

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/2026-27/17

08/06/2026

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

Sub: Submission of Environmental Monitoring Report **MAY-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.

ಕ.ರಾ.ಮಾ.ನಿ. ಮಂಡಳಿ

ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ ವಿಜಯನಗರ ಹೊಸಪೇಟೆ

ಸಂಖ್ಯೆ/ದಿನಾಂಕ: 8/6/26 ಸಹಿ *Manikanta*

Dear Sir,

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

Kindly acknowledge receipt of the same and oblige.

Thanking you,

For The Sandur Manganese & Iron Ores Limited

Parvatareddy Patil

Parvatareddy Patil
Senior General Manager- Plant



Encl: Environmental Monitoring Report **May-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
Hosapete-583222, Vijayanagara
Karnataka.

M.M.Halli
District,

MAY-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.gemsllp.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: 04.06.2026


Mallikarjuna S
(Dy. Technical Manager)



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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), 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 : MAY-2026

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

Report Issued Date : 04.06.2026

Report Number : ULR-TC1618026000000732F

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
08.05.2026	09.05.2026	1195	64.32	19.25	10.54	10.24	0.00	<20.0
09.05.2026	10.05.2026	1203	55.23	14.32	12.55	9.83	0.00	<20.0
15.05.2026	16.05.2026	1478	54.32	16.85	9.65	10.54	0.00	<20.0
16.05.2026	17.05.2026	1506	68.21	16.54	11.21	12.54	0.00	<20.0
22.05.2026	23.05.2026	1694	64.21	14.55	14.32	14.36	0.00	<20.0
23.05.2026	24.05.2026	1729	58.25	14.32	8.65	12.33	0.00	<20.0
29.05.2026	30.05.2026	1920	56.23	17.21	11.25	9.65	0.00	<20.0
30.05.2026	31.05.2026	1964	68.22	13.74	9.80	10.47	0.00	<20.0
Average			61.27	15.93	10.97	11.01	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.

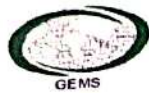
****End of the Report****

Samreen P
Analysed By
Samreen P
Chemist

Mallikarjun
Authorized Signature
Mallikarjun
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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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), 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

: MAY-2026

Location

: A1-Near Existing AAQMS 01 (SMIORE School)

Report Issued Date

: 04.06.2026

Report Number

: GEMS/SMIORE/2026-27/732

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
08.05.2026	09.05.2026	1195	<0.01	<0.1	<0.5	<0.5	0.16	<1.0
09.05.2026	10.05.2026	1203	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
15.05.2026	16.05.2026	1478	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
16.05.2026	17.05.2026	1506	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
22.05.2026	23.05.2026	1694	<0.01	<0.1	<0.5	<0.5	0.13	<1.0
23.05.2026	24.05.2026	1729	<0.01	<0.1	<0.5	<0.5	0.16	<1.0
29.05.2026	30.05.2026	1920	<0.01	<0.1	<0.5	<0.5	0.17	<1.0
30.05.2026	31.05.2026	1964	<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	20	6	1	4	5
			24 hrs.	Annual	Annual	Annual	1 hr.	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
Authorized Signature
Mallikarjuna
Dy. Technical Manager



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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 : MAY-2026

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

Duration of Monitoring : 24 Hour

Report Issued Date : 04.06.2026

Report Number : ULR-TC1618026000000733F

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
08.05.2026	09.05.2026	1196	51.32	14.32	12.82	11.86	3.52	<20.0
09.05.2026	10.05.2026	1204	49.32	13.65	9.64	10.45	0.00	<20.0
15.05.2026	16.05.2026	1479	58.22	10.22	11.54	8.44	0.00	<20.0
16.05.2026	17.05.2026	1507	55.21	14.85	9.45	11.13	7.88	<20.0
22.05.2026	23.05.2026	1695	53.28	10.21	10.41	12.45	8.65	<20.0
23.05.2026	24.05.2026	1730	54.21	11.75	9.87	9.86	5.24	<20.0
29.05.2026	30.05.2026	1921	44.65	14.87	8.95	10.45	0.00	<20.0
30.05.2026	31.05.2026	1965	51.32	13.55	12.87	9.77	4.24	<20.0
Average			52.19	12.92	10.69	10.55	3.69	<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

Authorized Signature
Mallikarjun
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.
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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), 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 : **MAY-2026**

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

Report Issued Date : **04.06.2026**

Report Number : **GEMS/SMIORE/2026-27/733**

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
08.05.2026	09.05.2026	1196	<0.01	<0.1	<0.5	<0.5	0.12	<1.0
09.05.2026	10.05.2026	1204	<0.01	<0.1	<0.5	<0.5	0.14	<1.0
15.05.2026	16.05.2026	1479	0.13	<0.1	<0.5	<0.5	0.13	<1.0
16.05.2026	17.05.2026	1507	0.15	<0.1	<0.5	<0.5	0.17	<1.0
22.05.2026	23.05.2026	1695	<0.01	<0.1	<0.5	<0.5	0.18	<1.0
23.05.2026	24.05.2026	1730	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
29.05.2026	30.05.2026	1921	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
30.05.2026	31.05.2026	1965	<0.01	<0.1	<0.5	<0.5	0.13	<1.0
Average			0.14	<0.1	<0.5	<0.5	0.14	<1.0
Limits for Industrial, Residential, Rural, and other Areas			1.0	20	6	1	4	5
			24 hrs.	Annual	Annual	Annual	1 hr.	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
Authorized Signature
Mallikarjuna S
Dy. Technical Manager

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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), Vysanakere,
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 : MAY-2026

Location : A3-Galemmannagudi Village

Duration of Monitoring : 24 Hour

Report Issue Date : 04.06.2026

Report Number : ULR-TC1618026000000734F

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
08.05.2026	09.05.2026	1197	54.32	12.32	11.32	11.34	0.0	<20.0
09.05.2026	10.05.2026	1205	56.32	11.52	9.25	9.68	0.00	<20.0
15.05.2026	16.05.2026	1480	51.22	13.66	9.55	14.21	0.00	<20.0
16.05.2026	17.05.2026	1508	61.44	15.44	14.21	11.24	0.00	<20.0
22.05.2026	23.05.2026	1696	55.22	12.11	8.65	9.86	0.00	<20.0
23.05.2026	24.05.2026	1731	51.22	14.32	10.84	14.12	0.00	<20.0
29.05.2026	30.05.2026	1922	54.22	17.65	9.94	10.21	0.00	<20.0
30.05.2026	31.05.2026	1966	49.62	13.41	9.44	9.60	0.00	<20.0
Average			54.19	13.80	10.4	11.28	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
Santreen P
Chemist

Authorized Signature
Mallikarjuna S
Dy. Technical Manager

Note:

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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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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 : **MAY-2026**

Location : **A3-Galemmanagudi Village**

Report Issued Date : **04.06.2026**

Report Number : **GEMS/SMIORE/2026-27/734**

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
08.05.2026	09.05.2026	1197	<0.01	<0.1	<0.5	<0.5	0.22	<1.0
09.05.2026	10.05.2026	1205	<0.01	<0.1	<0.5	<0.5	0.16	<1.0
15.05.2026	16.05.2026	1480	<0.01	<0.1	<0.5	<0.5	0.14	<1.0
16.05.2026	17.05.2026	1508	<0.01	<0.1	<0.5	<0.5	0.17	<1.0
22.05.2026	23.05.2026	1696	<0.01	<0.1	<0.5	<0.5	0.16	<1.0
23.05.2026	24.05.2026	1731	<0.01	<0.1	<0.5	<0.5	0.18	<1.0
29.05.2026	30.05.2026	1922	<0.01	<0.1	<0.5	<0.5	0.16	<1.0
30.05.2026	31.05.2026	1966	<0.01	<0.1	<0.5	<0.5	0.14	<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	20	6	1	4	5
			24 hrs.	Annual	Annual	Annual	1 hr.	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.
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****End of the Report***

Samreen P
Analysed By
Samreen P
Chemist

Mallikarjun
Authorized Signature
Mallikarjun
Dy. Technical Manager

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



GLOBAL ENVIRONMENT & MINING SERVICES LLP

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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

: MAY-2026

Location

: A4 - Near Plant Railway Siding

Duration of Monitoring

: 24 Hour

Report Issue Date

: 04.06.2026

Report Number

: ULR-TC1618026000000735F

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
08.05.2026	09.05.2026	1198	53.21	13.54	9.65	9.84	7.20	<20.0
09.05.2026	10.05.2026	1206	57.22	12.32	8.35	10.45	0.00	<20.0
15.05.2026	16.05.2026	1481	46.32	17.52	9.51	11.54	4.86	<20.0
16.05.2026	17.05.2026	1509	63.41	14.68	10.21	9.32	0.00	<20.0
22.05.2026	23.05.2026	1697	52.14	13.54	8.25	9.66	6.60	<20.0
23.05.2026	24.05.2026	1732	48.22	12.41	10.35	10.25	8.32	<20.0
29.05.2026	30.05.2026	1923	63.12	16.84	11.25	11.45	6.35	<20.0
30.05.2026	31.05.2026	1967	48.41	15.84	9.63	12.47	6.14	<20.0
Average			54.00	14.58	9.65	10.62	4.93	<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
Authorized Signature
Mallikarjuna S
Dy. Technical Manager
Global Environment & Mining Services *
HOSPET

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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- Recognised by Government of Karnataka, Maharashtra, Goa for DGPS survey



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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), 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 : **MAY-2026**

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

Report Issued Date : **04.06.2026**

Report Number : **GEMS/SMIORE/2026-27/735**

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
08.05.2026	09.05.2026	1198	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
09.05.2026	10.05.2026	1206	<0.01	<0.1	<0.5	<0.5	0.16	<1.0
15.05.2026	16.05.2026	1481	<0.01	<0.1	<0.5	<0.5	0.17	<1.0
16.05.2026	17.05.2026	1509	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
22.05.2026	23.05.2026	1697	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
23.05.2026	24.05.2026	1732	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
29.05.2026	30.05.2026	1923	<0.01	<0.1	<0.5	<0.5	0.14	<1.0
30.05.2026	31.05.2026	1967	<0.01	<0.1	<0.5	<0.5	0.17	<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	20	6	1	4	5
			24 hrs.	Annual	Annual	Annual	1 hr.	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*

Samyunn. P.
Analysed By
Samreen P
Chemist

Mallikarjuna S.
Authorized Signature
Mallikarjuna S
Dy. Technical Manager



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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: 25.04.2026
Calibration Due Date: 24.04.2027
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Sampling Location : Stack Attached to Furnace - 3
- 10 Month of Sampling : MAY-2026
- 11 Date of Monitoring : 09.05.2026
- 12 Date of Sample Received : 11.05.2026
- 13 Sample Code : 1207
- 14 Date of Sample Analysis : 11.05.2026
- 15 Date of Sample Analysis completion : 12.05.2026
- 16 Report Number : ULR-TC1618026000000744F
- 17 Report Issued Date : 04.06.2026

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	34	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	104	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	9.65	-
4	Gas flow rate at Stack Condition	IS-11255(Part 02) (RA 2014)	m ³ /hr	180780	-
5	Gas flow rate at NTP	IS-11255(Part 02) (RA 2014)	Nm ³ /hr	142480	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	95.18	150
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	15.0	-
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	26.21	-
9	Carbon Monoxide	GEMS/SOP/69	%	0.052	-
10	Oxygen (O ₂)	GEMS/SOP/70	%	18.72	-

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

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

Analysed By
Samreen P
Chemist

Authorized Signature
Mallikarjuna
Dy. Technical Manager



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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
- 5 Instrument Details : Calibration Date: 25.04.2026
Calibration Due Date: 24.04.2027
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Sampling Location : Stack Attached to Furnace - 5
- 10 Month of Sampling : MAY-2026
- 11 Date of Monitoring : 09.05.2026
- 12 Date of Sample Received : 11.05.2026
- 13 Sample Code : 1208
- 14 Date of Sample Analysis : 11.05.2026
- 15 Date of Sample Analysis completion : 12.05.2026
- 16 Report Number : ULR-TC1618026000000745F
- 17 Report Issued Date : 04.06.2026

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	105	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	13.54	-
4	Gas flow rate at Stack Condition	IS-11255(Part 02) (RA 2014)	m ³ /hr	280380	-
5	Gas flow rate at NTP	IS-11255(Part 02) (RA 2014)	Nm ³ /hr	234490	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	88.27	150
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	23.57	-
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	52.41	-
9	Carbon Monoxide	GEMS/SOP/69	%	0.042	-
10	Oxygen (O ₂)	GEMS/SOP/70	%	22.83	-

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

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

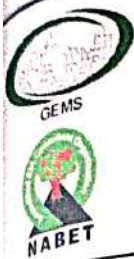
Samreen P
Analysed By
Samreen P
Chemist

Mallikarjuna
Authorized Signature
Mallikarjuna
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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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), 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: 25.04.2026
Calibration Due Date: 24.04.2027
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Sampling Location : Stack Attached to WHRB-01
- 10 Month of Sampling : MAY-2026
- 11 Date of Monitoring : 09.05.2026
- 12 Date of Sample Received : 11.05.2026
- 13 Sample Code : 1209
- 14 Date of Sample Analysis : 11.05.2026
- 15 Date of Sample Analysis completion : 12.05.2026
- 16 Report Number : ULR-TC1618026000000746F
- 17 Report Issued Date : 04.06.2026

Stack Details

- 1 Fuel Used -
- 2 Stack Height (m) 60
- 3 Stack Diameter (m) 4.6
4. Cross Sectional Area (m²) 16.62

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	156	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.48	-
4	Gas flow rate at Stack Condition	IS-11255(Part 02) (RA 2014)	m ³ /hr	208854	-
5	Gas flow rate at NTP	IS-11255(Part 02) (RA 2014)	Nm ³ /hr	142720	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	38.41	50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	380.54	800
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	138.24	500
9	Carbon Monoxide	GEMS/SOP/69	%	0.26	Max1%
10	Oxygen (O ₂)	GEMS/SOP/70	%	17.82	-

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

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

Analysed By
Samreen P
Chemist

Authorized Signature
Mallikarjuna
Dy. Technical Manager



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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: 25.04.2026
Calibration Due Date: 24.04.2027
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Sampling Location : Stack Attached to WHRB-02
- 10 Month of Sampling : MAY-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 : 04.06.2026

Stack Details

- 1 Fuel Used -
- 2 Stack Height (m) 60
- 3 Stack Diameter (m) 4.6
- 4 Cross Sectional Area (m²) 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

Authorized Signature
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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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: 25.04.2026
Calibration Due Date: 24.04.2027
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Sampling Location : Stack Attached to Coal Crushing
- 10 Month of Sampling : MAY-2026
- 11 Date of Monitoring : 15.05.2026
- 12 Date of Sample Received : 16.05.2026
- 13 Sample Code : 1482
- 14 Date of Sample Analysis : 16.05.2026
- 15 Date of Sample Analysis completion : 18.05.2026
- 16 Report Number : ULR-TC1618026000001019F
- 17 Report Issued Date : 04.06.2026

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

L	Parameters	Method	Unit	Result	Permissible Limit
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	35	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	31	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.82	-
4	Gas flow rate at Stack Condition	IS-11255(Part 02) (RA 2014)	m ³ /hr	7480	-
5	Gas flow rate at NTP	IS-11255(Part 02) (RA 2014)	Nm ³ /hr	7248	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	39.36	50

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

Sahreen P
Analysed By
Sahreen P
Chemist

Mallikarjun
Authorized Signatures
Mallikarjun
Dy. Technical Manager

The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
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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: 25.04.2026
Calibration Due Date: 24.04.2027
- 6 Discipline : Chemical
- 7 Group : Atmospheric Pollution
- 8 Sample Type : Stack Monitoring
- 9 Sampling Location : **Stack Attached to Coke Cutter**
- 10 Month of Sampling : **MAY-2026**
- 11 Date of Monitoring : 15.05.2026
- 12 Date of Sample Received : 16.05.2026
- 13 Sample Code : 1483
- 14 Date of Sample Analysis : 16.05.2026
- 15 Date of Sample Analysis completion : 18.05.2026
- 16 Report Number : **ULR-TC1618026000001020F**
- 17 Report Issued Date : **04.06.2026**

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	6.01	-
4	Gas flow rate at Stack Condition	IS-11255(Part 02) (RA 2014)	m ³ /hr	8086	-
5	Gas flow rate at NTP	IS-11255(Part 02) (RA 2014)	Nm ³ /hr	7428	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	35.60	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
Authorized Signature
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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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: 25.04.2026
Calibration Due Date: 24.04.2027
- 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 : MAY-2026
- 11 Date of Monitoring : 15.05.2026
- 12 Date of Sample Received : 16.05.2026
- 13 Sample Code : 1484
- 14 Date of Sample Analysis : 16.05.2026
- 15 Date of Sample Analysis completion : 18.05.2026
- 16 Report Number : ULR-TC1618026000001021F
- 17 Report Issued Date : 04.06.2026

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	34	-
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	5.96	-
4	Gas flow rate at Stack Condition	IS-11255(Part 02) (RA 2014)	m³/hr	8152	-
5	Gas flow rate at NTP	IS-11255(Part 02) (RA 2014)	Nm³/hr	7527	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm³	38.75	50

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

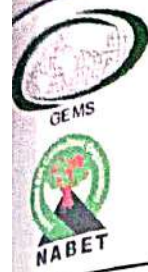
****End of the Report****

Analysed By
Sanneen P
Chemist

Authorized Signature
Mallikarjuna S
Dy. Technical Manager



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TC-16180

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 : **MAY-2026**

Duration of the Monitoring : 24 Hrs.

Report Issue Date : **04.06.2026**

Method Adopted : IS 9989-1981 Reaffirmed 2014

Report No : **ULR-TC1618026000000736F**

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										
1	Near Existing AAQMS 01 (SMIORE Schools)	08.05.2026	41.2	54.2	47.8	75	34.1	41.4	37.7	70
2	Near Water Reservoir (WTP Plant)	09.05.2026	40.4	55.4	47.9		38.2	47.6	42.9	
Residential Area										
3	Galemmanagudi	29.05.2026	43.2	53.4	48.1	55	35.4	43.5	39.4	45
4	Vyasanakere Village	15.05.2026	41.4	53.5	47.5		32.8	40.7	36.5	
5	Hanumana Halli	22.05.2026	44.2	52.7	48.4		36.7	42.4	39.5	

INFERENCE

As per CPCB Standards,

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

****End of the Report***

Authorized Signature
Mallikarjuna S.
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

Notes:

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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 : 1211
- 10 Date of Sampling : 09.05.2026
- 11 Sample Received : 09.05.2026
- 12 Date of Analysis : 11.05.2026
- 13 Date of Analysis Completion : 14.05.2026
- 14 Report Issue Date : 04.06.2026
- 15 Report Number : ULR-TC1618026000000748F

SL No.	Parameters	Protocol	Unit	Results	As per KSPCB Std
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.98	6.5 to 9.0
2.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	7.0	<20
3.	Biochemical Oxygen Demand as BOD (3 days at 27°C)	IS 3025 PART 44: 2023	mg/L	6.0	<10
4.	Chemical Oxygen Demand as COD	APHA 24th Edition 5220 B: 2023	mg/L	22.84	<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

Mallikarjun
Authorized Signature
Mallikarjun
Dy. Technical Manager

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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 : **1211**
- 10 Date of Sampling : **09.05.2026**
- 11 Sample Received : **09.05.2026**
- 12 Date of Analysis : **11.05.2026**
- 13 Date of Analysis Completion : **14.05.2026**
14. Report Issue Date : **04.06.2026**
- 15 Report Number : **GEMS/ SMIORE /STP/2026-27/748**

Sl. No.	Parameters	Protocol	Unit	Results	As per KSPCB Std
5	Ammonical nitrogen as N	IS:3025 (part 34)-1988, RA-2023	mg/L	0.40	<5
6	Total Nitrogen as N	IS:3025 (part 34)-1988, RA-2023	mg/L	1.70	<10
7	Fecal coliform	APHA 24th Edition 9222 B :2023	MPN/100ml	30	Less than 100

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

Samreen P
Analysed By
Samreen P
Chemist

Mallikarjuna
Authorized Signature
Mallikarjuna
Dy. Technical Manager

- **Recognized by Ministry of Environment, Forest and Climate Change for Laboratory**
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