



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/25/0841	Test Report Date	18/08/2025
Customer Name and Address	M/s. VEDANTA LIMITED. (PIG IRON EXPANSION PLANT). SURVEY NO. 61/1,61/(PART),120/1,120/2(PART),177(PART),205(PART), 206(PART),207(PART), VILLAGE 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	12/08/2025	Analysis Period	12/08/2025 To 18/08/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Tail End ESP
Date of Sample collection	11/08/2025
Stack Diameter [Meter]	2.7
Height From Ground Level [Meter]	30.0
Shape	Round
Temperature of flue gas [°C]	82
Average flue gas velocity [m/s]	12.8
Average volume of flue gas discharged [Nm ³ /hr]	263249

ANALYSIS REPORT:

Parameters	Unit	Results	Limits*	Methods
Total Particulate Matter (TPM)	mg/Nm ³	26.8	100	IS 11255(Part I)

Limits*:GSPCB Consent No. 12/2024-PCB/2445089/R00016491.

End

For GADARKLAB PVT. LTD.

AUTHORISED SIGNATORY
[JAGANNATH S. PARAB]

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Note :

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3. Samples will be preserved for a period 15 days from the delivery of Test Report.
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5. Customer complaint register is available at laboratory.
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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/IN/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/25/0842	Test Report Date	14/08/2025
Customer Name and Address	M/s. VEDANTA LIMITED. (PIG IRON EXPANSION PLANT). SURVEY NO.61/1,61/(PART),120/1,120/2(PART),177(PART),205(PART), 206(PART),207(PART), VILLAGE 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	13/08/2025	Analysis Period	13/08/2025 To 14/08/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Cast House
Date of Sample collection	12/08/2025
Stack Diameter [Meter]	2.8
Height From Ground Level [Meter]	30.0
Shape	Round
Temperature of flue gas [°C]	50
Average flue gas velocity [m/s]	8.5
Average volume of flue gas discharged [Nm ³ /hr]	174268

ANALYSIS REPORT :

Parameters	Unit	Results	Limits*	Methods
Total Particulate Matter (TPM)	mg/Nm ³	5.3	100	IS 11255(Part I)

Limits*: GSPCB Consent No. 12/2024-PCB/2445089/R00016491.

End

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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



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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/VEN/25/0943	Test Report Date	13/08/2025
Customer Name and Address	M/s. VEDANTA LIMITED. (PIG IRON EXPANSION PLANT). SURVEY NO. 61/1,61/(PART),120/1,120/2(PART),177(PART),205(PART), 206(PART),207(PART), VILLAGE 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	12/08/2025	Analysis Period	12/08/2025 To 13/08/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Ferro Silicon Stack
Date of Sample collection	11/08/2025
Stack Diameter [Meter]	1.8
Height From Ground Level [Meter]	30.0
Shape	Round
Temperature of flue gas [°C]	99
Average flue gas velocity [m/s]	13.3
Average volume of flue gas discharged [Nm ³ /hr]	97836

ANALYSIS REPORT:

Parameters	Unit	Results	Limits*	Methods
Total Particulate Matter (TPM)	mg/Nm ³	10.3	100	IS 11255(Part I)

Limits*:GSPCB Consent No. 12/2024-PCB/2445089/R00016491.

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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/IN/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/25/0840	Test Report Date	14/08/2025
Customer Name and Address	M/s. VEDANTA LIMITED. (PIG IRON EXPANSION PLANT). SURVEY NO. 61/1,61/(PART),120/1,120/2(PART),177(PART),205(PART), 206(PART),207(PART), VILLAGE 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	12/08/2025	Analysis Period	12/08/2025 To 14/08/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Flux & Fuel De-dusting
Date of Sample collection	11/08/2025
Stack Diameter [Meter]	1.62
Height From Ground Level [Meter]	30.0
Shape	Round
Temperature of flue gas [°C]	49
Average flue gas velocity [m/s]	7.0
Average volume of flue gas discharged [Nm ³ /hr]	47837

ANALYSIS REPORT :

Parameters	Unit	Results	Limits*	Methods
Total Particulate Matter (TPM)	mg/Nm ³	5.5	100	IS 11255(Part I)

Limits*: GSPCB Consent No. 12/2024-PCB/2445089/R00016491.

End

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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



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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/VEN/25/0844	Test Report Date	18/08/2025
Customer Name and Address	M/s. VEDANTA LIMITED. (PIG IRON EXPANSION PLANT). SURVEY NO. 61/1,61/(PART),120/1,120/2(PART),177(PART),205(PART), 206(PART),207(PART), VILLAGE 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	13/08/2025	Analysis Period	13/08/2025 To 18/08/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	HOT BLAST STOVE 3
Date of Sample collection	12/08/2025
Stack Diameter [Meter]	3.0
Height From Ground Level [Meter]	60
Shape	Round
Temperature of flue gas [°C]	190
Average flue gas velocity [m/s]	5.1
Average volume of flue gas discharged [Nm ³ /hr]	88864

ANALYSIS REPORT :

Parameters	Unit	Results	Limits *	Methods
Total Particulate Matter (TPM)	mg/Nm ³	16.7	50	IS 11255 (Part I) 1985
Sulphur Dioxide	mg/Nm ³	24.33	250	IS 11255 (Part II) 1985
Oxides of Nitrogen	mg/Nm ³	30.49	150	IS 11255 (Part VII) 2005
Carbon Monoxide	% (V/V)	0.008	1 % (Max)	IS 13270 : 1992

Limits*: Consent No. 12/2024-PCB/2445089/R00016491.

End

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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/IN/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/25/0944	Test Report Date	13/08/2025
Customer Name and Address	M/S. VEDANTA LTD. VALUE ADDED BUSINES, PIG IRON EXPANSION PLANT, SURVEY NO-61/1, 61/3, 62, 63(PART),120/1, 120/2(PART), 177(PART)205(PART), 206(PART), 207(PART), NAVELIM VILLAGE 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	12/08/2025	Analysis Period	12/08/2025 To 13/08/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Head End ESP
Date of Sample collection	11/08/2025
Stack Diameter [Meter]	6.8
Height From Ground Level [Meter]	100.0
Shape	Round
Temperature of flue gas [°C]	147
Average flue gas velocity [m/s]	11.7
Average volume of flue gas discharged [Nm ³ /hr]	1086939

ANALYSIS REPORT:

Parameters	Unit	Results	Limits*	Methods
TPM / SPM	mg/Nm ³	21.1	100	IS 11255(Part I)

Limits*:GSPCB Consent No. 12/2024-PCB/2445089/R00016491.

End

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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



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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/VEN/25/0838	Test Report Date	14/08/2025
Customer Name and Address	M/s. VEDANTA LIMITED. (PIG IRON EXPANSION PLANT). SURVEY NO. 61/1,61/(PART),120/1,120/2(PART),177(PART),205(PART), 206(PART),207(PART), VILLAGE 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	12/08/2025	Analysis Period	12/08/2025 To 14/08/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Proportioning De-dusting
Date of Sample collection	11/08/2025
Stack Diameter [Meter]	2.5
Height From Ground Level [Meter]	30.0
Shape	Round
Temperature of flue gas [°C]	43
Average flue gas velocity [m/s]	9.4
Average volume of flue gas discharged [Nm ³ /hr]	157170

ANALYSIS REPORT :

Parameters	Unit	Results	Limits*	Methods
Total Particulate Matter (TPM)	mg/Nm ³	4.6	100	IS 11255(Part I)

Limits*: GSPCB Consent No. 12/2024-PCB/2445089/R00016491.

End

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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



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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/VEN/25/0843	Test Report Date	14/08/2025
Customer Name and Address	M/s. VEDANTA LIMITED. (PIG IRON EXPANSION PLANT). SURVEY NO. 61/1,61/(PART),120/1,120/2(PART),177(PART),205(PART), 206(PART),207(PART), VILLAGE 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	13/08/2025	Analysis Period	13/08/2025 To 14/08/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Pulverized coal injector stack
Date of Sample collection	12/08/2025
Stack Diameter [Meter]	1.0
Height From Ground Level [Meter]	37.5
Temperature of flue gas [°C]	148
Average flue gas velocity [m/s]	13.1
Average volume of flue gas discharged [Nm ³ /hr]	26266

ANALYSIS REPORT:

Parameters	Unit	Results	Limits *	Methods
Total Particulate Matter (TPM)	mg/Nm ³	9.0	100	IS 11255(Part I)

*Limits: GSPCB Consent No. 12/2024-PCB/2445089/R00016491.

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Sr. No.	Instrument Type	Calibrated On	Calibration Due Date
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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/VEN/25/0839	Test Report Date	14/08/2025
Customer Name and Address	M/s. VEDANTA LIMITED. (PIG IRON EXPANSION PLANT). SURVEY NO. 61/1,61/(PART),120/1,120/2(PART),177(PART),205(PART), 206(PART),207(PART), VILLAGE NAVELIM, BICHOLIM – GOA.		
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Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	12/08/2025	Analysis Period	12/08/2025 To 14/08/2025

8

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Screening De-dusting
Date of Sample collection	11/08/2025
Stack Diameter [Meter]	2.5
Height From Ground Level [Meter]	30.0
Shape	Round
Temperature of flue gas [°C]	94
Average flue gas velocity [m/s]	6.1
Average volume of flue gas discharged [Nm ³ /hr]	87540

ANALYSIS REPORT :

Parameters	Unit	Results	Limits*	Methods
Total Particulate Matter (TPM)	mg/Nm ³	7.4	100	IS 11255(Part I)

Limits*: GSPCB Consent No. 12/2024-PCB/2445089/R00016491.
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Sr. No.	Instrument Type	Calibrated On	Calibration Due Date
1	Stack Kit No. Polltech – PEM- SMK10L	03/12/2024	03/12/2025



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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/VEN/25/0845	Test Report Date	14/08/2025
Customer Name and Address	M/s. VEDANTA LIMITED. (PIG IRON EXPANSION PLANT). SURVEYNO.61/1,61/(PART),120/1,120/2(PART),177(PART),205(PART), 206(PART),207(PART), VILLAGE NVELIM, BICHOLIM – GOA.		
Letter Ref./Date	As per dated PO/2025/05/06288 (4920077644) date 07/05/2025.		
Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	13/08/2025	Analysis Period	13/08/2025 To 14/08/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Stock House Dedusting Stack
Date of Sample collection	12/08/2025
Stack Diameter [Meter]	2.8
Height From Ground Level [Meter]	30.0
Shape	Round
Temperature of flue gas [°C]	69
Average flue gas velocity [m/s]	7.1
Average volume of flue gas discharged [Nm ³ /hr]	137252

ANALYSIS REPORT :

Parameters	Unit	Results	Limits*	Methods
Total Particulate Matter (TPM)	mg/Nm ³	7.5	100	IS 11255(Part I)

Limits*: GSPCB Consent No. 12/2024-PCB/2445089/R00016491.

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.

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