< 0.5
5	GA/VEN/25/1007	15.09.2025	47.51	22.18	< 20	13.85	< 20	0.83	0.05	<1.0	<0.4	0.49	< 20	< 0.5
6	GA/VEN/25/1024	18.09.2025	44.52	21.47	< 20	14.35	< 20	0.71	0.02	<1.0	<0.4	0.60	< 20	< 0.5
7	GA/VEN/25/1040	22.09.2025	41.46	20.87	< 20	14.23	< 20	0.72	0.03	<1.0	<0.4	0.48	< 20	< 0.5
8	GA/VEN/25/1054	25.09.2025	45.77	22.30	< 20	14.44	< 20	0.93	0.05	<1.0	<0.4	2.20	< 20	< 0.5
9	GA/VEN/25/1070	29.09.2025	46.83	21.94	< 20	14.84	< 20	0.76	0.05	<1.0	<0.4	0.48	< 20	< 0.5
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

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AUTHORISED SIGNATORY
[SANJIV V. RAJADHYAKSHA]

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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)	IS 5182 (Part IX) 2019
Ammonia (NH ₃)	IS 5182 (Part XXV) 2018
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	04/08/2025	03/11/2025
6	ICP – OES , Thermo-fisher	Inhouse Calibration	



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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GAVEN/25/0953, 0969, 0983, 0997, 1013, 1032, 1046, 1062, 1076	Test Report Date	03/10/2025
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	SEPTEMBER– 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 [%]	90

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	GAVEN/25/0953	01.09.2025	51.45	21.77	< 20	12.58	< 20	0.73	0.04	<1.0	<0.4	1.86	< 20	< 0.5	
2	GAVEN/25/0969	04.09.2025	42.68	20.85	< 20	12.83	< 20	0.67	0.03	<1.0	<0.4	1.63	< 20	< 0.5	
3	GAVEN/25/0983	08.09.2025	43.33	20.83	< 20	13.34	< 20	0.72	0.07	<1.0	<0.4	2.10	< 20	< 0.5	
4	GAVEN/25/0997	12.09.2025	50.38	22.64	< 20	13.59	< 20	0.80	0.02	<1.0	<0.4	2.24	< 20	< 0.5	
5	GAVEN/25/1013	15.09.2025	42.30	20.56	< 20	14.10	< 20	0.73	0.04	<1.0	<0.4	0.87	< 20	< 0.5	
6	GAVEN/25/1032	18.09.2025	46.18	21.66	< 20	13.85	< 20	0.71	0.02	<1.0	<0.4	1.24	< 20	< 0.5	
7	GAVEN/25/1046	22.09.2025	48.69	22.05	< 20	14.10	< 20	0.81	0.02	<1.0	<0.4	1.61	< 20	< 0.5	
8	GAVEN/25/1062	25.09.2025	42.65	19.41	< 20	14.04	< 20	0.76	0.03	<1.0	<0.4	3.23	< 20	< 0.5	
9	GAVEN/25/1076	29.09.2025	43.79	20.76	< 20	14.44	< 20	0.70	0.02	<1.0	<0.4	3.10	< 20	< 0.5	
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	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)	IS 5182 (Part IX) 2019
Ammonia (NH ₃)	IS 5182 (Part XXV) 2018
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	04/08/2025	03/11/2025
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/25/0949,0964,0979,0993,1009,1027,1042,1057,1072	Test Report Date	03/10/2025
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	SEPTEMBER – 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 [%]	90

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/25/0949	01.09.2025	54.51	22.67	< 20	13.08	< 20	0.67	0.03	<1.0	<0.4	1.25	< 20	< 0.5
2	GA/VEN/25/0964	04.09.2025	44.50	20.65	< 20	13.47	< 20	0.90	0.03	<1.0	<0.4	2.17	< 20	< 0.5
3	GA/VEN/25/0979	08.09.2025	46.26	21.47	< 20	14.23	< 20	0.92	0.01	<1.0	<0.4	1.03	< 20	< 0.5
4	GA/VEN/25/0993	12.09.2025	44.57	21.29	< 20	14.74	< 20	0.83	0.03	<1.0	<0.4	2.17	< 20	< 0.5
5	GA/VEN/25/1009	15.09.2025	48.27	22.59	< 20	14.23	< 20	0.82	0.05	<1.0	<0.4	1.94	< 20	< 0.5
6	GA/VEN/25/1027	18.09.2025	48.23	22.73	< 20	14.61	< 20	0.91	0.04	<1.0	<0.4	0.91	< 20	< 0.5
7	GA/VEN/25/1042	22.09.2025	43.63	20.54	< 20	14.86	< 20	0.72	0.04	<1.0	<0.4	1.14	< 20	< 0.5
8	GA/VEN/25/1057	25.09.2025	51.37	22.48	< 20	14.98	< 20	0.70	0.05	<1.0	<0.4	4.46	< 20	< 0.5
9	GA/VEN/25/1072	29.09.2025	45.20	21.62	< 20	15.11	< 20	0.86	0.04	<1.0	<0.4	2.40	< 20	< 0.5
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 GADARK LAB PVT. LTD.


AUTHORISED SIGNATORY
[SANJIV V. RAJADHYAKSHA]

Note :

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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)	IS 5182 (Part IX) 2019
Ammonia (NH ₃)	IS 5182 (Part XXV) 2018
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	04/08/2025	03/11/2025
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/25/0950,0965,0980,0994,1010,1028,1043,1058,1073	Test Report Date	03/10/2025
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	SEPTEMBER– 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 [%]	90

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/25/0950	01.09.2025	53.79	22.17	< 20	13.59	< 20	0.90	0.04	<1.0	<0.4	1.39	< 20	< 0.5
2	GA/VEN/25/0965	04.09.2025	41.88	19.78	< 20	13.97	< 20	0.92	0.04	<1.0	<0.4	2.13	< 20	< 0.5
3	GA/VEN/25/0980	08.09.2025	40.51	18.43	< 20	13.34	< 20	0.86	0.03	<1.0	<0.4	3.07	< 20	< 0.5
4	GA/VEN/25/0994	12.09.2025	45.58	21.44	< 20	13.72	< 20	0.81	0.01	<1.0	<0.4	2.01	< 20	< 0.5
5	GA/VEN/25/1010	15.09.2025	42.61	18.75	< 20	13.47	< 20	0.80	0.03	<1.0	<0.4	1.65	< 20	< 0.5
6	GA/VEN/25/1028	18.09.2025	44.60	21.09	< 20	14.10	< 20	0.81	0.01	<1.0	<0.4	0.59	< 20	< 0.5
7	GA/VEN/25/1043	22.09.2025	42.61	21.05	< 20	14.23	< 20	0.80	0.03	<1.0	<0.4	1.19	< 20	< 0.5
8	GA/VEN/25/1058	25.09.2025	48.24	22.24	< 20	14.71	< 20	0.98	0.05	<1.0	<0.4	2.83	< 20	< 0.5
9	GA/VEN/25/1073	29.09.2025	52.51	22.76	< 20	14.31	< 20	1.03	0.03	<1.0	<0.4	4.36	< 20	< 0.5
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 GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SANJIV V. RAJADHYAKSHA]

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Sanjiv V. Rajadhyaksha
CHECKED BY

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
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Ozone (O ₃)	IS 5182 (Part IX) 2019
Ammonia (NH ₃)	IS 5182 (Part XXV) 2018
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	04/08/2025	03/11/2025
6	ICP – OES , Thermo-fisher	Inhouse Calibration	