



SHREEJI AQUA TREATMENT PVT. LTD.

Innovative Environmental Solutions Under One Roof

Accredited by NABL as per ISO/IEC 17025:2017

Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018

Recognized by Ministry of Environment, Forest & Climate Change (MoEFCC), Govt. of India, New Delhi

• ENVIRONMENT • FOOD • ANIMAL FOOD & FEED • MICROBIOLOGY



TC-13877

Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India & NABL Valid Up to 13/06/2026.

ULR NO: TC138772500008437F

TEST REPORT

Lab Inward No. : SL/25-26/04/MAA/167D	Date of Sampling: 17-18/04/2025
Client Name : M/s. VEDANTA LIMITED VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM – GOA.	Start of analysis: 18/04/2025
	End of Analysis: 22/04/2025
	Report Date: 22/04/2025
	Sample Drawn By: SATPL Representative on 17-18/04/2025
Order / Reference: As per TRF dated 17/04/2025	
Monitoring For : Ambient Air Monitoring	
Sampling Procedure : As per IS 5182.	
Limits : *N.A.A.Q.S.-National Ambient Air Quality Standards.	
Sampling Location : Near Siddhartha Caves, Surla ,(N15 ° 29'59.82972" E74° 01'30.0162")	
Lateral Distance : 10.0 meter	Duration : 24 Hrs.
Receptor Height : 3.0 meter	Time : 11:55 am to 11:55 am
Relative humidity [%]: 64	Ambient Temperature [°C]: 34

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	7.81	<80.0	µg/m ³	IS 5182(Part-2)2001 R2022
2	Nitrogen Dioxide (NO ₂)	14.46	<80.0	µg/m ³	IS 5182(Part-6)2006 R2017
3	Particulate Matter PM ₁₀	51.19	<100.0	µg/m ³	IS 5182 (Part 23)2006 R2022
4	Particulate Matter PM _{2.5}	25.37	<60.0	µg/m ³	IS 5182 (Part 24)2019
5	Ozone (O ₃)	<20.0	<180.0 For 1 Hrs	µg/m ³	IS 5182(Part-9):R2019
6	Ammonia (NH ₃)	13.08	<400.0	µg/m ³	IS 5182(Part-25):R2018

REMARK: Reference to above mentioned monitoring report all the parameters are within the limits.

** 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

Disclaimer: 'Information is supplied by customers represented in italic font'



For Shreeji Aqua Treatment Pvt. Ltd.

SJM
Managing Director
Authorized Signatory

A part of the report has been generated on the next page. The results relate to sample tested.

Page 1 of 2

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 1&4,Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Savli, Lamdapura. 391 775 Dist. Vadodra

Customer Care No.: +919225247365 Email: info@shreejiaqua.com Web: www.shreejiaqua.com

Shreeji Aqua is always subject to improvement for better customer satisfaction, we welcome your feedback on pune_lab@shreejiaqua.com



SHREEJI AQUA TREATMENT PVT. LTD.

Innovative Environmental Solutions Under One Roof

Accredited by NABL as per ISO/IEC 17025:2017

Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018

Recognized by Ministry of Environment, Forest & Climate Change (MoEFCC), Govt. of India, New Delhi

● ENVIRONMENT ● FOOD ● ANIMAL FOOD & FEED ● MICROBIOLOGY

Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India & NABL Valid Up to 13/06/2026.

TEST REPORT

Lab Inward No. : SL/25-26/04/MAA/167D	Date of Sampling: 17-18/04/2025
Client Name : M/s. VEDANTA LIMITED	Start of analysis: 18/04/2025
	End of Analysis: 22/04/2025
VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM – GOA.	Report Date: 22/04/2025
	Sample Drawn By: SATPL Representative on 17-18/04/2025
Order / Reference: As per TRF dated 17/04/2025	
Monitoring For : Ambient Air Monitoring	
Sampling Procedure : As per IS 5182.	
Limits : *N.A.A.Q.S.-National Ambient Air Quality Standards.	
Sampling Location : Near Siddhartha Caves, Surla ,(N15 ° 29'59.82972" E74° 01'30.0162")	
Lateral Distance : 10.0 meter	Duration : 24 Hrs.
Receptor Height : 3.0 meter	Time : 11:55 am to 11:55 am
Relative humidity [%]: 64	Ambient Temperature [°C]: 34

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
7	Carbon Monoxide (CO)	0.39	<4.0 for 1 Hrs	mg/m3	IS 5182(Part-10):1999 R2019
8	Lead as (Pb)	<0.01	<1.0	µg/m3	IS 5182(Part-22):2004 R2019
9	Benzene (C ₆ H ₆)	<0.1	<5.0**	µg/m3	IS 5182 (Part 11):2006 R2022
10	Benzo(a)Pyrene (BaP)	<0.1	<1.0**	ng/m3	IS 5182 (Part 12):2004 R2019
11	Arsenic (As)	<1.0	<6.0**	ng/m3	CPCB Guideline volume-1:2012
12	Nickel (Ni)	<0.5	<20.0**	ng/m3	IS 5182(Part-26):2020

REMARK: Reference to above mentioned monitoring report all the parameters are within the limits.

** 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

Disclaimer: 'Information is supplied by customers represented in italic font

EQUIPMENT CALIBRATION DETAILS

Sr. No.	EquipmentName	Equipment ID	CertificateNo.	Calibration Detail	
				Calibrated Date	Calibration Due Date
201204156	Ambient Air Sampler-3	SATPL/AR/AAS-03/124	25031301/07	18.03.2025	17.03.2026
D307534576	Digital Electronic Balance	SATPL/WT/WL/39	FSC/2503/1801/005	15.03.2025	14.03.2026
NA	Digital Spectrophotometer Model	SATPL/WT/UV/30	-----	Inhouse Calibration	

For Shreeji Aqua Treatment Pvt. Ltd.



SJM
Managing Director
Authorized Signatory

-----End of Test Report-----

This report cannot be reproduced in parts. The results relate to sample tested.

Page 2 of 2

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 1&4,Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Savli, Lamdapura. 391 775 Dist. Vadodra

Customer Care No.: +919225247365 Email: info@shreejiaqua.com Web: www.shreejiaqua.com

Shreeji Aqua is always subject to improvement for better customer satisfaction, we welcome your feedback on pune_lab@shreejiaqua.com



SHREEJI AQUA TREATMENT PVT. LTD.

Innovative Environmental Solutions Under One Roof

Accredited by NABL as per ISO/IEC 17025:2017

Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018

Recognized by Ministry of Environment, Forest & Climate Change (MoEFCC), Govt. of India, New Delhi

• ENVIRONMENT • FOOD • ANIMAL FOOD & FEED • MICROBIOLOGY



TC-13877

Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India & NABL Valid Up to 13/06/2026.

ULR NO: TC138772500008436F

TEST REPORT

Lab Inward No. : SL/25-26/04/MAA/167C	Date of Sampling: 17-18/04/2025
Client Name : M/s. VEDANTA LIMITED VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM – GOA.	Start of analysis: 18/04/2025
	End of Analysis: 22/04/2025
	Report Date: 22/04/2025
Sample Drawn By: SATPL Representative on 17-18/04/2025	
Order / Reference: As per TRF dated 17/04/2025	
Monitoring For: Ambient Air Monitoring	
Sampling Procedure: As per IS 5182	
Limits: *N.A.A.Q.S.-National Ambient Air Quality Standards.	
Sampling Location: Near Mosque, Surla (N15 ° 29'51.67104" E74° 01'7.04532")	
Lateral Distance: 10.0 meter	Duration: 24 Hrs.
Receptor Height: 3.0 meter	Time : 11:35 am to 11:35 am
Relative humidity [%]: 64	Ambient Temperature [°C]: 34

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	9.12	<80.0	µg/m ³	IS 5182(Part-2)2001 R2022
2	Nitrogen Dioxide (NO ₂)	18.06	<80.0	µg/m ³	IS 5182(Part-6)2006 R2017
3	Particulate Matter PM ₁₀	55.89	<100.0	µg/m ³	IS 5182 (Part 23)2006 R2022
4	Particulate Matter PM _{2.5}	26.61	<60.0	µg/m ³	IS 5182 (Part 24)2019
5	Ozone (O ₃)	<20.0	<180.0 For 1 Hrs	µg/m ³	IS 5182(Part-9):R2019
6	Ammonia (NH ₃)	12.25	<400.0	µg/m ³	IS 5182(Part-25):R2018

REMARK: Reference to above mentioned monitoring report all the parameters are within the limits.
 ** 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

Disclaimer: 'Information is supplied by customers represented in italic font'

For Shreeji Aqua Treatment Pvt. Ltd.



SJM
Managing Director
Authorized Signatory

A part of the report has been generated on the next page. The results relate to sample tested. Page 1 of 2

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.
 Lab: 1&4,Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019
 Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Savli, Lamdapura. 391 775 Dist. Vadodra
 Customer Care No.: +919225247365 Email: info@shreejiaqua.com Web: www.shreejiaqua.com
 Shreeji Aqua is always subject to improvement for better customer satisfaction, we welcome your feedback on pune_lab@shreejiaqua.com



SHREEJI AQUA TREATMENT PVT. LTD.

Innovative Environmental Solutions Under One Roof

Accredited by NABL as per ISO/IEC 17025:2017

Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018

Recognized by Ministry of Environment, Forest & Climate Change (MoEFCC), Govt. of India, New Delhi

● ENVIRONMENT ● FOOD ● ANIMAL FOOD & FEED ● MICROBIOLOGY

Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India & NABL Valid Up to 13/06/2026.

TEST REPORT

Lab Inward No. : SL/25-26/04/MAA/167C	Date of Sampling: 17-18/04/2025
Client Name : M/s. VEDANTA LIMITED	Start of analysis: 18/04/2025
	End of Analysis: 22/04/2025
VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM – GOA.	Report Date: 22/04/2025
	Sample Drawn By: SATPL Representative on 17-18/04/2025

Order / Reference: As per TRF dated 17/04/2025

Monitoring For : Ambient Air Monitoring

Sampling Procedure : As per IS 5182

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

Sampling Location : Near Mosque,Surla (N15° 29'51.67104" E74° 01'7.04532")

Lateral Distance : 10.0 meter

Duration : 24 Hrs.

Receptor Height : 3.0 meter

Time : 11:35 am to 11:35 am

Relative humidity [%]: 64

Ambient Temperature [°C]: 34

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
7	Carbon Monoxide (CO)	0.44	<4.0 for 1 Hrs	mg/m ³	IS 5182(Part-10):1999 R2019
8	Lead as (Pb)	<0.01	<1.0	µg/m ³	IS 5182(Part-22):2004 R2019
9	Benzene (C ₆ H ₆)	<0.1	<5.0**	µg/m ³	IS 5182 (Part 11):2006 R2022
10	Benzo(a)Pyrene (BaP)	<0.1	<1.0**	ng/m ³	IS 5182 (Part 12):2004 R2019
11	Arsenic (As)	<1.0	<6.0**	ng/m ³	CPCB Guideline volume-1:2012
12	Nickel (Ni)	<0.5	<20.0**	ng/m ³	IS 5182(Part-26):2020

REMARK: Reference to above mentioned monitoring report all the parameters are within the limits.

** 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

Disclaimer: *Information is supplied by customers represented in italic font*

EQUIPMENT CALIBRATION DETAILS

Sr. No.	EquipmentName	Equipment ID	CertificateNo.	Calibration Detail	
				Calibrated Date	Calibration Due Date
160504060	Ambient Air Sampler-2	SATPL/AR/AAS-02/123	25031301/06	18.03.2025	17.03.2026
D307534576	Digital Electronic Balance	SATPL/WT/WL/39	FSC/2503/1801/005	15.03.2025	14.03.2026
NA	Digital Spectrophotometer Model	SATPL/WT/UV/30	-----	Inhouse Calibration	

For Shreeji Aqua Treatment Pvt. Ltd.



SJM
Managing Director
Authorized Signatory

-----End of Test Report-----

This report cannot be reproduced in parts. The results relate to sample tested.

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 1&4,Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Savli, Lamdapura. 391 775 Dist. Vadodra

Customer Care No.: +919225247365 **Email:** info@shreejiaqua.com **Web:** www.shreejiaqua.com

Shreeji Aqua is always subject to improvement for better customer satisfaction, we welcome your feedback on pune_lab@shreejiaqua.com



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/25/05131	Test Report Date	31/05/2025
Customer Name and Address	M/s. VEDANTA LIMITED IRON AND COKE PLANTS, AMONA AND NAVELIM, BICHOLIM – GOA.		
Letter Ref / Date .	As per P.O. No. PO/2025/05/06288 (4920077644) date 07/05/2025.		
Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	28/05/2025	Analysis Period	28/05/2025 To 31/05/2024

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Siddhartha Caves, Surla
Duration of Sampling [Hrs]	24
Average Ambient Temperature [°C]	31.0
Average Relative Humidity [%]	78

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Methods
PM ₁₀	µg/m ³	47.16	100.0	NAAQMS/36/2012-2013 Volume 1
PM _{2.5}	µg/m ³	19.50	60.0	NAAQMS/36/2012-2013 Volume 1
SO ₂	µg/m ³	8.94	80.0	IS 5182 (Part II) 2012
NO ₂	µg/m ³	11.18	80.0	IS 5182 (Part VI) 2012
CO	mg/m ³	0.21	4.0 for 1 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	< 0.01	1.0	NAAQMS/36/2012-2013 Volume 1
Ozone	µg/m ³	< 20.0	180.0 for 1 Hrs.	APHA Method 411 3 rd Edition
Ammonia	µg/m ³	< 14.0	400.0	APHA Method 401 3 rd Edition
Benzene	µg/m ³	< 0.14	5.0**	IS 5182 (Part 11) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0**	IS 5182 (Part 12):2004
Arsenic	ng/m ³	< 0.7	6.0**	NAAQMS/36/2012-2013 Volume 1
Nickel	ng/m ³	< 6.0	20.0**	NAAQMS/36/2012-2013 Volume 1

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

End

For GADARKLAB PVT. LTD.

AUTHORISED SIGNATORY
[JAGANNATH S. PARAB]

CHECKED BY

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.

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. 721-J-23	12/12/2024	20/12/2025
2	Fine Particulate Sampler - Sr. No. 1372-J-23	19/12/2024	18/12/2025
3	Digital Electronic Balance – Sr. No. GL/IN/Bal-02	29/06/2024	28/06/2025
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/25/05130	Test Report Date	31/05/2025
Customer Name and Address	M/s. VEDANTA LIMITED IRON AND COKE PLANTS, AMONA AND NAVELIM, BICHOLIM – GOA.		
Letter Ref / Date .	As per P.O. No. PO/2025/05/06288 (4920077644) date 07/05/2025.		
Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	28/05/2025	Analysis Period	28/05/2025 To 31/05/2024

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Mosque, Surla
Duration of Sampling [Hrs]	24
Average Ambient Temperature [°C]	31.0
Average Relative Humidity [%]	78

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Methods
PM ₁₀	µg/m ³	41.22	100.0	NAAQMS/36/2012-2013 Volume 1
PM _{2.5}	µg/m ³	15.48	60.0	NAAQMS/36/2012-2013 Volume 1
SO ₂	µg/m ³	8.74	80.0	IS 5182 (Part II) 2012
NO ₂	µg/m ³	10.76	80.0	IS 5182 (Part VI) 2012
CO	mg/m ³	0.20	4.0 for 1 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	< 0.01	1.0	NAAQMS/36/2012-2013 Volume 1
Ozone	µg/m ³	< 20.0	180.0 for 1 Hrs.	APHA Method 411 3 rd Edition
Ammonia	µg/m ³	< 14.0	400.0	APHA Method 401 3 rd Edition
Benzene	µg/m ³	< 0.14	5.0**	IS 5182 (Part 11) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0**	IS 5182 (Part 12):2004
Arsenic	ng/m ³	< 0.7	6.0**	NAAQMS/36/2012-2013 Volume 1
Nickel	ng/m ³	< 6.0	20.0**	NAAQMS/36/2012-2013 Volume 1

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

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[JAGANNATH S. PARAB]

CHECKED BY

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.

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 Sampler - Sr. No. 722-J-23	12/12/2024	20/12/2025
2	Fine Particulate Sampler - Sr. No. 1372-J-23	19/12/2024	18/12/2025
3	Digital Electronic Balance – Sr. No. GL/IN/Bal-02	29/06/2024	28/06/2025
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

Doc.No : GLPL/QF/7.8/03

TEST REPORT

Test Report No.	GA/VEN/25/06091	Test Report Date	25/06/2025
Customer Name and Address	M/s. VEDANTA LIMITED IRON AND COKE PLANTS, AMONA AND NAVELIM, BICHOLIM – GOA.		
Letter Ref / Date .	As per P.O. No. PO/2025/05/06288 (4920077644) date 07/05/2025.		
Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	20/06/2025	Analysis Period	21/06/2025 To 25/06/2025

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Siddhartha Caves, Surla
Duration of Sampling [Hrs]	24
Average Ambient Temperature [°C]	29
Average Relative Humidity [%]	85

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Methods
PM ₁₀	µg/m ³	42.36	100.0	NAAQMS/36/2012-2013 Volume 1
PM _{2.5}	µg/m ³	17.26	60.0	NAAQMS/36/2012-2013 Volume 1
SO ₂	µg/m ³	8.44	80.0	IS 5182 (Part II) 2012
NO ₂	µg/m ³	10.48	80.0	IS 5182 (Part VI) 2012
CO	mg/m ³	0.23	4.0 for 1 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	< 0.01	1.0	NAAQMS/36/2012-2013 Volume 1
Ozone	µg/m ³	< 20.0	180.0 for 1 Hrs.	APHA Method 411 3 rd Edition
Ammonia	µg/m ³	< 14.0	400.0	APHA Method 401 3 rd Edition
Benzene	µg/m ³	< 0.14	5.0**	IS 5182 (Part 11) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0**	IS 5182 (Part 12):2004
Arsenic	ng/m ³	< 0.7	6.0**	NAAQMS/36/2012-2013 Volume 1
Nickel	ng/m ³	< 6.0	20.0**	NAAQMS/36/2012-2013 Volume 1

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

End

For GADARKLAB PVT. LTD.

AUTHORISED SIGNATORY
[JAGANNATH S. PARAB]

CHECKED BY

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.

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. 721-J-23	12/12/2024	20/12/2025
2	Fine Particulate Sampler - Sr. No. 1372-J-23	19/12/2024	18/12/2025
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	



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/25/06092	Test Report Date	25/06/2025
Customer Name and Address	M/s. VEDANTA LIMITED IRON AND COKE PLANTS, AMONA AND NAVELIM, BICHOLIM – GOA.		
Letter Ref / Date .	As per P.O. No. PO/2025/05/06288 (4920077644) date 07/05/2025.		
Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	20/06/2025	Analysis Period	21/06/2025 To 25/06/2025

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Mosque, Surla
Duration of Sampling [Hrs]	24
Average Ambient Temperature [°C]	29
Average Relative Humidity [%]	85

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Methods
PM ₁₀	µg/m ³	37.44	100.0	NAAQMS/36/2012-2013 Volume 1
PM _{2.5}	µg/m ³	15.16	60.0	NAAQMS/36/2012-2013 Volume 1
SO ₂	µg/m ³	8.54	80.0	IS 5182 (Part II) 2012
NO ₂	µg/m ³	10.62	80.0	IS 5182 (Part VI) 2012
CO	mg/m ³	0.21	4.0 for 1 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	< 0.01	1.0	NAAQMS/36/2012-2013 Volume 1
Ozone	µg/m ³	< 20.0	180.0 for 1 Hrs.	APHA Method 411 3 rd Edition
Ammonia	µg/m ³	< 14.0	400.0	APHA Method 401 3 rd Edition
Benzene	µg/m ³	< 0.14	5.0**	IS 5182 (Part 11) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0**	IS 5182 (Part 12):2004
Arsenic	ng/m ³	< 0.7	6.0**	NAAQMS/36/2012-2013 Volume 1
Nickel	ng/m ³	< 6.0	20.0**	NAAQMS/36/2012-2013 Volume 1

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

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[JAGANNATH S. PARAB]

CHECKED BY

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 Reports.
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.

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. 722-J-23	12/12/2024	20/12/2025
2	Fine Particulate Sampler - Sr. No. 1372-J-23	19/12/2024	18/12/2025
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	



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/25/0797	Test Report Date	26/07/2025
Customer Name and Address	M/s. VEDANTA LIMITED IRON AND COKE PLANTS, AMONA AND NAVELIM, BICHOLIM – GOA.		
Letter Ref / Date .	As per P.O. No. PO/2025/05/06288 (4920077644) date 07/05/2025.		
Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	22/07/2025	Analysis Period	23/07/2025 To 26/07/2025

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Siddhartha Caves, Surla
Duration of Sampling [Hrs]	24
Average Ambient Temperature [°C]	27
Average Relative Humidity [%]	91

ANALYSIS REPORT :-

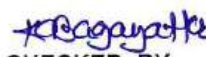
Parameters	Unit	Results	*N.A.A.Q.S.	Methods
PM ₁₀	µg/m ³	35.13	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	15.28	60.0	IS 5182 (Part XXIV) 2019
SO ₂	µg/m ³	8.14	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	10.14	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.22	4.0 for 1 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	<0.0004	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	< 0.006	180.0 for 1 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition Method 411 2016
Ammonia	µg/m ³	< 0.3	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition Method 401 2016
Benzene	µg/m ³	< 1.0	5.0**	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0**	IS 5182 (Part XII):2004
Arsenic	ng/m ³	< 0.4	6.0**	IS 5182 (Part XXII):2004
Nickel	ng/m ³	< 0.4	20.0**	IS 5182 (Part XXI):2020

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

End

For GADARKLAB PVT. LTD.


AUTHORISED SIGNATORY
[JAGANNATH S. PARAB]


CHECKED BY

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.

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Sr. No.	Instrument Type	Calibrated On	Calibration Due Date
1	Respirable Dust Sample - Sr. No. 721-J-23	12/12/2024	20/12/2025
2	Fine Particulate Sampler - Sr. No. 1372-J-23	19/12/2024	18/12/2025
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	



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/25/0798	Test Report Date	26/07/2025
Customer Name and Address	M/s. VEDANTA LIMITED IRON AND COKE PLANTS, AMONA AND NAVELIM, BICHOLIM – GOA.		
Letter Ref / Date .	As per P.O. No. PO/2025/05/06288 (4920077644) date 07/05/2025.		
Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	22/07/2025	Analysis Period	23/07/2025 To 26/07/2025

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Mosque, Surla
Duration of Sampling [Hrs]	24
Average Ambient Temperature [°C]	27
Average Relative Humidity [%]	91

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Methods
PM ₁₀	µg/m ³	36.26	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	14.22	60.0	IS 5182 (Part XXIV) 2019
SO ₂	µg/m ³	8.44	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	10.30	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.21	4.0 for 1 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	< 0.0004	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	< 0.006	180.0 for 1 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition Method 411 2016
Ammonia	µg/m ³	< 0.3	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition Method 401 2016
Benzene	µg/m ³	< 1.0	5.0**	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0**	IS 5182 (Part XII):2004
Arsenic	ng/m ³	< 0.4	6.0**	IS 5182 (Part XXII):2004
Nickel	ng/m ³	< 0.4	20.0**	IS 5182 (Part XXI):2020

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

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[JAGANNATH S. PARAB]

CHECKED BY

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 Reports.
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.

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Sr. No.	Instrument Type	Calibrated On	Calibration Due Date
1	Respirable Dust Sample - Sr. No. 722-J-23	12/12/2024	20/12/2025
2	Fine Particulate Sampler - Sr. No. 1372-J-23	19/12/2024	18/12/2025
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	



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/25/0890	Test Report Date	25/08/2025
Customer Name and Address	M/s. VEDANTA LIMITED IRON AND COKE PLANTS, AMONA AND NAVELIM, BICHOLIM – GOA.		
Letter Ref / Date .	As per P.O. No. PO/2025/05/06288 (4920077644) date 07/05/2025.		
Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	21/08/2025	Analysis Period	21/08/2025 To 25/08/2025

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Siddhartha Caves, Surla
Duration of Sampling [Hrs]	24
Average Ambient Temperature [°C]	27
Average Relative Humidity [%]	92

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Methods
PM ₁₀	µg/m ³	36.46	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	15.86	60.0	IS 5182 (Part XXIV) 2019
SO ₂	µg/m ³	8.26	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	10.29	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.70	4.0 for 1 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.03	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	9.69	180.0 for 1 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition Method 411 2016
Ammonia	µg/m ³	14.57	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition Method 401 2016
Benzene	µg/m ³	< 1.0	5.0**	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0**	IS 5182 (Part XII):2004
Arsenic	ng/m ³	< 0.4	6.0**	IS 5182 (Part XXII):2004
Nickel	ng/m ³	1.85	20.0**	IS 5182 (Part XXI):2020

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

End

For GADARKLAB PVT. LTD.

AUTHORISED SIGNATORY
[JAGANNATH S. PARAB]

CHECKED BY

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.

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Sr. No.	Instrument Type	Calibrated On	Calibration Due Date
1	Respirable Dust Sample - Sr. No. 721-J-23	12/12/2024	20/12/2025
2	Fine Particulate Sampler - Sr. No. 1372-J-23	19/12/2024	18/12/2025
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	



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/25/0891	Test Report Date	25/08/2025
Customer Name and Address	M/s. VEDANTA LIMITED IRON AND COKE PLANTS, AMONA AND NAVELIM, BICHOLIM – GOA.		
Letter Ref / Date .	As per P.O. No. PO/2025/05/06288 (4920077644) date 07/05/2025.		
Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	21/08/2025	Analysis Period	21/08/2025 To 25/08/2025

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Mosque, Surla
Duration of Sampling [Hrs]	24
Average Ambient Temperature [°C]	27
Average Relative Humidity [%]	92

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Methods
PM ₁₀	µg/m ³	37.08	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	16.31	60.0	IS 5182 (Part XXIV) 2019
SO ₂	µg/m ³	8.48	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	10.42	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.65	4.0 for 1 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.03	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	9.46	180.0 for 1 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition Method 411 2016
Ammonia	µg/m ³	14.84	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition Method 401 2016
Benzene	µg/m ³	< 1.0	5.0**	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0**	IS 5182 (Part XII):2004
Arsenic	ng/m ³	< 0.4	6.0**	IS 5182 (Part XXII):2004
Nickel	ng/m ³	2.35	20.0**	IS 5182 (Part XXI):2020

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

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[JAGANNATH S. PARAB]

CHECKED BY

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 Reports.
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.

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Sr. No.	Instrument Type	Calibrated On	Calibration Due Date
1	Respirable Dust Sample - Sr. No. 722-J-23	12/12/2024	20/12/2025
2	Fine Particulate Sampler - Sr. No. 1372-J-23	19/12/2024	18/12/2025
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	



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/25/1003	Test Report Date	19/09/2025
Customer Name and Address	M/s. VEDANTA LIMITED IRON AND COKE PLANTS, AMONA AND NAVELIM, BICHOLIM – GOA.		
Letter Ref / Date .	As per P.O. No. PO/2025/05/06288 (4920077644) date 07/05/2025.		
Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	16/09/2025	Analysis Period	16/09/2025 To 19/09/2025

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Siddhartha Caves, Surla
Duration of Sampling [Hrs]	24
Average Ambient Temperature [°C]	27
Average Relative Humidity [%]	90

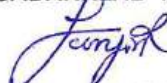
ANALYSIS REPORT :-

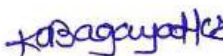
Parameters	Unit	Results	*N.A.A.Q.S.	Methods
PM ₁₀	µg/m ³	37.49	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	17.23	60.0	IS 5182 (Part XXIV) 2019
SO ₂	µg/m ³	< 20	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	10.04	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.62	4.0 for 1 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.06	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	< 20	180.0 for 1 Hrs.	IS 5182 (Part IX) 2019
Ammonia	µg/m ³	< 20	400.0	IS 5182 (Part XXV) 2018
Benzene	µg/m ³	< 1.0	5.0**	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.5	1.0**	IS 5182 (Part XII):2004
Arsenic	ng/m ³	< 0.4	6.0**	IS 5182 (Part XXII):2004
Nickel	ng/m ³	1.35	20.0**	IS 5182 (Part XXI):2020

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

End

For GADARK LAB PVT. LTD.


AUTHORISED SIGNATORY
[SANJIV V. RAJADHYAKSHA]


CHECKED BY

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.

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Sr. No.	Instrument Type	Calibrated On	Calibration Due Date
1	Respirable Dust Sample - Sr. No. 721-J-23	12/12/2024	20/12/2025
2	Fine Particulate Sampler - Sr. No. 1372-J-23	19/12/2024	18/12/2025
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	



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/25/1004	Test Report Date	19/09/2025
Customer Name and Address	M/s. VEDANTA LIMITED IRON AND COKE PLANTS, AMONA AND NAVELIM, BICHOLIM – GOA.		
Letter Ref / Date .	As per P.O. No. PO/2025/05/06288 (4920077644) date 07/05/2025.		
Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	16/09/2025	Analysis Period	16/09/2025 To 19/09/2025

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Mosque, Surla
Duration of Sampling [Hrs]	24
Average Ambient Temperature [°C]	27
Average Relative Humidity [%]	90


ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Methods
PM ₁₀	µg/m ³	38.46	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	16.94	60.0	IS 5182 (Part XXIV) 2019
SO ₂	µg/m ³	< 20	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	10.29	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.61	4.0 for 1 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.04	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	< 20	180.0 for 1 Hrs.	IS 5182 (Part IX) 2019
Ammonia	µg/m ³	< 20	400.0	IS 5182 (Part XXV) 2018
Benzene	µg/m ³	< 1.0	5.0**	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.5	1.0**	IS 5182 (Part XII):2004
Arsenic	ng/m ³	< 0.4	6.0**	IS 5182 (Part XXII):2004
Nickel	ng/m ³	< 0.4	20.0**	IS 5182 (Part XXI):2020

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

End

For GADARK LAB PVT. LTD.


AUTHORISED SIGNATORY
[SANJIV V. RAJADHYAKSHA]


CHECKED BY

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 Reports.
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.

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Sr. No.	Instrument Type	Calibrated On	Calibration Due Date
1	Respirable Dust Sample - Sr. No. 722-J-23	12/12/2024	20/12/2025
2	Fine Particulate Sampler - Sr. No. 1372-J-23	19/12/2024	18/12/2025
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	