



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/7.8/02

Test Report No.	GA/VEN/25/1112	Test Report Date	13/10/2025
Customer Name and Address	M/S. VEDANTA LIMITED PIG IRON PLANT SURVEY NOS. 29/1, 31/1, 27, 39, 41, 44/3, 42/1, 43/1, 54, 56/17, AMONA, BICHOLIM-GOIA		
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	09/10/2025	Analysis Period	09/10/2025 To 13/10/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Bag house of Ladle dumping chamber of Blast Furnace 1 & 2
Date of Sample collection	09/10/2025
Stack Diameter [Meter]	1.4
Height From Ground Level [Meter]	30.0
Shape	Round
Temperature of flue gas [°C]	53
Average flue gas velocity [m/s]	4.6
Average volume of flue gas discharged [Nm ³ /hr]	23407

ANALYSIS REPORT :

Parameters	Unit	Results	Limits*	Methods
Total Particulate Matter (TPM)	mg/Nm ³	4.1	30	IS 11255 (Part I) 1985

Limits*: GSPCB Consent No.12/2024-PCB/2197149/R00015270

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[JAGANNATH S. PARAB]

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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
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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	Stack Kit No. Polltech – PEM- SMK10L	03/12/2024	03/12/2025
2	Analytical Balance – Sr. No. GL/EQ/BAL/02	10/06/2025	09/06/2026
3	Gas Chromatograph – Model Thermo-Fisher, Trace 1110	10/05/2025	09/05/2026
4	UV Spectrophotometer Model – UV - 3092, ID No. GL/EQ/UV2	04/08/2025	03/11/2025



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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/VEN/25/1113	Test Report Date	13/10/2025
Customer Name and Address	M/s. VEDANTA LIMITED PIG IRON PLANT SURVEY NOS. 29/1, 31/1,27,39,41,44/3,42/1, 43/1,54,56/17, AMONA, 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	09/10/2025	Analysis Period	09/10/2025 To 13/10/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Bag House of Blast Furnace 1
Date of Sample collection	09/10/2025
Stack Diameter [Meter]	1.65
Height From Ground Level [Meter]	30.0
Shape	Round
Temperature of flue gas [°C]	57
Average flue gas velocity [m/s]	10.4
Average volume of flue gas discharged [Nm ³ /hr]	72163

ANALYSIS REPORT :

Parameters	Unit	Results	Limits*	Methods
Total Particulate Matter (TPM)	mg/Nm ³	3.9	30	IS 11255 (Part I) 1985

Limits*: GSPCB Consent No.12/2024-PCB/2197149/R00015270

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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Sr. No.	Instrument Type	Calibrated On	Calibration Due Date
1	Stack Kit No. – Make – Polltech, PEM-SMK-10	03/12/2024	03/12/2025
2	Analytical Balance – Sr. No. GL/EQ/BAL/02	10/06/2025	09/06/2026
3	Gas Chromatograph – Model Thermo-Fisher, Trace 1110	10/05/2025	09/05/2026
4	UV Spectrophotometer Model – UV - 3092, ID No. GL/EQ/UV2	04/08/2025	03/11/2025



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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/VEN/25/1114	Test Report Date	13/10/2025
Customer Name and Address	M/s. VEDANTA LIMITED PIG IRON PLANT SURVEY NOS. 29/1, 31/1,27,39,41,44/3,42/1, 43/1,54,56/17, AMONA, 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	09/10/2025	Analysis Period	09/10/2025 To 13/10/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Bag House of Blast Furnace 2
Date of Sample collection	09/10/2025
Stack Diameter [Meter]	2.00
Height From Ground Level [Meter]	30.0
Shape	Round
Temperature of flue gas [°C]	48
Average flue gas velocity [m/s]	10.8
Average volume of flue gas discharged [Nm ³ /hr]	114143

ANALYSIS REPORT :

Parameters	Unit	Results	Limits*	Methods
Total Particulate Matter (TPM)	mg/Nm ³	5.1	30	IS 11255 (Part I) 1985

Limits*: GSPCB Consent No.12/2024-PCB/2197149/R00015270.

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2	Analytical Balance – Sr. No. GL/EQ/BAL/02	10/06/2025	09/06/2026
3	Gas Chromatograph – Model Thermo-Fisher, Trace 1110	10/05/2025	09/05/2026
4	UV Spectrophotometer Model – UV - 3092, ID No. GL/EQ/UV2	04/08/2025	03/11/2025



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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/VEN/25/116	Test Report Date	14/10/2025
Customer Name and Address	M/S. VEDANTA LIMITED PIG IRON PLANT SURVEY NOS. 29/1, 31/1,27,39,41,44/3,42/1, 43/1,54,56/17, AMONA, 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	10/10/2025	Analysis Period	10/10/2025 To 14/10/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Hot blast Stove of Blast Furnace 2
Date of Sample collection	10/10/2025
Stack Diameter [Meter]	1.77
Height From Ground Level [Meter]	45
Shape	Round
Temperature of flue gas [°C]	165
Average flue gas velocity [m/s]	9.0
Average volume of flue gas discharged [Nm ³ /hr]	54428

ANALYSIS REPORT :

Parameters	Unit	Results	Limits *	Methods
Total Particulate Matter (TPM)	mg/Nm ³	13.7	30	IS 11255 (Part I) 1985
Sulphur Dioxide	mg/Nm ³	24.91	250	IS 11255 (Part II) 1985
Oxides of Nitrogen	mg/Nm ³	25.04	150	IS 11255 (Part VII) 2005

Limits*: Consent No.12/2024-PCB/2197149/R00015270.

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/VEN/25/1115	Test Report Date	14/10/2025
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Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	10/10/2025	Analysis Period	10/10/2025 To 14/10/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Hot blast Stove of Blast Furnace 1
Date of Sample collection	10/10/2025
Stack Diameter [Meter]	1.94
Height From Ground Level [Meter]	45
Shape	Round
Temperature of flue gas [°C]	161
Average flue gas velocity [m/s]	9.2
Average volume of flue gas discharged [Nm ³ /hr]	67121

ANALYSIS REPORT :

Parameters	Unit	Results	Limits *	Methods
Total Particulate Matter (TPM)	mg/Nm ³	11.8	30	IS 11255 (Part I) 1985
Sulphur Dioxide	mg/Nm ³	33.21	250	IS 11255 (Part II) 1985
Oxides of Nitrogen	mg/Nm ³	40.97	150	IS 11255 (Part VII) 2005

Limits*: Consent No.12/2024-PCB/2197149/R00015270.

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