



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/25/1324	Test Report Date	18/11/2025
Customer Name and Address	M/S. VEDANTA LTD. VALUE ADDED BUSINESS, 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	15/11/2025	Analysis Period	15/11/2025 To 18/11/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Cast House
Date of Sample collection	14/11/2025
Stack Diameter [Meter]	2.8
Height From Ground Level [Meter]	30.0
Shape	Round
Temperature of flue gas [°C]	47
Average flue gas velocity [m/s]	8.5
Average volume of flue gas discharged [Nm ³ /hr]	175076

ANALYSIS REPORT :

Parameters	Unit	Results	Limits*	Methods
Total Particulate Matter (TPM)	mg/Nm ³	15.5	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]

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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	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	03/11/2025	02/02/2026



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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/VEN/25/1296	Test Report Date	15/11/2025
Customer Name and Address	M/s. VEDANTA LIMITED. VALUE ADDED BUSINES. 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	13/11/2025	Analysis Period	13/11/2025 To 15/11/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Ferro Silicon Stack
Date of Sample collection	12/11/2025
Stack Diameter [Meter]	1.80
Height From Ground Level [Meter]	30.0
Shape	Round
Temperature of flue gas [°C]	109
Average flue gas velocity [m/s]	13.5
Average volume of flue gas discharged [Nm ³ /hr]	96561

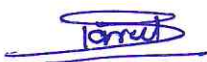
ANALYSIS REPORT:

Parameters	Unit	Results	Limits*	Methods
Total Particulate Matter (TPM)	mg/Nm ³	18.4	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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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	03/11/2025	02/02/2026



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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/VEN/25/1320	Test Report Date	17/11/2025
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	14/11/2025	Analysis Period	14/11/2025 To 17/11/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Flux & Fuel De-dusting
Date of Sample collection	13/11/2025
Stack Diameter [Meter]	1.62
Height From Ground Level [Meter]	30.0
Shape	Round
Temperature of flue gas [°C]	53
Average flue gas velocity [m/s]	7.0
Average volume of flue gas discharged [Nm ³ /hr]	47521

ANALYSIS REPORT :

Parameters	Unit	Results	Limits*	Methods
Total Particulate Matter (TPM)	mg/Nm ³	16.2	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
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	03/11/2025	02/02/2026



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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/VEN/25/1318	Test Report Date	17/11/2025
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	14/11/2025	Analysis Period	14/11/2025 To 17/11/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Head End ESP
Date of Sample collection	13/11/2025
Stack Diameter [Meter]	6.8
Height From Ground Level [Meter]	100.0
Shape	Round
Temperature of flue gas [°C]	152
Average flue gas velocity [m/s]	11.8
Average volume of flue gas discharged [Nm ³ /hr]	1077288

ANALYSIS REPORT:

Parameters	Unit	Results	Limits*	Methods
TPM / SPM	mg/Nm ³	24.8	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	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	03/11/2025	02/02/2026



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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/VEN/25/1299	Test Report Date	15/11/2025
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	13/11/2025	Analysis Period	13/11/2025 To 15/11/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	HOT BLAST STOVE 3
Date of Sample collection	12/11/2025
Stack Diameter [Meter]	3.0
Height From Ground Level [Meter]	60
Shape	Round
Temperature of flue gas [°C]	184
Average flue gas velocity [m/s]	5.4
Average volume of flue gas discharged [Nm ³ /hr]	88828

ANALYSIS REPORT :

Parameters	Unit	Results	Limits *	Methods
Total Particulate Matter (TPM)	mg/Nm ³	18.5	50	IS 11255 (Part I) 1985
Sulphur Dioxide	mg/Nm ³	32.70	250	IS 11255 (Part II) 1985
Oxides of Nitrogen	mg/Nm ³	37.66	150	IS 11255 (Part VII) 2005
Carbon Monoxide	% (V/V)	0.028	1 % (Max)	IS 13270 : 1992

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

End

For GADARK LAB PVT. LTD.

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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	03/11/2025	02/02/2026



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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/VEN/25/1298	Test Report Date	15/11/2025
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	13/11/2025	Analysis Period	13/11/2025 To 15/11/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Proportioning De-dusting
Date of Sample collection	12/11/2025
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
Total Particulate Matter (TPM)	mg/Nm ³	22.1	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	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	03/11/2025	02/02/2026



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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/VEN/25/1300	Test Report Date	15/11/2025
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	13/11/2025	Analysis Period	13/11/2025 To 15/11/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Pulverized coal injector stack
Date of Sample collection	12/11/2025
Stack Diameter [Meter]	1.0
Height From Ground Level [Meter]	37.5
Temperature of flue gas [°C]	147
Average flue gas velocity [m/s]	13.2
Average volume of flue gas discharged [Nm ³ /hr]	26474

ANALYSIS REPORT:

Parameters	Unit	Results	Limits *	Methods
Total Particulate Matter (TPM)	mg/Nm ³	25.7	100	IS 11255(Part I)

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

End

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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
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Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	12/11/2025	Analysis Period	12/11/2025 To 14/11/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Screening De-dusting
Date of Sample collection	11/11/2025
Stack Diameter [Meter]	2.5
Height From Ground Level [Meter]	30.0
Shape	Round
Temperature of flue gas [°C]	106
Average flue gas velocity [m/s]	6.3
Average volume of flue gas discharged [Nm ³ /hr]	86992

ANALYSIS REPORT :

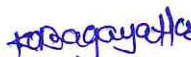
Parameters	Unit	Results	Limits*	Methods
Total Particulate Matter (TPM)	mg/Nm ³	20.4	100	IS 11255(Part I)

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

End

For GADARK LAB PVT. LTD.


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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	03/11/2025	02/02/2026



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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/VEN/25/1322	Test Report Date	15/11/2025
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 dated PO/2025/05/06288 (4920077644) date 07/05/2025.		
Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	14/11/2025	Analysis Period	13/11/2025 To 15/11/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Stock House Dedusting Stack
Date of Sample collection	13/11/2025
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]	6.9
Average volume of flue gas discharged [Nm ³ /hr]	141235

ANALYSIS REPORT :

Parameters	Unit	Results	Limits*	Methods
Total Particulate Matter (TPM)	mg/Nm ³	18.7	100	IS 11255(Part I) 1985

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	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	03/11/2025	02/02/2026



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/25/1292	Test Report Date	14/11/2025
Customer Name and Address	M/s. VEDANTA LIMITED. VALUE ADDED BUSINES 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	12/11/2025	Analysis Period	12/11/2025 To 14/11/2025

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Tail End ESP
Date of Sample collection	11/11/2025
Stack Diameter [Meter]	2.7
Height From Ground Level [Meter]	30.0
Shape	Round
Temperature of flue gas [°C]	91
Average flue gas velocity [m/s]	12.8
Average volume of flue gas discharged [Nm ³ /hr]	215686

ANALYSIS REPORT:

Parameters	Unit	Results	Limits*	Methods
Total Particulate Matter (TPM)	mg/Nm ³	27.9	100	IS 11255(Part I)

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

End

For GADARKLAB PVT. LTD.

AUTHORISED SIGNATORY
[JAGANNATH S. PARAB]

CHECKED BY

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