

The Sandur Manganese & Iron Ores Limited

(An ISO 9001:2015; ISO 14001:2015 and 45001:2018 certified company)
CIN: L85110KA1954PLC000759; Website: www.sandurgroup.com

REGISTERED OFFICE

'SATYALAYA', No.266
Ward No.1, Palace Road
Sandur - 583 119, Ballari District
Karnataka, India
Tel: +91 8395 260301/ 283173-199
Fax: +91 8395 260473



CORPORATE OFFICE

'SANDUR HOUSE', No.9
Bellary Road, Sadashivanagar
Bengaluru - 560 080
Karnataka, India
Tel: +91 80 4152 0176 - 79 / 4547 3000
Fax: +91 80 4152 0182

Ref No: SMIORE/PLANT/ENV/MR/2026-27/07

06/05/2026

To,
The Environmental Officer,
Regional Office KSPCB,
Shree Sai Sharana Plaza,
No. 71/A, 2nd Floor, Dam Road,
Hosapete, Vijayanagara- 583203

ಸ್ವೀಕೃತಿ
ಕೆ.ರಾ.ಮಾ.ನಿ. ಮಂಡಳಿ
ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ ವಿಜಯನಗರ ಪೊಸವಾಡೆ
ಸಂಖ್ಯೆ/ವಿಜಯನಗರ-5-20-2026

Sub: Submission of Environmental Monitoring Report **APRIL-2026**

Ref:

- 1) CFO No. AW-329576 PCB ID 29470, Dated 02.02.2022
- 2) Amended CFO No. AW-335581 PCB ID 29470, Dated 17.01.2023.

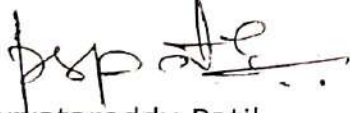
Dear Sir,

We are herewith submitting the Environmental Monitoring Report of M/s The Sandur Manganese & Iron Ores Limited for **April 2026** for your kind perusal.

Kindly acknowledge receipt of the same and oblige.

Thanking you,

For **The Sandur Manganese & Iron Ores Limited**


Parvatareddy Patil
Senior General Manager- Plant



Encl: Environmental Monitoring Report **April-2026**

MINES OFFICE: Deogiri - 583112, Sandur Taluk, Ballari District
Tel: +91 8395 271025 / 28 / 29 / 40; Fax: +91 8395 271066

PLANT OFFICE: Metal & Ferroalloy Plant, Vyasanakere, Mariyammanahalli - 583 222, Hosapete Taluk, Vijayanagara District
Tel: +91 8394 244450 / 244335



M/s. The Sandur Manganese & Iron Ores Ltd
(Metal & Ferro Alloys Plant)

ENVIRONMENTAL MONITORING REPORT



**Vyasanakere, Hanumanahalli Post, M.M.Halli
Hosapete-583222, Vijayanagara District,
Karnataka.**

APRIL-2026

Prepared by



GLOBAL ENVIRONMENT & MINING SERVICES LLP

NABL & MOEFCC Recognized Laboratory

(Consulting Engineers, Mine Designers, Geologists & Surveyors)

3rd main road, Basaveswara Badavane

HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)

Tel : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in

PREFACE

As per the conditions stipulated in the Consent for Establishment (CFE) and Consent for Operation (CFO), industries are required to monitor environmental parameters at specified frequencies and designated locations. The monitoring data must be submitted monthly to the respective State Pollution Control Board.

In line with this requirement, and as part of its commitment to environmental compliance and the health and safety of its employees and surrounding communities, **M/s. The Sandur Manganese & Iron Ores Ltd.** has engaged **M/s. Global Environment & Mining Services LLP, Hosapete**, to carry out comprehensive environmental monitoring. The scope of monitoring includes:

- Ambient Air Quality (AAQ) Monitoring
- Noise Level Monitoring
- Water Quality Analysis
- Stack Emissions Monitoring

All monitoring activities were carried out using standard sampling methodologies prescribed by the Central Pollution Control Board (CPCB) and in accordance with the frequencies and parameters outlined in the CFO conditions. The monitoring reports have been compiled accordingly and are being submitted to the Pollution Control Board as per compliance requirements.

We extend our sincere thanks to the officials of **M/s. The Sandur Manganese & Iron Ores Ltd.** for their valuable coordination and support during the sampling and reporting process.

for GLOBAL Environment & Mining Services LLP

Place: Hosapete

Date: 02.05.2026


Mallikarjuna S
Dy. Technical Manager



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GEMS

**GLOBAL ENVIRONMENT & MINING SERVICES LLP**

(Consulting Engineers, Mine designers, Geologist & Surveyors)

3rd Main Road, Basaveswara Badavane,**HOSAPETE - 583201**, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

**ANNEXURE-01
GEMS-LD/TF/11/01****ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA**

Name of the Industry : **M/s. The Sandur Manganese & Iron Ores Ltd.**
(Metal & Ferro Alloys Plant), Vyasankere,
Hanumanahalli Village, Hospet Taluk,
Vijayanagara Dist., Karnataka

Customer Reference : Workorder No. 4200011817 Dated:20.08.2025

Sample collected by : Global Environment & Mining Services LLP

Discipline : Chemical

Group : Atmospheric Pollution

Sample Type : Ambient Air Quality Monitoring

Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler

Month : **APRIL-2026**

Location : **A1-Near Existing AAQMS 01 (SMIORE School)**

Report Issued Date : **02.05.2026**

Report Number : **ULR-TC16180260000095F**

RESULTS

Parameters			PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	Ozone* (O ₃), [µg/m ³]	Ammonia (NH ₃) [µg/m ³]
Reference Method			IS:5182: 2006 (Part-23) (RF-2017)	IS 5182 (Part 24): 2019 (RF-2024)	IS:5182: 2001 (Part-2) Sec 1:2023	IS :5182: (Part-6) 2006 (RF-2017)	IS 5182 (Part 9): 1974	IS 5182 (Part 25) 2018
Date of Sampling	Date of Sample Received	Sample Code	Result	Result	Result	Result	Result	Result
03.04.2026	04.04.2026	107	65.87	18.54	8.40	12.22	0.00	<20.0
04.04.2026	05.04.2026	154	48.66	15.36	9.72	9.84	0.00	<20.0
10.04.2026	11.04.2026	363	53.84	14.85	7.88	9.66	0.00	<20.0
11.04.2026	12.04.2026	404	72.62	15.50	9.04	14.22	0.00	<20.0
17.04.2026	18.04.2026	510	64.86	13.84	10.44	13.88	0.00	<20.0
18.04.2026	19.04.2026	571	52.64	16.85	8.44	11.84	0.00	<20.0
24.04.2026	25.04.2026	739	54.65	14.26	11.25	13.46	0.00	<20.0
25.04.2026	26.04.2026	888	72.85	13.85	9.40	9.98	0.00	<20.0
27.04.2026	28.04.2026	956	63.85	14.25	9.45	9.44	0.00	<20.0
28.04.2026	29.04.2026	991	58.62	15.36	9.66	9.68	0.00	<20.0
Average			60.84	15.26	9.36	11.42	0.00	<20.0
Limits for Industrial, Residential, Rural, and other Areas			100	60	80	80	180	400
			24 hrs.	24 hrs.	24 hrs.	24 hrs.	1hr*	24 hrs.

Note: * Parameters were monitored for a period of 1 hr.

INFERENCE

As per NAAQMS Standards (2009),

Report Status: - Measured Values for the above parameters are within the limit.

****End of the Report****

Samreen P
Analysed By
Samreen P
Chemist

Mallikarjuna S
Verified by
Mallikarjuna S
Dy. Technical Manager

Note:

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
- Water Samples will be destroyed after 7 days, Waste Water After Analysis Discard the Samples, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7 days.
- This report is not to be reproduced wholly or in part & cannot be used as evidence in the Court of law & should not use any advertising media without special permission in writing.
- Total liability of our laboratory is limited to the Invoice amount. Any dispute arising out of this report is subject to Hosapete jurisdiction only.
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Website : www.gemslp.in

ANNEXURE-01
GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant), Vyasankere,
Hanumanahalli Village, Hospet Taluk,
Vijayanagara Dist., Karnataka

Customer Reference : Workorder No.4200011817 Dated:20.08.2025

Sample collected by : Global Environment & Mining Services LLP

Discipline : Chemical

Group : Atmospheric Pollution

Sample Type : Ambient Air Quality Monitoring

Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler

Month : APRIL-2026

Location : A1-Near Existing AAQMS 01 (SMIORE School)

Report Issued Date : 02.05.2026

Report Number : GEMS/SMIORE/2026-27/95

Parameters			Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Benzene (C ₆ H ₆), µg/m ³
Reference Method			IS 5182 (Part 22): 2004(RA 2014)	IS 5182 (Part 26): 2020	GEMS /SOP/87	IS 5182 (Part XII) 2006(RA 2017)	GEMS/SOP/86	IS 5182 (Part XI) 2006(RA 2017)
Date of Sampling	Date of Sampling	Sample Code	Result	Result	Result	Result	Result	Result
03.04.2026	04.04.2026	107	<0.01	<0.1	<0.5	<0.5	0.15	<1.0
04.04.2026	05.04.2026	154	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
10.04.2026	11.04.2026	363	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
11.04.2026	12.04.2026	404	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
17.04.2026	18.04.2026	510	<0.01	<0.1	<0.5	<0.5	0.14	<1.0
18.04.2026	19.04.2026	571	<0.01	<0.1	<0.5	<0.5	0.17	<1.0
24.04.2026	25.04.2026	739	<0.01	<0.1	<0.5	<0.5	0.16	<1.0
25.04.2026	26.04.2026	888	<0.01	<0.1	<0.5	<0.5	0.08	<1.0
27.04.2026	28.04.2026	956	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
28.04.2026	29.04.2026	991	<0.01	<0.1	<0.5	<0.5	0.09	<1.0
Average			<0.01	<0.1	<0.5	<0.5	0.13	<1.0
Limits for Industrial, Residential, Rural, and other Areas			1.0 24 hrs.	20 Annual	6 Annual	1 Annual	4 1 hr.	5 Annual

Note: * Parameters were monitored for a period of 1 hr.

INFERENCE	As per NAAQMS Standards (2009), Report Status: - Measured Values for the above parameters are within the limit.
-----------	--

End of the Report

Samreen P
Analysed By
Samreen P
Chemist

Mallikarjuna S
Verified By
Mallikarjuna S
Dy. Technical Manager

- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
- Recognized by Government of Karnataka, Maharashtra, Goa for DGPS survey





Near smiore school

Time: 10/04/2026 09:05:41AM

Altitude: 422.4m

Lat/Long: Lat 1511.31768 Long
7622.83024



Near smiore school

Time: 11/04/2026 08:52:55AM

Altitude: 422.4m

Lat/Long: Lat 1511.31768 Long
7622.83024







Near smiore school

Time: 27/04/2026 09:19:30AM

Altitude: 422.4m

Lat/Long: Lat 1511.31768 Long
7622.83024



Near smiore school

Time: 28/04/2026 09:16:32AM

Altitude: 422.4m

Lat/Long: Lat 1511.31768 Long
7622.83024



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TC-16180

ANNEXURE-02 GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant), Vyasanakere,
Hanumanahalli Village, Hospet Taluk,
Vijayanagara Dist., Karnataka

Customer Reference : Work order No. 4200011817 Dated: 20.08.2025

Sample collected by : Global Environment & Mining Services LLP

Discipline : Chemical

Group : Atmospheric Pollution

Sample Type : Ambient Air Quality Monitoring

Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler

Month : APRIL-2026

Location : A2 - Existing Water Reservoir (Near WTP Plant)

Duration of Monitoring : 24 Hour

Report Issued Date : 02.05.2026

Report Number : ULR-TC16180260000096F

RESULTS

Parameters			PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	Ozone* (O ₃), [µg/m ³]	Ammonia (NH ₃) [µg/m ³]
Reference Method			IS:5182: 2006 (Part-23) (RF-2017)	IS 5182 (Part 24): 2019 (RF-2024)	IS:5182: 2001 (Part-2) Sec 1:2023	IS :5182: (Part-6) 2006 (RF-2017)	IS 5182 (Part 9): 1974	IS 5182 (Part 25) 2018
Date of Sampling	Date of Sample Received	Sample Code	Result	Result	Result	Result	Result	Result
03.04.2026	04.04.2026	108	52.39	15.48	8.24	9.98	3.44	<20.0
04.04.2026	05.04.2026	155	48.66	14.42	8.65	8.64	0.00	<20.0
10.04.2026	11.04.2026	364	59.46	9.94	7.74	8.35	0.00	<20.0
11.04.2026	12.04.2026	405	52.46	15.28	7.48	10.22	6.88	<20.0
17.04.2026	18.04.2026	511	54.85	9.40	12.54	10.85	9.50	<20.0
18.04.2026	19.04.2026	572	53.74	13.46	9.66	8.54	4.64	<20.0
24.04.2026	25.04.2026	740	46.97	15.29	9.42	9.99	0.00	<20.0
25.04.2026	26.04.2026	889	50.28	12.48	8.62	8.44	3.84	<20.0
27.04.2026	28.04.2026	957	51.28	14.28	8.52	9.48	0.00	<20.0
28.04.2026	29.04.2026	992	54.63	13.54	8.47	9.66	5.68	<20.0
Average			52.46	13.35	8.83	9.40	3.39	<20.0
Limits for Industrial, Residential, Rural, and other Areas			100	60	80	80	180	400
			24 hrs.	24 hrs.	24 hrs.	24 hrs.	1hr*	24 hrs.

Note: * Parameters were monitored for a period of 1 hr.

INFERENCE

As per NAAQMS Standards (2009),

Report Status: - Measured Values for the above parameters are within the limit.

****End of the Report****

Samreen P
Analysed By
Samreen P
Chemist

Mallikarjuna S
Verified By
Mallikarjuna S
Dy. Technical Manager

Note:

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ANNEXURE-02
GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

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(Metal & Ferro Alloys Plant), Vyasankere,
Hanumanahalli Village, Hospei Taluk,
Vijayanagara Dist., Karnataka

Customer Reference : Workorder No.4200011817 Dated:20.08.2025

Sample collected by : Global Environment & Mining Services LLP

Discipline : Chemical

Group : Atmospheric Pollution

Sample Type : Ambient Air Quality Monitoring

Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler

Month : **APRIL-2026**

Location : **A2 - Existing Water Reservoir (Near WTP Plant)**

Report Issued Date : **02.05.2026**

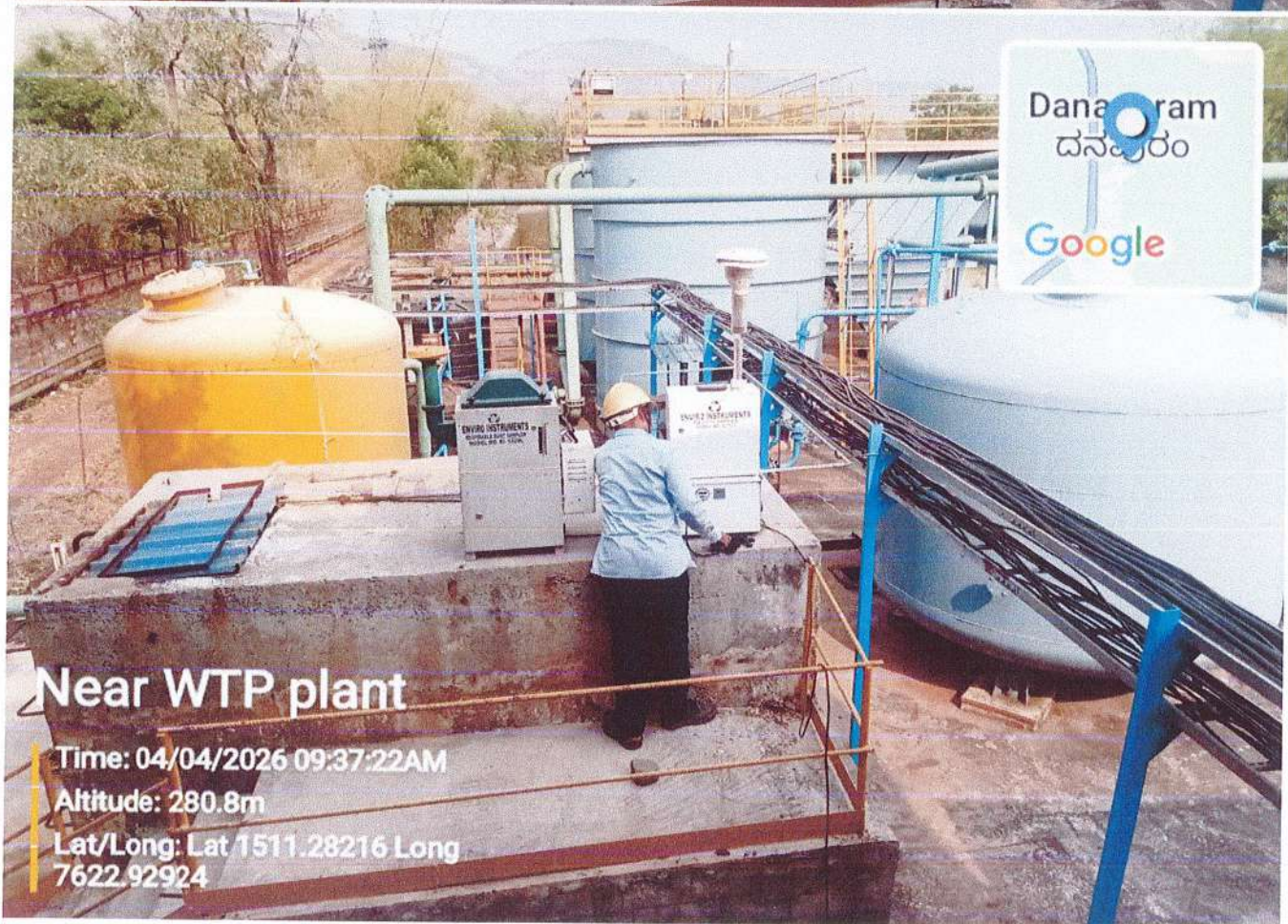
Report Number : **GEMS/SMIORE/2026-27/96**

Parameters			Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Benzene (C ₆ H ₆), µg/m ³
Reference Method			IS 5182 (Part 22): 2004(RA 2014)	IS 5182 (Part 26): 2020	GEMS /SOP/87	IS 5182 (Part XII) 2006(RA 2017)	GEMS/SOP/86	IS 5182 (Part XI) 2006(RA 2017)
Date of Sampling	Date of Sampling	Sample Code	Result	Result	Result	Result	Result	Result
03.04.2026	04.04.2026	108	<0.01	<0.1	<0.5	<0.5	0.15	<1.0
04.04.2026	05.04.2026	155	<0.01	<0.1	<0.5	<0.5	0.11	<1.0
10.04.2026	11.04.2026	364	0.16	<0.1	<0.5	<0.5	0.15	<1.0
11.04.2026	12.04.2026	405	0.14	<0.1	<0.5	<0.5	0.16	<1.0
17.04.2026	18.04.2026	511	<0.01	<0.1	<0.5	<0.5	0.17	<1.0
18.04.2026	19.04.2026	572	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
24.04.2026	25.04.2026	740	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
25.04.2026	26.04.2026	889	<0.01	<0.1	<0.5	<0.5	0.14	<1.0
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28.04.2026	29.04.2026	992	<0.01	<0.1	<0.5	<0.5	0.13	<1.0
Average			0.15	<0.1	<0.5	<0.5	0.14	<1.0
Limits for Industrial, Residential, Rural, and other Areas			1.0 24 hrs.	20 Annual	6 Annual	1 Annual	4 1 hr.	5 Annual

Note: * Parameters were monitored for a period of 1 hr.

INFERENCE	As per NAAQMS Standards (2009), Report Status: - Measured Values for the above parameters are within the limit.
End of the Report	
Analysed By Samreen P Chemist	Verified By Mallikarjuna S Dy. Technical Manager

- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
- Recognized by Government of Karnataka, Maharashtra, Goa for DGPS survey





Near WTP plant

Time: 10/04/2026 09:38:14AM

Altitude: 280.8m

Lat/Long: Lat 1511.28216 Long
7622.92924



Near WTP plant

Time: 11/04/2026 09:39:31AM

Altitude: 280.8m

Lat/Long: Lat 1511.28216 Long
7622.92924





Near WTP plant

Time: 24/04/2026 09:56:59AM

Altitude: 280.8m

Lat/Long: Lat 1511.28216 Long 7622.92924



Near WTP plant

Time: 25/04/2026 09:52:22AM

Altitude: 280.8m

Lat/Long: Lat 1511.28216 Long 7622.92924





GLOBAL ENVIRONMENT & MINING SERVICES LLP

(Consulting Engineers, Mine designers, Geologist & Surveyors)

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TC-16180

ANNEXURE-03
GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant), Vyasanakere,
Hanumanahalli Village, Hospet Taluk,
Vijayanagara Dist., Karnataka
Customer Reference : Workorder No.4200011817 Dated:20.08.2025
Sample collected by : Global Environment & Mining Services LLP
Discipline : Chemical
Group : Atmospheric Pollution
Sample Type : Ambient Air Quality Monitoring
Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler
Month : APRIL-2026
Location : A3-Galemmanagudi Village
Duration of Monitoring : 24 Hour
Report Issue Date : 02.05.2026
Report Number : ULR-TC16180260000097F

RESULTS

Parameters			PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	Ozone* (O ₃), [µg/m ³]	Ammonia (NH ₃) [µg/m ³]
Reference Method			IS:5182: 2006 (Part-23) (RF-2017)	IS 5182 (Part 24): 2019 (RF-2024)	IS:5182: 2001 (Part-2) Sec 1:2023	IS :5182: (Part-6) 2006 (RF-2017)	IS 5182 (Part 9): 1974	IS 5182 (Part 25) 2018
Date of Sampling	Date of Sample Received	Sample Code	Result	Result	Result	Result	Result	Result
03.04.2026	04.04.2026	109	55.28	13.24	10.22	11.24	0.0	<20.0
04.04.2026	05.04.2026	156	57.66	12.88	14.58	15.84	0.00	<20.0
10.04.2026	11.04.2026	365	52.36	14.38	12.56	13.68	0.00	<20.0
11.04.2026	12.04.2026	406	60.24	16.41	15.28	14.57	0.00	<20.0
17.04.2026	18.04.2026	512	52.35	10.20	7.60	16.36	0.00	<20.0
18.04.2026	19.04.2026	573	47.66	15.28	9.84	15.36	0.00	<20.0
24.04.2026	25.04.2026	741	58.21	16.24	9.94	9.80	0.00	<20.0
25.04.2026	26.04.2026	890	48.22	12.84	10.44	9.61	0.00	<20.0
27.04.2026	28.04.2026	958	52.44	14.84	8.64	8.66	0.00	<20.0
28.04.2026	29.04.2026	993	48.56	13.58	9.54	9.54	0.00	<20.0
Average			53.29	13.98	10.86	12.46	0.00	<20.0
Limits for Industrial, Residential, Rural, and other Areas			100	60	80	80	180	400
			24 hrs.	24 hrs.	24 hrs.	24 hrs.	1hr*	24 hrs.

Note: * Parameters were monitored for a period of 1 hr.

INFERENCE As per NAAQMS Standards (2009),
Report Status: - Measured Values for the above parameters are within the limit.

End of the Report

Analysed By
Samreen P
Chemist

Verified By
Mallikarjuna S
Dy. Technical Manager

Note:

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
- Water Samples will be destroyed after 7Days, Waste Water After Analysis Discard the Samples, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7 days.
- This report is not to be reproduced wholly or in part & cannot be used as evidence in the Court of law & should not use any advertising media without special permission in writing.
- Total liability of our laboratory is limited to the Invoice amount. Any dispute arising out of this report is subject to Hosapete jurisdiction only.
- Recognised by Ministry of Environment, Forest, and Climate Change for Laboratory
- Recognised by Government of Karnataka, Maharashtra, Goa for DGPS survey



GLOBAL ENVIRONMENT & MINING SERVICES LLP

(Consulting Engineers, Mine designers, Geologist & Surveyors)

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HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in

ANNEXURE-03
GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant), Vyasnakere,
Hanumanahalli Village, Hospei Taluk,
Vijayanagara Dist., Karnataka

Customer Reference : Workorder No.4200011817 Dated:20.08.2025

Sample collected by : Global Environment & Mining Services LLP

Discipline : Chemical

Group : Atmospheric Pollution

Sample Type : Ambient Air Quality Monitoring

Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler

Month : APRIL-2026

Location : A3-Galemmanagudi Village

Report Issued Date : 02.05.2026

Report Number : GEMS/SMIORE/2026-27/97

Parameters			Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Benzene (C ₆ H ₆), µg/m ³
Reference Method			IS 5182 (Part ZZ): 2004(RA 2014)	IS 5182 (Part 26): 2020	GEMS /SOP/87	IS 5182 (Part XII) 2006(RA 2017)	GEMS/SOP/86	IS 5182 (Part XI) 2006(RA 2017)
Date of Sampling	Date of Sampling	Sample Code	Result	Result	Result	Result	Result	Result
03.04.2026	04.04.2026	109	<0.01	<0.1	<0.5	<0.5	0.23	<1.0
04.04.2026	05.04.2026	156	<0.01	<0.1	<0.5	<0.5	0.18	<1.0
10.04.2026	11.04.2026	365	<0.01	<0.1	<0.5	<0.5	0.15	<1.0
11.04.2026	12.04.2026	406	<0.01	<0.1	<0.5	<0.5	0.16	<1.0
17.04.2026	18.04.2026	512	<0.01	<0.1	<0.5	<0.5	0.12	<1.0
18.04.2026	19.04.2026	573	<0.01	<0.1	<0.5	<0.5	0.19	<1.0
24.04.2026	25.04.2026	741	<0.01	<0.1	<0.5	<0.5	0.15	<1.0
25.04.2026	26.04.2026	890	<0.01	<0.1	<0.5	<0.5	0.15	<1.0
27.04.2026	28.04.2026	958	<0.01	<0.1	<0.5	<0.5	0.18	<1.0
28.04.2026	29.04.2026	993	<0.01	<0.1	<0.5	<0.5	0.17	<1.0
Average			<0.01	<0.1	<0.5	<0.5	0.16	<1.0
Limits for Industrial, Residential, Rural, and other Areas			1.0 24 hrs.	20 Annual	6 Annual	1 Annual	4 1 hr.	5 Annual

Note: * Parameters were monitored for a period of 1 hr.

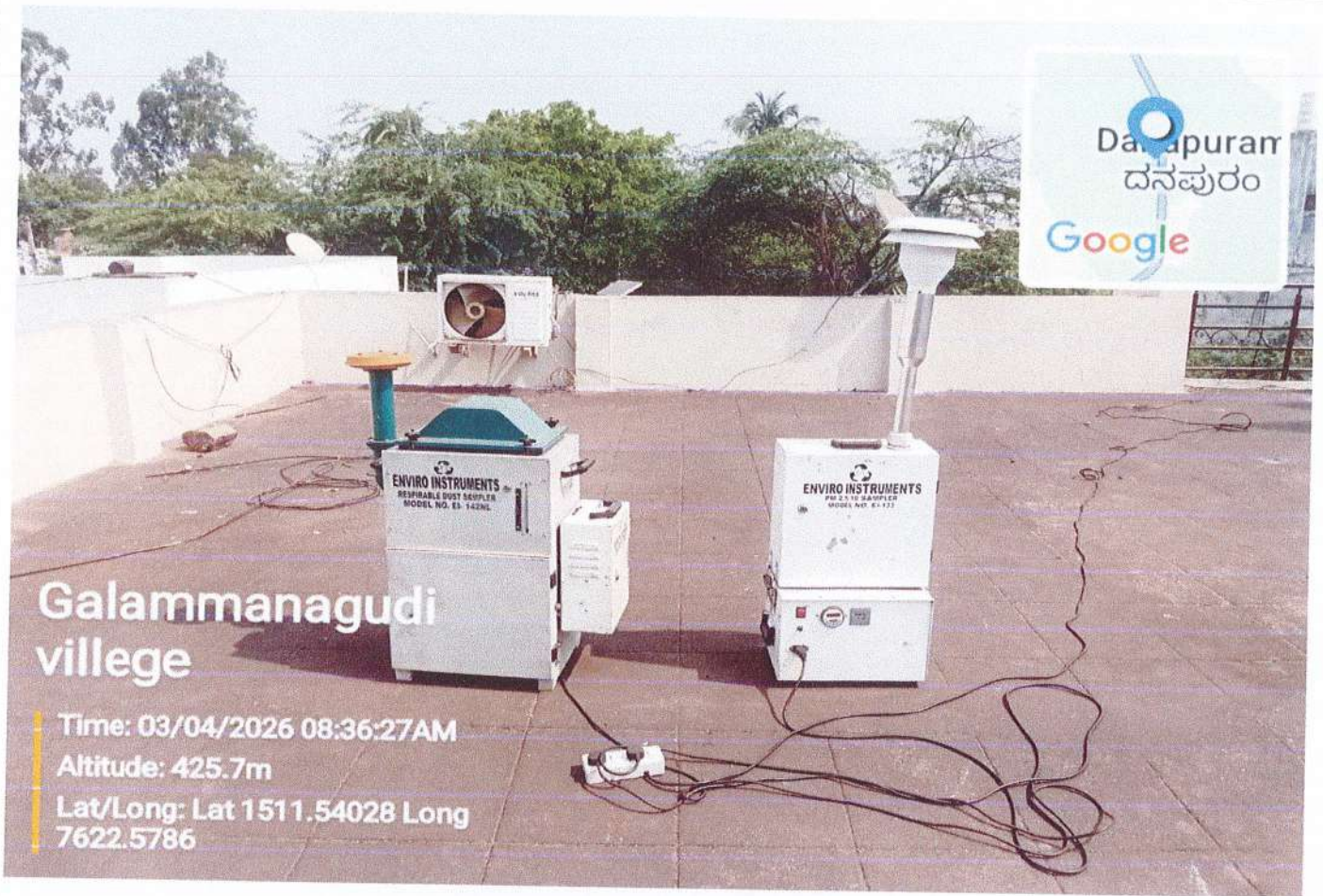
INFERENCE	As per NAAQMS Standards (2009), Report Status: Measured Values for the above parameters are within the limit.
-----------	--

End of the Report

Samreen P.
Analysed By
Samreen P
Chemist

Mallikarjuna S.
Verified By
Mallikarjuna S.
Dy. Technical Manager

- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
- Recognized by Government of Karnataka, Maharashtra, Goa for DGPS survey



Galammanagudi villege

Time: 03/04/2026 08:36:27AM

Altitude: 425.7m

Lat/Long: Lat 1511.54028 Long 7622.5786



Galammanagudi villege

Time: 04/04/2026 08:39:22AM

Altitude: 420.7m

Lat/Long: Lat 1511.54028 Long 7622.5786



Galammanagudi
villege

Time: 10/04/2026 08:44:47AM

Altitude: 419.5m

Lat/Long: Lat 1511.54028 Long
7622.5786



Galammanagudi
villege

Time: 11/04/2026 08:33:30AM

Altitude: 419.5m

Lat/Long: Lat 1511.54028 Long
7622.5786

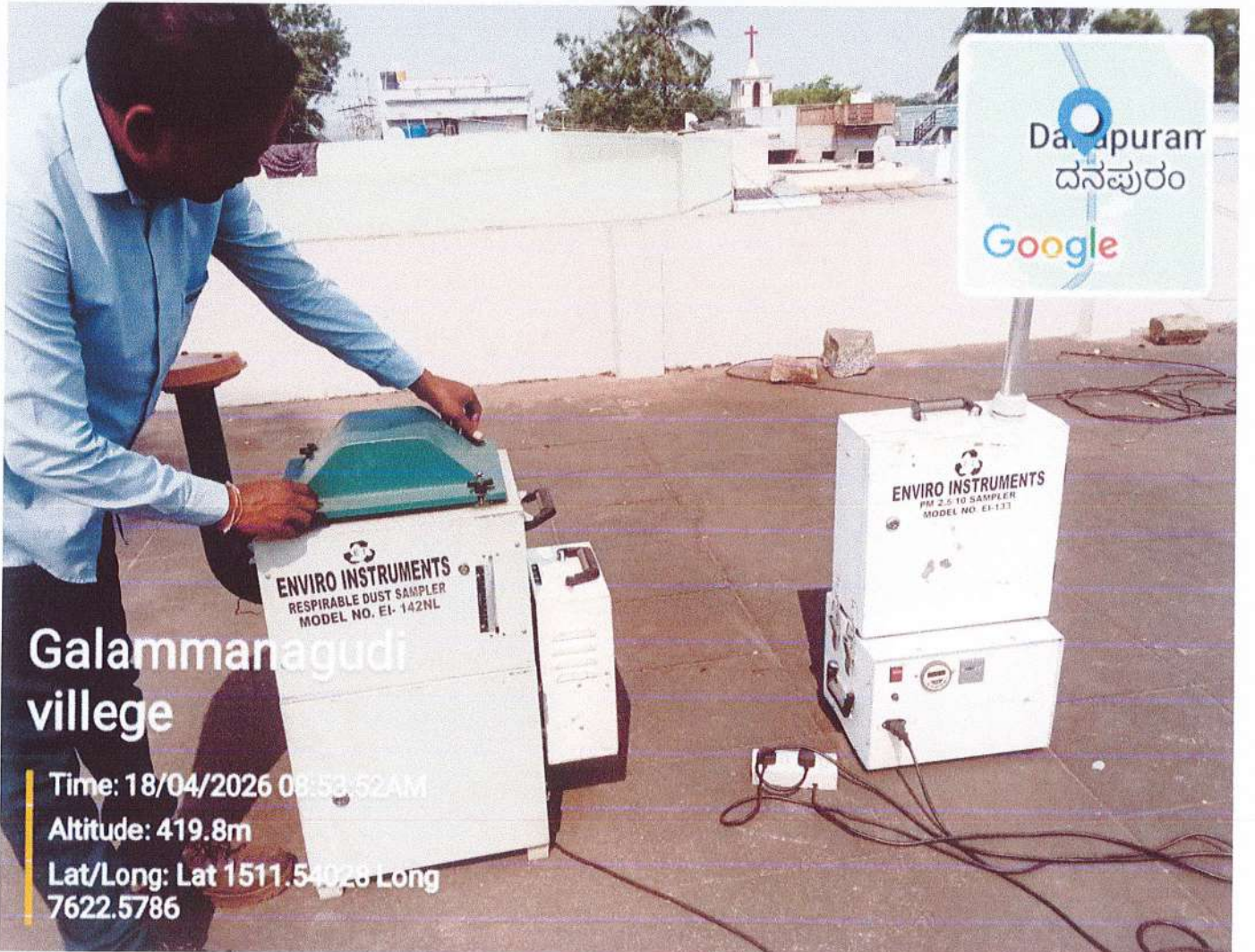


Galammanagudi villege

Time: 17/04/2026 08:53:05AM

Altitude: 419.8m

Lat/Long: Lat 1511.54028 Long 7622.5786



Galammanagudi villege

Time: 18/04/2026 08:53:52AM

Altitude: 419.8m

Lat/Long: Lat 1511.54028 Long 7622.5786





Galammanagudi villeg

Time: 27/04/2026 08:53:43AM

Altitude: 416.7m

Lat/Long: Lat 1511.54028 Long
7622.5786



Galammanagudi villeg

Time: 28/04/2026 08:42:15AM

Altitude: 416.7m

Lat/Long: Lat 1511.54028 Long
7622.5786



GLOBAL ENVIRONMENT & MINING SERVICES LLP

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e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

ANNEXURE-04
GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant), Vyasanakere,
Hanumanahalli Village, Hospet Taluk,
Vijayanagara Dist., Karnataka

Customer Reference : Work order No. 4200011817 Dated: 20.08.2025

Sample collected by : Global Environment & Mining Services LLP

Discipline : Chemical

Group : Atmospheric Pollution

Sample Type : Ambient Air Quality Monitoring

Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler

Month : APRIL-2026

Location : A4 - Near Plant Railway Siding

Duration of Monitoring : 24 Hour

Report Issue Date : 02.05.2026

Report Number : ULR-TC161802600000098F

RESULTS

Parameters			PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	Ozone* (O ₃), [µg/m ³]	Ammonia (NH ₃) [µg/m ³]
Reference Method			IS:5182: 2006 (Part-23) (RF-2017)	IS 5182 (Part 24): 2019 (RF-2024)	IS:5182: 2001 (Part-2) Sec 1:2023	IS :5182: (Part-6) 2006 (RF-2017)	IS 5182 (Part 9): 1974	IS 5182 (Part 25) 2018
Date of Sampling	Date of Sample Received	Sample Code	Result	Result	Result	Result	Result	Result
03.04.2026	04.04.2026	110	52.96	12.65	8.62	8.44	6.20	<20.0
04.04.2026	05.04.2026	157	58.62	14.62	6.68	9.65	0.00	<20.0
10.04.2026	11.04.2026	366	48.20	12.10	8.02	8.29	4.26	<20.0
11.04.2026	12.04.2026	407	64.28	15.80	8.86	9.44	0.00	<20.0
17.04.2026	18.04.2026	513	53.66	12.66	7.48	8.67	5.82	<20.0
18.04.2026	19.04.2026	574	50.84	11.27	7.62	9.52	8.86	<20.0
24.04.2026	25.04.2026	742	62.55	14.62	9.86	8.26	6.48	<20.0
25.04.2026	26.04.2026	891	48.25	16.25	8.66	8.88	6.25	<20.0
27.04.2026	28.04.2026	959	58.26	12.84	8.24	9.54	0.00	<20.0
28.04.2026	29.04.2026	994	46.84	15.22	8.24	9.82	3.86	<20.0
Average			54.44	13.80	8.22	9.05	4.17	<20.0
Limits for Industrial, Residential, Rural, and other Areas			100	60	80	80	180	400
			24 hrs.	24 hrs.	24 hrs.	24 hrs.	1hr ⁺	24 hrs.

Note: * Parameters were monitored for a period of 1 hr.

INFERENCE As per NAAQMS Standards (2009),
Report Status: - Measured Values for the above parameters are within the limit.

End of the Report

Samreen P
Analysed By
Samreen P
Chemist

Mallikarjuna S
Verified By
Mallikarjuna S
Dy. Technical Manager

Note:

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
- Water Samples will be destroyed after 7Days, Waste Water After Analysis Discard the Samples, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7 days.
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- Total liability of our laboratory is limited to the Invoice amount. Any dispute arising out of this report is subject to Hospapete jurisdiction only.
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GLOBAL ENVIRONMENT & MINING SERVICES LLP

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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslip.in

ANNEXURE-04
GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. The Sandur Manganese & Iron Ores Ltd.**
(Metal & Ferro Alloys Plant), Vyasankere,
Hanumanahalli Village, Hospei Taluk,
Vijayanagara Dist., Karnataka

Customer Reference : Workorder No.4200011817 Dated:20.08.2025

Sample collected by : Global Environment & Mining Services LLP

Discipline : Chemical

Group : Atmospheric Pollution

Sample Type : Ambient Air Quality Monitoring

Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler

Month : **APRIL-2026**

Location : **A4 - Near Plant Railway Siding**

Report Issued Date : **02.05.2026**

Report Number : **GEMS/SMIORE/2026-27/98**

Parameters			Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Benzene (C ₆ H ₆), µg/m ³
Reference Method			IS 5182 (Part 22): 2004(RA 2014)	IS 5182 (Part 26): 2020	GEMS /SOP/87	IS 5182 (Part XII) 2006(RA 2017)	GEMS/SOP/86	IS 5182 (Part XI) 2006(RA 2017)
Date of Sampling	Date of Sampling	Sample Code	Result	Result	Result	Result	Result	Result
03.04.2026	04.04.2026	110	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
04.04.2026	05.04.2026	157	<0.01	<0.1	<0.5	<0.5	0.15	<1.0
10.04.2026	11.04.2026	366	<0.01	<0.1	<0.5	<0.5	0.14	<1.0
11.04.2026	12.04.2026	407	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
17.04.2026	18.04.2026	513	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
18.04.2026	19.04.2026	574	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
24.04.2026	25.04.2026	742	<0.01	<0.1	<0.5	<0.5	0.13	<1.0
25.04.2026	26.04.2026	891	<0.01	<0.1	<0.5	<0.5	0.18	<1.0
27.04.2026	28.04.2026	959	<0.01	<0.1	<0.5	<0.5	0.16	<1.0
28.04.2026	29.04.2026	994	<0.01	<0.1	<0.5	<0.5	0.15	<1.0
Average			<0.01	<0.1	<0.5	<0.5	0.15	<1.0
Limits for Industrial, Residential, Rural, and other Areas			1.0 24 hrs.	20 Annual	6 Annual	1 Annual	4 1 hr.	5 Annual

Note: * Parameters were monitored for a period of 1 hr.

INFERENCE	As per NAAQMS Standards (2009), Report Status: - Measured Values for the above parameters are within the limit.
-----------	--

End of the Report

Samreen P.
Analysed By
Samreen P
Chemist

Mallikarjuna S.
Verified By
Mallikarjuna S
Dy. Technical Manager

- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
- Recognized by Government of Karnataka, Maharashtra, Goa for DGPS survey



Near plant Railway side

Time: 03/04/2026 09:16:42AM

Altitude: 420.8m

Lat/Long: Lat 15°11'30.118 N Long 76°22'9.071 E



Near plant Railway side

Time: 04/04/2026 09:11:01AM

Altitude: 383.4m

Lat/Long: Lat 15°11'28.216 N Long 76°22'9.2924 E



Near plant Railway
side

Time: 10/04/2026 09:25:40AM

Altitude: 383.4m

Lat/Long: Lat 1511.28216 Long
7622.92924



Near plant Railway
side

Time: 11/04/2026 09:39:31AM

Altitude: 420.8m

Lat/Long: Lat 1511.30116 Long
7622.90771



Near plant Railway
side

Time: 17/04/2026 09:32:31AM
Altitude: 383.4m
Lat/Long: Lat 1511.28216 Long
7622.92924



Near plant Railway
side

Time: 18/04/2026 09:30:16AM
Altitude: 420.3m
Lat/Long: Lat 1511.30118 Long
7622.9071







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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

ANNEXURE-5
GEMS-LD/TF/10/01

Analysis Report of Stack Emission

- 1 Name of the Industry : **M/s. The Sandur Manganese & Iron Ores Ltd.**
(Metal & Ferro Alloys Plant), Vysanakere,
Hanumanahalli Village, Hospet Taluk,
Vijayanagara Dist., Karnataka
- 2 Customer Reference : Workorder No.4200011817 Dated:20.08.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, Hosapete
- 4 Particulars of sample collected : Stack Kit (Greentech Instruments)
Sl. No: Stack Monitoring Kit/ 114-DTG-2016
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Sampling Location : **Stack Attached to Furnace - 3**
- 10 Month of Sampling : **APRIL-2026**
- 11 Date of Monitoring : **03.04.2026**
- 12 Date of Sample Received : 03.04.2026
- 13 Sample Code : **111**
- 14 Date of Sample Analysis : 04.04.2026
- 15 Date of Sample Analysis completion : 04.04.2026
- 16 Report Number : **ULR-TC16180260000099F**
- 17 Report Issued Date : **02.05.2026**

Stack Details

- 1 Fuel Used -
- 2 Stack Height (m) 35
- 3 Stack Diameter (m) 2.5
- 4 Cross Sectional Area (m²) 4.909

Emission Details

Sl. No.	Parameters	Method	Unit	Result	Permissible Limit
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	33	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	102	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	9.44	-
4	Gas flow rate at Stack Condition	IS-11255(Part 02) (RA 2014)	m ³ /hr	180820	-
5	Gas flow rate at NTP	IS-11255(Part 02) (RA 2014)	Nm ³ /hr	142554	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	94.68	150
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	14.0	-
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	24.6	-
9	Carbon Monoxide	GEMS/SOP/69	%	0.044	-
10	Oxygen (O ₂)	GEMS/SOP/70	%	19.65	-

Note: NS- Not Specified, RA: Reaffirmed, INFERENCE: The Measured Values are within the limits.

****End of the Report****

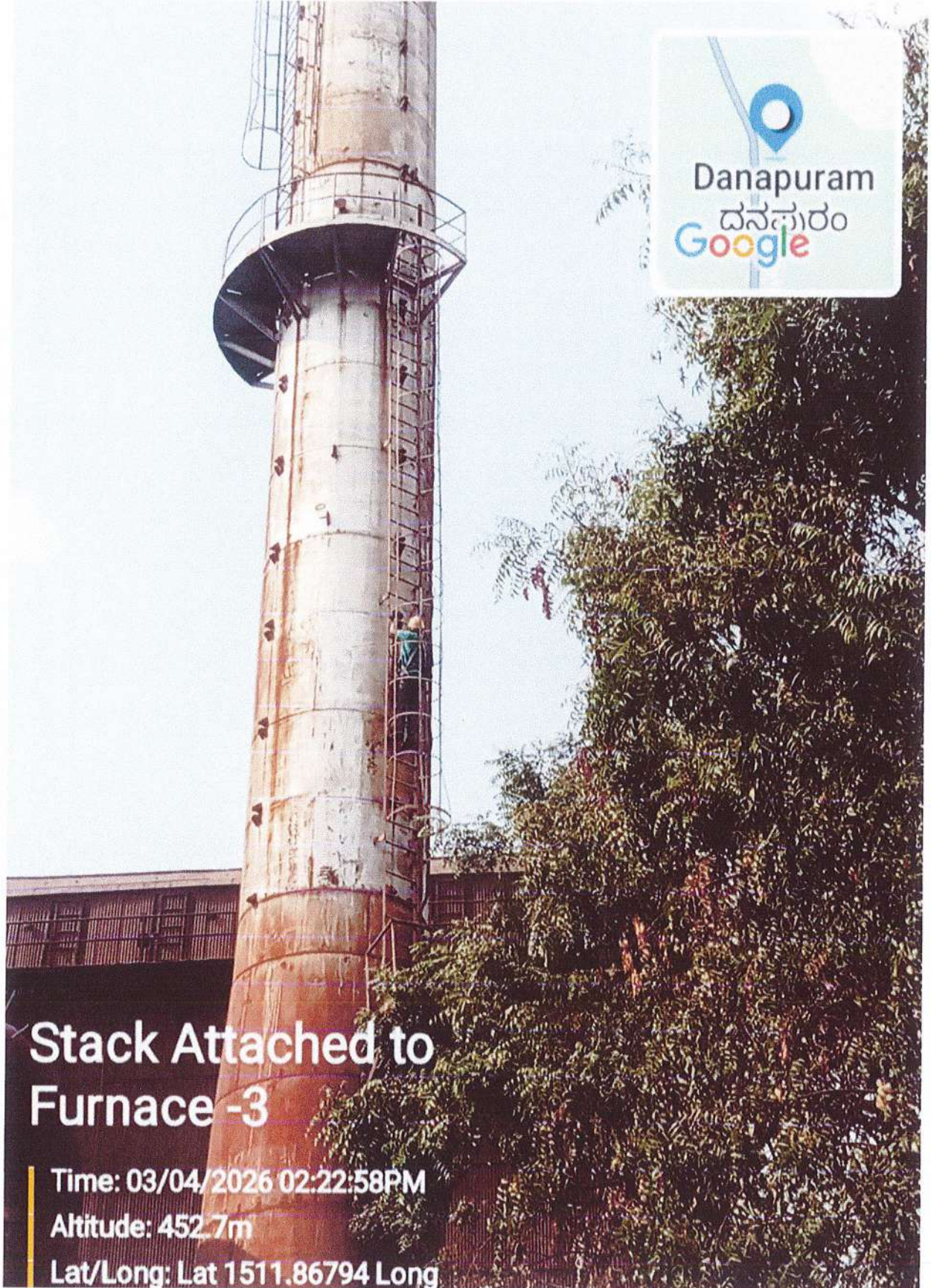
Samreen P
Analysed By
Samreen P
Chemist

Mallikarjuna S
Verified By
Mallikarjuna S
Dy. Technical Manager

Note:

1. The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
2. Water Samples will be destroyed after 7Days, Waste Water After Analysis Discard the Samples, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7 days.
3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the Court of law & should not use any advertising media without special permission in writing.
4. Total liability of our laboratory is limited to the Invoice amount. Any dispute arising out of this report is subject to Hosapete jurisdiction only.
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6. Recognised by Government of Karnataka, Maharashtra, Goa for DGPS survey

Stack April 2026



**Stack Attached to
Furnace -3**

Time: 03/04/2026 02:22:58PM

Altitude: 452.7m

Lat/Long: Lat 1511.86794 Long



GEMS



NABET

GLOBAL ENVIRONMENT & MINING SERVICES LLP

(Consulting Engineers, Mine designers, Geologist & Surveyors)

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e-mail : gems_hpt@yahoo.com

Website : www.gemsllp.in



TC-16180

ANNEXURE-6
GEMS-LD/TF/10/01**Analysis Report of Stack Emission**

- 1 Name of the Industry : **M/s. The Sandur Manganese & Iron Ores Ltd.**
(Metal & Ferro Alloys Plant), Vyasnakere,
Hanumanahalli Village, Hospet Taluk,
Vijayanagara Dist., Karnataka
- 2 Customer Reference : Workorder No.4200011817 Dated:20.08.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, Hosapete
- 4 Particulars of sample collected : Stack Kit (Greentech Instruments)
Sl. No: Stack Monitoring Kit/ **114-DTG-2016**
Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 5 Instrument Details : Chemical
- 6 Discipline : Atmospheric Pollution
- 7 Group : Stack Monitoring
- 8 Sample Type : **Stack Attached to Furnace - 5**
- 9 Sampling Location : **APRIL-2026**
- 10 Month of Sampling : **03.04.2026**
- 11 Date of Monitoring : 03.04.2026
- 12 Date of Sample Received : 112
- 13 Sample Code : 04.04.2026
- 14 Date of Sample Analysis : 04.04.2026
- 15 Date of Sample Analysis completion : **ULR-TC161802600000100F**
- 16 Report Number : **02.05.2026**
- 17 Report Issued Date

Stack Details

- 1 Fuel Used -
- 2 Stack Height (m) 35
- 3 Stack Diameter (m) 3.0
- 4 Cross Sectional Area (m²) 7.071

Emission Details

Sl. No.	Parameters	Method	Unit	Result	Permissible Limit
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	34	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	108	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	12.88	-
4	Gas flow rate at Stack Condition	IS-11255(Part 02) (RA 2014)	m ³ /hr	280256	-
5	Gas flow rate at NTP	IS-11255(Part 02) (RA 2014)	Nm ³ /hr	234528	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	90.67	150
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	22.84	-
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	49.68	-
9	Carbon Monoxide	GEMS/SOP/69	%	0.046	-
10	Oxygen (O ₂)	GEMS/SOP/70	%	21.33	-

Note: NS- Not Specified, RA: Reaffirmed, INFERENCE: The Measured Values are within the limits.

****End of the Report****

Samreen P
Analysed By
Samreen P
Chemist

Mallikarjun
Verified By
Mallikarjun
Dy. Technical Manager

Note:

1. The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
2. Water Samples will be destroyed after 7Days, Waste Water After Analysis Discard the Samples, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7 days.
3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the Court of law & should not use any advertising media without special permission in writing.
4. Total liability of our laboratory is limited to the Invoice amount. Any dispute arising out of this report is subject to Hosapete jurisdiction only.
5. Recognised by Ministry of Environment, Forest, and Climate Change for Laboratory
6. Recognised by Government of Karnataka, Maharashtra, Goa for DGPS survey

Stack April 2026



Stack Attached to
Furnace -5

Time: 03/04/2026 04:13:23PM

Altitude: 452.7m

Lat/Long: Lat 1511.86794 Long
7622.79946



GLOBAL ENVIRONMENT & MINING SERVICES LLP

(Consulting Engineers, Mine designers, Geologist & Surveyors)

3rd Main Road, Basaveswara Badavane,

HOSAPETE - 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

ANNEXURE-7
GEMS-LD/TF/10/01

Analysis Report of Stack Emission

- | | | |
|----|------------------------------------|---|
| 1 | Name of the Industry | : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant), Vyasanakere,
Hanumanahalli Village, Hospet Taluk,
Vijayanagara Dist., Karnataka |
| 2 | Customer Reference | : Workorder No.4200011817 Dated:20.08.2025 |
| 3 | Sample collected by | : Global Environment & Mining Services LLP, Hosapete |
| 4 | Particulars of sample collected | : Stack Kit (Greentech Instruments)
Sl. No: Stack Monitoring Kit/ 114-DTG-2016 |
| 5 | Instrument Details | : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026 |
| 6 | Discipline | : Chemical |
| 7 | Group | : Atmospheric Pollution |
| 8 | Sample Type | : Stack Monitoring |
| 9 | Sampling Location | : Stack Attached to WHRB-01 |
| 10 | Month of Sampling | : APRIL-2026 |
| 11 | Date of Monitoring | : 03.04.2026 |
| 12 | Date of Sample Received | : 03.04.2026 |
| 13 | Sample Code | : 113 |
| 14 | Date of Sample Analysis | : 04.04.2026 |
| 15 | Date of Sample Analysis completion | : 04.04.2026 |
| 16 | Report Number | : ULR-TC161802600000101F |
| 17 | Report Issued Date | : 02.05.2026 |

Stack Details

- | | | |
|----|--|-------|
| 1 | Fuel Used | - |
| 2 | Stack Height (m) | 60 |
| 3 | Stack Diameter (m) | 4.6 |
| 4. | Cross Sectional Area (m ²) | 16.62 |

Emission Details

Sl. No.	Parameters	Method	Unit	Result	Permissible Limit
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	33	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	152	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.54	-
4	Gas flow rate at Stack Condition	IS-11255(Part 02) (RA 2014)	m ³ /hr	208426	-
5	Gas flow rate at NTP	IS-11255(Part 02) (RA 2014)	Nm ³ /hr	142896	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	39.68	50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	322.84	800
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	141.28	500
9	Carbon Monoxide	GEMS/SOP/69	%	0.24	Max1%
10	Oxygen (O ₂)	GEMS/SOP/70	%	16.20	-

Note: NS- Not Specified, RA: Reaffirmed, **INFERENCE:** The Measured Values are within the limits.

****End of the Report****

Samreen P
Analysed By
Samreen P
Chemist

M. J. J. J.
Verified By
M. J. J. J.
Dy. Technical Manager

Global Environment & Mining Services
HOSAPETE

Note:

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
- Water Samples will be destroyed after 7Days, Waste Water After Analysis Discard the Samples, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7 days.
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- Total liability of our laboratory is limited to the Invoice amount. Any dispute arising out of this report is subject to Hosapete jurisdiction only.
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- Recognised by Government of Karnataka, Maharashtra, Goa for DGPS survey

Stack April 2026



coke oven -1

Time: 03/04/2026 10:27:23AM

Altitude: 489.2m

Lat/Long: Lat 15°11.7243 Long

76°22.79088



GEMS

**GLOBAL ENVIRONMENT & MINING SERVICES LLP**

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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

ANNEXURE-8
GEMS-LD/TF/10/01**Analysis Report of Stack Emission**

1	Name of the Industry	: M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist., Karnataka
2	Customer Reference	: Workorder No.4200011817 Dated:20.08.2025
3	Sample collected by	: Global Environment & Mining Services LLP, Hosapete
4	Particulars of sample collected	: Stack Kit (Greentech Instruments) Sl. No: Stack Monitoring Kit/ 114-DTG-2016
5	Instrument Details	: Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: Stack Monitoring
9	Sampling Location	: Stack Attached to WHRB-02
10	Month of Sampling	: APRIL-2026
11	Date of Monitoring	: -
12	Date of Sample Received	: -
13	Sample Code	: -
14	Date of Sample Analysis	: -
15	Date of Sample Analysis completion	: -
16	Report Number	: -
17	Report Issued Date	: 02.05.2026

Stack Details

1	Fuel Used	-
2	Stack Height (m)	60
3	Stack Diameter (m)	4.6
4.	Cross Sectional Area (m ²)	16.62

Emission Details

Sl. No.	Parameters	Method	Unit	Result	Permissible Limit
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	Shutdown	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C		-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec		-
4	Gas flow rate at Stack Condition	IS-11255(Part 02) (RA 2014)	m ³ /hr		-
5	Gas flow rate at NTP	IS-11255(Part 02) (RA 2014)	Nm ³ /hr		-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³		50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³		800
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³		500
9	Carbon Monoxide	GEMS/SOP/69	%		Max1%
10	Oxygen (O ₂)	GEMS/SOP/70	%		-

Note: NS- Not Specified, RA: Reaffirmed, **INFERENCE:******End of the Report****

Verified By
Mallikarjuna S
Dy. Technical Manager


Note:

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
- Water Samples will be destroyed after 7Days. Waste Water After Analysis Discard the Samples, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7 days.
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**GLOBAL ENVIRONMENT & MINING SERVICES LLP**

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Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

ANNEXURE-09
GEMS-LD/TF/10/01**Analysis Report of Stack Emission**

- 1 Name of the Industry : **M/s. The Sandur Manganese & Iron Ores Ltd.**
(Metal & Ferro Alloys Plant), Vyasnakere,
Hanumanahalli Village, Hospet Taluk,
Vijayanagara Dist., Karnataka
- 2 Customer Reference : Workorder No.4200011817 Dated:20.08.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, Hosapete
- 4 Particulars of sample collected : Stack Kit (Greentech Instruments)
Sl. No: Stack Monitoring Kit/ **114-DTG-2016**
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Sampling Location : **Stack Attached to Coal Crushing**
- 10 Month of Sampling : **APRIL-2026**
- 11 Date of Monitoring : 10.04.2026
- 12 Date of Sample Received : 10.04.2026
- 13 Sample Code : 367
- 14 Date of Sample Analysis : 11.04.2026
- 15 Date of Sample Analysis completion : 11.04.2026
- 16 Report Number : **ULR-TC161802600000244F**
- 17 Report Issued Date : **02.05.2026**

Stack Details

- 1 Fuel Used -
- 2 Stack Height (m) 15
- 3 Stack Diameter (m) 0.7
- 4 Cross Sectional Area (m²) 0.3850

Emission Details

Sl. No.	Parameters	Method	Unit	Result	Permissible Limit
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	33	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	34	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.54	-
4	Gas flow rate at Stack Condition	IS-11255(Part 02) (RA 2014)	m ³ /hr	7650	-
5	Gas flow rate at NTP	IS-11255(Part 02) (RA 2014)	Nm ³ /hr	7186	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	38.62	50

Note: NS- Not Specified, RA: Reaffirmed, **INFERENCE:** The Measured Values are within the limits.

End of the Report

Samreen P
Analysed By
Samreen P
Chemist

Mallikarjuna S
Verified By
Mallikarjuna S
Dy. Technical Manager

Note:

1. The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
2. Water Samples will be destroyed after 7 Days, Waste Water After Analysis Discard the Samples, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7 days.
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Stack April 2026





GEMS

**GLOBAL ENVIRONMENT & MINING SERVICES LLP**

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Ph : 08394 355369

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Website : www.gemslp.in



TC-16180

ANNEXURE-10
GEMS-LD/TF/10/01**Analysis Report of Stack Emission**

- 1 Name of the Industry : **M/s. The Sandur Manganese & Iron Ores Ltd.**
(Metal & Ferro Alloys Plant), Vyasnakere,
Hanumanahalli Village, Hospet Taluk,
Vijayanagara Dist., Karnataka
- 2 Customer Reference : Workorder No.4200011817 Dated:20.08.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, Hosapete
- 4 Particulars of sample collected : Stack Kit (Greentech Instruments)
Sl. No: Stack Monitoring Kit/ **114-DTG-2016**
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Sampling Location : **Stack Attached to Coke Cutter**
- 10 Month of Sampling : **APRIL-2026**
- 11 Date of Monitoring : 10.04.2026
- 12 Date of Sample Received : 10.04.2026
- 13 Sample Code : 368
- 14 Date of Sample Analysis : 11.04.2026
- 15 Date of Sample Analysis completion : 11.04.2026
- 16 Report Number : **ULR-TC161802600000245F**
- 17 Report Issued Date : 02.05.2026

Stack Details

- 1 Fuel Used -
- 2 Stack Height (m) 15
- 3 Stack Diameter (m) 0.7
- 4 Cross Sectional Area (m²) 0.3850

Emission Details

Sl. No.	Parameters	Method	Unit	Result	Permissible Limit
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	34	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	35	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.88	-
4	Gas flow rate at Stack Condition	IS-11255(Part 02) (RA 2014)	m ³ /hr	8024	-
5	Gas flow rate at NTP	IS-11255(Part 02) (RA 2014)	Nm ³ /hr	7628	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	34.68	50

Note: NS- Not Specified, RA: Reaffirmed, **INFERENCE:** The Measured Values are within the limits.

End of the Report

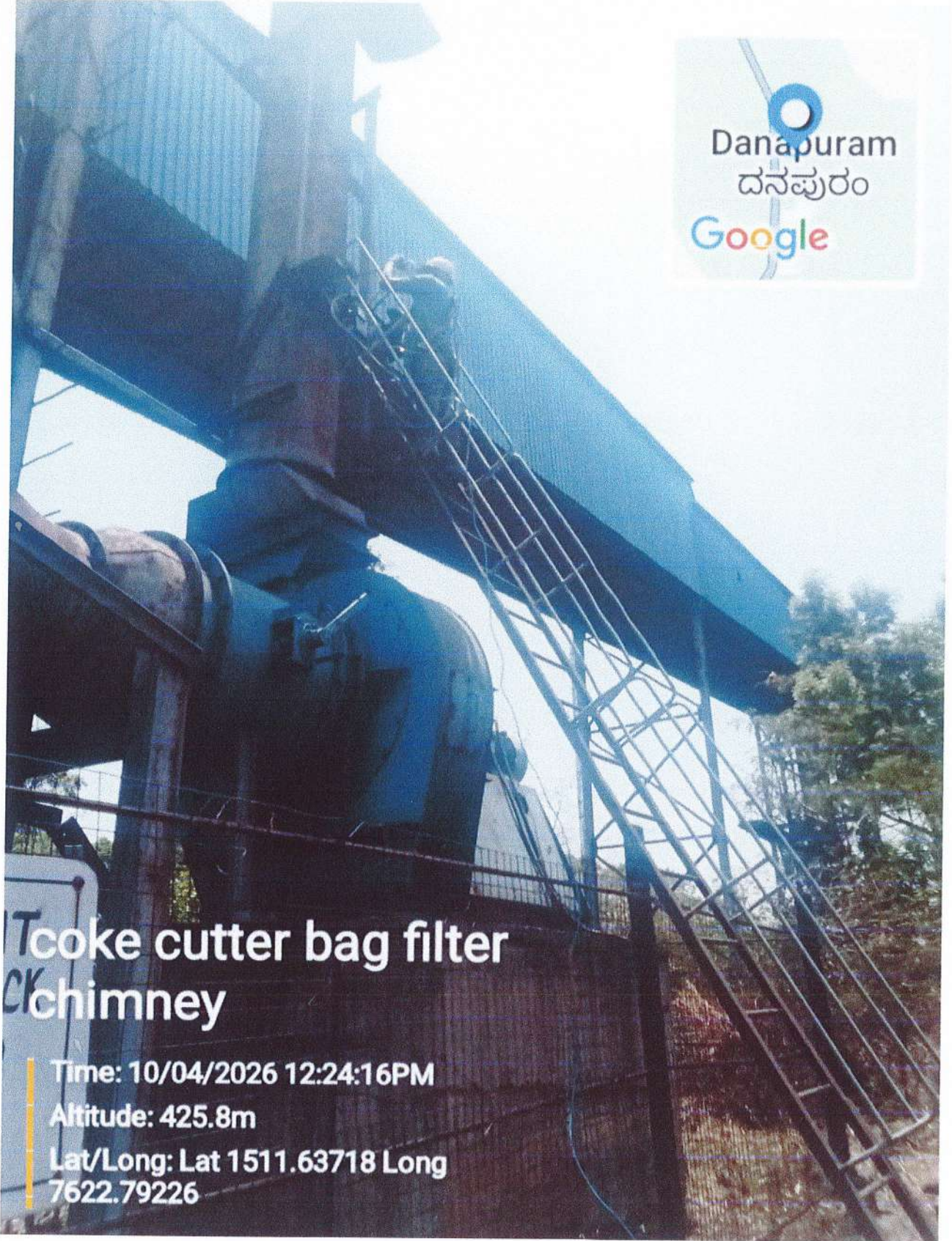
Samreen P
Analysed By
Samreen P
Chemist

Mallikarjuna S
Verified By
Mallikarjuna S
Dy. Technical Manager

Note:

1. The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
2. Water Samples will be destroyed after 7Days. Waste Water After Analysis Discard the Samples, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7 days.
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Stack April 2026



**Tcoke cutter bag filter
chimney**

Time: 10/04/2026 12:24:16PM

Altitude: 425.8m

Lat/Long: Lat 1511.63718 Long
7622.79226



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e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

ANNEXURE-11
GEMS-LD/TF/10/01

Analysis Report of Stack Emission

- 1 Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant), Vysanakere,
Hanumanahalli Village, Hospet Taluk,
Vijayanagara Dist., Karnataka
- 2 Customer Reference : Workorder No.4200011817 Dated:20.08.2025
- 3 Sample collected by : Global Environment & Mining Services LLP, Hosapete
- 4 Particulars of sample collected : Stack Kit (Greentech Instruments)
Sl. No: Stack Monitoring Kit/ 114-DTG-2016
- 5 Instrument Details : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Sampling Location : Stack Attached to Coke Screening & Store
- 10 Month of Sampling : APRIL-2026
- 11 Date of Monitoring : 10.04.2026
- 12 Date of Sample Received : 10.04.2026
- 13 Sample Code : 369
- 14 Date of Sample Analysis : 11.04.2026
- 15 Date of Sample Analysis completion : 11.04.2026
- 16 Report Number : ULR-TC161802600000246F
- 17 Report Issued Date : 02.05.2026

Stack Details

- 1 Fuel Used -
- 2 Stack Height (m) 15
- 3 Stack Diameter (m) 0.7
4. Cross Sectional Area in meter square 0.3850

Emission Details

Sl. No.	Parameters	Method	Unit	Result	Permissible Limit
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	33	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	38	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.84	-
4	Gas flow rate at Stack Condition	IS-11255(Part 02) (RA 2014)	m ³ /hr	8029	-
5	Gas flow rate at NTP	IS-11255(Part 02) (RA 2014)	Nm ³ /hr	7468	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	39.64	50

Note: NS- Not Specified, RA: Reaffirmed, INFERENCE: The Measured Values are within the limits.

****End of the Report****

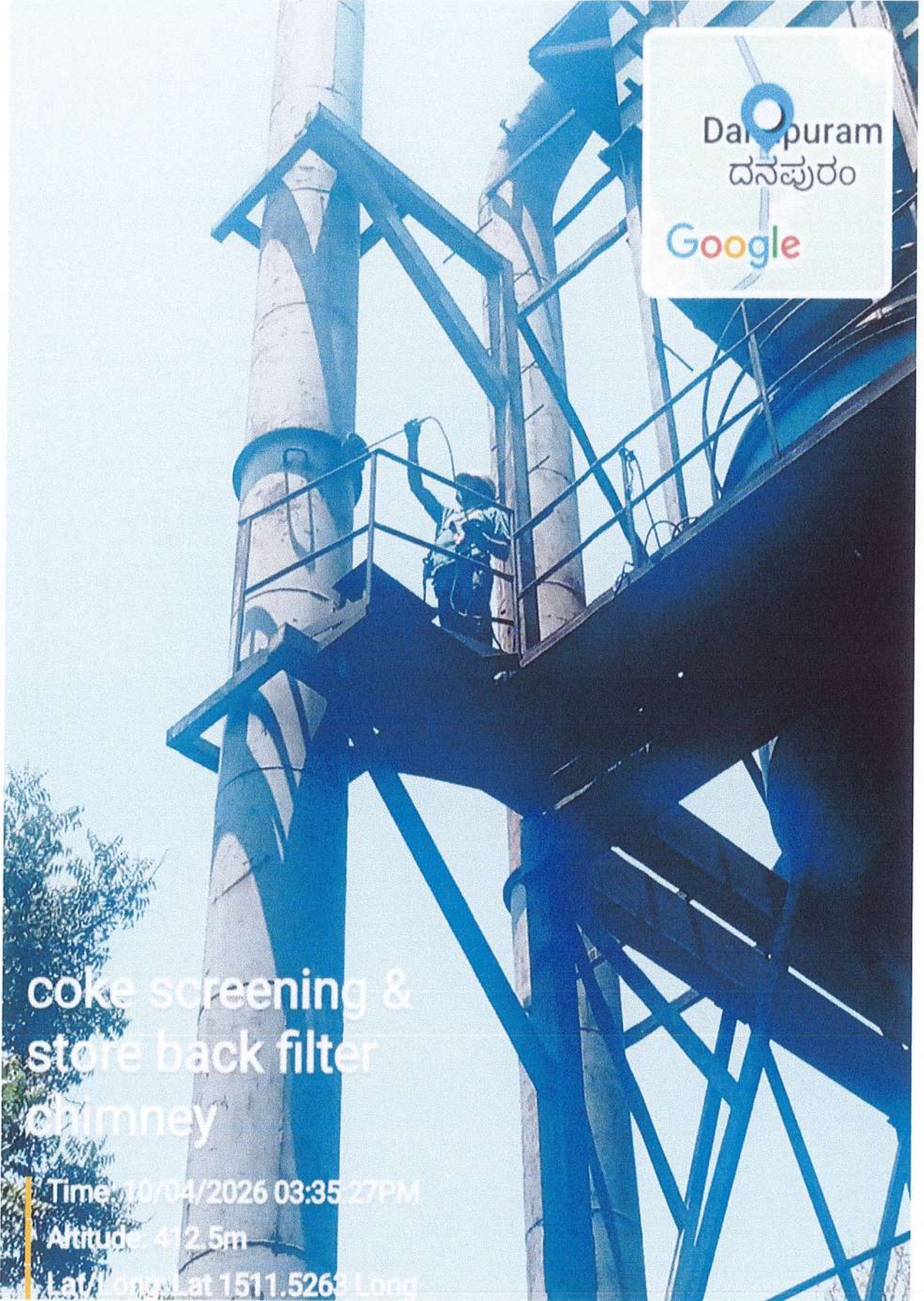
Samreen P
Analysed By
Samreen P
Chemist

Mallikarjuna S
Verified By
Mallikarjuna S
Dy. Technical Manager

Note:

1. The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
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Stack April 2026



coke screening &
store back filter
chimney

Time: 10/04/2026 03:35:27PM

Altitude: 412.5m

Lat/Long: Lat 1511.5263 Long



GLOBAL ENVIRONMENT & MINING SERVICES LLP

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e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



ANNEXURE-12
GEMS-LD/TF/08/01

AMBIENT NOISE LEVEL MONITORING REPORT

Name of the Industry : **M/s. The Sandur Manganese & Iron Ores Ltd.**
(Metal & Ferro Alloys Plant), Vyasanakere,
Hanumanahalli Village, Hospet Taluk,
Vijayanagara Dist., Karnataka

Customer Reference : Workorder No.4200011817 Dated:20.08.2025

Sample collected by : Global Environment & Mining Services LLP

Discipline : Chemical

Group : Atmospheric Pollution

Sample Type : Noise Level Monitoring

Particulars of Sample Collected : Lutron: SL- 4023SD
Sl. No: Q679953

Instrument Details : Date of Calibration:16.12.2025
Calibration Due Date:15.12.2026

Month : **APRIL-2026**

Duration of the Monitoring : 24 Hrs.

Report Issue Date : **02.05.2026**

Method Adopted : IS 9989-1981 Reaffirmed 2014

Report No : **ULR-TC161802600000102F**

Sl. No	Location	Date of Monitoring	Noise Level dB (A)							
			Day Time (06.00 Am to 10.00 Pm)			Standard	Night Time (10.00 Pm to 06.00 Am)			Standard
			Min	Max	Avg			Min	Max	
Industrial Area										
N1	Near Existing AAQMS 01 (SMIORE Schools)	03.04.2026	42.4	56.8	49.54	75	33.2	42.8	37.8	70
N2	Near Water Reservoir (WTP Plant)	04.04.2026	41.8	57.4	48.62		41.2	48.6	45.2	
Residential Area										
N3	Galemmanagudi	10.04.2026	47.2	52.9	50.24	55	36.4	42.0	38.4	45
N4	Vyasanakere Village	17.04.2026	42.8	54.6	48.36		33.6	41.2	38.6	
N5	Hanumana Halli	24.04.2026	46.8	53.2	49.54		37.2	44.3	40.2	

INFERENCE

As per CPCB Standards,

Report Status: - Measured Values for the above parameters are within the limit.

****End of the Report****

Verified By
Malikarjuna
Dy. Technical Manager

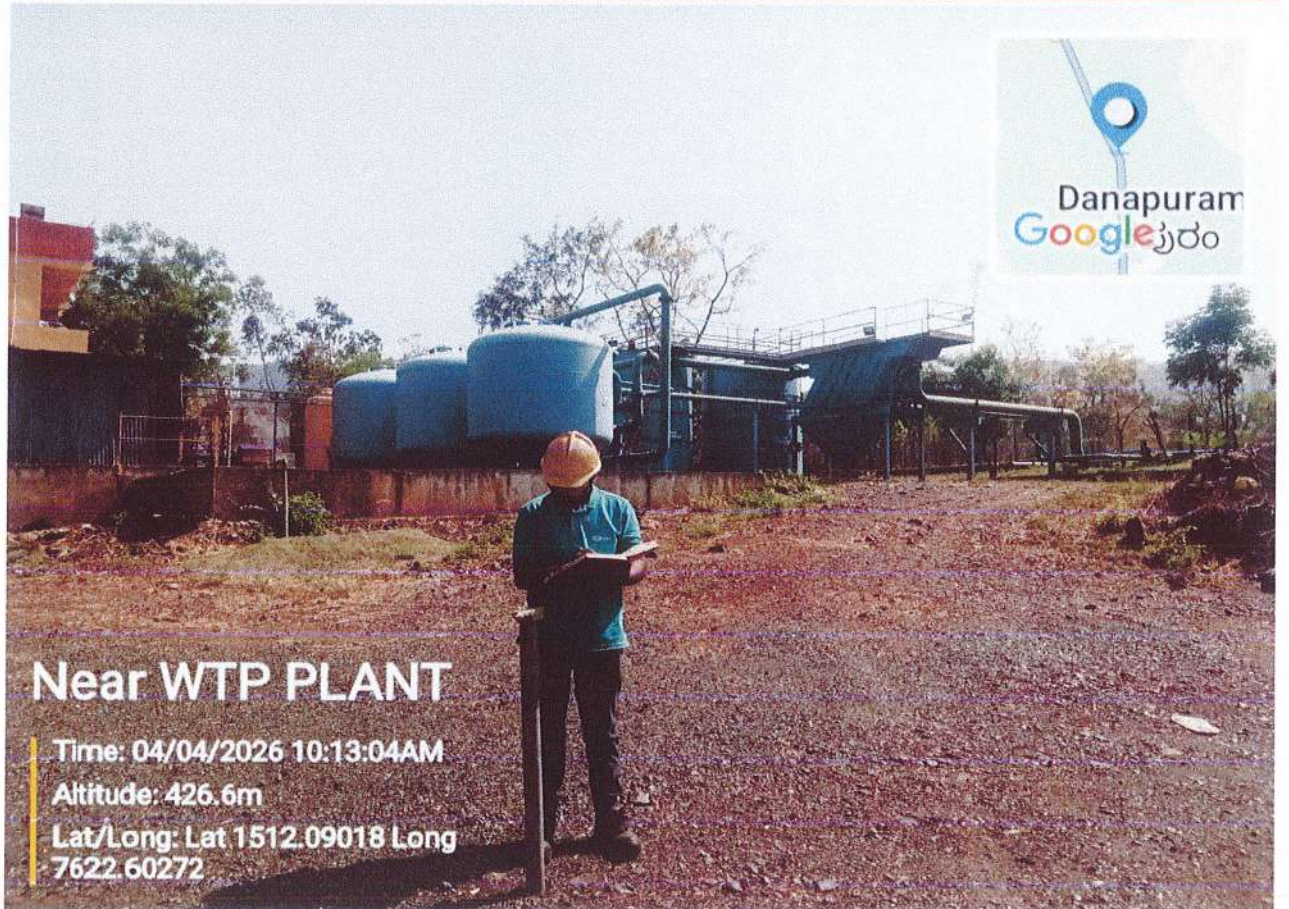
NOISE: (AMBIENT STANDARDS)

Area code	Category of Area	Limit in dB(A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Area	50	40

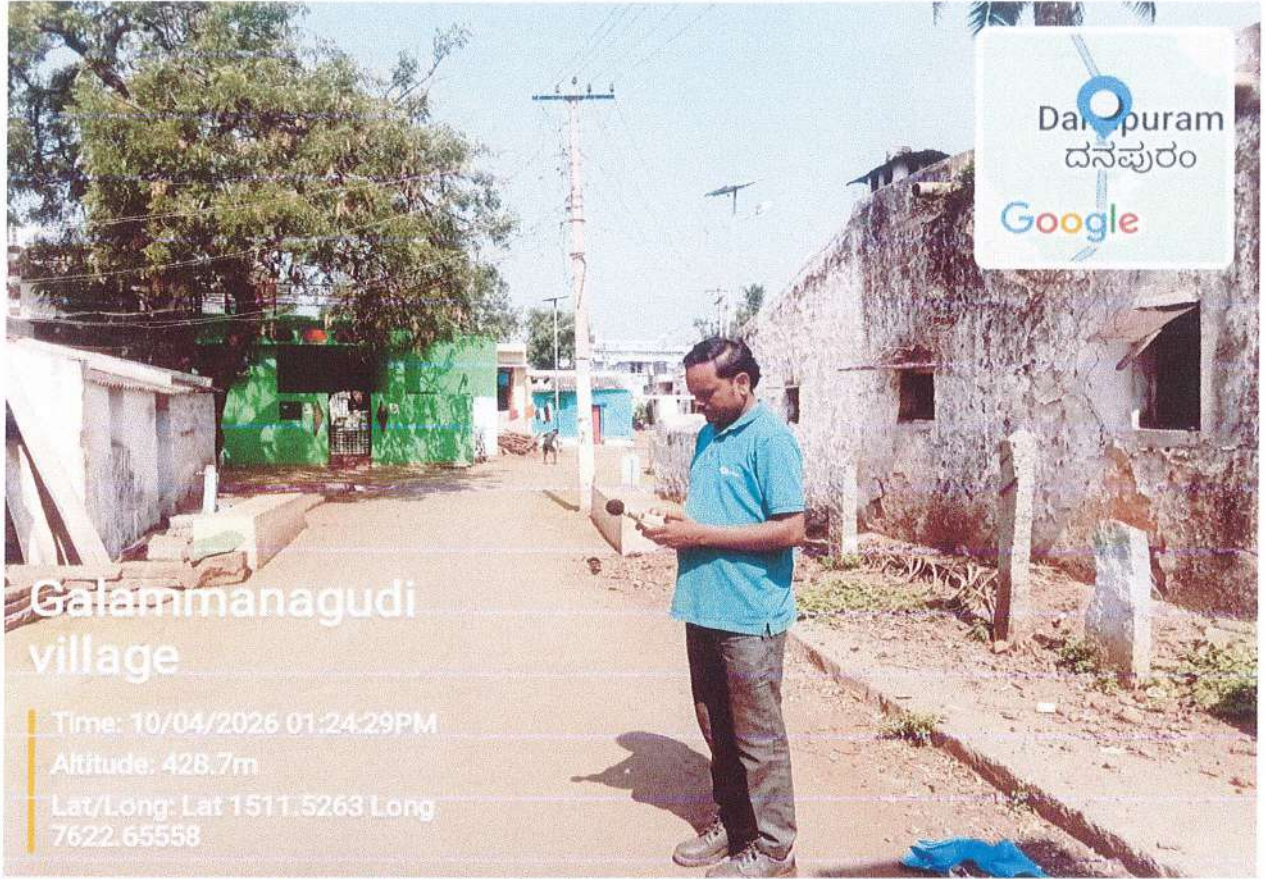
Note:

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Noise April 2026



Noise April 2026



Noise April 2026





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Ph : 08394 355369

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Website : www.gemslp.in



TC-16180

ANNEXURE-13 GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

- 1 Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant), Vyasanakere,
Hanumanahalli Village, Hospet Taluk,
Vijayanagara Dist., Karnataka
- 2 Customer Reference : Workorder No.4200011817 Dated:20.08.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 4 Particulars of sample collected : Composite Sampling
- 5 Sampling Procedure : GEMS-LD/SOP/32
- 6 Discipline : Chemical
- 7 Group : Pollution & Environment
- 8 Sample Type : Sewage Treatment Plant (Outlet)
- 9 Sample Code : 159
- 10 Date of Sampling : 04.04.2026
- 11 Sample Received : 04.04.2026
- 12 Date of Analysis : 06.04.2026
- 13 Date of Analysis Completion : 10.04.2026
- 14 Report Issue Date : 02.05.2026
- 15 Report Number : ULR-TC161802600000126F

RESULTS

Sl. No.	Parameters	Protocol	Unit	Results	As per KSPCB Std
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	8.08	6.5 to 9.0
2.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	6.0	<20
3.	Biochemical Oxygen Demand as BOD (3 days at 27°C)	IS 3025 PART 44: 2023	mg/L	5.0	<10
4.	Chemical Oxygen Demand as COD	APHA 24th Edition 5220 B: 2023	mg/L	21.54	<50

Note: BDL-Below detectable Limit. INFERENCE: The Measured values are within the Limit.

****End of the Report****

Samreen P
Analysed By
Samreen P
Chemist

Mallikarjuna S
Verified By
Mallikarjuna S
Dy. Technical Manager

Note:

1. The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
2. Water Samples will be destroyed after 7 Days, Waste Water After Analysis Discard the Samples, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7 days.
3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the Court of law & should not use any advertising media without special permission in writing.
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HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemsllp.in

ANNEXURE-13
GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

- 1 Name of the Industry : **M/s. The Sandur Manganese & Iron Ores Ltd.**
(Metal & Ferro Alloys Plant), Vyasanakere,
Hanumanahalli Village, Hospet Taluk,
Vijayanagara Dist., Karnataka
- 2 Customer Reference : Workorder No.4200011817 Dated:20.08.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 4 Particulars of sample collected : Composite Sampling
- 5 Sampling Procedure : GEMS-LD/SOP/32
- 6 Discipline : Chemical
- 7 Group : Pollution & Environment
- 8 Sample Type : **Sewage Treatment Plant (Outlet)**
- 9 Sample Code : **159**
- 10 Date of Sampling : 04.04.2026
- 11 Sample Received : 04.04.2026
- 12 Date of Analysis : 06.04.2026
- 13 Date of Analysis Completion : 10.04.2026
- 14 Report Issue Date : **02.05.2026**
- 15 Report Number : **GEMS/SMIORE/STP/2026-27/126**

RESULTS

Sl. No.	Parameters	Protocol	Unit	Results	As per KSPCB Std
5	Ammonical nitrogen as N	IS:3025 (part 34)-1988, RA-2023	mg/L	0.38	<5
6	Total Nitrogen as N	IS:3025 (part 34)-1988, RA-2023	mg/L	1.55	<10
7	Fecal coliform	APHA 24th Edition 9222 B :2023	MPN/100ml	20	Less than 100

Note: BDL-Below detectable Limit. **INFERENCE:** The Measured values are within the Limit.

Samreen P
Analysed By
Samreen P
Chemist

Mallikarjuna S
Verified By
Mallikarjuna S
Dy. Technical Manager

- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
- Recognized by Government of Karnataka, Maharashtra, Goa for DGPS survey

STP OUTLET WATER APRIL 2026

