

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

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Bengaluru - 560 080
Karnataka, India

Tel: +91 80 4152 0176 - 79 / 4547 3000
Fax: +91 80 4152 0182

Ref No: SMIORE/PLANT/ENV/MR/2026-27/025

06/07/2026

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 **June-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 **June 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 **June-2026**

ಸ್ವೀಕೃತಿ
ಕ.ರಾ.ಮಾ.ನಿ. ಮಂಡಳಿ

ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ ವಿಜಯನಗರ ಹೊಸಪೇಟೆ
ಸಂಖ್ಯೆ/ದಿನಾಂಕ: 6/7/26 ಸಹಿ

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

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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
- Waste Water Quality Analysis
- Stack Emissions Monitoring
- DG Stack Emissions/DG Noise Level Monitoring
- Fugitive Emissions
- Work zone Noise Level Monitoring
- Soil Quality Analysis

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:03.07.2026

Dr.D.N.Gulhane
(Quality Manager)



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),
Vyasanakere, Hanumanahalli Village,
Hospet Taluk, Vijayanagara Dist.,

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 : **JUNE-2026**

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

Report Issued Date : **03.07.2026**

Report Number : **ULR-TC1618026000001731F**

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
05.06.2026	06.06.2026	2179	41.92	13.14	7.61	7.68	0.00	<20.0
06.06.2026	07.06.2026	2190	45.18	12.79	9.88	9.91	0.00	<20.0
12.06.2026	13.06.2026	2362	41.84	12.88	10.54	10.23	0.00	<20.0
13.06.2026	14.06.2026	2382	44.05	11.93	9.13	8.87	0.00	<20.0
19.06.2026	20.06.2026	2575	39.73	12.31	7.74	9.79	0.00	<20.0
20.06.2026	21.06.2026	2585	41.26	10.94	11.57	14.35	0.00	<20.0
26.06.2026	27.06.2026	2782	35.41	12.57	8.46	10.64	0.00	<20.0
27.06.2026	28.06.2026	2798	38.96	12.71	10.91	11.52	0.00	<20.0
Average			41.04	12.41	9.48	10.37	0.00	<20.0
Limits for Industrial, Residential, Rural and other Areas			100	60	80	80	180	400
			24hrs	24hrs	24hrs	24hrs	1hrs*	24hrs

Note: * Parameters monitored for period of 1 hr.

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

Lakshmi B.S
Analysed By
Lakshmi B S
Chemist

****End of the Report****
S. Venkatesh
Verified By
S. Venkatesh
Asst. General Manager

Dr.D.N.Gulhane
Authorized Signatory
Dr.D.N.Gulhane
Quality 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

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e-mail : gems_hpt@yahoo.com

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),
Vyasanakere, Hanumanahalli Village,
Hospet Taluk, Vijayanagara Dist.,

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 : **JUNE-2026**

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

Report Issued Date : **03.07.2026**

Report Number : **GEMS/SMIORE/2026-27/1731**

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
05.06.2026	06.06.2026	2179	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
06.06.2026	07.06.2026	2190	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
12.06.2026	13.06.2026	2362	0.10	<0.1	<0.5	<0.5	<0.01	<1.0
13.06.2026	14.06.2026	2382	0.11	<0.1	<0.5	<0.5	<0.01	<1.0
19.06.2026	20.06.2026	2575	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
20.06.2026	21.06.2026	2585	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
26.06.2026	27.06.2026	2782	<0.01	<0.1	<0.5	<0.5	0.09	<1.0
27.06.2026	28.06.2026	2798	0.14	<0.1	<0.5	<0.5	<0.01	<1.0
Average			0.11	<0.1	<0.5	<0.5	0.09	<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 monitored for period of 1 Hrs.

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****

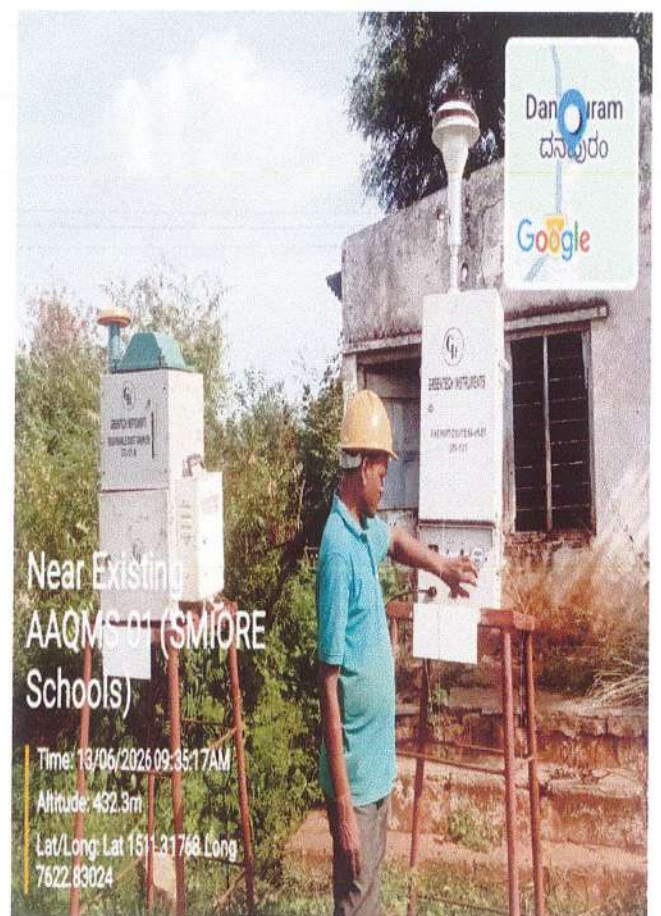
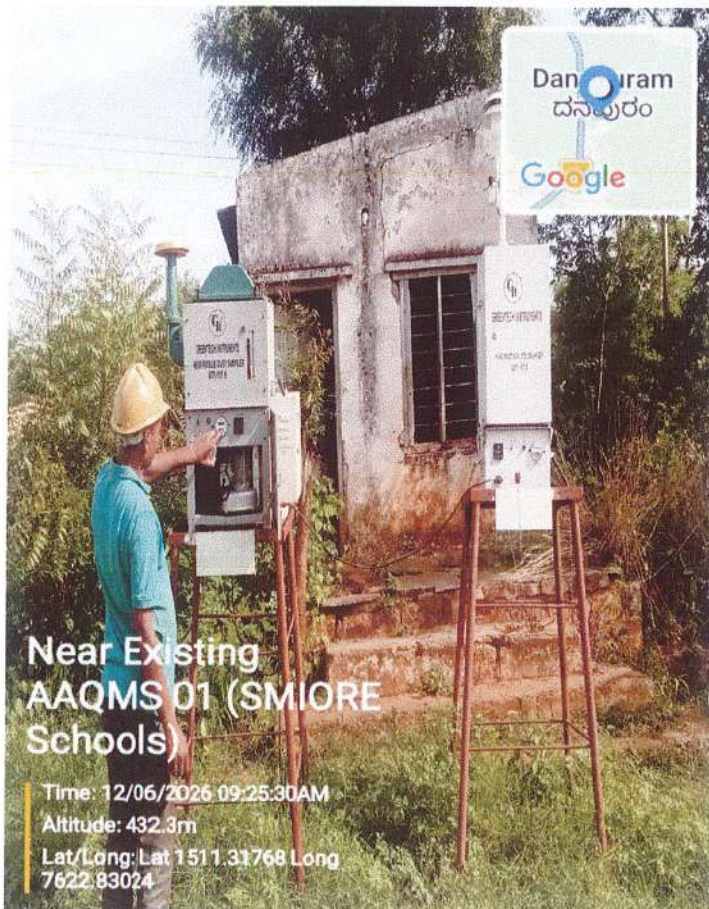
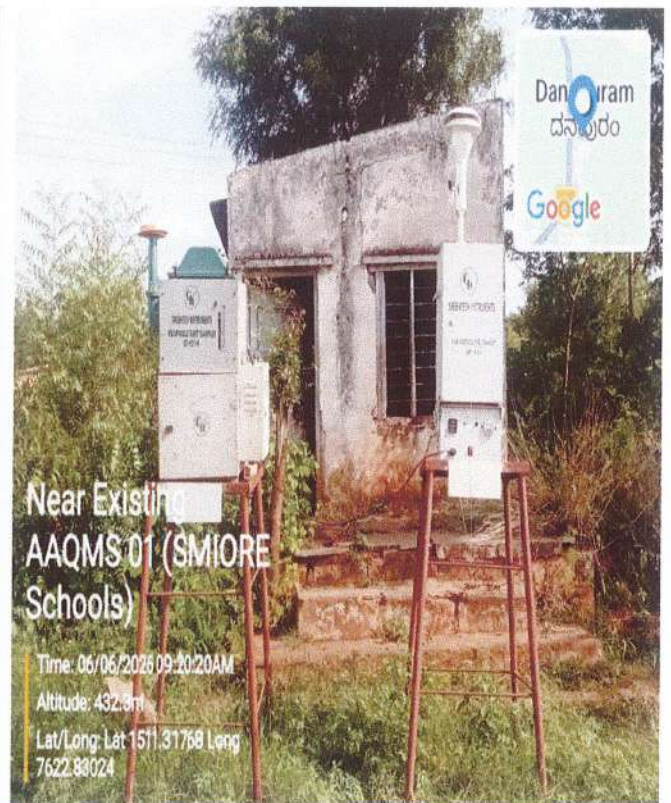
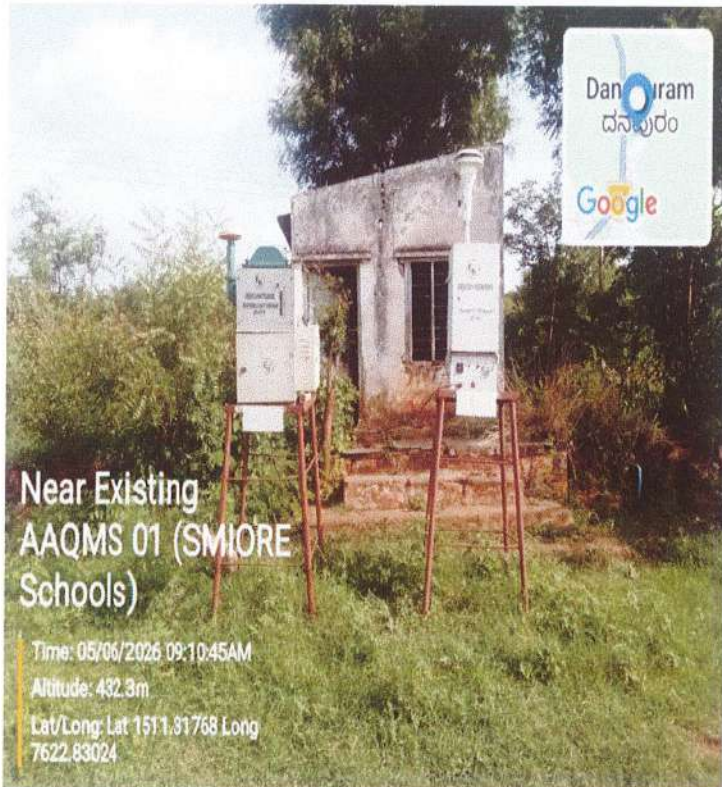
Lakshmi B. S
Analysed By
Lakshmi B S
Chemist

S. Venkatesh
Verified By
S. Venkatesh
Asst. General Manager

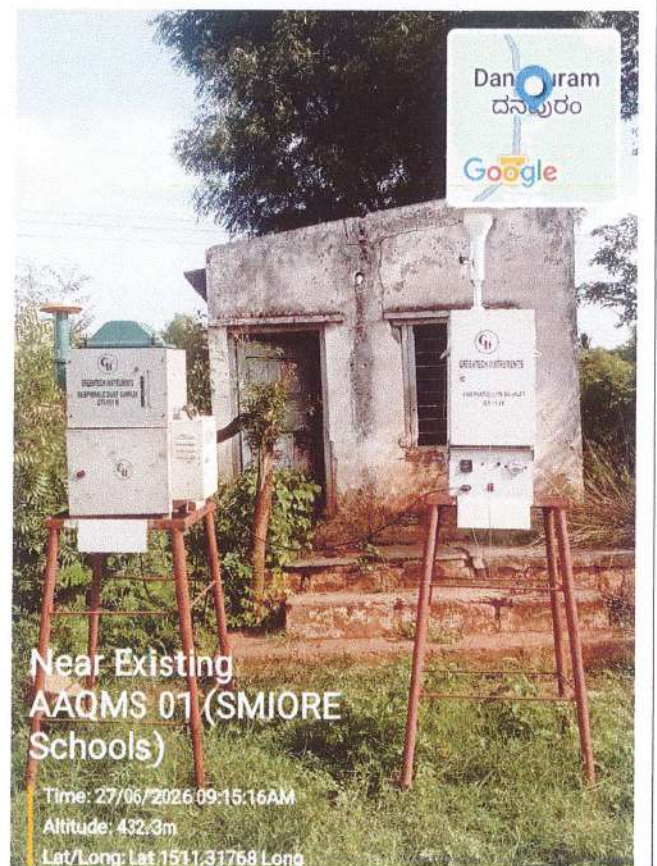
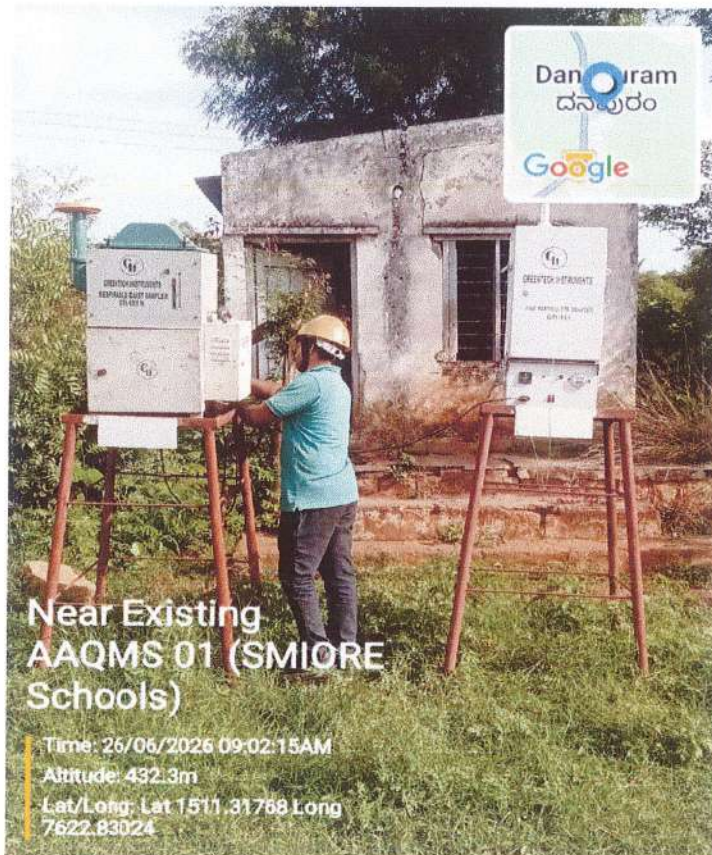
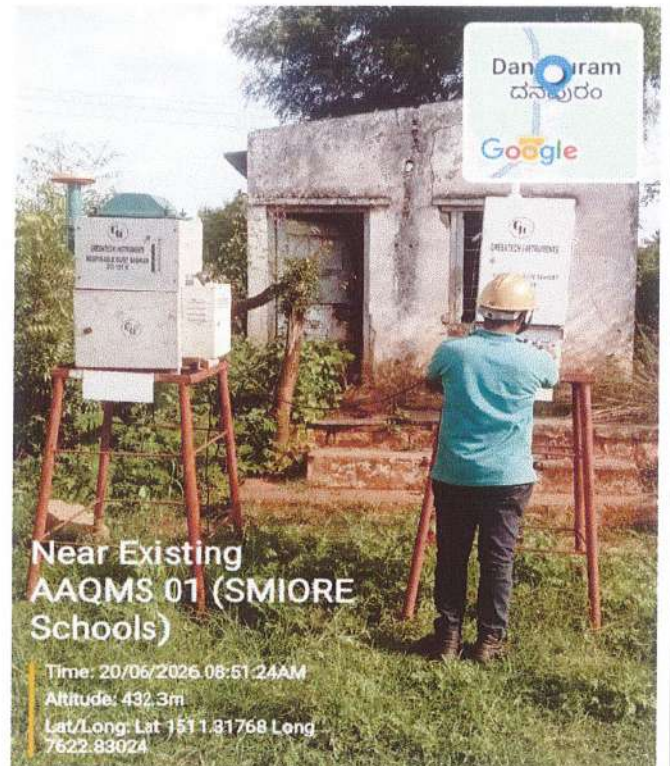
Dr.D.N.Gulhane
Authorized Signatory
Dr.D.N.Gulhane
Quality Manager

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

SMIORE JUNE -2026



SMIORE JUNE -2026





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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.,
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 : JUNE-2026
Location : A2 - Existing Water Reservoir (Near WTP Plant)
Duration of Monitoring : 24 Hour
Report Issued Date : 03.07.2026
Report Number : ULR-TC1618026000001732F

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
05.06.2026	06.06.2026	2180	46.11	8.34	8.17	8.21	3.41	<20.0
06.06.2026	07.06.2026	2191	45.27	9.91	9.21	9.14	0.08	<20.0
12.06.2026	13.06.2026	2363	40.94	10.68	8.66	8.57	3.47	<20.0
13.06.2026	14.06.2026	2383	47.02	11.07	8.34	9.48	0.13	<20.0
19.06.2026	20.06.2026	2576	41.48	8.72	7.52	8.41	0.05	<20.0
20.06.2026	21.06.2026	2586	37.14	7.83	7.89	7.52	3.92	<20.0
26.06.2026	27.06.2026	2783	40.23	11.64	8.41	7.93	0.11	<20.0
27.06.2026	28.06.2026	2799	35.06	9.38	10.63	10.76	0.09	<20.0
Average			41.65	9.69	8.60	8.75	1.40	<20.0
Limits for Industrial, Residential, Rural, and other Areas			100	60	80	80	180	400
			24hrs	24hrs	24hrs	24hrs	1hrs*	24hrs

Note: * Parameters monitored for 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****

Lakshmi B.S
Analysed By
Lakshmi B S
Chemist

S. Venkatesh
Verified By
S. Venkatesh
Asst. General Manager

Dr. D.N. Gulhane
Authorized Signatory
Dr.D.N.Gulhane
Quality 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.
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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),
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Vijayanagara Dist.,

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 : **JUNE-2026**

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

Report Issued Date : **03.07.2026**

Report Number : **GEMS/SMIORE/2026-27/1732**

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 (C6H6), 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
05.06.2026	06.06.2026	2180	<0.01	<0.1	<0.5	<0.5	0.10	<1.0
06.06.2026	07.06.2026	2191	<0.01	<0.1	<0.5	<0.5	0.09	<1.0
12.06.2026	13.06.2026	2363	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
13.06.2026	14.06.2026	2383	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
19.06.2026	20.06.2026	2576	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
20.06.2026	21.06.2026	2586	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
26.06.2026	27.06.2026	2783	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
27.06.2026	28.06.2026	2799	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
Average			<0.01	<0.1	<0.5	<0.5	0.09	<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 monitored for period of 1Hrs

INFERENCE

As per NAAQMS Standards (2009),

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

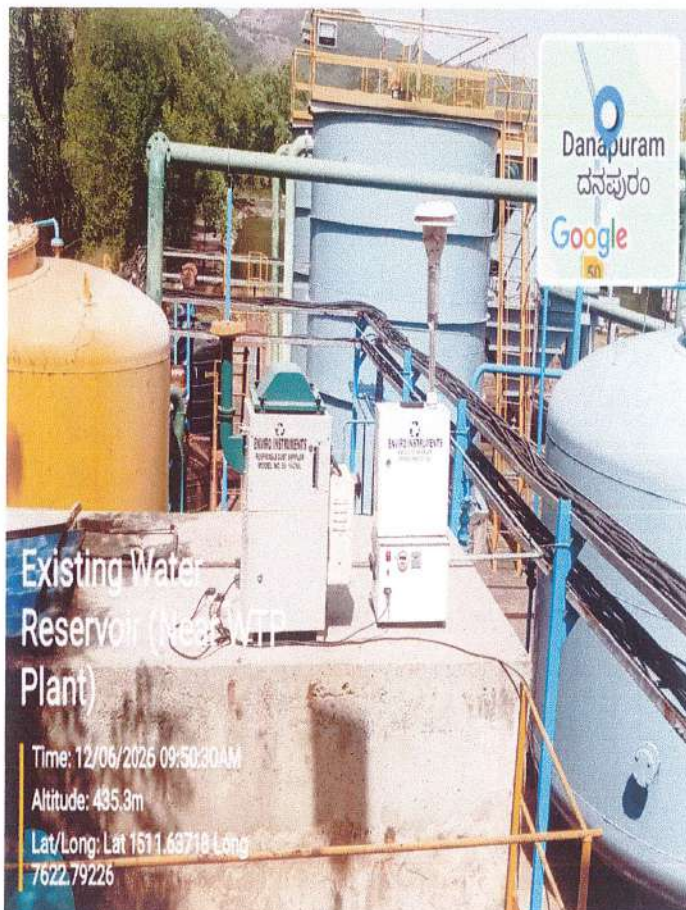
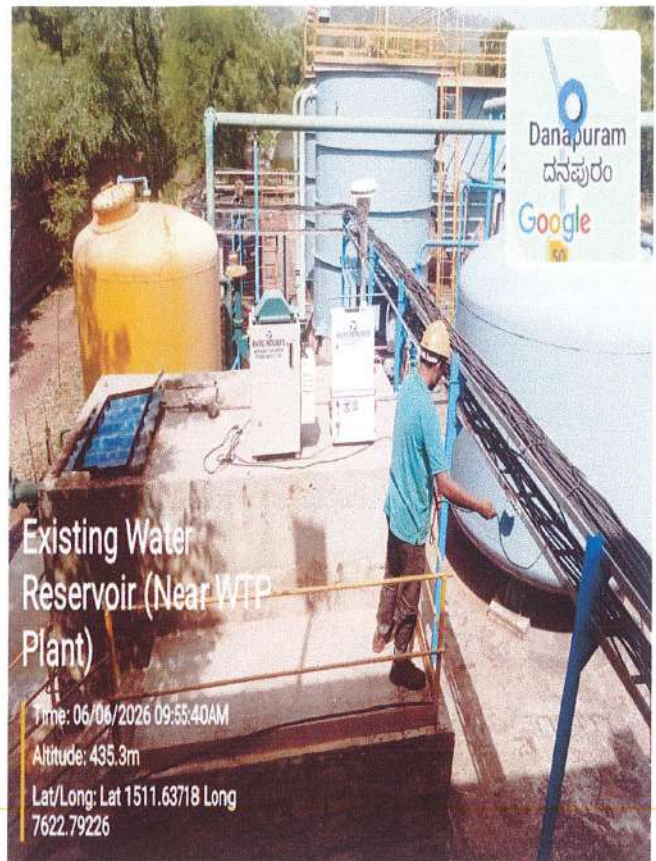
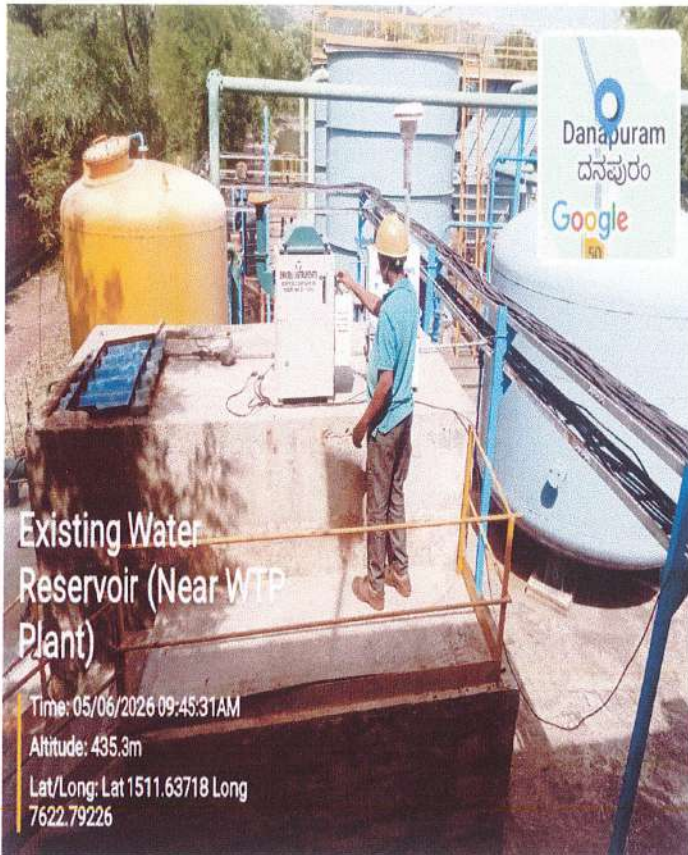
Lakshmi B S
Analysed By
Lakshmi B S
Chemist

****End of the Report****
S. Venkatesh
Verified By
S. Venkatesh
Asst. General Manager

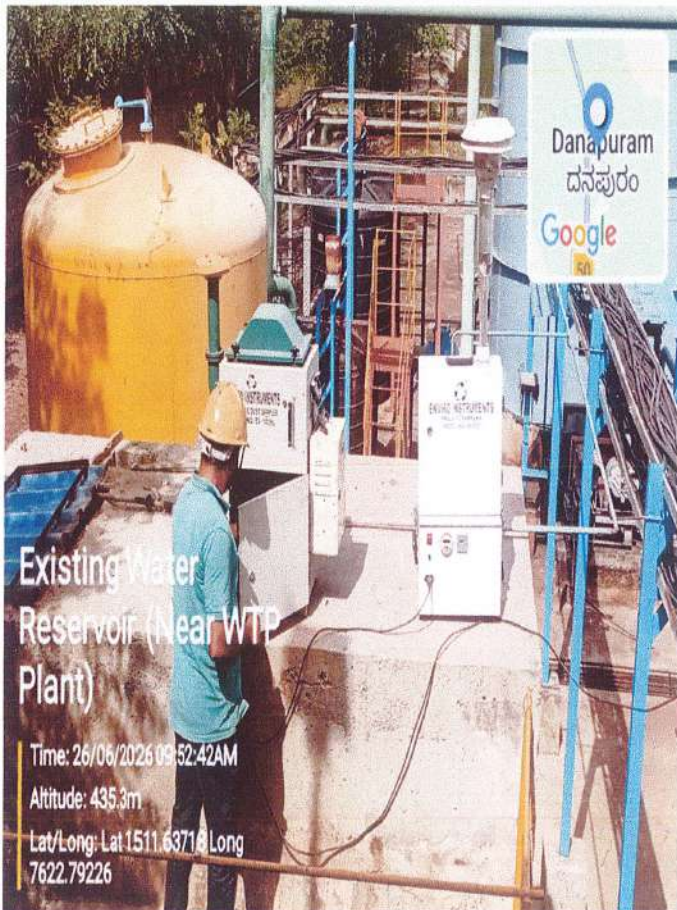
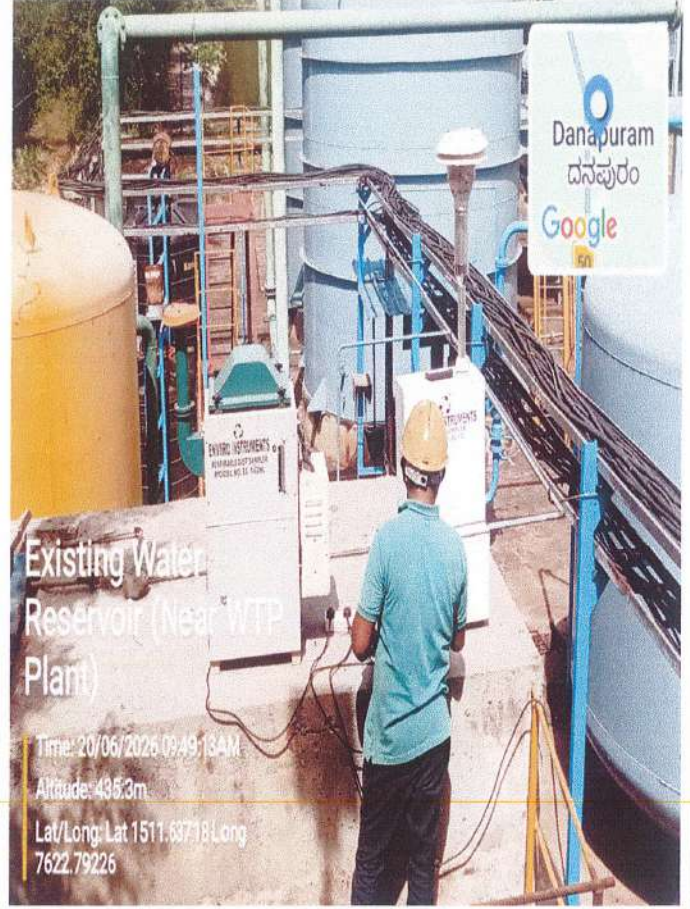
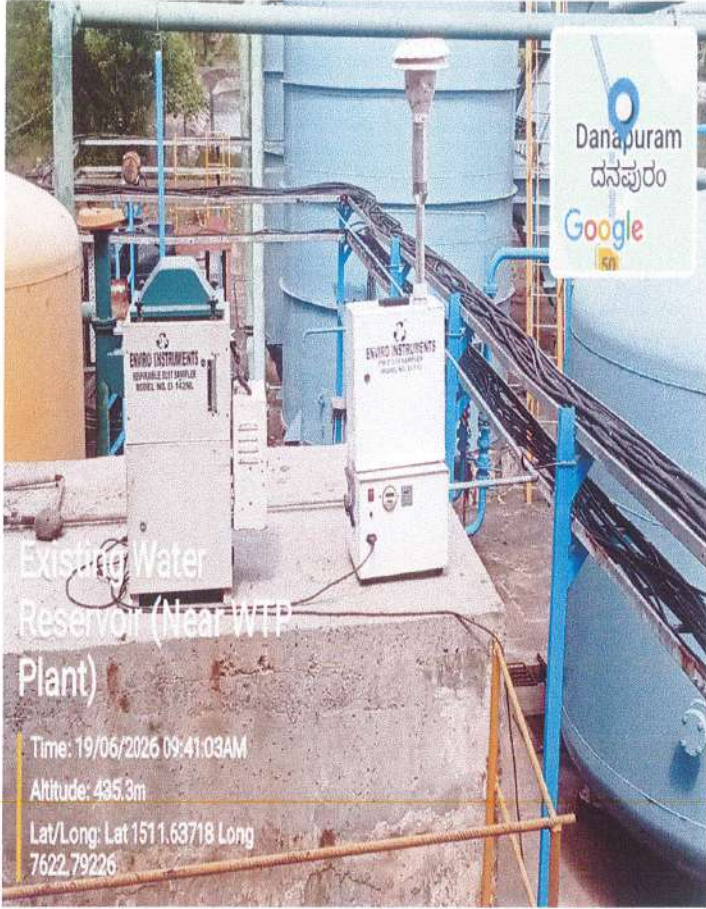
Dr. D. N. Gulhane
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Dr. D. N. Gulhane
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- Recognized by Government of Karnataka, Maharashtra, Goa for DGPS survey

SMIORE JUNE -2026



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GLOBAL ENVIRONMENT & MINING SERVICES LLP

(Consulting Engineers, Mine designers, Geologist & Surveyors)

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HOSAPETE - 583201, Dist., Vijayanagara (Karnataka)

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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),
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Vijayanagara Dist.,

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 : **JUNE-2026**

Location : **A3-Galemmanagudi Village**

Duration of Monitoring : 24 Hour

Report Issue Date : **03.07.2026**

Report Number : **ULR-TC1618026000001733F**

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
05.06.2026	06.06.2026	2181	54.91	18.34	8.02	9.12	0.00	<20.0
06.06.2026	07.06.2026	2192	66.12	17.91	13.17	15.83	0.00	<20.0
12.06.2026	13.06.2026	2364	64.73	20.28	10.94	12.04	2.63	<20.0
13.06.2026	14.06.2026	2384	68.58	17.63	11.23	15.21	0.00	<20.0
19.06.2026	20.06.2026	2577	69.21	16.42	8.31	10.68	0.00	<20.0
20.06.2026	21.06.2026	2587	66.03	21.07	11.68	12.31	2.15	<20.0
26.06.2026	27.06.2026	2784	67.88	14.56	10.27	14.37	0.00	<20.0
27.06.2026	28.06.2026	2800	65.94	14.87	9.56	11.94	0.00	<20.0
Average			65.42	17.64	10.40	12.69	2.39	<20.0
Limits for Industrial, Residential, Rural, and other Areas			100	60	80	80	180	400
			24hrs	24hrs	24hrs	24hrs	1hrs*	24hrs

Note: * Parameters monitored for 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****

Lakshmi B.S.
Analysed By
Lakshmi B S
Chemist

S. Venkatesh
Verified By
S. Venkatesh
Asst. General Manager

Dr. D.N. Gulhane
Authorized Signatory
Dr. D.N. Gulhane
Quality Manager

Note:

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
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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,
Hospet Taluk, Vijayanagara Dist.,

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 : JUNE-2026

Location : A3-Galemmanagudi Village

Report Issued Date : 03.07.2026

Report Number : GEMS/SMIORE/2026-27/1733

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
05.06.2026	06.06.2026	2181	<0.1	<0.1	<0.5	<0.5	<0.01	<1.0
06.06.2026	07.06.2026	2192	<0.1	<0.1	<0.5	<0.5	<0.01	<1.0
12.06.2026	13.06.2026	2364	<0.1	<0.1	<0.5	<0.5	<0.01	<1.0
13.06.2026	14.06.2026	2384	<0.1	<0.1	<0.5	<0.5	<0.01	<1.0
19.06.2026	20.06.2026	2577	<0.1	<0.1	<0.5	<0.5	<0.01	<1.0
20.06.2026	21.06.2026	2587	<0.1	<0.1	<0.5	<0.5	<0.01	<1.0
26.06.2026	27.06.2026	2784	<0.1	<0.1	<0.5	<0.5	<0.01	<1.0
27.06.2026	28.06.2026	2800	<0.1	<0.1	<0.5	<0.5	<0.01	<1.0
Average			<0.1	<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 monitored for period of 1Hrs

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

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

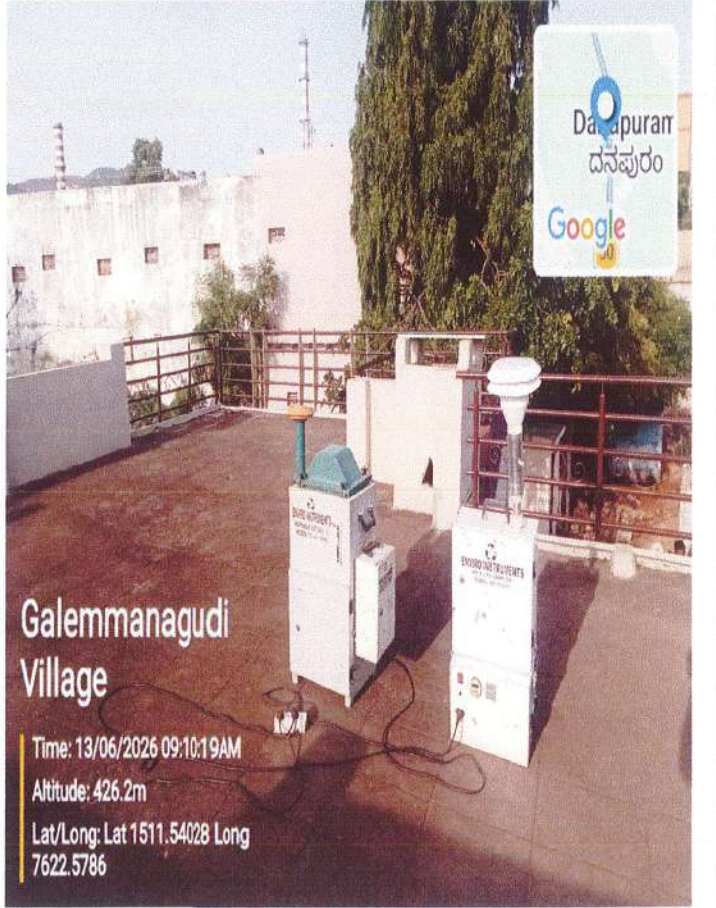
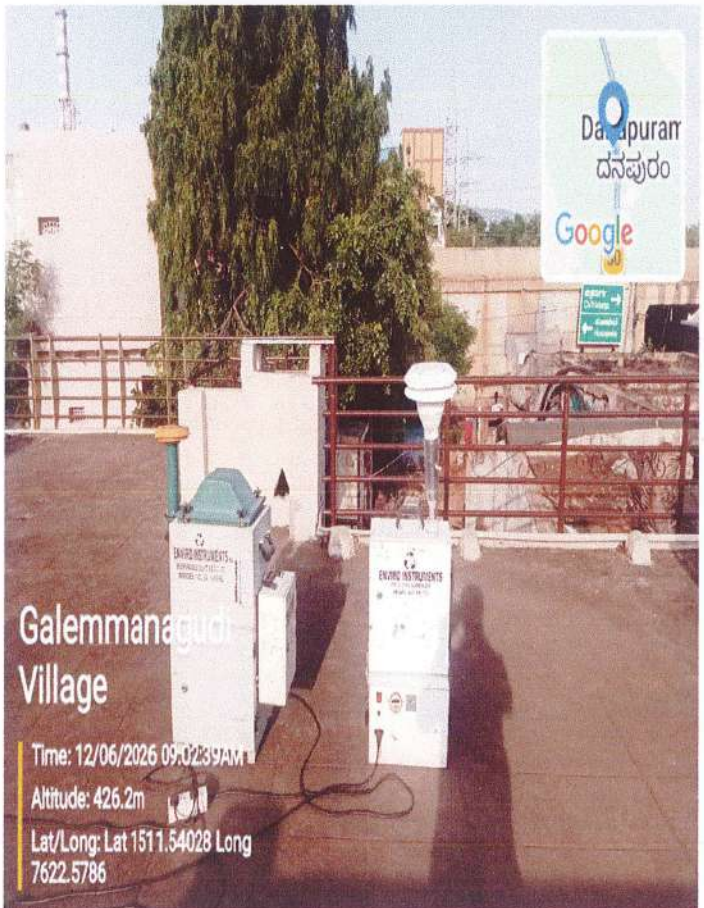
Lakshmi B.S
Analysed By
Lakshmi B S
Chemist

S. Venkatesh
Verified By
S. Venkatesh
Asst. General Manager

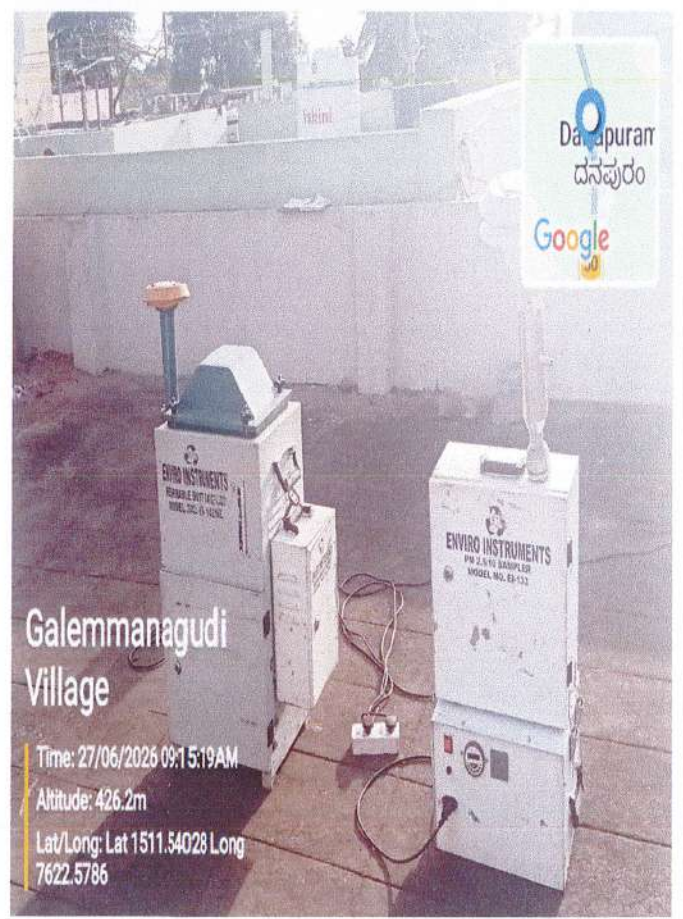
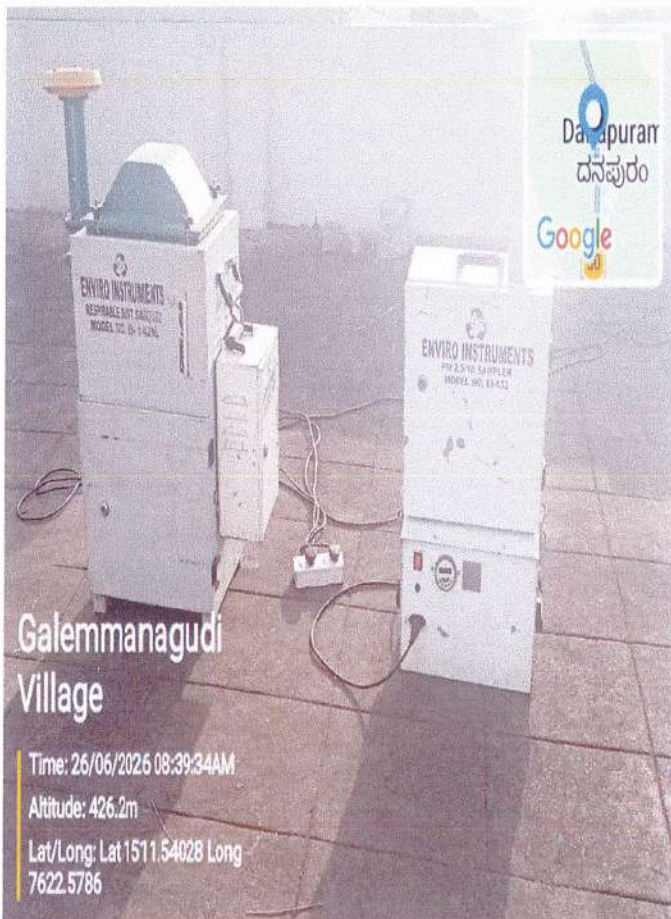
Dr. D. N. Gulhane
Authorized Signatory
Dr. D. N. Gulhane
Quality Manager

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

SMIORE JUNE -2026



SMIORE JUNE -2026





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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.
Customer Reference	(Metal & Ferro Alloys Plant),
Sample collected by	Vyasanakere, Hanumanahalli Village,
Discipline	Hospet Taluk, Vijayanagara Dist.,
Group	Workorder No.4200011817 Dated:20.08.2025
Sample Type	Global Environment & Mining Services LLP
Particulars of Sample Collected	Chemical
Month	Atmospheric Pollution
Location	Ambient Air Quality Monitoring
Duration of Monitoring	Respirable Dust Sampler, FPS Sampler
Report Issue Date	JUNE-2026
Report Number	A4 - Near Plant Railway Siding
	24 Hour
	03.07.2026
	ULR-TC1618026000001734F

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
05.06.2026	06.06.2026	2182	56.94	13.11	8.24	9.64	3.78	<20.0
06.06.2026	07.06.2026	2193	50.83	11.94	8.97	9.78	0.21	<20.0
12.06.2026	13.06.2026	2365	47.12	10.67	10.36	10.24	0.08	<20.0
13.06.2026	14.06.2026	2385	53.06	11.58	10.58	13.17	11.04	<20.0
19.06.2026	20.06.2026	2578	44.68	9.02	9.21	10.36	16.95	<20.0
20.06.2026	21.06.2026	2588	46.91	10.11	10.12	11.51	0.14	<20.0
26.06.2026	27.06.2026	2785	48.37	9.87	7.63	8.42	10.31	<20.0
27.06.2026	28.06.2026	2801	46.75	10.72	9.47	8.87	7.92	<20.0
Average			49.33	10.88	9.32	10.25	6.30	<20.0
Limits for Industrial, Residential, Rural, and other Areas			100	60	80	80	180	400
			24hrs	24hrs	24hrs	24hrs	1hrs*	24hrs

Note: * Parameters monitored for 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****

Lakshmi B.S
Analysed By
Lakshmi B S
Chemist

S. Venkatesh
Verified By
S. Venkatesh
Asst. General Manager

Dr.D.N.Gulhane
Authorized Signatory
Dr.D.N.Gulhane
Quality Manager

Note:

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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.,

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 : **JUNE-2026**

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

Report Issued Date : **03.07.2026**

Report Number : **GEMS/SMIORE/2026-27/1734**

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
05.06.2026	06.06.2026	2182	0.11	<0.1	<0.5	<0.5	0.08	<1.0
06.06.2026	07.06.2026	2193	0.13	<0.1	<0.5	<0.5	0.1	<1.0
12.06.2026	13.06.2026	2365	0.19	<0.1	<0.5	<0.5	0.15	<1.0
13.06.2026	14.06.2026	2385	0.16	<0.1	<0.5	<0.5	0.12	<1.0
19.06.2026	20.06.2026	2578	0.14	<0.1	<0.5	<0.5	0.11	<1.0
20.06.2026	21.06.2026	2588	0.15	<0.1	<0.5	<0.5	0.17	<1.0
26.06.2026	27.06.2026	2785	0.16	<0.1	<0.5	<0.5	0.14	<1.0
27.06.2026	28.06.2026	2801	0.11	<0.1	<0.5	<0.5	0.15	<1.0
Average			0.14	<0.1	<0.5	<0.5	0.12	<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 monitored for period of 1 Hrs.

INFERENCE

As per NAAQMS Standards (2009),

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

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

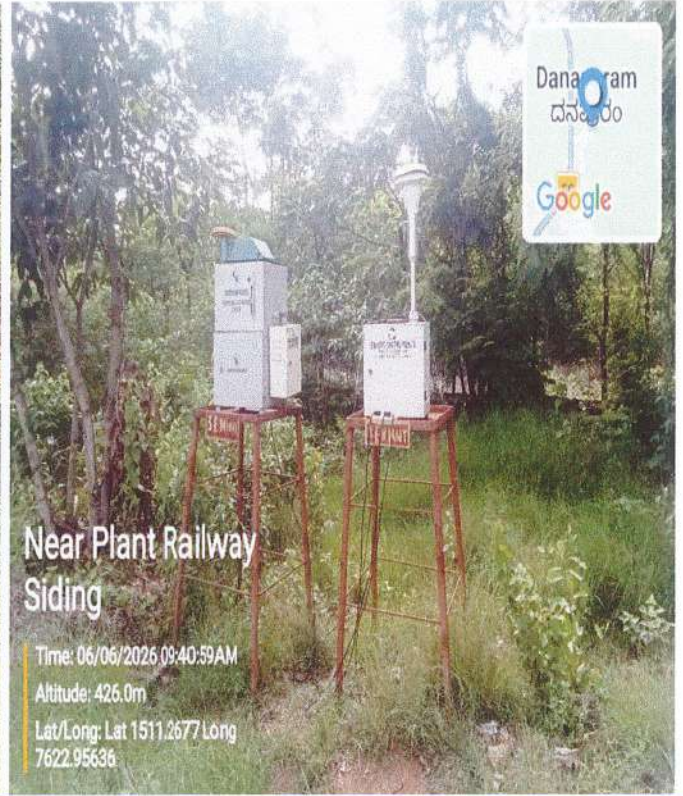
Lakshmi B.S
Analysed By
Lakshmi B S
Chemist

S. Venkatesh
Verified By
S. Venkatesh
Asst. General Manager

Dr. D.N. Gulhane
Authorized Signatory
Dr.D.N.Gulhane
Quality Manager

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

SMIORE JUNE -2026



SMIORE JUNE -2026





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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

Name of the Industry	: M/s. The Sandur Manganese & Iron Ores Ltd.
1	(Metal & Ferro Alloys Plant), Vyasnakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist.,
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: 22.05.2026 Calibration Due Date: 21.05.2027
6 Discipline	: Chemical
7 Group	: Atmospheric Pollution
8 Sample Type	: Stack Monitoring
9 Sampling Location	: Stack Attached to Furnace - 3
10 Month of Sampling	: JUNE-2026
11 Date of Monitoring	: 05.06.2026
12 Date of Sample Received	: 06.06.2026
13 Sample Code	: 2183
14 Date of Sample Analysis	: 06.06.2026
15 Date of Sample Analysis completion	: 08.06.2026
16 Report Number	: ULR-TC1618026000001735F
17 Report Issued Date	: 03.07.2026

Stack Details

1	Fuel Used	-
2	Stack Height (mtr)	35
3	Stack Diameter (mtr)	2.5
4.	Cross Sectional Area in meter square (m2)	4.909

Emission Details

Sl. No.	Parameters	Method	Unit	Result	Permissible Limit
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	32	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	109	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	9.15	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	173189	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	130059	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	93.53	150
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	15.94	-
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	24.37	-
9	Carbon Monoxide	GEMS/SOP/69	%	0.059	-
10	Oxygen (O ₂)	GEMS/SOP/70	%	17.25	-

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

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

Lakshmi B.S.
Analysed By
Lakshmi B S
Chemist

S. Venkatesh
Verified By
S. Venkatesh
Asst. General Manager

Dr. D.N. Gulhan
Authorized Signatory
Dr.D.N.Gulhan
Quality Manager

Note:

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HOSAPETE - 583201, Dist., Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

ANNEXURE-6
GEMS-LD/TF/10/01

Analysis Report of Stack Emission

Name of the Industry	: M/s. The Sandur Manganese & Iron Ores Ltd.
1	(Metal & Ferro Alloys Plant), Vyasnakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist.,
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: 22.05.2026 Calibration Due Date: 21.05.2027
6 Discipline	: Chemical
7 Group	: Atmospheric Pollution
8 Sample Type	: Stack Monitoring
9 Sampling Location	: Stack Attached to Furnace - 5
10 Month of Sampling	: JUNE-2026
11 Date of Monitoring	: 05.06.2026
12 Date of Sample Received	: 06.06.2026
13 Sample Code	: 2184
14 Date of Sample Analysis	: 06.06.2026
15 Date of Sample Analysis completion	: 08.06.2026
16 Report Number	: ULR-TC1618026000001736F
17 Report Issued Date	: 03.07.2026

Stack Details

1 Fuel Used	-
2 Stack Height (mtr)	35
3 Stack Diameter (mtr)	3.0
4 Cross Sectional Area in meter square (m2)	7.071

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	106	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	11.83	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	271852	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	221314	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	87.39	150
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	23.92	-
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	51.07	-
9	Carbon Monoxide	GEMS/SOP/69	%	0.039	-
10	Oxygen (O ₂)	GEMS/SOP/70	%	22.08	-

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

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

Lakshmi B S
Analysed By
Lakshmi B S
Chemist

S. Venkatesh
Verified By
S. Venkatesh
Asst. General Manager

Dr. D.N. Gulhane
Authorized Signatory
Dr.D.N.Gulhane
Quality Manager

Note:

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

Analysis Report of Stack Emission

Name of the Industry	: M/s. The Sandur Manganese & Iron Ores Ltd.
1	(Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist.,
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: 22.05.2026 Calibration Due Date: 21.05.2027
6 Discipline	: Chemical
7 Group	: Atmospheric Pollution
8 Sample Type	: Stack Monitoring
9 Sampling Location	: Stack Attached to WHRB-01
10 Month of Sampling	: JUNE-2026
11 Date of Monitoring	: 06.06.2026
12 Date of Sample Received	: 06.06.2026
13 Sample Code	: 2196
14 Date of Sample Analysis	: 08.06.2026
15 Date of Sample Analysis completion	: 10.06.2026
16 Report Number	: ULR-TC1618026000001744F
17 Report Issued Date	: 03.07.2026

Stack Details

1 Fuel Used	-
2 Stack Height (mtr)	60
3 Stack Diameter (mtr)	4.6
4. Cross Sectional Area in meter square (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	149	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.83	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	198341	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	131735	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	38.81	50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	328.27	800
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	139.28	500
9	Carbon Monoxide	GEMS/SOP/69	%	0.27	Max1%
10	Oxygen (O ₂)	GEMS/SOP/70	%	16.38	-

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

End of the Report

Lakshmi B. S.
Analysed By
Lakshmi B S
Chemist

S. Venkatesh
Verified By
S. Venkatesh
Asst. General Manager

Authorized Signatory
Dr.D.N.Gulhane
Quality 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.
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TC-16180

ANNEXURE-8 GEMS-LD/TF/10/01

Analysis Report of Stack Emission

Name of the Industry	:	M/s. The Sandur Manganese & Iron Ores Ltd.
1	:	(Metal & Ferro Alloys Plant), Vyasnakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist.,
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: 22.05.2026 Calibration Due Date: 21.05.2027
6 Discipline	:	Chemical
7 Group	:	Atmospheric Pollution
8 Sample Type	:	Stack Monitoring
9 Sampling Location	:	Stack Attached to WHRB-02
10 Month of Sampling	:	Shutdown
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	:	-

Stack Details

1	Fuel Used	-
2	Stack Height (mtr)	60
3	Stack Diameter (mtr)	4.6
4.	Cross Sectional Area in meter square (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 03) (RA 2014)	m ³ /hr		-
5	Gas flow rate at NTP	IS-11255(Part 03) (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 Signatory
Dr.D.N.Gulhane
Quality Manager

Note:

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Website : www.gemslp.in



TC-16180

ANNEXURE-09
GEMS-LD/TF/10/01

Analysis Report of Stack Emission

Name of the Industry	:	M/s. The Sandur Manganese & Iron Ores Ltd.
1		(Metal & Ferro Alloys Plant), Vyasnakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist.,
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: 22.05.2026 Calibration Due Date: 21.05.2027
6 Discipline	:	Chemical
7 Group	:	Atmospheric Pollution
8 Sample Type	:	Stack Monitoring
9 Sampling Location	:	Stack Attached to Coal Crushing
10 Month of Sampling	:	JUNE-2026
11 Date of Monitoring	:	12.06.2026
12 Date of Sample Received	:	13.06.2026
13 Sample Code	:	2366
14 Date of Sample Analysis	:	13.06.2026
15 Date of Sample Analysis completion	:	15.06.2026
16 Report Number	:	ULR-TC1618026000001819F
17 Report Issued Date	:	03.07.2026

Stack Details

1	Fuel Used	-
2	Stack Height (mtr)	15
3	Stack Diameter (mtr)	0.7
4.	Cross Sectional Area in meter square (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	32	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.61	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	7196	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	6936	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	38.51	50

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

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

Lakshmi B.S.
Analysed By
Lakshmi B S
Chemist

S. Venkatesh
Verified By
S. Venkatesh
Asst. General Manager

Dr. D. N. Gulhane
Authorized Signatory
Dr.D.N.Gulhane
Quality Manager

Note:

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TC-16180

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

Analysis Report of Stack Emission

Name of the Industry	: M/s. The Sandur Manganese & Iron Ores Ltd.
1	(Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist.,
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: 22.05.2026 Calibration Due Date: 21.05.2027
6 Discipline	: Chemical
7 Group	: Atmospheric Pollution
8 Sample Type	: Stack Monitoring
9 Sampling Location	: Stack Attached to Coke Cutter
10 Month of Sampling	: JUNE-2026
11 Date of Monitoring	: 12.06.2026
12 Date of Sample Received	: 13.06.2026
13 Sample Code	: 2367
14 Date of Sample Analysis	: 13.06.2026
15 Date of Sample Analysis completion	: 15.06.2026
16 Report Number	: ULR-TC1618026000001820F
17 Report Issued Date	: 03.07.2026

Stack Details

1 Fuel Used	-
2 Stack Height (mtr)	15
3 Stack Diameter (mtr)	0.7
4. Cross Sectional Area in meter square (m2)	0.3850

Emission Details

Sl. No.	Parameters	Method	Unit	Result	Permissible Limit
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	32	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	37	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.93	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	7937	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	7216	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	36.18	50

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

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

Lakshmi B.S.
Analysed By
Lakshmi B S
Chemist

S. Venkatesh
Verified By
S. Venkatesh
Asst. General Manager

Dr.D.N.Gulhane
Authorized Signatory
Dr.D.N.Gulhane
Quality Manager

Note:

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GEMS



NABET

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Website : www.gemslip.in



TC-16180

ANNEXURE-11
GEMS-LD/TF/10/01**Analysis Report of Stack Emission**

Name of the Industry	: M/s. The Sandur Mangnese & Iron Ores Ltd.
1	(Metal & Ferro Alloys Plant), Vyasnakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist.,
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: 22.05.2026 Calibration Due Date: 21.05.2027
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	: JUNE-2026
11 Date of Monitoring	: 12.06.2026
12 Date of Sample Received	: 13.06.2026
13 Sample Code	: 2368
14 Date of Sample Analysis	: 13.06.2026
15 Date of Sample Analysis completion	: 15.06.2026
16 Report Number	: ULR-TC1618026000001821F
17 Report Issued Date	: 03.07.2026

Stack Details

1	Fuel Used	-
2	Stack Height (mtr)	15
3	Stack Diameter (mtr)	0.7
4.	Cross Sectional Area in meter square (m2)	0.3850

Emission Details

Sl. No.	Parameters	Method	Unit	Result	Permissible Limit
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	32	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	37	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.81	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	8215	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	7096	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	37.29	50

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

Lakshmi B. S.
Analysed By
Lakshmi B S
Chemist

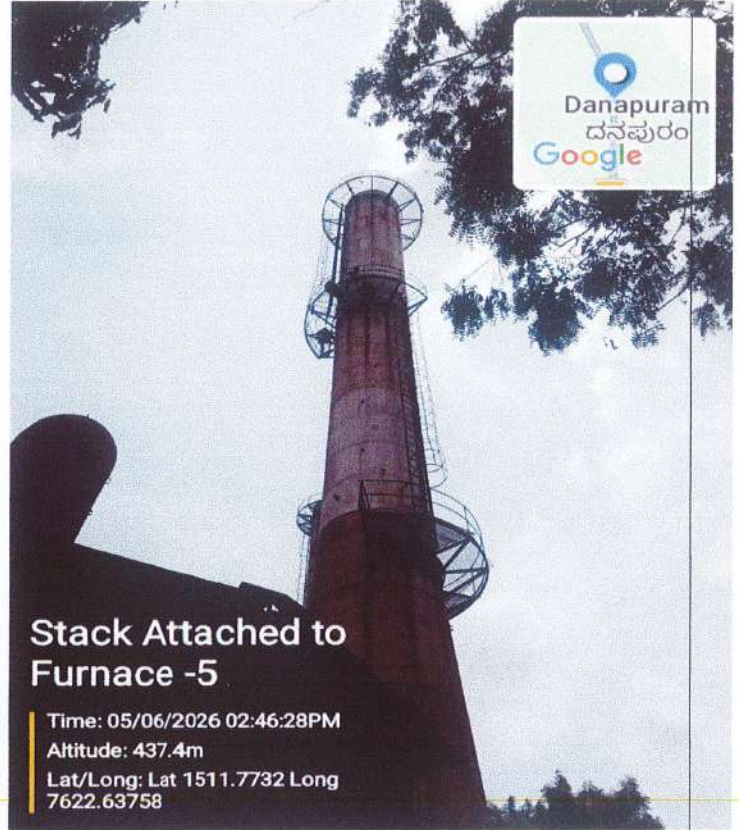
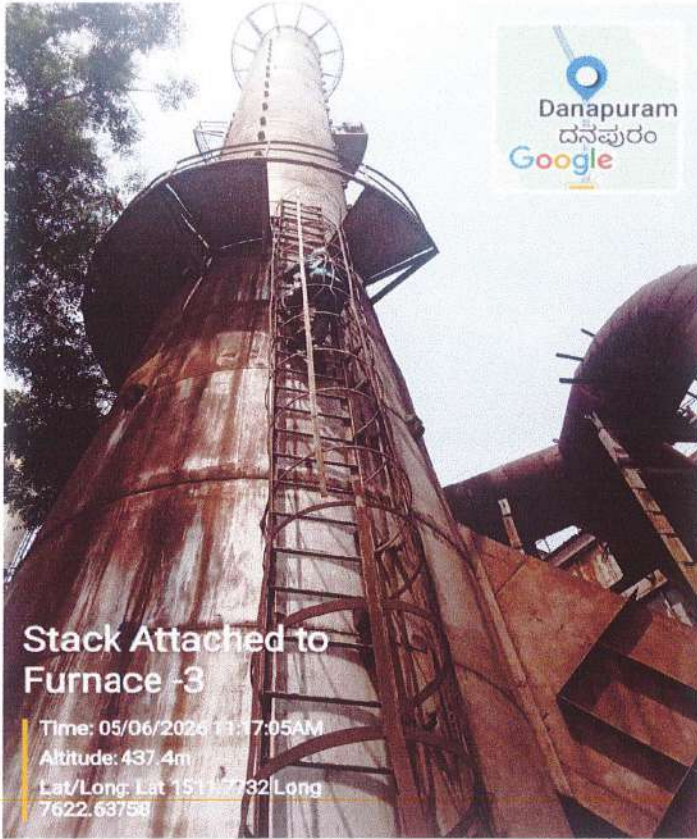
S. Venkatesh
Verified By
S. Venkatesh
Asst. General Manager

Dr. D. N. Gulhane
Authorized Signatory
Dr.D.N.Gulhane
Quality Manager

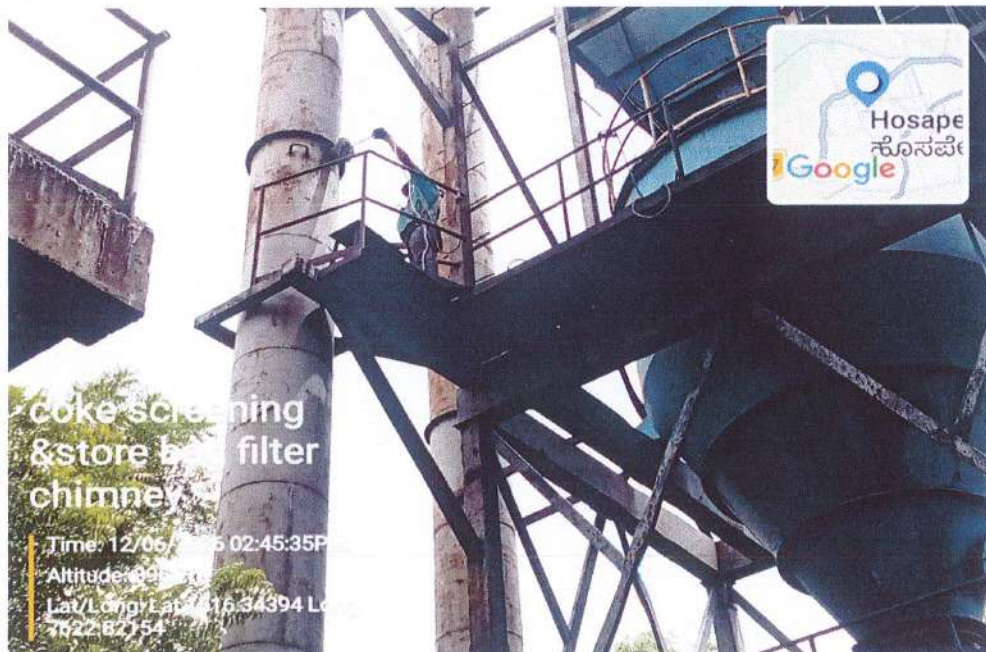
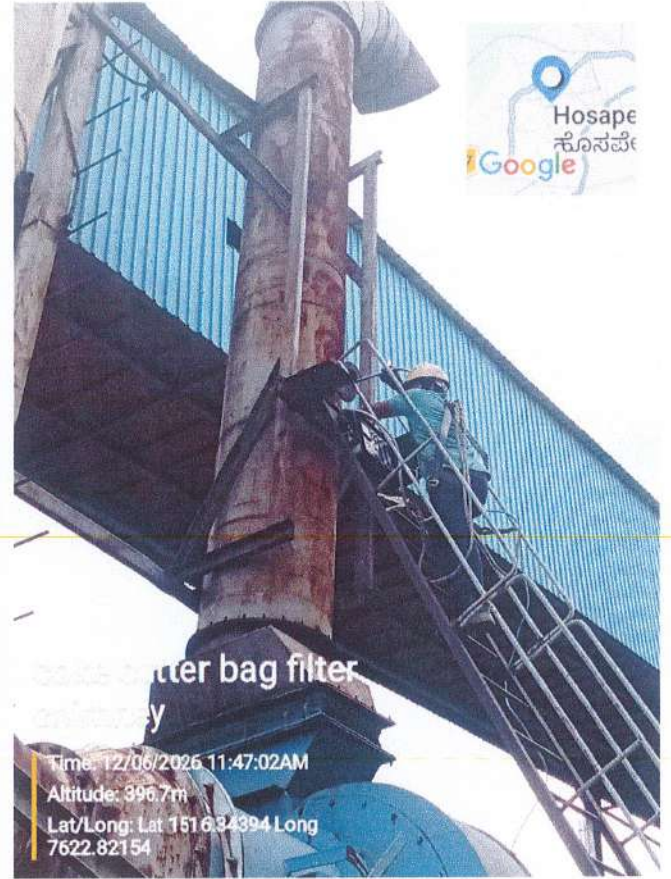
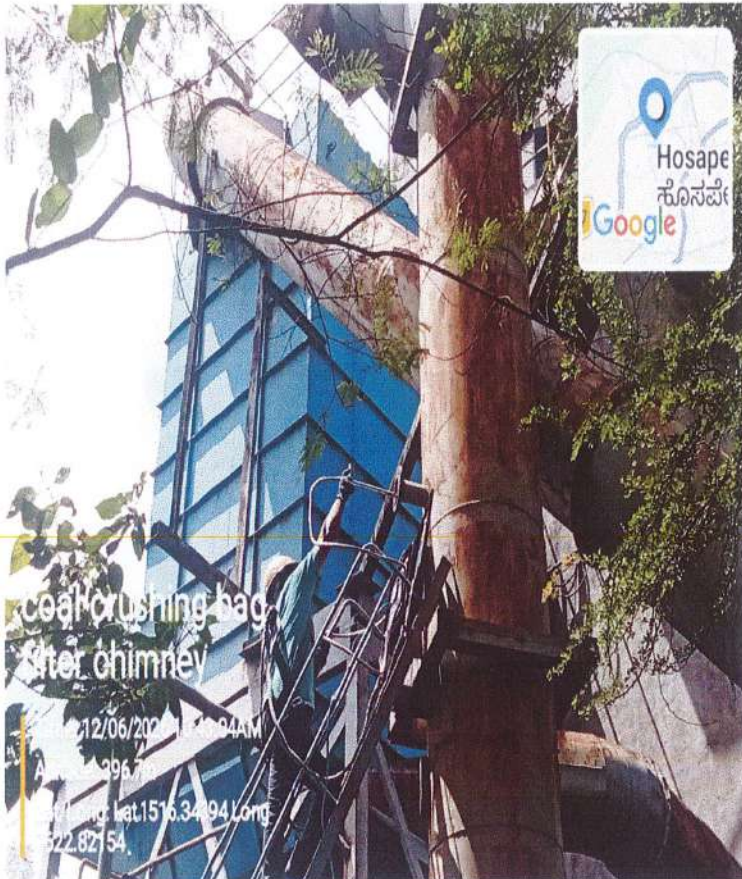
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SMIORE JUNE -2026



SMIORE JUNE -2026





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Website : www.gemslip.in



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),
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Vijayanagara Dist.,

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 : **JUNE-2026**

Duration of the Monitoring : 24 Hrs.

Report Issue Date : **03.07.2026**

Method Adopted : IS 9989-1981 Reaffirmed 2014

Report No : **ULR-TC1618026000001739F**

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)	05.06.2026	40.5	57.4	49.8	75	34.5	39.8	37.3	70
N2	Near Water Reservoir (WTP Plant)	06.06.2026	45.9	61.1	54.7		37.1	46.5	42.1	
Residential Area										
N3	Galemmanagudi	12.06.2026	44.2	54.2	50.1	55	35.8	41.5	37.6	45
N4	Vyasanakere Village	19.06.2026	45.9	53.9	49.7		36.1	42.4	39.3	
N5	Hanumana Halli	26.06.2026	47.2	54.8	51.3		36.9	43.1	40.9	

INFERENCE As per CPCB Standards,
Report Status: - Measured Values for the above parameters are within the limit.

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

Dr. D.N. Gulhane
Authorized Signatory
Dr.D.N.Gulhane
Quality Manager

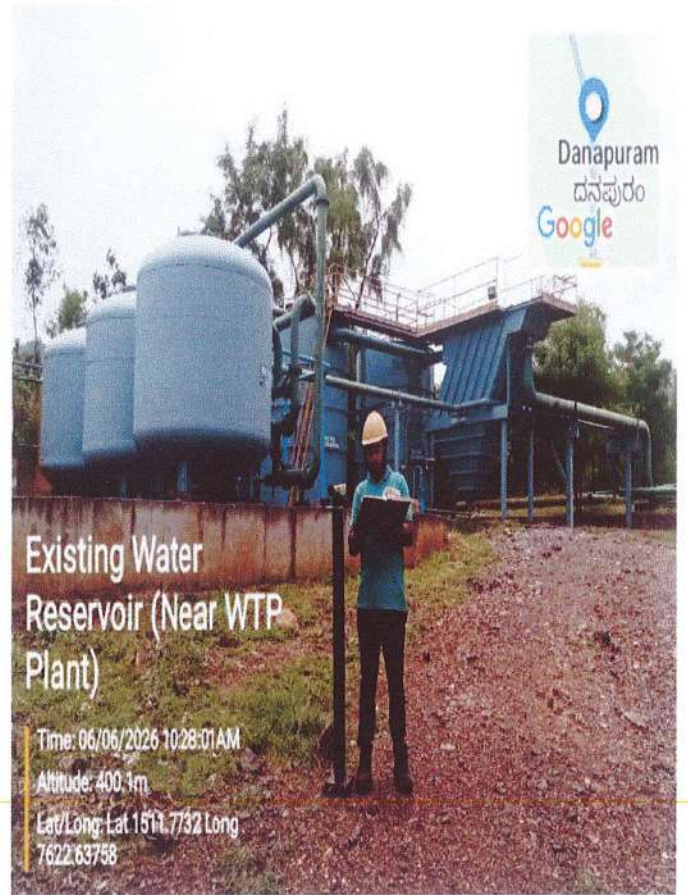
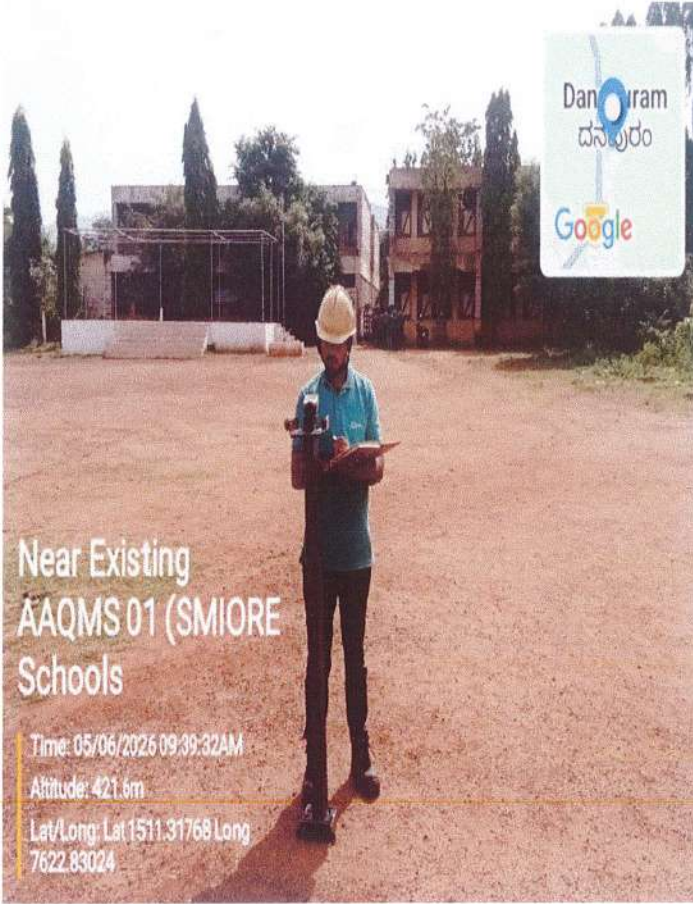
NOISE: (AMBIENT STANDARDS)

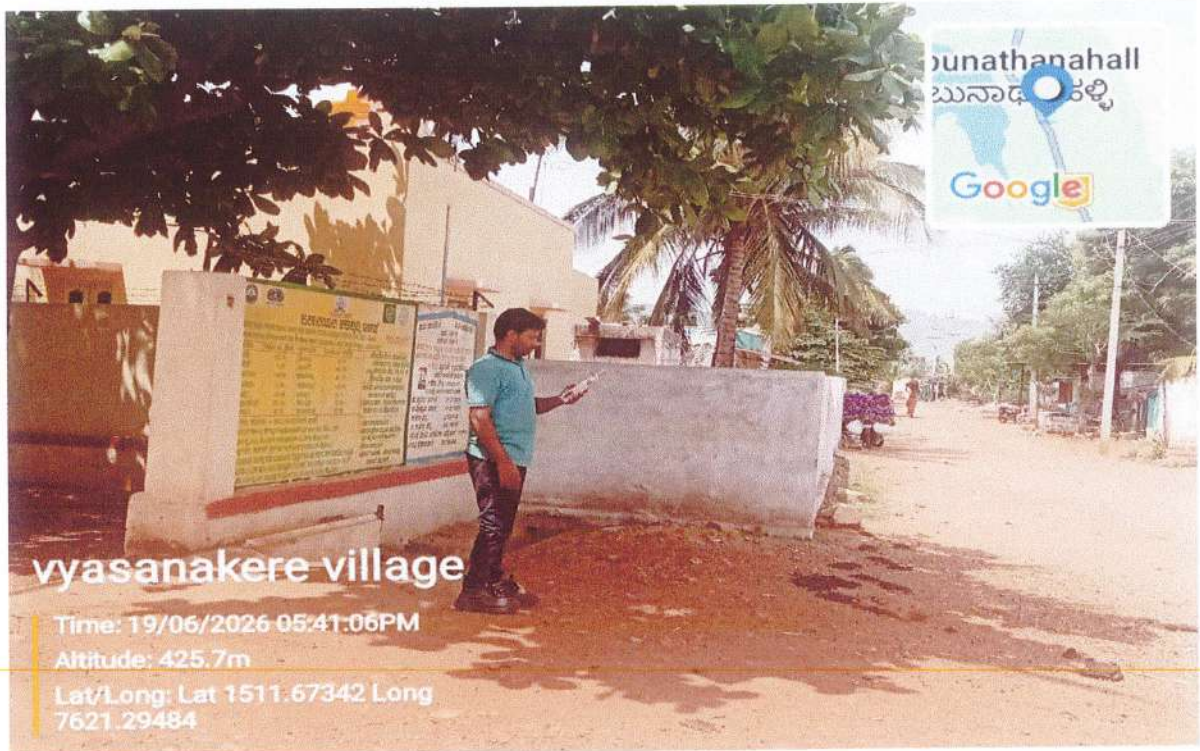
Area code	Category of Area	Limit in dB(A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Area	50	40

Note:

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e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in

ANNEXURE-13

GEMS-LD/TF/11/01

ANALYSIS REPORT OF FUGITIVE EMISSIONS 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.,

Customer Reference : Workorder No.4200011817 Dated:20.08.2025

Sample collected by : Global Environment & Mining Services LLP

Discipline : Chemical

Group : Atmospheric Pollution

Sample Type : Fugitive Emissions

Particulars of Sample Collected : High Volume Samplers

Month : **JUNE-2026**

Duration of the Monitoring : 8 Hrs.

Date of Analysis : 08.06.2026

Date of Analysis Completion : 08.06.2026

Report Issued Date : **03.07.2026**

Report Number : **GEMS/SMIORE/2026-27/1746**

Sl. No.	Location / Plant	Sample Code	Date of Sampling	Date of Sample Received	Parameters	
					SPM (µg/m³)	Benzo(a) Pyrene (BaP), µg/m³
Reference Test Method					IS 5182 (Part 4): 1999 RA 2014	IS 5182 (Part XII) 2006(RA 2017)
1.	Near Battery Area (Coke Oven)	2198	06.06.20226	06.06.2026	784.39	<0.0005
2.	Coal Storage Area (Coke Oven)	2199	06.06.20226	06.06.2026	1219.39	<0.0005
Permissible Limits for Fugitive Emissions as per G.S.R. 277E. Dated on 31.03.2012					3000	2
					8hrs	8hrs

Note: SPM- Suspended Particulate matter. ($\mu\text{g}/\text{m}^3$), **INFERENCE:** The Measured Values are within the limits.

Lakshmi B. S.
Analysed By
Lakshmi B S
Chemist

S. Venkatesh
Verified By
S. Venkatesh
Asst. General Manager

Dr. D. N. Gulhane
Authorized Signatory
Dr.D.N.Gulhane
Quality Manager

- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
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Website : www.gemslp.in

ANNEXURE-14
GEMS-LD/TF/11/01

ANALYSIS REPORT OF FUGITIVE EMISSIONS 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.,

Customer Reference : Workorder No.4200011817 Dated:20.08.2025

Sample collected by : Global Environment & Mining Services LLP

Discipline : Chemical

Group : Atmospheric Pollution

Sample Type : Fugitive Emissions

Particulars of Sample Collected : High Volume Samplers

Month : **JUNE-2026**

Duration of the Monitoring : 8 Hrs.

Date of Analysis : **06.06.2026**

Date of Analysis Completion : **06.06.2026**

Report Issued Date : **03.07.2026**

Report Number : **GEMS/SMIORE/2026-27/1737**

Sl. No.	Location / Plant	Sample Code	Date of Sampling	Date of Sample Received	Parameters
					SPM ($\mu\text{g}/\text{m}^3$)
					IS 5182 (Part 4): 1999 RA 2014
Reference Test Method					
1.	Finished goods yard in between F3 & F5	2185	05.06.2026	06.06.2026	1125.38
2.	Raw Material Storage Area	2186	05.06.2026	06.06.2026	982.61
Permissible Limits for Fugitive Emissions as per G.S.R. 277E. Dated on 31.03.2012					3000
					8hrs

Note: SPM- Suspended Particulate matter. ($\mu\text{g}/\text{m}^3$), **INFERENCE:** The Measured Values are within the limits.

Lakshmi B.S
Analysed By
Lakshmi B S
Chemist

S. Venkatesh
Verified By
S. Venkatesh
Asst. General Manager

Dr. D.N. Gulhane
Authorized Signatory
Dr.D.N.Gulhane
Quality Manager



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SMIORE JUNE -2026





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ANNEXURE-15
GEMS-LD/TF/08/01

WORKZONE NOISE LEVEL MONITORING REPORT

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

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 : **JUNE-2026**

Duration of the Monitoring : 10 Minutes

Report Issue Date : **03.07.2026**

Method Adopted : IS 9989-1981 Reaffirmed 2014

Report No : **GEMS/NOISE/2025-2026/1825**

Sl. No	Location	Date of Monitoring	Noise Level dB (A)			Standard
			Day Time			
			Min	Max	Leq	
Industrial Area						75
N1	ARC Furnance-3 Area	13.06.2026	69.5	74.5	72.61	
N2	ARC Furnace-5 Area	13.06.2026	68.5	74.9	73.86	
N3	Near WHRB -1	13.06.2026	55.8	66.1	61.28	
N4	Near WHRB-2	13.06.2026	61.3	73.7	67.92	
N5	Near Power Plant Turbine	13.06.2026	60.8	69.8	66.35	

INFERENCE

As per CPCB Standards,
Report Status: - Measured Values for the above parameters are within the limit.

End of the Report

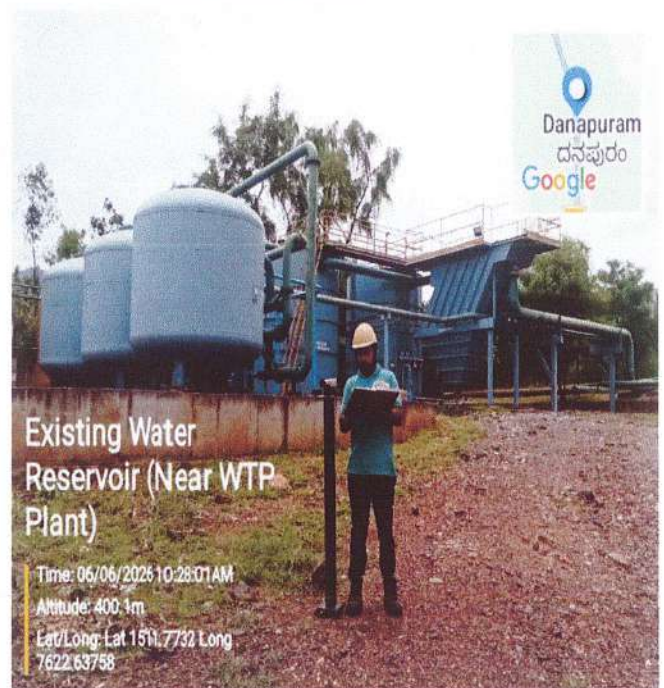
[Signature]
Authorized Signatory
Dr.D.N.Gulhane
Quality Manager

NOISE: (AMBIENT STANDARDS)

Area code	Category of Area	Limit in dB(A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70

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

SMIORE JUNE -2026





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ANNEXURE-16
GEMS-LD/TF/10/01

Analysis Report of DG Stack Emission

Name of the Industry	: M/s. The Sandur Manganese & Iron Ores Ltd.
1	(Metal & Ferro Alloys Plant), Vyasnakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist.,
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: 22.05.2026 Calibration Due Date: 21.05.2027
6 Discipline	: Chemical
7 Group	: Atmospheric Pollution
8 Sample Type	: DG Stack Monitoring
9 Sampling Location	: DG Set 750 KVA (Coke Oven)
10 Month of Sampling	: JUNE-2026
11 Date of Monitoring	: 19.06.2026
12 Date of Sample Received	: 20.06.2026
13 Sample Code	: 2579
14 Date of Sample Analysis	: 20.06.2026
15 Date of Sample Analysis completion	: 22.06.2026
16 Report Issued Date	: 03.07.2026
17 Report Number	: GEMS/DGSTACK/2026-27/1826

Stack Details

1	Fuel Used	Diesel
2	Stack Height (mtr)	15
3	Stack Diameter (mtr)	0.30

Sl. No.	Parameters	Method	Unit	Result	G.S.R. 771(E) dated 11 th Dec, 2013
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	34	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	129	-
3	Velocity of Flue Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	7.86	-
4	Gas flow rate at Stack Condition	IS: 11255 (Part 3) - 1985 (RA 2014)	m ³ /hr.	1692	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr.	1139	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	g/Kw-hr	0.029	<0.2
7	Sulphur Dioxide (SO ₂)	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	69.17	NS
8	Nitrogen Dioxide (NO ₂) +HC	IS:11255 (Part7): 2005(RA 2017)	g/Kw-hr	0.32	<4.0
9	Carbon Monoxide (CO)	GEMS/SOP/69	g/Kw-hr	0.28	<3.5
10	O ₂ (%)	GEMS/SOP/70	%	14.83	NS

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

End of the Report

Lakshmi B S
Analysed By
Lakshmi B S
Chemist

S. Venkatesh
Verified By
S. Venkatesh
Asst. General Manager

Dr. D. N. Gulha
Authorized Signatory
Dr. D. N. Gulha
Quality Manager



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



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Website : www.gemslp.in

ANNEXURE-17
GEMS-LD/TF/10/01

Analysis Report of DG Stack Emission

Name of the Industry	: M/s. The Sandur Manganese & Iron Ores Ltd.
1	(Metal & Ferro Alloys Plant), Vyasankere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist.,
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: 22.05.2026 Calibration Due Date: 21.05.2027
6 Discipline	: Chemical
7 Group	: Atmospheric Pollution
8 Sample Type	: DG Stack Monitoring
9 Sampling Location	: DG Set 250 KVA (VHT-2)
10 Month of Sampling	: JUNE-2026
11 Date of Monitoring	: 19.06.2026
12 Date of Sample Received	: 20.06.2026
13 Sample Code	: 2580
14 Date of Sample Analysis	: 20.06.2026
15 Date of Sample Analysis completion	: 22.06.2026
16 Report Issued Date	: 03.07.2026
17 Report Number	: GEMS/DGSTACK/2026-27/1827

Stack Details

1	Fuel Used	Diesel
2	Stack Height (mtr)	5.0
3	Stack Diameter (mtr)	0.20

Sl. No.	Parameters	Method	Unit	Result	G.S.R. 771(E)dated 11 th Dec, 2013
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	33	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	109	-
3	Velocity of Flue Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.93	-
4	Gas flow rate at Stack Condition	IS: 11255 (Part 3) - 1985 (RA 2014)	m ³ /hr.	731	-
5	Gas flow rate at NTP	IS: 11255 (Part 03) 1985 (RA 2014)	Nm ³ /hr.	596	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	g/Kw-hr	0.093	<0.2
7	Sulphur Dioxide (SO ₂)	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	08.96	NS
8	Nitrogen Dioxide (NO ₂)	IS: 11255 (Part 7): 2005 (RA 2017)	g/Kw-hr	0.57	<4.0
9	Carbon Monoxide (CO)	GEMS/SOP/69	g/Kw-hr	0.049	<3.5
10	O ₂ (%)	GEMS/SOP/70	%	10.86	NS

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

End of the Report

Lakshmi B.S.
Analysed By
Lakshmi B S
Chemist

S. Venkatesh
Verified By
S. Venkatesh
Asst. General Manager

Dr. D.N. Gullane
Authorized Signatory
Dr.D.N.Gullane
Quality Manager

- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
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Website : www.gemslp.in

ANNEXURE-18
GEMS-LD/TF/10/01

Analysis Report of DG Stack Emission

Name of the Industry	: M/s. The Sandur Manganese & Iron Ores Ltd.
1	(Metal & Ferro Alloys Plant), Vysanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist.,
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: 22.05.2026 Calibration Due Date: 21.05.2027
6 Discipline	: Chemical
7 Group	: Atmospheric Pollution
8 Sample Type	: DG Stack Monitoring
9 Sampling Location	: DG Set 250 KVA (New Bag House)
10 Month of Sampling	: JUNE-2026
11 Date of Monitoring	: 19.06.2026
12 Date of Sample Received	: 20.06.2026
13 Sample Code	: 2581
14 Date of Sample Analysis	: 20.06.2026
15 Date of Sample Analysis completion	: 22.06.2026
16 Report Issued Date	: 03.07.2026
17 Report Number	: GEMS/DGSTACK/2026-27/1828

Stack Details

1	Fuel Used	Diesel
2	Stack Height (mtr)	5.0
3	Stack Diameter (mtr)	0.20

Sl. No.	Parameters	Method	Unit	Result	G.S.R. 771(E) dated 11 th Dec, 2013
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	34	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	113	-
3	Velocity of Flue Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.17	-
4	Gas flow rate at Stack Condition	IS: 11255 (Part 3) - 1985 (RA 2014)	m ³ /hr.	783	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm ³ /hr.	6.08	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	g/Kw-hr	0.09	<0.2
7	Sulphur Dioxide (SO ₂)	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	10.38	NS
8	Nitrogen Dioxide (NO ₂)	IS:11255 (Part7): 2005(RA 2017)	g/Kw-hr	0.93	<4.0
9	Carbon Monoxide (CO)	GEMS/SOP/69	g/Kw-hr	0.046	<3.5
10	O ₂ (%)	GEMS/SOP/70	%	16.18	NS

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

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

Lakshmi B.S
Analysed By
Lakshmi B S
Chemist

S. Venkatesh
Verified By
S. Venkatesh
Asst. General Manager

Dr.D.N.Gulhane
Authorized Signatory
Dr.D.N.Gulhane
Quality Manager

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ANNEXURE-19
GEMS-LD/TF/10/01

Analysis Report of DG 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.,
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: 22.05.2026 Calibration Due Date: 21.05.2027
6	Discipline	: Chemical
7	Group	: Atmospheric Pollution
8	Sample Type	: DG Stack Monitoring
9	Sampling Location	: DG Set 625 KVA (Power Plant)
10	Month of Sampling	: JUNE-2026
11	Date of Monitoring	: 19.06.2026
12	Date of Sample Received	: 20.06.2026
13	Sample Code	: 2582
14	Date of Sample Analysis	: 20.06.2026
15	Date of Sample Analysis completion	: 22.06.2026
16	Report Issued Date	: 03.07.2026
17	Report Number	: GEMS/DGSTACK/2026-27/1829

Stack Details

1	Fuel Used	Diesel
2	Stack Height (mtr)	15
3	Stack Diameter (mtr)	0.30

Sl. No.	Parameters	Method	Unit	Result	G.S.R. 771(E) dated 11 th Dec, 2013
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	33	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	142	-
3	Velocity of Flue Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	7.82	-
4	Gas flow rate at Stack Condition	IS: 11255 (Part 3) - 1985 (RA 2014)	m ³ /hr.	2067	-
5	Gas flow rate at NTP	IS-11255 (Part 03) 1985 (RA 2014)	Nm ³ /hr.	1306	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	g/Kw-hr	0.14	<0.2
7	Sulphur Dioxide (SO ₂)	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm ³	26.36	NS
8	Nitrogen Dioxide (NO ₂)	IS: 11255 (Part 7): 2005 (RA 2017)	g/Kw-hr	0.39	<4.0
9	Carbon Monoxide (CO)	GEMS/SOP/69	g/Kw-hr	0.068	<3.5
10	O ₂ (%)	GEMS/SOP/70	%	13.93	NS

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

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

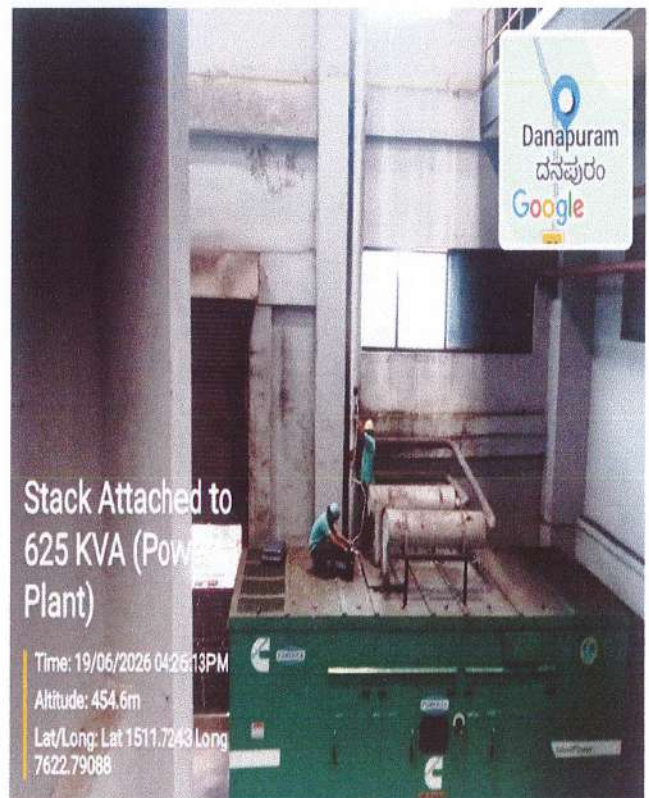
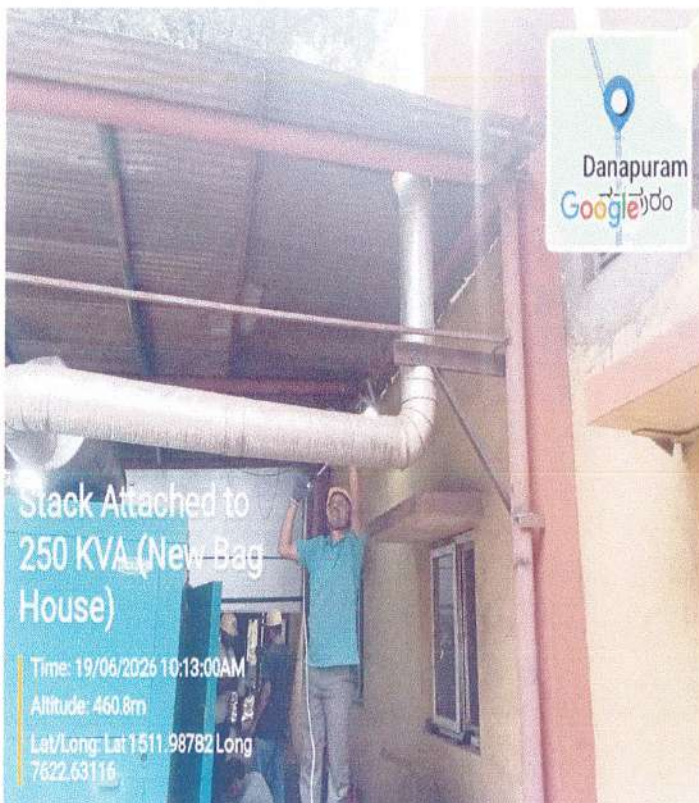
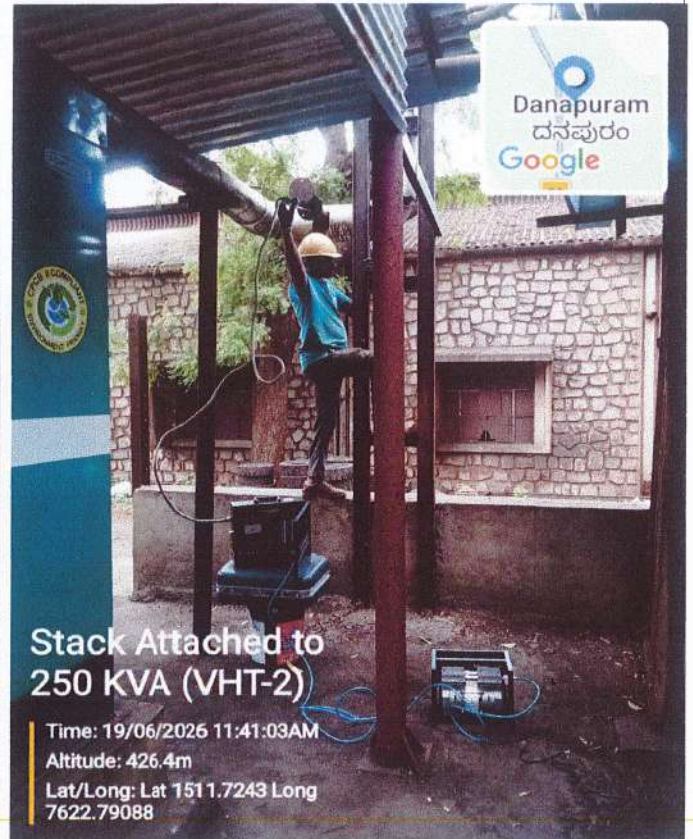
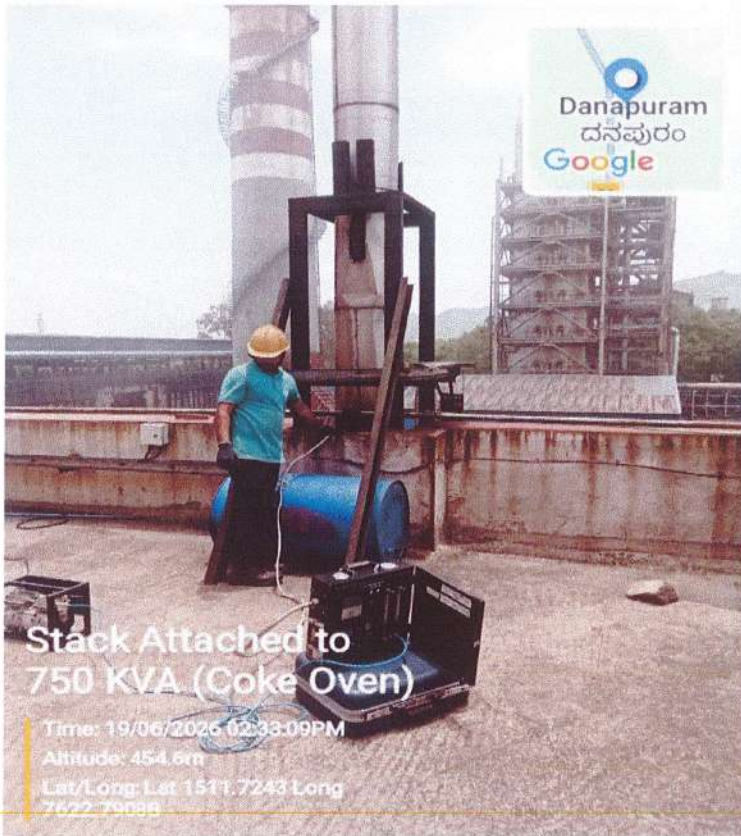
Lakshmi B.S.
Analysed By
Lakshmi B S
Chemist

S. Venkatesh
Verified By
S. Venkatesh
Asst. General Manager

Dr. D.N. Gulhane
Authorized Signatory
Dr.D.N.Gulhane
Quality Manager

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SMIORE JUNE -2026





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ANNEXURE-20
GEMS-LD/TF/08/01

DG NOISE LEVEL MONITORING REPORT

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

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 : **JUNE-2026**

Duration of the Monitoring : 15 Minutes

Report Issue Date : **03.07.2026**

Method Adopted : IS 9989-1981 Reaffirmed 2014

Report No : **GEMS/NOISE/2026-2027/1830**

Sl. No	Location	Date of Monitoring	Noise Level dB (A)			CPCB Standard
			Min	Max	Leq	
Industrial Area						75
1	250 KVA (New Baghouse)	19.06.2026	65.9	69.7	67.19	
2	250 KVA ((VTH-2)	19.06.2026	66.3	70.2	68.72	
3	750 KVA (Coke Oven)	19.06.2026	69.8	74.3	72.91	
4	625 KVA (Power Plant)	20.06.2026	69.1	74.1	72.33	

Note: "Noise level measurements were recorded at a distance of 1.0 meter from the Diesel Generator (DG)"

INFERENCE	As per CPCB Standards, Report Status: - Measured Values for the above parameters are within the limit.
------------------	---

End of the Report

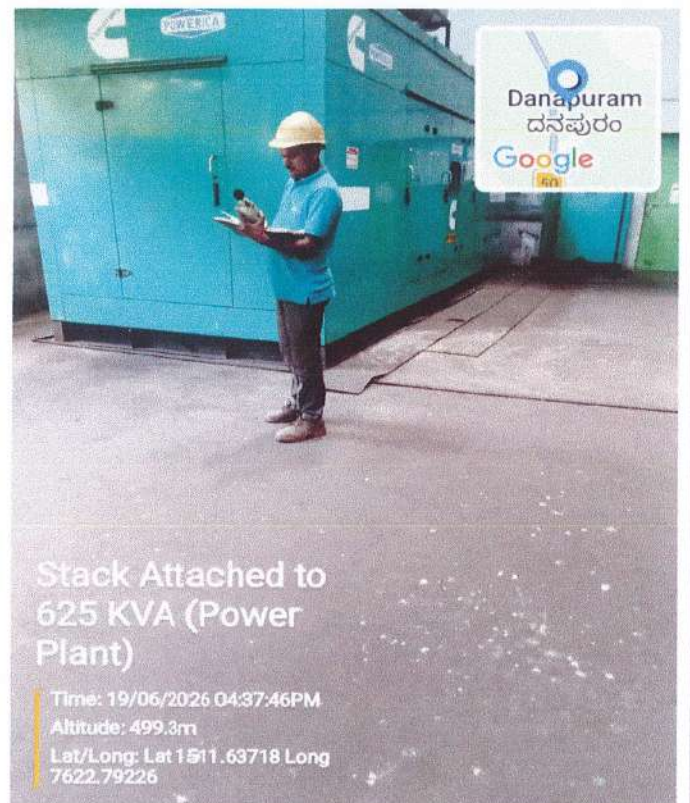
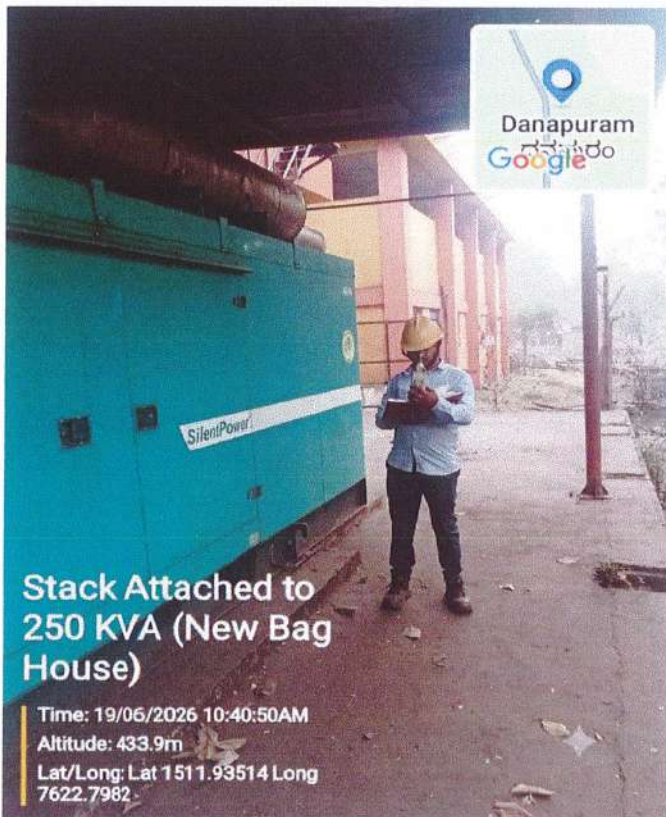
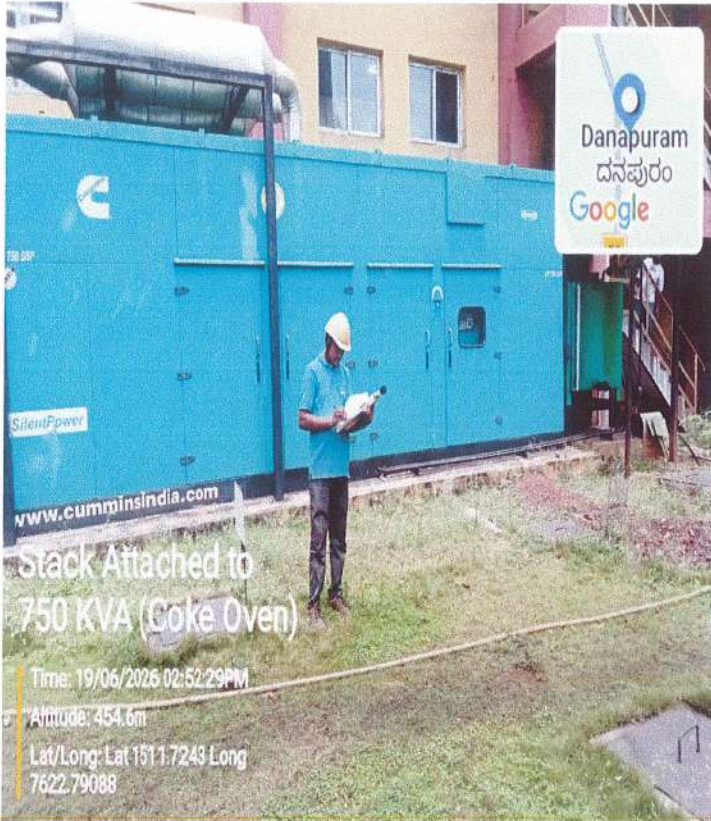
Dr. D. N. Gulhane
Authorized Signatory
Dr.D.N.Gulhane
Quality Manager

NOISE: (AMBIENT STANDARDS)

Area code	Category of Area	Limit in dB(A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70

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

SMIORE JUNE -2026





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TC-16180

ANNEXURE-21
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), Vysanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist.,
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	:	2200
10	Date of Sampling	:	06.06.2026
11	Sample Received	:	06.06.2026
12	Date of Analysis	:	08.06.2026
13	Date of Analysis Completion	:	11.06.2026
14	Report Issue Date	:	03.07.2026
15	Report Number	:	ULR-TC1618026000001748F

Sl. No.	Parameters	Protocol	Unit	Results	As per KSPCB Std
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.52	6.5 to 9.0
2.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	10.5	<20
3.	Biochemical Oxygen Demand as BOD (3 days at 27°C)	IS 3025 PART 44: 2023	mg/L	8.4	<10
4.	Chemical Oxygen Demand as COD	APHA 24th Edition 5220 B: 2023	mg/L	36.19	<50

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

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

Lakshmi B.S.
Analysed By
Lakshmi B S
Chemist

S. Venkatesh
Verified By
S. Venkatesh
Asst. General Manager

Dr. D. N. Gulha
Authorized Signatory
Dr.D.N.Gulha
Quality 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 Hosapete jurisdiction only.
- Recognised by Ministry of Environment, Forest and Climate Change for Laboratory
- Recognised by Government of Karnataka, Maharashtra, Goa for DGPS survey



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ANNEXURE-21
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),
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Vijayanagara Dist.,
- 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 : **2200**
- 10 Date of Sampling : 06.06.2026
- 11 Sample Received : 06.06.2026
- 12 Date of Analysis : 08.06.2026
- 13 Date of Analysis Completion : 11.06.2026
- 14 Report Issue Date : **03.07.2026**
- 15 Report Number : **GEMS/SMIORE/STP/2026-27/1748**

Sl. No.	Parameters	Protocol	Unit	Results	As per KSPCB Std
5	Ammonical nitrogen as N	IS:3025 (part 34)-1988, RA-2023	mg/L	3.92	<5
6	Total Nitrogen as N	IS:3025 (part 34)-1988, RA-2023	mg/L	6.87	<10
7	Fecal coliform	APHA 24th Edition 9222 B :2023	MPN/100ml	21	Less than 100

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

Lakshmi B.S
Analysed By
Lakshmi B S
Chemist

S. Venkatesh
Verified By
S. Venkatesh
Asst. General Manager

Dr. D.N. Gulhane
Authorized Signatory
Dr.D.N.Gulhane
Quality Manager

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ANNEXURE-22
GEMS-LD/TF/10/01

Analysis Report of Soil Quality Data

1	Name of the Industry	: M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasnakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist,
2	Customer Reference	: Workorder No.4200011817 Dated:20.08.2025
3	Sample collected by	: Global Environment & Mining Services LLP
4	Discipline	: Chemical
5	Group	: Pollution & Environment
6	Sample Type	: Soil
7	Sampling Location	: North Direction of Plant Boundary
8	Sample Code	: 2787
9	Date of Sampling	: 27.06.2026
10	Sample Received	: 27.06.2026
11	Date of Analysis	: 27.06.2026
12	Date of Analysis Completion	: 29.06.2026
13	Report Issue Date	: 03.07.2026
14	Report Number	: GEMS/SMIORE/SOIL/2026-27/1831

Sl. No.	Parameter	Results	Unit	Reference Method
1.	pH (1:2 aqueous solution)	8.54	-	IS 2720(Part 26):1987 (Reaffirmed 2016)
2.	Electrical Conductivity	180	(μ S/cm)	IS 14767:2000 (Reaffirmed 2016)
3.	Moisture Content	1.35	%	IS 2720(Part 18):1992 (Reaffirmed 2002)
4.	Organic Matter	0.42	%	IS 2720(Part 22):1972 (Reaffirmed 2010)
5.	Nitrogen as N	197	mg/kg	IS 2720(Part 22):1972 (Reaffirmed 2010)
6.	Potassium as K	128	mg/kg	GEMS-LD/SOP/95
7.	Phosphorus as P	14	mg/kg	GEMS-LD/SOP/94
8.	Chlorides as Cl	27	mg/kg	GEMS-LD/SOP/109
9.	Sulphates as SO ₄	39	mg/kg	GEMS-LD/SOP/110
10.	Sodium as Na	27	mg/kg	GEMS-LD/SOP/99
11.	Calcium as Ca	472	mg/kg	GEMS-LD/SOP/97
12.	Magnesium as Mg	163	mg/kg	GEMS-LD/SOP/98

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

Lakshmi B S
Analysed By

Lakshmi B S
Chemist

S. Venkatesh
Verified By

S. Venkatesh
Asst. General Manager

Authorized Signatory
Dr.D.N.Gulhage
Quality Manager



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



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Ph : 08394 355369

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Website : www.gemsllp.in

ANNEXURE-23
GEMS-LD/TF/10/01

Analysis Report of Soil Quality Data

- | | | |
|----|-----------------------------|--|
| 1 | Name of the Industry | : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant),
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Vijayanagara Dist., |
| 2 | Customer Reference | : Workorder No.4200011817 Dated:20.08.2025 |
| 3 | Sample collected by | : Global Environment & Mining Services LLP |
| 4 | Discipline | : Chemical |
| 5 | Group | : Pollution & Environment |
| 6 | Sample Type | : Soil |
| 7 | Sampling Location | : East Direction of Plant Boundary |
| 8 | Sample Code | : 2788 |
| 9 | Date of Sampling | : 27.06.2026 |
| 10 | Sample Received | : 27.06.2026 |
| 11 | Date of Analysis | : 27.06.2026 |
| 12 | Date of Analysis Completion | : 29.06.2026 |
| 13 | Report Issue Date | : 03.07.2026 |
| 14 | Report Number | : GEMS/SMIORE/SOIL/2026-27/1832 |

Sl. No.	Parameter	Results	Unit	Reference Method
1.	pH (1:2 aqueous solution)	8.64	-	IS 2720(Part 26):1987 (Reaffirmed 2016)
2.	Electrical Conductivity	136	(μS/cm)	IS 14767:2000 (Reaffirmed 2016)
3.	Moisture Content	11.01	%	IS 2720(Part 18):1992 (Reaffirmed 2002)
4.	Organic Matter	0.62	%	IS 2720(Part 22):1972 (Reaffirmed 2010)
5.	Nitrogen as N	207	mg/kg	IS 2720(Part 22):1972 (Reaffirmed 2010)
6.	Potassium as K	133	mg/kg	GEMS-LD/SOP/95
7.	Phosphorus as P	14	mg/kg	GEMS-LD/SOP/94
8.	Chlorides as Cl	57	mg/kg	GEMS-LD/SOP/109
9.	Sulphates as SO ₄	79	mg/kg	GEMS-LD/SOP/110
10.	Sodium as Na	41	mg/kg	GEMS-LD/SOP/99
11.	Calcium as Ca	483	mg/kg	GEMS-LD/SOP/97
12.	Magnesium as Mg	127	mg/kg	GEMS-LD/SOP/98

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

Lakshmi B S
Analysed By
 Lakshmi B S
 Chemist

S. Venkatesh
Verified By
 S. Venkatesh
 Asst. General Manager

Dr. D. N. Gulhane
Authorized Signatory
 Dr.D.N.Gulhane
 Quality Manager

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Website : www.gemslp.in

ANNEXURE-24
GEMS-LD/TF/10/01

Analysis Report of Soil Quality Data

- | | | |
|----|-----------------------------|---|
| 1 | Name of the Industry | : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant),
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Vijayanagara Dist, |
| 2 | Customer Reference | : Workorder No.4200011817 Dated:20.08.2025 |
| 3 | Sample collected by | : Global Environment & Mining Services LLP |
| 4 | Discipline | : Chemical |
| 5 | Group | : Pollution & Environment |
| 6 | Sample Type | : Soil |
| 7 | Sampling Location | : South Direction of Plant Boundary |
| 8 | Sample Code | : 2789 |
| 9 | Date of Sampling | : 27.06.2026 |
| 10 | Sample Received | : 27.06.2026 |
| 11 | Date of Analysis | : 27.06.2026 |
| 12 | Date of Analysis Completion | : 29.06.2026 |
| 13 | Report Issue Date | : 03.07.2026 |
| 14 | Report Number | : GEMS/SMIORE/SOIL/2026-27/1833 |

Sl. No.	Parameter	Results	Unit	Reference Method
1.	pH (1:2 aqueous solution)	8.04	-	IS 2720(Part 26):1987 (Reaffirmed 2016)
2.	Electrical Conductivity	130.9	(μS/cm)	IS 14767:2000 (Reaffirmed 2016)
3.	Moisture Content	4.45	%	IS 2720(Part 18):1992 (Reaffirmed 2002)
4.	Organic Matter	0.85	%	IS 2720(Part 22):1972 (Reaffirmed 2010)
5.	Nitrogen as N	193	mg/kg	IS 2720(Part 22):1972 (Reaffirmed 2010)
6.	Potassium as K	127	mg/kg	GEMS-LD/SOP/95
7.	Phosphorus as P	13	mg/kg	GEMS-LD/SOP/94
8.	Chlorides as Cl	29	mg/kg	GEMS-LD/SOP/109
9.	Sulphates as SO ₄	64	mg/kg	GEMS-LD/SOP/110
10.	Sodium as Na	43	mg/kg	GEMS-LD/SOP/99
11.	Calcium as Ca	618	mg/kg	GEMS-LD/SOP/97
12.	Magnesium as Mg	192	mg/kg	GEMS-LD/SOP/98

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

Lakshmi B. S
Analysed By
Lakshmi B S
Chemist

S. Venkatesh
Verified By
S. Venkatesh
Asst. General Manager

Dr. D. N. Gulhane
Authorized Signatory
Dr. D. N. Gulhane
Quality Manager



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ANNEXURE-25
GEMS-LD/TF/10/01

Analysis Report of Soil Quality Data

1	Name of the Industry	: M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasnakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist.,
2	Customer Reference	: Workorder No.4200011817 Dated:20.08.2025
3	Sample collected by	: Global Environment & Mining Services LLP
4	Discipline	: Chemical
5	Group	: Pollution & Environment
6	Sample Type	: Soil
7	Sampling Location	: West Direction of Plant Boundary
8	Sample Code	: 2790
9	Date of Sampling	: 27.06.2026
10	Sample Received	: 27.06.2026
11	Date of Analysis	: 27.06.2026
12	Date of Analysis Completion	: 29.06.2026
13	Report Issue Date	: 03.07.2026
14	Report Number	: GEMS/SMIORE/SOIL/2026-27/1834

Sl. No.	Parameter	Results	Unit	Reference Method
1.	pH (1:2 aqueous solution)	8.08	-	IS 2720(Part 26):1987 (Reaffirmed 2016)
2.	Electrical Conductivity	104.2	(μ S/cm)	IS 14767:2000 (Reaffirmed 2016)
3.	Moisture Content	12.19	%	IS 2720(Part 18):1992 (Reaffirmed 2002)
4.	Organic Matter	1.38	%	IS 2720(Part 22):1972 (Reaffirmed 2010)
5.	Nitrogen as N	261	mg/kg	IS 2720(Part 22):1972 (Reaffirmed 2010)
6.	Potassium as K	174	mg/kg	GEMS-LD/SOP/95
7.	Phosphorus as P	13.7	mg/kg	GEMS-LD/SOP/94
8.	Chlorides as Cl	31	mg/kg	GEMS-LD/SOP/109
9.	Sulphates as SO ₄	16	mg/kg	GEMS-LD/SOP/110
10.	Sodium as Na	19	mg/kg	GEMS-LD/SOP/99
11.	Calcium as Ca	893	mg/kg	GEMS-LD/SOP/97
12.	Magnesium as Mg	182	mg/kg	GEMS-LD/SOP/98

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

Lakshmi B. S
Analysed By
Lakshmi B S
Chemist

S. Venkatesh
Verified By
S. Venkatesh
Asst. General Manager

Dr. D. N. Gulhane
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Dr.D.N.Gulhane
Quality Manager



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SMIORE JUNE -2026

