



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/25/05128	Test Report Date	31/05/2025
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	29/05/2025	Analysis Period	29/05/2025 To 31/05/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Stock House Dedusting Stack
Date of Sample collection	28/05/2025
Stack Diameter [Meter]	2.8
Height From Ground Level [Meter]	30.0
Shape	Round
Temperature of flue gas [°C]	48
Average flue gas velocity [m/s]	6.9
Average volume of flue gas discharged [Nm ³ /hr]	141549

ANALYSIS REPORT :

Parameters	Unit	Results	Limits*	Methods
Particulate Matter (PM)	mg/Nm ³	8.2	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]


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Note :

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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
2	Digital Electronic Balance – Sr. No. GL/IN/Bal-02	29/06/2024	28/06/2025
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	03/05/2025	02/08/2025



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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/VEN/25/05126	Test Report Date	02/06/2025
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	28/05/2025	Analysis Period	29/05/2025 To 02/06/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	HOT BLAST STOVE 3
Date of Sample collection	28/05/2025
Stack Diameter [Meter]	3.0
Height From Ground Level [Meter]	60
Shape	Round
Temperature of flue gas [°C]	152
Average flue gas velocity [m/s]	5.1
Average volume of flue gas discharged [Nm ³ /hr]	91055

ANALYSIS REPORT :

Parameters	Unit	Results	Limits *	Methods
Particulate Matter (PM)	mg/Nm ³	12.5	50	Laboratory Analytical Techniques/80/2013-14 CPCB
SO ₂	mg/Nm ³	32.84	250	Laboratory Analytical Techniques/80/2013-14 CPCB
NO _x	mg/Nm ³	26.31	150	Laboratory Analytical Techniques/80/2013-14 CPCB
CO	% (V/V)	0.009	1 % (Max)	APHA Edition II-134

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

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[JAGANNATH S PARAB]

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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	Digital Electronic Balance – Sr. No. GL/IN/Bal-02	29/06/2024	28/06/2025
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	03/05/2025	02/08/2025



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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/EN/25/05127	Test Report Date	31/05/2025
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	28/05/2025	Analysis Period	29/05/2025 To 31/05/2025

1

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Cast House
Date of Sample collection	28/05/2025
Stack Diameter [Meter]	2.8
Height From Ground Level [Meter]	30.0
Shape	Round
Temperature of flue gas [°C]	48
Average flue gas velocity [m/s]	8.5
Average volume of flue gas discharged [Nm ³ /hr]	174942

ANALYSIS REPORT :

Parameters	Unit	Results	Limits*	Methods
Particulate Matter (PM)	mg/Nm ³	4.2	100	IS 11255(Part I)

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

End

For GADARK LAB PVT. LTD.

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[JAGANNATH S. PARAB]

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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	Digital Electronic Balance – Sr. No. GL/IN/Bal-02	29/06/2024	28/06/2025
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	03/05/2025	02/08/2025



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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/VEN/25/05149	Test Report Date	31/05/2025
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	28/05/2025	Analysis Period	29/05/2025 To 31/05/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	FERROSILICON BAG FILTER STACK
Date of Sample collection	28/05/2025
Stack Diameter [Meter]	1.8
Height From Ground Level [Meter]	30.0
Shape	Round
Temperature of flue gas [°C]	101
Average flue gas velocity [m/s]	13.4
Average volume of flue gas discharged [Nm³/hr]	97604

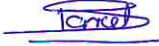
ANALYSIS REPORT:

Parameters	Unit	Results	Limits*	Methods
Particulate Matter (PM)	mg/Nm3	9.1	30	IS 11255(Part I)

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

End

For GADARKLAB PVT. LTD.


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[JAGANNATH S. PARAB]


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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	Digital Electronic Balance – Sr. No. GL/IN/Bal-02	29/06/2024	28/06/2025
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	03/05/2025	02/08/2025



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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/VEN/25/05125	Test Report Date	31/05/2025
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	27/05/2025	Analysis Period	28/05/2025 To 31/05/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Flux & Fuel De - dusting Stack
Date of Sample collection	27/05/2025
Stack Diameter [Meter]	1.62
Height From Ground Level [Meter]	30.0
Shape	Round
Temperature of flue gas [°C]	47
Average flue gas velocity [m/s]	6.9
Average volume of flue gas discharged [Nm ³ /hr]	47963

ANALYSIS REPORT :

Parameters	Unit	Results	Limits*	Methods
Particulate Matter (PM)	mg/Nm ³	6.5	100	IS 11255(Part I)

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

End

For GADARK LAB PVT. LTD.

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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	Digital Electronic Balance – Sr. No. GL/IN/Bal-02	29/06/2024	28/06/2025
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	03/05/2025	02/08/2025



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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/VEN/25/05121	Test Report Date	31/05/2025
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	27/05/2025	Analysis Period	28/05/2025 To 31/05/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Tail End ESP
Date of Sample collection	27/05/2025
Stack Diameter [Meter]	2.7
Height From Ground Level [Meter]	30.0
Shape	Round
Temperature of flue gas [°C]	103
Average flue gas velocity [m/s]	13.1
Average volume of flue gas discharged [Nm ³ /hr]	213867

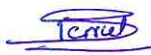
ANALYSIS REPORT:

Parameters	Unit	Results	Limits*	Methods
Particulate Matter (PM)	mg/Nm ³	22.5	100	IS 11255(Part I)

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

End

For GADARKLAB PVT. LTD.


AUTHORISED SIGNATORY
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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	Digital Electronic Balance – Sr. No. GL/IN/Bal-02	29/06/2024	28/06/2025
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	03/05/2025	02/08/2025



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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/VEN/25/05124	Test Report Date	31/05/2025
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	27/05/2025	Analysis Period	28/05/2025 To 31/05/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Head End ESP
Date of Sample collection	27/05/2025
Stack Diameter [Meter]	6.8
Height From Ground Level [Meter]	100.0
Shape	Round
Temperature of flue gas [°C]	153
Average flue gas velocity [m/s]	11.8
Average volume of flue gas discharged [Nm ³ /hr]	1076588

ANALYSIS REPORT:

Parameters	Unit	Results	Limits*	Methods
TPM / SPM	mg/Nm ³	11.6	100	IS 11255(Part I)

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

End

For GADARKLAB PVT. LTD.

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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	Digital Electronic Balance – Sr. No. GL/IN/Bal-02	29/06/2024	28/06/2025
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	03/05/2025	02/08/2025



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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/VEN/25/05122	Test Report Date	31/05/2025
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	27/05/2025	Analysis Period	28/05/2025 To 31/05/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Proportioning De-dusting
Date of Sample collection	27/05/2025
Stack Diameter [Meter]	2.5
Height From Ground Level [Meter]	30.0
Shape	Round
Temperature of flue gas [°C]	57
Average flue gas velocity [m/s]	9.7
Average volume of flue gas discharged [Nm ³ /hr]	154811

ANALYSIS REPORT :

Parameters	Unit	Results	Limits*	Methods
Particulate Matter (PM)	mg/Nm ³	3.8	100	IS 11255(Part I)

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

End

For GADARK LAB PVT. LTD.

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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	Digital Electronic Balance – Sr. No. GL/IN/Bal-02	29/06/2024	28/06/2025
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	03/05/2025	02/08/2025



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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/VEN/25/05123	Test Report Date	31/05/2025
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	27/05/2025	Analysis Period	28/05/2025 To 31/05/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Screening De-dusting
Date of Sample collection	27/05/2025
Stack Diameter [Meter]	2.5
Height From Ground Level [Meter]	30.0
Shape	Round
Temperature of flue gas [°C]	101
Average flue gas velocity [m/s]	6.2
Average volume of flue gas discharged [Nm ³ /hr]	86747

ANALYSIS REPORT :

Parameters	Unit	Results	Limits*	Methods
Particulate Matter (PM)	mg/Nm ³	6.9	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
2	Digital Electronic Balance – Sr. No. GL/IN/Bal-02	29/06/2024	28/06/2025
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	03/05/2025	02/08/2025



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/25/05129	Test Report Date	31/05/2025
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	29/05/2024	Analysis Period	29/05/2025 To 31/05/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	PULVERISED COAL INJECTION STACK
Date of Sample collection	28/05/2025
Stack Diameter [Meter]	1.0
Height From Ground Level [Meter]	37.5
Temperature of flue gas [°C]	155
Average flue gas velocity [m/s]	13.2
Average volume of flue gas discharged [Nm ³ /hr]	26034

ANALYSIS REPORT:

Parameters	Unit	Results	Limits *	Methods
Particulate Matter (PM)	mg/Nm ³	8.7	100	IS 11255(Part I)

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

End

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