

The Sandur Manganese & Iron Ores Limited

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

o/k

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/2025-26/053

07/11/2025

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

Subject: Submission of Environmental Monitoring Report **October-2025**

Reference:

- 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, Vyasanakere, Hanumanahalli Post, 583222, Hosapete Taluk, Vijayanagara District, for the period **October-2025** 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 **October-2025**

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

Page 1 of 1

ಸ್ವೀಕೃತಿ
ಕ.ರಾ.ಮಾ.ನಿ. ಮಂಡಳಿ
ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ ವಿಜಯನಗರ ಮೊಸಪೇಟೆ
ಸಂಖ್ಯೆ/ದಿನಾಂಕ: 13/11/25



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

ENVIRONMENTAL MONITORING REPORT



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

OCTOBER-2025

Prepared by



GLOBAL ENVIRONMENT & MINING SERVICES LLP

NABL & MOEFCC Recognized Laboratory

(Consulting Engineers, Mine Designers, Geologists & Surveyors)

3rd main road, Basaveswara Badavane

HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)

Tel : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in

PREFACE

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

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

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

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

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

for GLOBAL Environment & Mining Services LLP

Place: Hosapete
Date: 03.11.2025


K. Ramakrishna Reddy
(Technical Manager)





GLOBAL ENVIRONMENT & MINING SERVICES LLP

(Consulting Engineers, Mine designers, Geologist & Surveyors)

3rd Main Road, Basaveswara Badavane,

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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),
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 : OCTOBER-2025
Location : A1-Near Existing AAQMS 01 (SMIORE School)
Report Issued Date : 03.11.2025
Report Number : ULR-TC1618025000002822F

RESULTS

Parameters			PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	Ozone* (O ₃), µg/m ³	Ammonia (NH ₃) µg/m ³
Reference Method			IS:5182: 2006 (Part-23) (RF-2017)	IS 5182 (Part 24): 2019 (RF-2024)	IS:5182: 2001 (Part-2) Sec 1:2023	IS :5182: (Part-6) 2006 (RF-2017)	IS 5182 (Part 9): 1974	IS 5182 (Part 25) 2018
Date of Sampling	Date of Sample Received	Sample Code	Result	Result	Result	Result	Result	Result
03.10.2025	04.10.2025	5487	54.91	12.55	9.21	10.81	0.00	<20.0
04.10.2025	05.10.2025	5516	50.35	10.36	10.27	14.28	0.00	<20.0
10.10.2025	11.10.2025	5734	32.51	7.29	8.18	9.56	0.00	<20.0
11.10.2025	12.10.2025	5770	47.30	6.98	7.95	10.54	0.00	<20.0
17.10.2025	18.10.2025	5965	45.27	13.90	9.99	10.77	0.00	<20.0
18.10.2025	19.10.2025	5973	47.13	10.42	9.11	11.25	0.00	<20.0
24.10.2025	25.10.2025	6131	26.34	4.81	11.32	13.21	0.00	<20.0
25.10.2025	26.10.2025	6151	46.03	15.96	7.52	9.54	0.00	<20.0
Average			43.73	10.28	9.21	11.24	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 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****

[Signature]
Analysed By
Pavitra G R
Chemist

[Signature]
Authorised Signatory
K. Ramakrishna Reddy
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.
- 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-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),
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 : **OCTOBER-2025**

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

Report Issued Date : **03.11.2025**

Report Number : **GEMS/SMIORE/2025-26/2822**

Parameters			Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Benzene (C ₆ H ₆), µg/m ³
Reference Method			IS 5182 (Part 22): 2004(RA 2014)	IS 5182 (Part 26): 2020	GEMS /SOP/87	IS 5182 (Part XII) 2006(RA 2017)	GEMS/SOP/86	IS 5182 (Part XI) 2006(RA 2017)
Date of Sampling	Date of Sampling	Sample Code	Result	Result	Result	Result	Result	Result
03.10.2025	04.10.2025	5487	0.10	<0.1	<0.5	<0.5	0.12	<1.0
04.10.2025	05.10.2025	5516	<0.01	<0.1	<0.5	<0.5	0.10	<1.0
10.10.2025	11.10.2025	5734	<0.01	<0.1	<0.5	<0.5	0.12	<1.0
11.10.2025	12.10.2025	5770	0.12	<0.1	<0.5	<0.5	0.14	<1.0
17.10.2025	18.10.2025	5965	0.16	<0.1	<0.5	<0.5	0.12	<1.0
18.10.2025	19.10.2025	5973	<0.01	<0.1	<0.5	<0.5	0.10	<1.0
24.10.2025	25.10.2025	6131	<0.01	<0.1	<0.5	<0.5	0.10	<1.0
25.10.2025	26.10.2025	6151	<0.01	<0.1	<0.5	<0.5	0.12	<1.0
Average			0.13	<0.1	<0.5	<0.5	0.11	<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****

PGR
Analysed By
Pavitra G R
Chemist

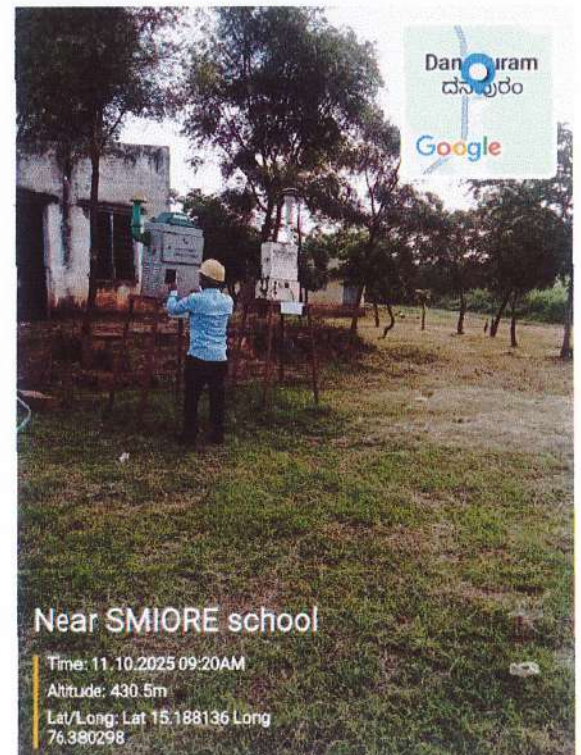
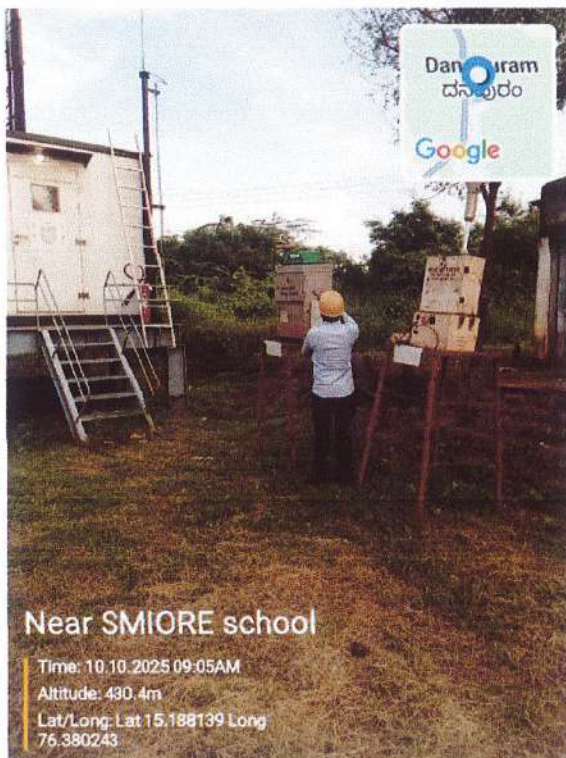
K. Ramakrishna Reddy
Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
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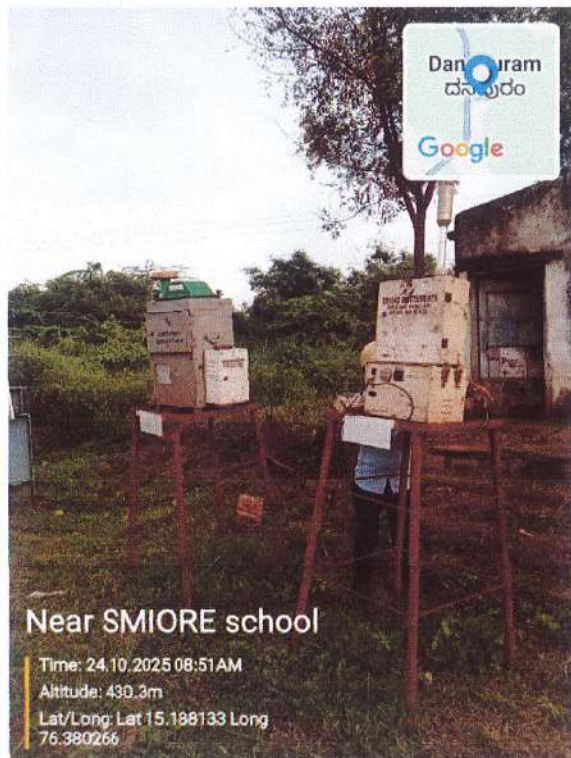
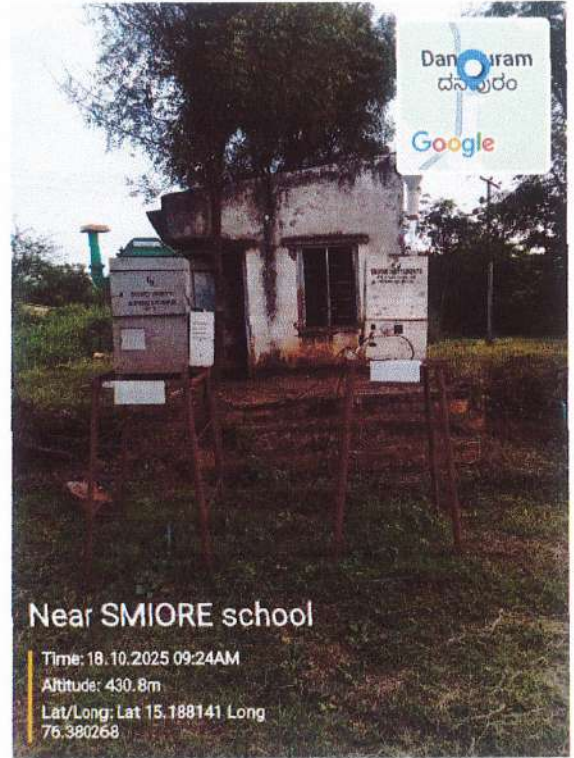
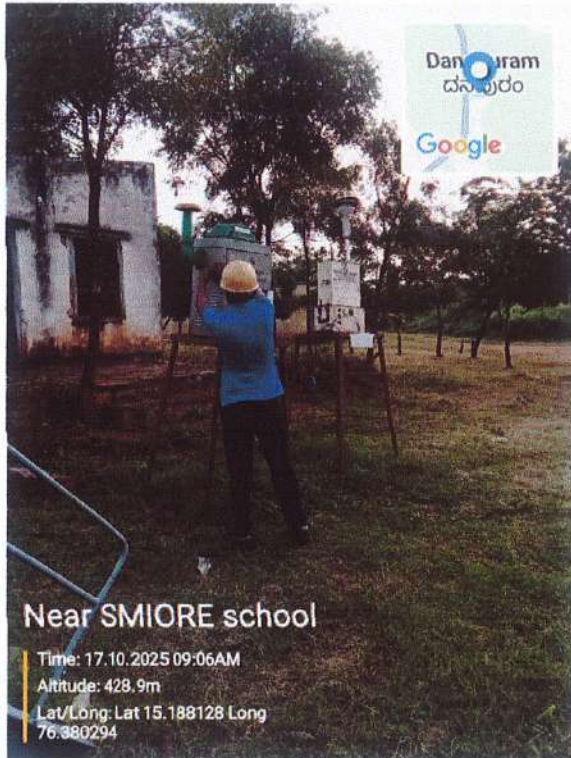
AMBIENT AIR QUALITY MONITORING STATION

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



AMBIENT AIR QUALITY MONITORING STATION

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





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TC-16180

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

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant),
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Vijayanagara Dist.,
Name of the Industry :
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 : **OCTOBER-2025**
Location : **A2 - Existing Water Reservoir (Near WTP Plant)**
Duration of Monitoring : 24 Hour
Report Issued Date : **03.11.2025**
Report Number : **ULR-TC1618025000002823F**

RESULTS

Parameters			PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	Ozone* (O ₃), µg/m ³	Ammonia (NH ₃) µg/m ³
Reference Method			IS:5182: 2006 (Part-23) (RF-2017)	IS 5182 (Part 24): 2019 (RF-2024)	IS:5182: 2001 (Part-2) Sec 1:2023	IS :5182: (Part-6) 2006 (RF-2017)	IS 5182 (Part 9): 1974	IS 5182 (Part 25) 2018
Date of Sampling	Date of Sample Received	Sample Code	Result	Result	Result	Result	Result	Result
03.10.2025	04.10.2025	5488	45.35	10.01	9.71	13.11	6.28	<20.0
04.10.2025	05.10.2025	5517	42.21	7.55	11.55	13.92	0.00	<20.0
10.10.2025	11.10.2025	5735	29.83	12.46	8.61	10.67	0.00	<20.0
11.10.2025	12.10.2025	5771	40.10	13.32	9.38	11.92	8.12	<20.0
17.10.2025	18.10.2025	5966	45.03	10.93	9.99	13.79	12.34	<20.0
18.10.2025	19.10.2025	5974	49.68	14.81	8.60	10.65	10.12	<20.0
24.10.2025	25.10.2025	6132	28.16	3.83	9.64	11.16	0.00	<20.0
25.10.2025	26.10.2025	6152	40.92	11.53	11.17	12.43	0.00	<20.0
Average			40.16	10.55	9.83	12.21	4.61	<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 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****

[Signature]
Analysed By
Pavitra G R
Chemist

[Signature]
Authorised Signatory
K. Ramakrishna Reddy
Technical 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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- 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 : **OCTOBER-2025**

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

Report Issued Date : **03.11.2025**

Report Number : **GEMS/SMIORE/2025-26/2823**

Parameters			Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Benzene (C ₆ H ₆), µg/m ³
Reference Method			IS 5182 (Part 22): 2004(RA 2014)	IS 5182 (Part 26): 2020	GEMS /SOP/87	IS 5182 (Part XII) 2006(RA 2017)	GEMS/SOP/86	IS 5182 (Part XI) 2006(RA 2017)
Date of Sampling	Date of Sampling	Sample Code	Result	Result	Result	Result	Result	Result
03.10.2025	04.10.2025	5488	0.10	<0.1	<0.5	<0.5	0.14	<1.0
04.10.2025	05.10.2025	5517	<0.01	<0.1	<0.5	<0.5	0.18	<1.0
10.10.2025	11.10.2025	5735	0.12	<0.1	<0.5	<0.5	0.12	<1.0
11.10.2025	12.10.2025	5771	0.10	<0.1	<0.5	<0.5	0.10	<1.0
17.10.2025	18.10.2025	5966	0.10	<0.1	<0.5	<0.5	0.12	<1.0
18.10.2025	19.10.2025	5974	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
24.10.2025	25.10.2025	6132	0.12	<0.1	<0.5	<0.5	0.10	<1.0
25.10.2025	26.10.2025	6152	0.10	<0.1	<0.5	<0.5	0.14	<1.0
Average			0.11	<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 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****


Analysed By
Pavitra G R
Chemist

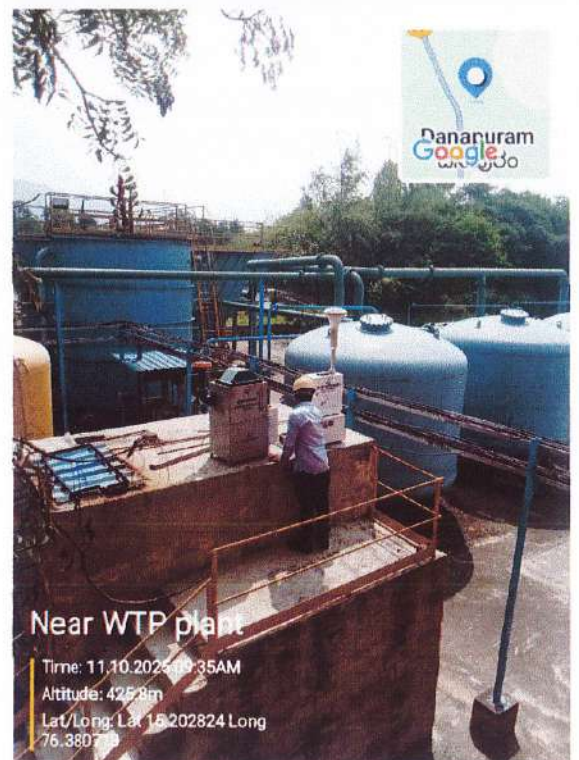
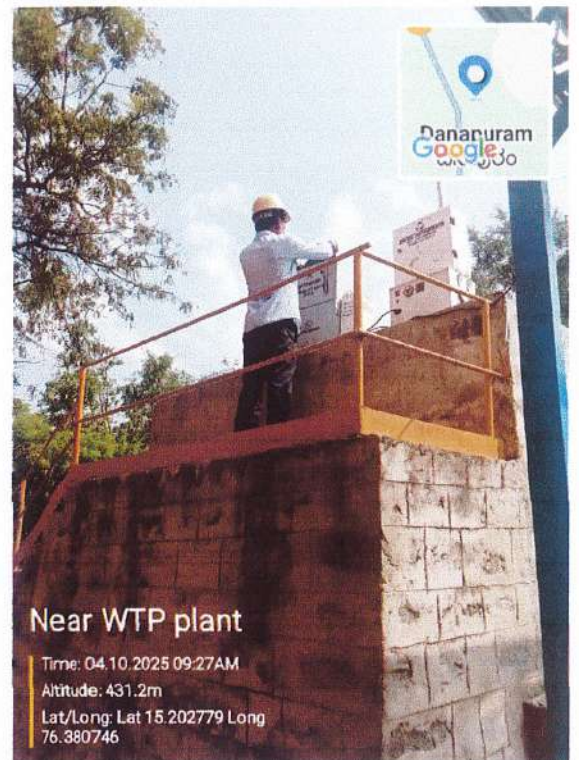
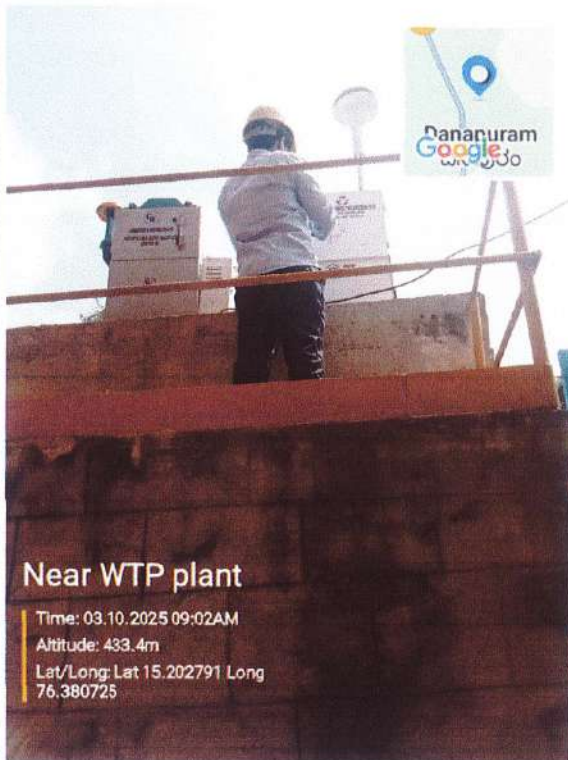

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



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

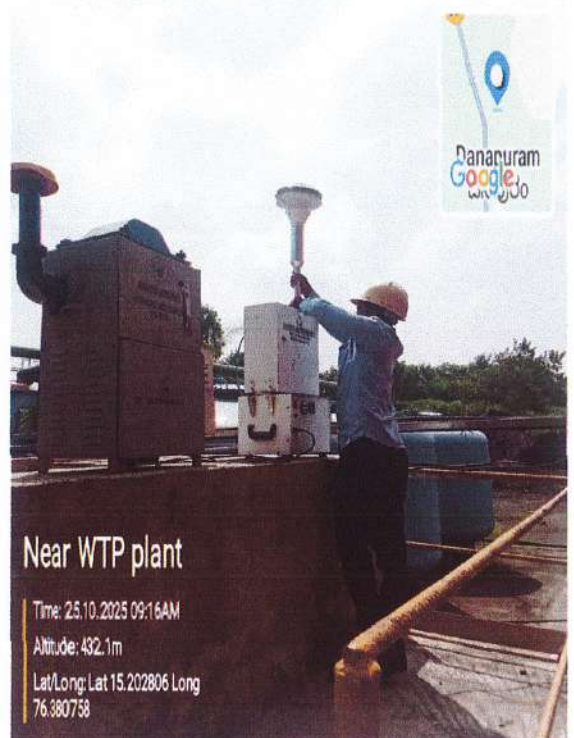
AMBIENT AIR QUALITY MONITORING STATION

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



AMBIENT AIR QUALITY MONITORING STATION

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





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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),
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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 : OCTOBER-2025
Location : A3-Galemmanagudi Village
Duration of Monitoring : 24 Hour
Report Issue Date : 03.11.2025
Report Number : ULR-TC1618025000002855F

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
06.10.2025	07.10.2025	5531	46.88	13.30	8.19	10.54	0.00	<20.0
07.10.2025	08.10.2025	5575	50.71	16.44	10.69	13.26	0.00	<20.0
13.10.2025	14.10.2025	5785	48.96	11.75	9.69	11.83	0.00	<20.0
14.10.2025	15.10.2025	5857	54.79	11.46	9.40	10.83	0.00	<20.0
22.10.2025	23.10.2025	6066	33.37	10.25	12.14	12.32	0.00	<20.0
23.10.2025	24.10.2025	6093	27.39	7.86	9.08	10.24	0.00	<20.0
27.10.2025	28.10.2025	6181	25.64	4.57	8.78	10.87	0.00	<20.0
28.10.2025	29.10.2025	6219	32.80	10.71	8.32	11.82	0.00	<20.0
Average			40.07	10.79	9.54	11.46	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 hrs.

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

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

[Signature]
Analysed By
Pavitra G R
Chemist

[Signature]
Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



Note:

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(Consulting Engineers, Mine designers, Geologist & Surveyors)

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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),
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 : **OCTOBER-2025**

Location : **A3-Galemmanagudi Village**

Report Issued Date : **03.11.2025**

Report Number : **GEMS/SMIORE/2025-26/2855**

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
06.10.2025	07.10.2025	5531	0.12	<0.1	<0.5	<0.5	0.10	<1.0
07.10.2025	08.10.2025	5575	0.14	<0.1	<0.5	<0.5	<0.01	<1.0
13.10.2025	14.10.2025	5785	0.10	<0.1	<0.5	<0.5	<0.01	<1.0
14.10.2025	15.10.2025	5857	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
22.10.2025	23.10.2025	6066	<0.01	<0.1	<0.5	<0.5	0.10	<1.0
23.10.2025	24.10.2025	6093	<0.01	<0.1	<0.5	<0.5	0.12	<1.0
27.10.2025	28.10.2025	6181	<0.01	<0.1	<0.5	<0.5	0.16	<1.0
28.10.2025	29.10.2025	6219	0.10	<0.1	<0.5	<0.5	0.14	<1.0
Average			0.11	<0.1	<0.5	<0.5	0.12	<1.0
Limits for Industrial , Residential, Rural, and other Areas			1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	5 Annual

Note: * Parameters 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****

Pavitra G R
Analysed By
Pavitra G R
Chemist

K. Ramakrishna Reddy
Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

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

AMBIENT AIR QUALITY MONITORING STATION

Location: A3-Galemmanagudi

Address: CD Yellappa S/o Dasappa Galemmanagudi Village near welcome board Hanumanahalli post

Tq: Hospet Di: Vijayanagara



AMBIENT AIR QUALITY MONITORING STATION

Location: Galemmanagudi

Address: CD Yellappa S/o Dasappa Galemmanagudi Village near welcome board Hanumahalli post

Tq: Hospet Di: Vijayanagara





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Website : www.gemslip.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 ,
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 : **OCTOBER-2025**
Location : **A4 - Near Plant Railway Siding**
Duration of Monitoring : 24 Hour
Report Issue Date : **03.11.2025**
Report Number : **ULR-TC1618025000002879F**

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
06.10.2025	07.10.2025	5549	51.22	13.72	8.75	9.81	10.34	<20.0
07.10.2025	08.10.2025	5562	45.05	15.59	8.92	11.86	0.00	<20.0
13.10.2025	14.10.2025	5789	35.30	16.55	8.98	9.77	0.00	<20.0
14.10.2025	15.10.2025	5842	52.41	16.04	9.94	11.55	0.00	<20.0
22.10.2025	23.10.2025	6048	50.14	9.06	7.36	9.31	15.84	<20.0
23.10.2025	24.10.2025	6087	55.57	7.28	9.26	10.38	12.68	<20.0
27.10.2025	28.10.2025	6168	32.41	5.22	8.39	9.70	10.12	<20.0
28.10.2025	29.10.2025	6223	44.75	7.39	6.97	8.81	0.00	<20.0
Average			45.86	11.36	8.57	10.15	6.12	<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 hrs

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

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

[Signature]
Analysed By
Pavitra G R
Chemist

[Signature]
Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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Website : www.gemslp.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),
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 : **OCTOBER-2025**

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

Report Issued Date : **03.11.2025**

Report Number : **GEMS/SMIORE/2025-26/2879**

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
06.10.2025	07.10.2025	5549	0.14	<0.1	<0.5	<0.5	0.14	<1.0
07.10.2025	08.10.2025	5562	0.10	<0.1	<0.5	<0.5	0.16	<1.0
13.10.2025	14.10.2025	5789	0.12	<0.1	<0.5	<0.5	0.12	<1.0
14.10.2025	15.10.2025	5842	0.10	<0.1	<0.5	<0.5	0.14	<1.0
22.10.2025	23.10.2025	6048	<0.01	<0.1	<0.5	<0.5	0.10	<1.0
23.10.2025	24.10.2025	6087	0.12	<0.1	<0.5	<0.5	0.14	<1.0
27.10.2025	28.10.2025	6168	<0.01	<0.1	<0.5	<0.5	0.12	<1.0
28.10.2025	29.10.2025	6223	0.12	<0.1	<0.5	<0.5	0.10	<1.0
Average			0.12	<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 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****

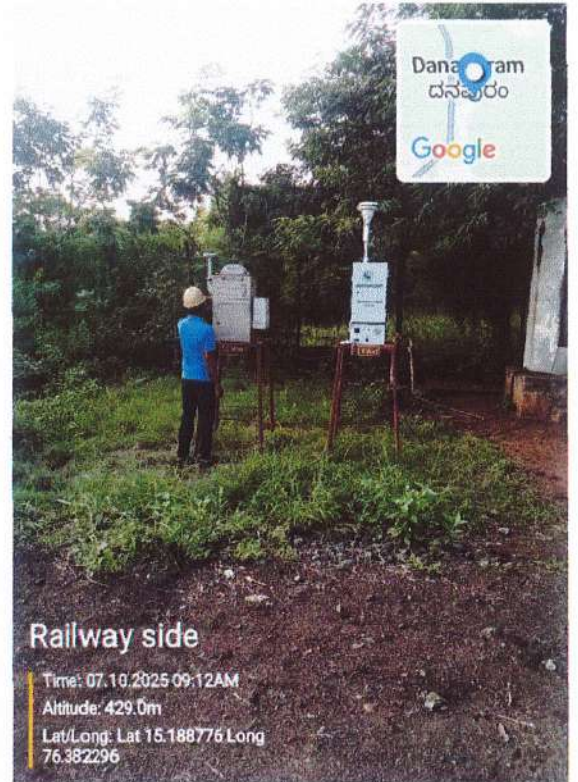
[Signature]
Analysed By
Pavitra G R
Chemist

[Signature]
Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

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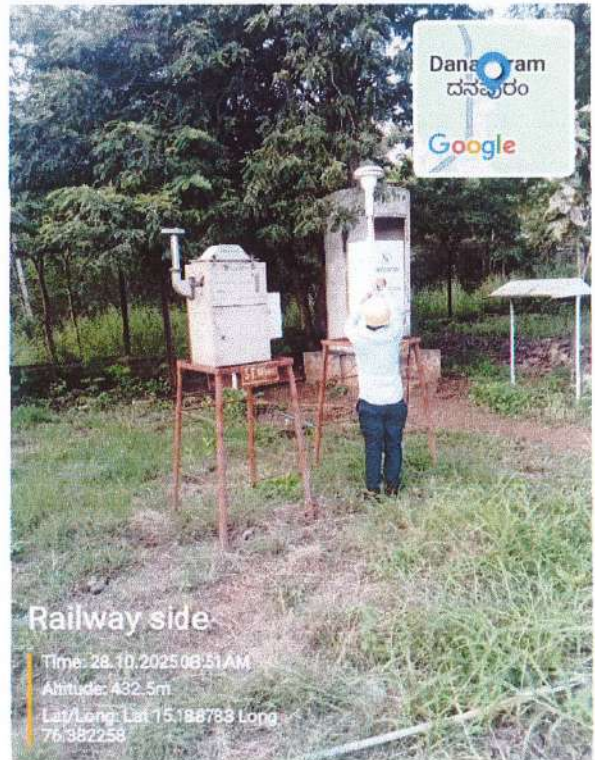
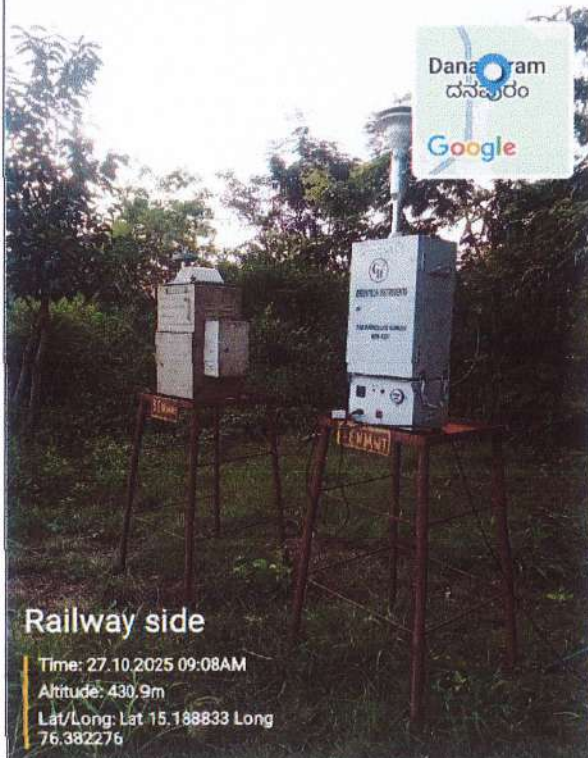
AMBIENT AIR QUALITY MONITORING STATION

Location: A4 - Near Plant Railway Siding



AMBIENT AIR QUALITY MONITORING STATION

Location: Location: A4 - Near Plant Railway Siding





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Website : www.gemslip.in



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), 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: 25.04.2025 Calibration Due Date: 24.04.2026
6 Discipline	: Chemical
7 Group	: Atmospheric Pollution
8 Sample Type	: Stack Monitoring
9 Sampling Location	: Stack Attached to Furnace - 3
10 Month of Sampling	: OCTOBER-2025
11 Date of Monitoring	: 28.10.2025
12 Date of Sample Received	: 28.10.2025
13 Sample Code	: 6190
14 Date of Sample Analysis	: 29.10.2025
15 Date of Sample Analysis completion	: 30.10.2025
16 Report Number	: ULR-TC1618025000003154F
17 Report Issued Date	: 03.11.2025

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	29	-
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	8.69	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	153669	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	120494	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	92.52	150
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	38.16	-
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	40.40	-
9	Carbon Monoxide	GEMS/SOP/69	%	0.14	-
10	Oxygen (O ₂)	GEMS/SOP/70	%	13.58	-

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

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

[Signature]
Analysed By
Pavitra G R
Chemist

[Signature]
Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

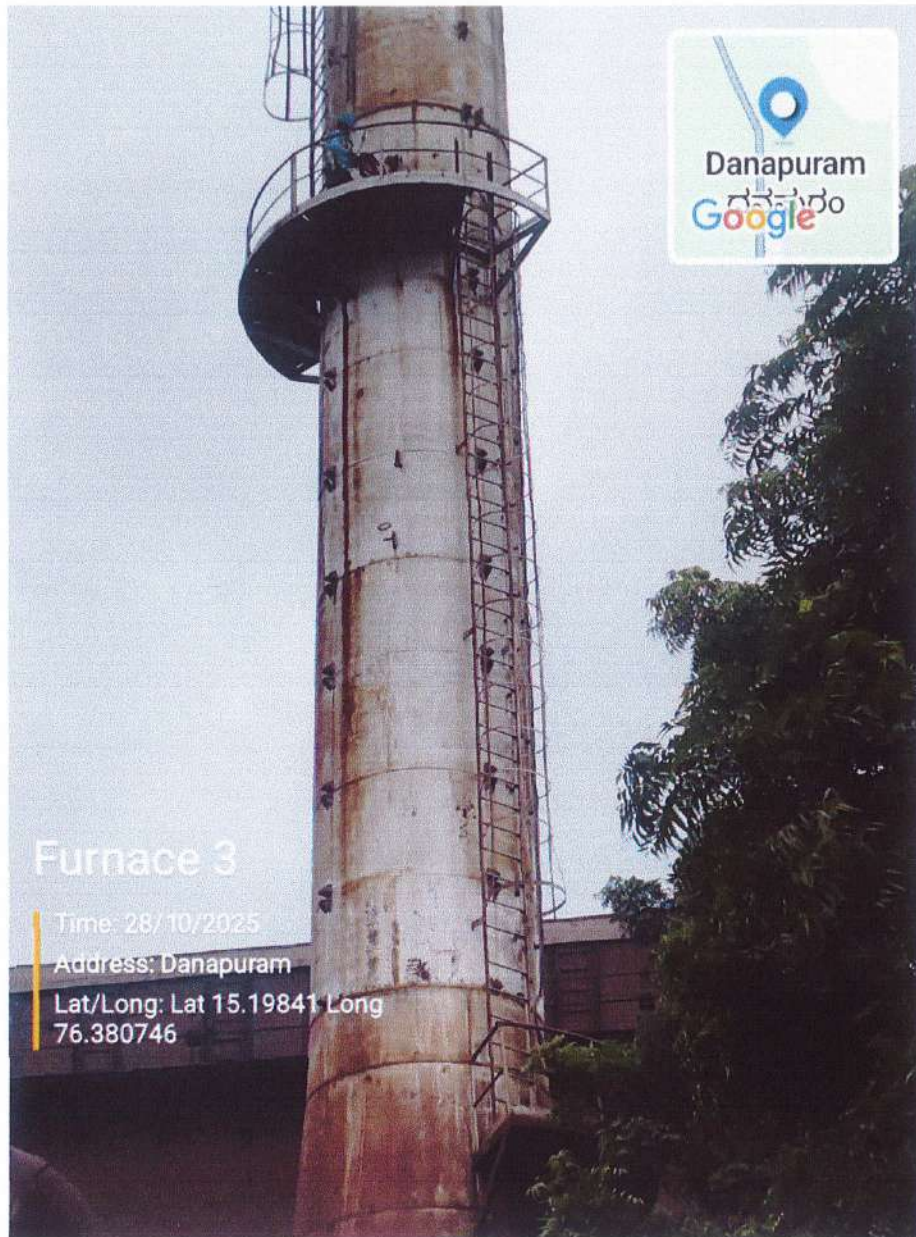


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STACK EMISSION

Location: Stack Attached to Furnace - 3





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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), 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: 25.04.2025 Calibration Due Date: 24.04.2026
6 Discipline	: Chemical
7 Group	: Atmospheric Pollution
8 Sample Type	: Stack Monitoring
9 Sampling Location	: Stack Attached to Furnace - 5
10 Month of Sampling	: OCTOBER-2025
11 Date of Monitoring	: 28.10.2025
12 Date of Sample Received	: 28.10.2025
13 Sample Code	: 6189
14 Date of Sample Analysis	: 29.10.2025
15 Date of Sample Analysis completion	: 30.10.2025
16 Report Number	: ULR-TC1618025000003153F
17 Report Issued Date	: 03.11.2025

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	29	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	116	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	8.92	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	238893	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	181556	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	85.29	150
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	30.47	-
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	36.14	-
9	Carbon Monoxide	GEMS/SOP/69	%	0.18	-
10	Oxygen (O ₂)	GEMS/SOP/70	%	12.74	-

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

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

Pavitra G R
Analysed By
Pavitra G R
Chemist

K. Ramakrishna Reddy
Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

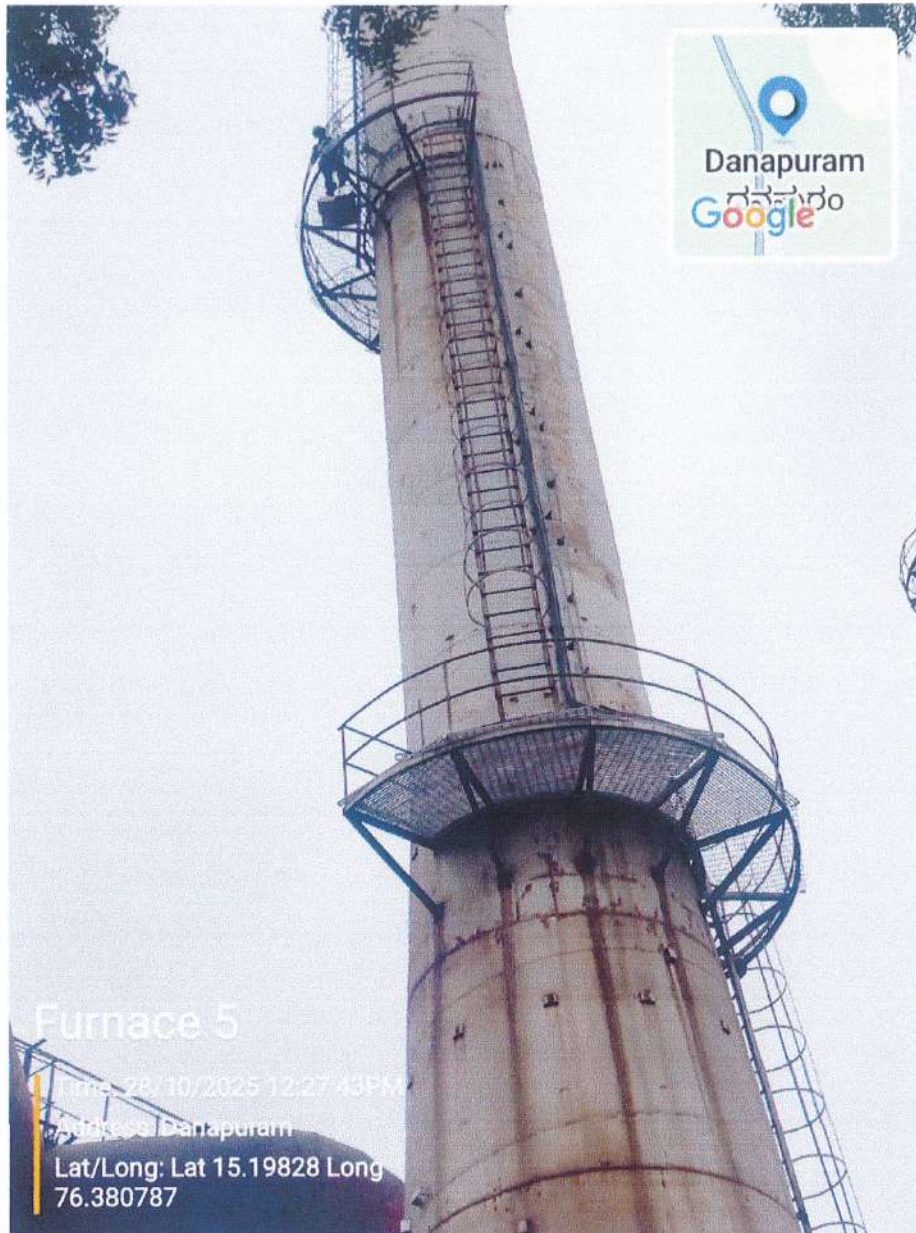


Note:

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STACK EMISSION

Location: Stack Attached to Furnace – 5





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e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



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), 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: 25.04.2025 Calibration Due Date: 24.04.2026
6 Discipline	: Chemical
7 Group	: Atmospheric Pollution
8 Sample Type	: Stack Monitoring
9 Sampling Location	: Stack Attached to WHRB-01
10 Month of Sampling	: OCTOBER-2025
11 Date of Monitoring	: 27.10.2025
12 Date of Sample Received	: 27.10.2025
13 Sample Code	: 6169
14 Date of Sample Analysis	: 28.10.2025
15 Date of Sample Analysis completion	: 28.10.2025
16 Report Number	: ULR-TC1618025000003145F
17 Report Issued Date	: 03.11.2025

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	28	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	129	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	9.69	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	178263	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	131093	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	36.96	50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	382.16	800
8	Nitrogen Dioxide	IS:11255 (Part 7): 2005 (RA 2017)	mg/Nm ³	115.48	500
9	Carbon Monoxide	GEMS/SOP/69	%	0.16	Max1%
10	Oxygen (O ₂)	GEMS/SOP/70	%	10.72	-

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

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

Pavitra G R
Analysed By
Pavitra G R
Chemist

K. Ramakrishna Reddy
Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



Note:

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STACK EMISSION

Location: Stack Attached to WHRB-01 (Coke Oven-1)





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e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



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), 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: 25.04.2025 Calibration Due Date: 24.04.2026
6 Discipline	: Chemical
7 Group	: Atmospheric Pollution
8 Sample Type	: Stack Monitoring
9 Sampling Location	: Stack Attached to WHRB-02
10 Month of Sampling	: OCTOBER-2025
11 Date of Monitoring	: 27.10.2025
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	: 03.11.2025

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****

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



Note:

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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), 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: 25.04.2025 Calibration Due Date: 24.04.2026
6 Discipline	: Chemical
7 Group	: Atmospheric Pollution
8 Sample Type	: Stack Monitoring
9 Sampling Location	: Stack Attached to Coal Crushing
10 Month of Sampling	: OCTOBER-2025
11 Date of Monitoring	: 24.10.2025
12 Date of Sample Received	: 24.10.2025
13 Sample Code	: 6105
14 Date of Sample Analysis	: 25.10.2025
15 Date of Sample Analysis completion	: 25.10.2025
16 Report Number	: ULR-TC1618025000003130F
17 Report Issued Date	: 03.11.2025

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	28	-
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	5.21	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	7223	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	6929	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	37.09	50

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

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

Analysed By
Pavitra G R
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

Note:

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STACK EMISSION
Location: Stack Attached to Coal Crushing





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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), 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: 25.04.2025 Calibration Due Date: 24.04.2026
6 Discipline	: Chemical
7 Group	: Atmospheric Pollution
8 Sample Type	: Stack Monitoring
9 Sampling Location	: Stack Attached to Coke Cutter
10 Month of Sampling	: OCTOBER-2025
11 Date of Monitoring	: 28.10.2025
12 Date of Sample Received	: 28.10.2025
13 Sample Code	: 6187
14 Date of Sample Analysis	: 29.10.2025
15 Date of Sample Analysis completion	: 30.10.2025
16 Report Number	: ULR-TC1618025000003151F
17 Report Issued Date	: 03.11.2025

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	26	-
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	5.51	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	7638	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	7389	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	34.38	50

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

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

Analysed By
Pavitra G R
Chemist

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



Note:

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STACK EMISSION
Location: Stack Attached to Coke Cutter





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Website : www.gemslp.in



TC-16180

ANNEXURE-11
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), 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: 25.04.2025 Calibration Due Date: 24.04.2026
6 Discipline	: Chemical
7 Group	: Atmospheric Pollution
8 Sample Type	: Stack Monitoring
9 Sampling Location	: Stack Attached to Coke Screening & Store
10 Month of Sampling	: OCTOBER-2025
11 Date of Monitoring	: 28.10.2025
12 Date of Sample Received	: 28.10.2025
13 Sample Code	: 6188
14 Date of Sample Analysis	: 29.10.2025
15 Date of Sample Analysis completion	: 30.10.2025
16 Report Number	: ULR-TC1618025000003152F
17 Report Issued Date	: 03.11.2025

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	27	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	34	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.44	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	7544	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	7298	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	31.85	50

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

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

By
Analysed By
Pavitra G R
Chemist

KCR
Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



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STACK EMISSION

Location: Stack Attached to Coke Screening & Store





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Website : www.gemslp.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),
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 : Noise Level Monitoring

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

Instrument Details : Date of Calibration:16.12.2024
Calibration Due Date:15.12.2025

Month : **OCTOBER-2025**

Duration of the Monitoring : 24 Hrs.

Report Issue Date : **03.11.2025**

Method Adopted : IS 9989-1981 Reaffirmed 2014

Report No : **ULR-TC1618025000002824F**

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)	10.10.2025	40.2	56.2	50.13	75	38.2	43.1	41.71	70
N2	Near Water Reservoir (WTP Plant)	04.10.2025	43.6	61.9	52.84		40.2	53.8	50.36	
Residential Area										
N3	Galemmanagudi	06.10.2025	47.6	57.8	52.48	55	39.8	43.8	41.76	45
N4	Vyasanakere Village	11.10.2025	42.2	53.1	49.04		36.6	40.2	39.82	
N5	Hanumana Halli	03.10.2025	47.8	55.0	51.02		39.2	42.6	40.48	

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

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

Authorised Signatory
K. Ramakrishna Reddy
Technical Manager

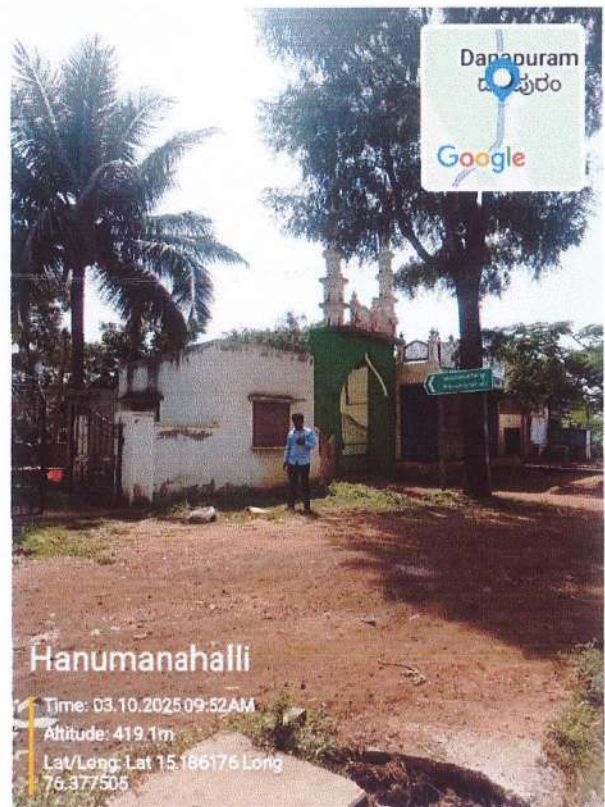
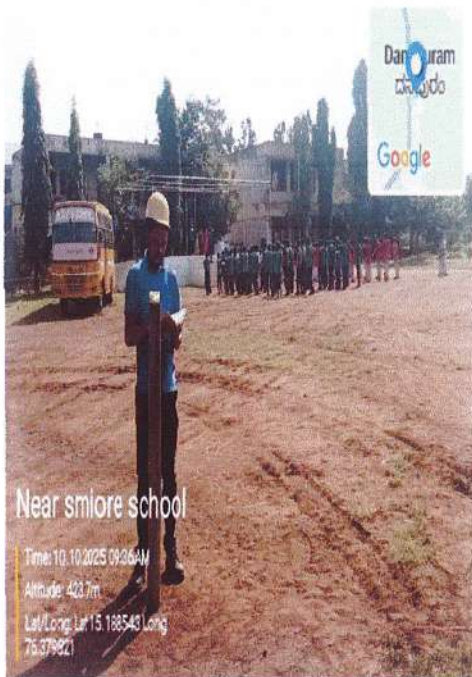
NOISE: (AMBIENT STANDARDS)

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

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AMBIENT AIR NOISE LEVEL MONITORING





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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 ,
- 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 : 5975
- 10 Date of Sampling : 18.10.2025
- 11 Sample Received : 18.10.2025
- 12 Date of Analysis : 18.10.2025
- 13 Date of Analysis Completion : 23.10.2025
- 14 Report Issue Date : 03.11.2025
- 15 Report Number : ULR-TC1618025000003080F

Sl. No.	Parameters	Protocol	Unit	Results	As per KSPCB Std
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.64	6.5 to 9.0
2.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	10.0	<20
3.	Biochemical Oxygen Demand as BOD (3 days at 27°C)	IS 3025 PART 44: 2023	mg/L	2.0	<10
4.	Chemical Oxygen Demand as COD	APHA 24th Edition 5220 B: 2023	mg/L	18.36	<50

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

End of the Report

Signature
Analysed By
Pavitra G R
Chemist

Signature
Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



Note:

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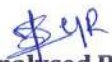
ANNEXURE-13
GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

- 1 Name of the Industry : **M/s. The Sandur Manganese & Iron Ores Ltd.**
(Metal & Ferro Alloys Plant),
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 : **5975**
- 10 Date of Sampling : **18.10.2025**
- 11 Sample Received : **18.10.2025**
- 12 Date of Analysis : **18.10.2025**
- 13 Date of Analysis Completion : **23.10.2025**
- 14 Report Issue Date : **03.11.2025**
- 15 Report Number : **GEMS/BMMIL/STP/2025-26/3080**

Sl. No.	Parameters	Protocol	Unit	Results	As per KSPCB Std
5	Ammonical nitrogen as N	IS:3025 (part 34)-1988, RA-2023	mg/L	1.68	<5
6	Total Nitrogen as N	IS:3025 (part 34)-1988, RA-2023	mg/L	3.22	<10
7	Fecal coliform	APHA 24th Edition 9222 B :2023	MPN/100ml	13	Less than 100

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


Analysed By
Pavitra GR
Chemist


Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



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Sewage Treatment Plant
Location : Sewage Treatment Plant (Outlet Water)

