

The Sandur Manganese & Iron Ores Limited

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

REGISTERED OFFICE

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



CORPORATE OFFICE

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

Ref No: SMIOR/PLANT/ENV/MR/2025-26/069

09/01/2026.

09/02/2026

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 **January-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 **January 2026** for your kind perusal.

Kindly acknowledge receipt of the same and oblige.

Thanking you,

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

Parvatareddy Patil

Parvatareddy Patil
Senior General Manager- Plant



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

MINES OFFICE: Deogiri - 583112, Sandur Taluk, Ballari District

Tel: +91 8395 271025 / 28 / 29 / 40; Fax: +91 8395 271066

PLANT OFFICE: Metal & Ferroalloy Plant, Vyasankere, Mariyammanahalli - 583 222, Hosapete Taluk, Vijayanagara District

Tel: +91 8394 244450 / 244335

ಸ್ವೀಕೃತಿ

ಕ.ರಾ.ಮಾ.ನಿ. ಮಂಡಳಿ

Page 1 of 1

ಸ್ವಾಧೀನಕ ರಫೇರಿ ವಿಜಯನಗರ ಹೊಸಪೇಟೆ
ಸಂಖ್ಯೆ/ದಿನಾಂಕ: 9-26-26 ಸಹಿ



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 State.***

JANUARY - 2026

Prepared by



GLOBAL ENVIRONMENT & MINING SERVICES LLP

NABL & MOEFCC Recognized Laboratory

(Consulting Engineers, Mine Designers, Geologists & Surveyors)
3rd main road, Basaveswara Badavane

HOSAPETE - 583201, Dist., Vijayanagara (Karnataka)

Tel : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in

PREFACE

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

In line with this requirement, and as part of its commitment to environmental compliance and the health and safety of its employees and surrounding communities, **M/s. The Sandur Manganese & Iron Ores Ltd.** has engaged **M/s. Global Environment & Mining Services LLP, Hospet-583201**, to carry out comprehensive environmental monitoring. The scope of monitoring includes:

- Ambient Air Quality (AAQ) Monitoring
- Noise Level Monitoring
- Stack Emissions Monitoring
- Water 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: 05.02.2026


Venkatesh S.
(Asst. General Manager)



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 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), Vyasnakere,
 Hanumanahalli Village, Hospet Taluk,
 Vijayanagara Dist., Karnataka
 Customer Reference : Work order No. 4200011817 Dated: 20.08.2025
 Sample collected by : Global Environment & Mining Services LLP
 Discipline : Chemical
 Group : Atmospheric Pollution
 Sample Type : Ambient Air Quality Monitoring
 Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler
 Month : **JANUARY-2026**
 Location : **A1-Near Existing AAQMS 01 (SMIORE School)**
 Duration of Monitoring : 24 Hour
 Report Issued Date : **05.02.2026**
 Report Number : **ULR-TC1618025000003755F**

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
02.01.2026	03.01.2026	8079	62.89	19.64	10.74	9.34	0.00	<20.0
03.01.2026	04.01.2026	8115	44.12	15.15	8.72	10.02	0.00	<20.0
09.01.2026	10.01.2026	8351	48.54	9.34	9.32	7.51	0.00	<20.0
10.01.2026	11.01.2026	8424	69.73	23.71	10.28	9.82	2.31	<20.0
16.01.2026	17.01.2026	8572	61.71	18.70	11.42	13.76	0.00	<20.0
17.01.2026	18.01.2026	8601	52.84	14.47	9.32	8.41	0.00	<20.0
23.01.2026	24.01.2026	8775	56.03	18.86	12.16	15.67	0.00	<20.0
24.01.2026	25.01.2026	8843	49.65	14.31	9.16	11.03	0.00	<20.0
30.01.2026	31.01.2026	8947	51.66	15.74	8.91	10.65	5.47	<20.0
31.01.2026	01.02.2026	8962	67.89	21.29	11.72	14.09	0.00	<20.0
Average			56.51	17.12	10.18	11.03	0.78	<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

Samreen P
 Analysed By
 Samreen P
 Chemist

S. Venkatesh
 Verified By
 Venkatesh S
 Asst. General Manager
 Global Environment & Mining Services LLP

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), Vyasankere,
Hanumanahalli Village, Hospet Taluk,
Vijayanagara Dist., Karnataka

Customer Reference : Workorder No.4200011817 Dated:20.08.2025

Sample collected by : Global Environment & Mining Services LLP

Discipline : Chemical

Group : Atmospheric Pollution

Sample Type : Ambient Air Quality Monitoring

Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler

Month : JANUARY-2026

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

Report Issued Date : 05.02.2026

Report Number : GEMS/SMIORE/2025-26/3755

RESULTS

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
02.01.2026	03.01.2026	8079	<0.01	<0.1	<0.5	<0.5	0.14	<1.0
03.01.2026	04.01.2026	8115	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
09.01.2026	10.01.2026	8351	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
10.01.2026	11.01.2026	8424	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
16.01.2026	17.01.2026	8572	<0.01	<0.1	<0.5	<0.5	0.10	<1.0
17.01.2026	18.01.2026	8601	<0.01	<0.1	<0.5	<0.5	0.14	<1.0
23.01.2026	24.01.2026	8775	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
24.01.2026	25.01.2026	8843	<0.01	<0.1	<0.5	<0.5	0.10	<1.0
30.01.2026	31.01.2026	8947	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
31.01.2026	01.02.2026	8962	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
Average			<0.01	<0.1	<0.5	<0.5	0.05	<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 Hr.

INFERENCE

As per NAAQMS Standards (2009).

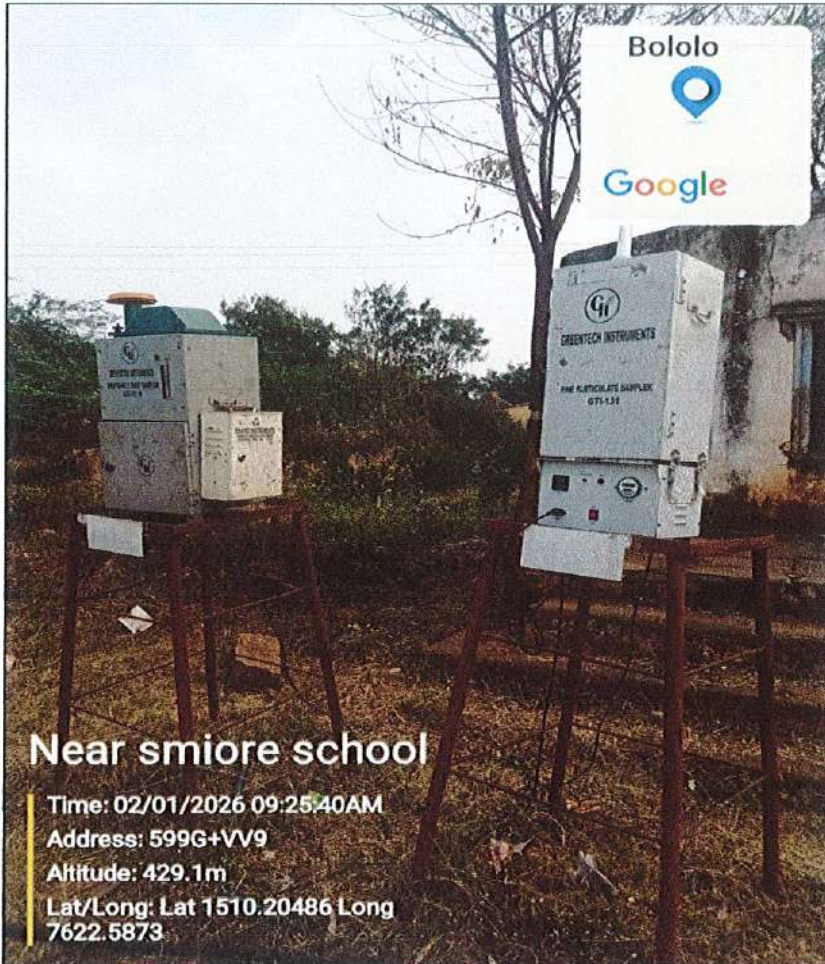
Report Status: - Measured Values for the above parameters are within the limit.

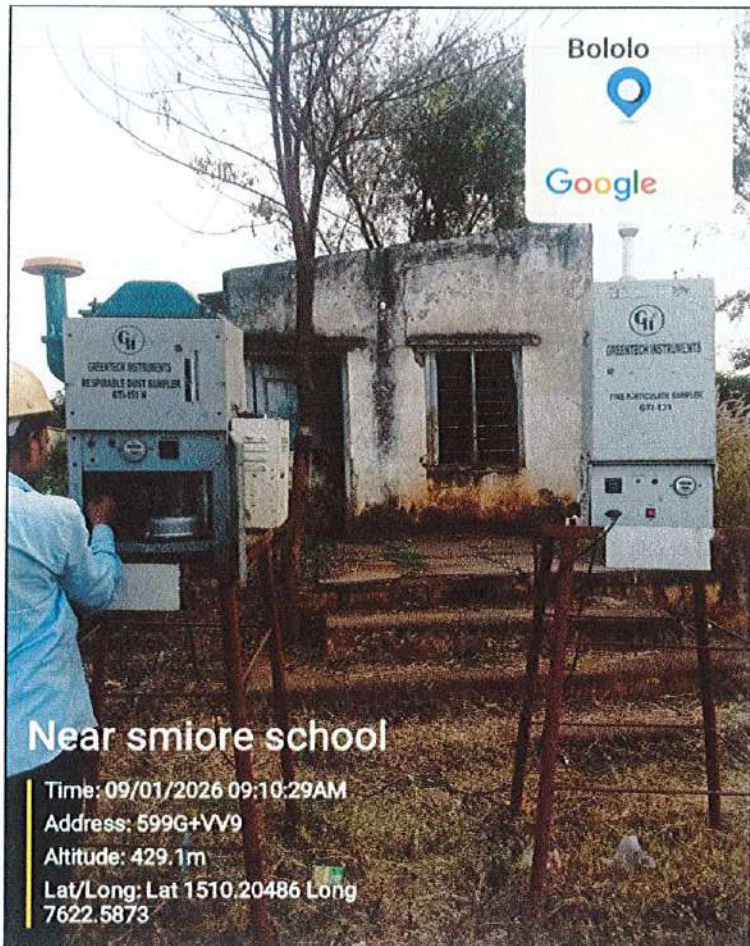
End of the Report


Analysed By
Somesh B
Chemist


Verified By
Venkatesha S
Asst. General Manager

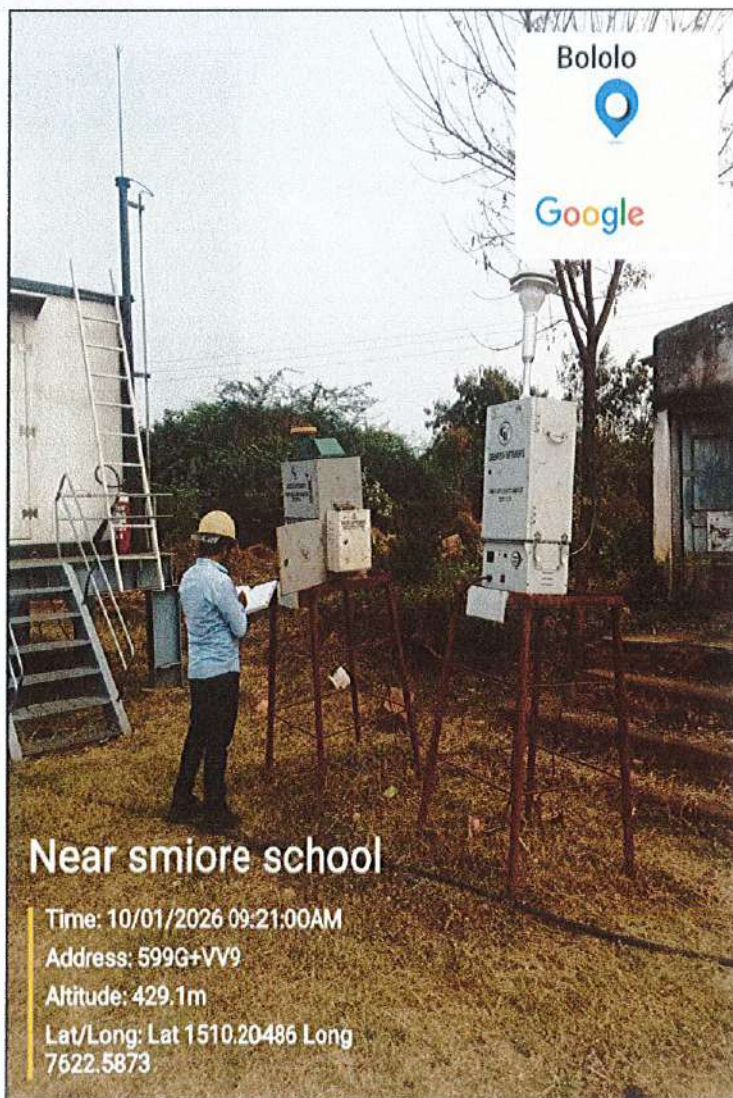

- Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
- Recognized by Government of Karnataka, Maharashtra, Goa for DGPS survey





Near smiore school

Time: 09/01/2026 09:10:29AM
Address: 599G+VV9
Altitude: 429.1m
Lat/Long: Lat 1510.20486 Long 7622.5873



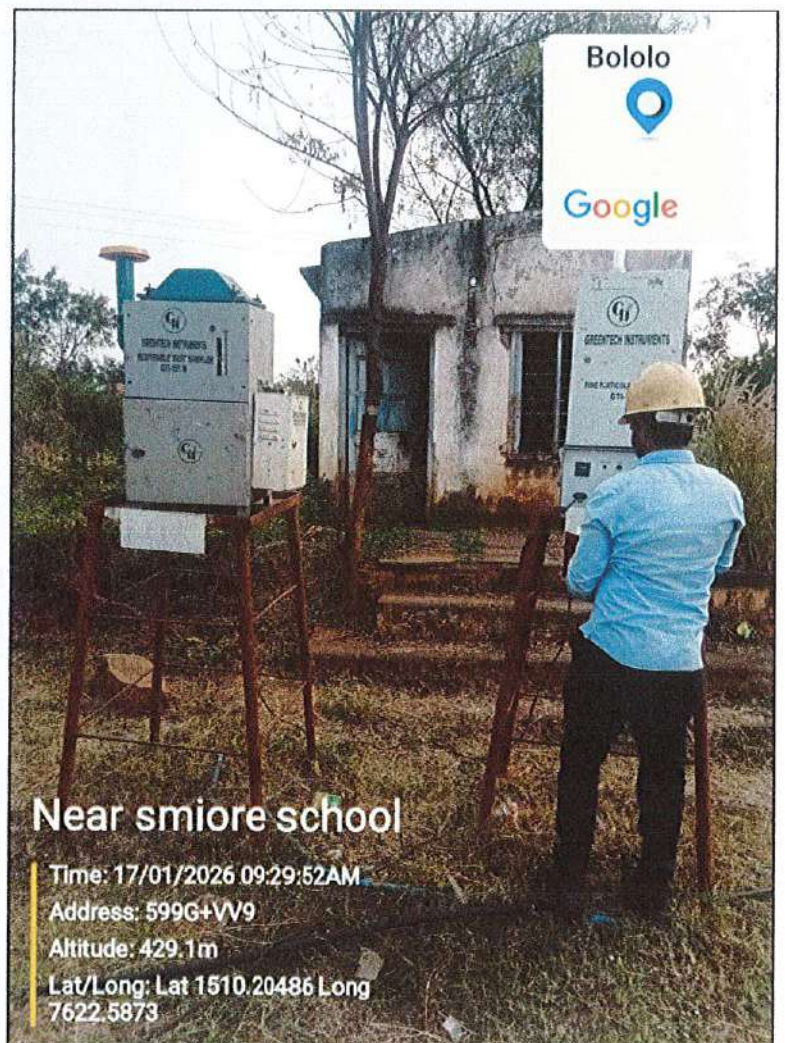
Near smiore school

Time: 10/01/2026 09:21:00AM
Address: 599G+VV9
Altitude: 429.1m
Lat/Long: Lat 1510.20486 Long 7622.5873



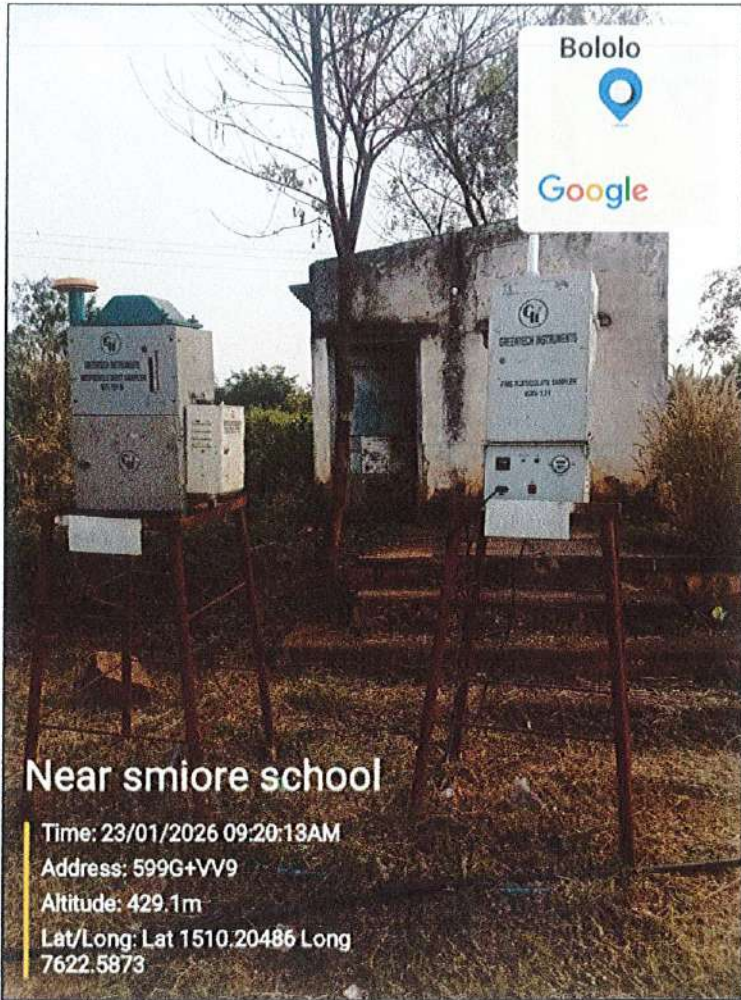
Near smiore school

Time: 16/01/2026 09:09:46AM
Address: 599G+VV9
Altitude: 429.1m
Lat/Long: Lat 1510.20486 Long
7622.5873



Near smiore school

Time: 17/01/2026 09:29:52AM
Address: 599G+VV9
Altitude: 429.1m
Lat/Long: Lat 1510.20486 Long
7622.5873



Near smiore school

Time: 23/01/2026 09:20:13AM
Address: 599G+VV9
Altitude: 429.1m
Lat/Long: Lat 1510.20486 Long 7622.5873



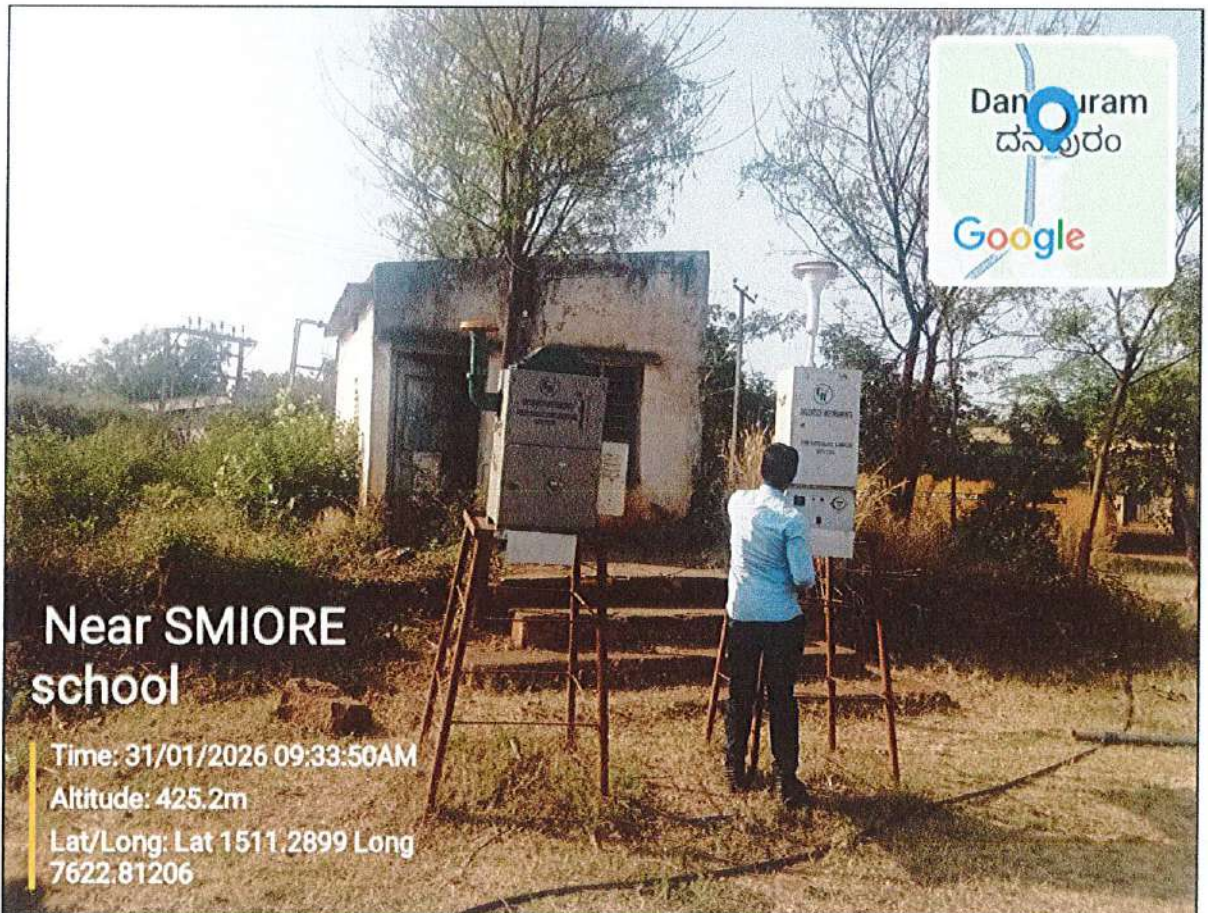
Near smiore school

Time: 24/01/2026 09:28:35AM
Address: 599G+VV9
Altitude: 429.1m
Lat/Long: Lat 1510.20486 Long 7622.5873



Near SMIORE
Schools

Time: 30/01/2026 09:11:57AM
Altitude: 419.4m
Lat/Long: Lat 1511.28834 Long
7622.81266



Near SMIORE
school

Time: 31/01/2026 09:33:50AM
Altitude: 425.2m
Lat/Long: Lat 1511.2899 Long
7622.81206



GLOBAL ENVIRONMENT & MINING SERVICES LLP

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 Website : www.gemslp.in



TC-16180

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

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

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

Customer Reference : Work order No. 4200011817 Dated: 20.08.2025

Sample collected by : Global Environment & Mining Services LLP

Discipline : Chemical

Group : Atmospheric Pollution

Sample Type : Ambient Air Quality Monitoring

Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler

Month : **JANUARY-2026**

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

Duration of Monitoring : 24 Hour

Report Issued Date : **05.02.2026**

Report Number : **ULR-TC1618025000003756F**

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
02.01.2026	03.01.2026	8080	54.09	16.52	9.19	11.72	2.73	<20.0
03.01.2026	04.01.2026	8116	48.89	14.29	7.72	12.09	0.00	<20.0
09.01.2026	10.01.2026	8352	56.77	17.16	8.25	9.41	0.00	<20.0
10.01.2026	11.01.2026	8425	51.66	12.74	7.32	10.65	5.47	<20.0
16.01.2026	17.01.2026	8573	59.24	10.93	12.35	14.06	3.12	<20.0
17.01.2026	18.01.2026	8602	62.70	21.06	9.64	11.45	4.21	<20.0
23.01.2026	24.01.2026	8776	48.71	9.81	7.07	8.86	0.00	<20.0
24.01.2026	25.01.2026	8844	53.81	11.48	9.26	10.41	3.16	<20.0
30.01.2026	31.01.2026	8948	65.88	19.16	11.02	13.18	0.00	<20.0
31.01.2026	01.02.2026	8963	42.14	15.57	7.27	12.39	0.00	<20.0
Average			54.39	14.87	8.91	11.42	1.87	<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****

Analysed By

 Samreen P
 Chemist

Verified By

 Venkatesh S
 Asst. General Manager

Note:

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



GEMS



NABET

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Website : www.gemslp.in

ANNEXURE-02
GEMS-LD/TF/11/01**ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA**

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

Customer Reference : Workorder No.4200011817 Dated:20.08.2025

Sample collected by : Global Environment & Mining Services LLP

Discipline : Chemical

Group : Atmospheric Pollution

Sample Type : Ambient Air Quality Monitoring

Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler

Month : **JANUARY-2026**

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

Report Issued Date : **05.02.2026**

Report Number : **GEMS/SMIORE/2025-26/3756**

RESULTS

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/B7	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
02.01.2026	03.01.2026	8080	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
03.01.2026	04.01.2026	8116	<0.01	<0.1	<0.5	<0.5	0.10	<1.0
09.01.2026	10.01.2026	8352	0.16	<0.1	<0.5	<0.5	0.16	<1.0
10.01.2026	11.01.2026	8425	0.12	<0.1	<0.5	<0.5	<0.01	<1.0
16.01.2026	17.01.2026	8573	<0.01	<0.1	<0.5	<0.5	0.14	<1.0
17.01.2026	18.01.2026	8602	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
23.01.2026	24.01.2026	8776	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
24.01.2026	25.01.2026	8844	0.10	<0.1	<0.5	<0.5	0.10	<1.0
30.01.2026	31.01.2026	8948	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
31.01.2026	01.02.2026	8963	<0.01	<0.1	<0.5	<0.5	0.10	<1.0
Average			0.05	<0.1	<0.5	<0.5	0.06	<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 1Hr

INFERENCE

As per NAAQMS Standards (2009),

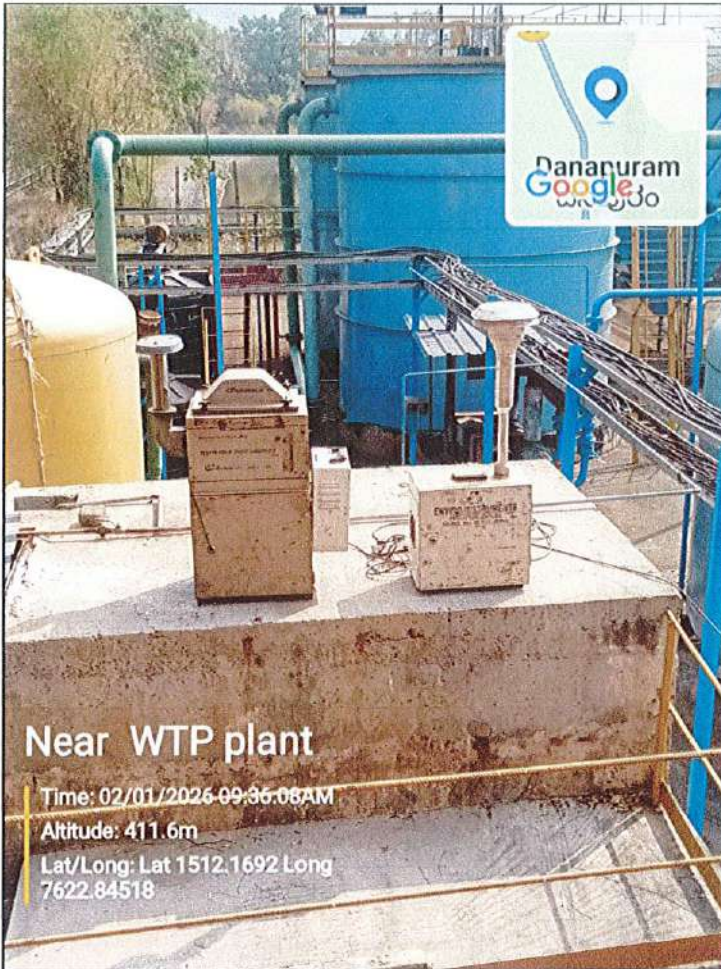
Report Status: - Measured Values for the above parameters are within the limit.

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

Somesh B
Analysed By
Somesh B
Chemist

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

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

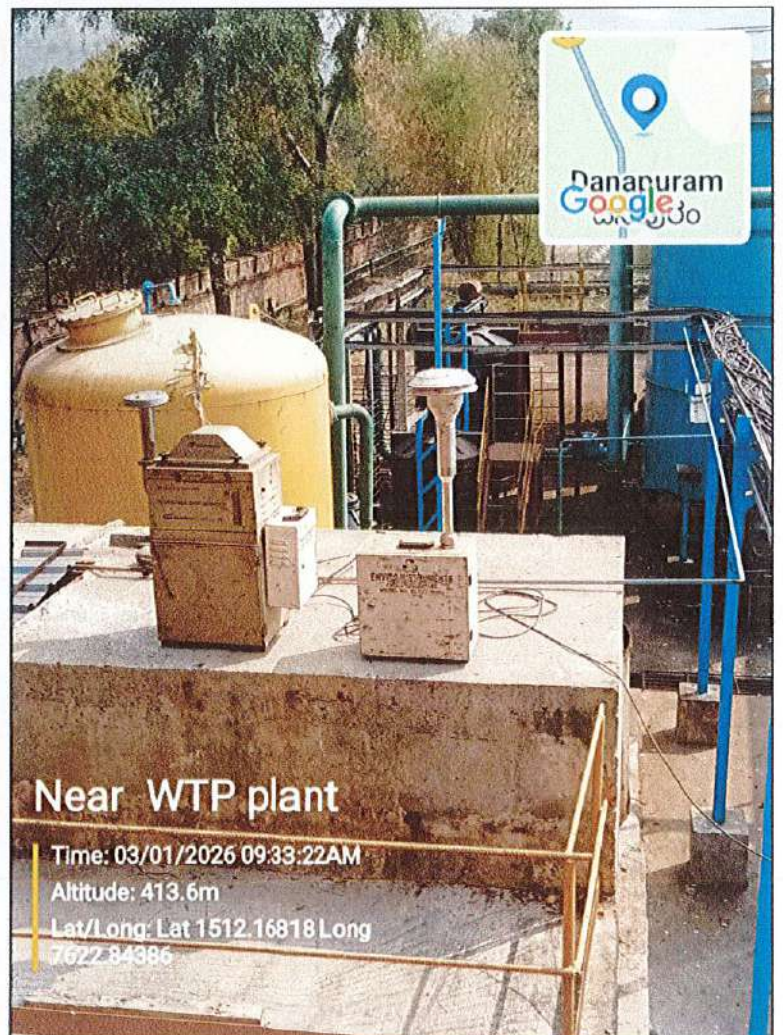


Near WTP plant

Time: 02/01/2026 09:36:08AM

Altitude: 411.6m

Lat/Long: Lat 1512.1692 Long 7622.84518

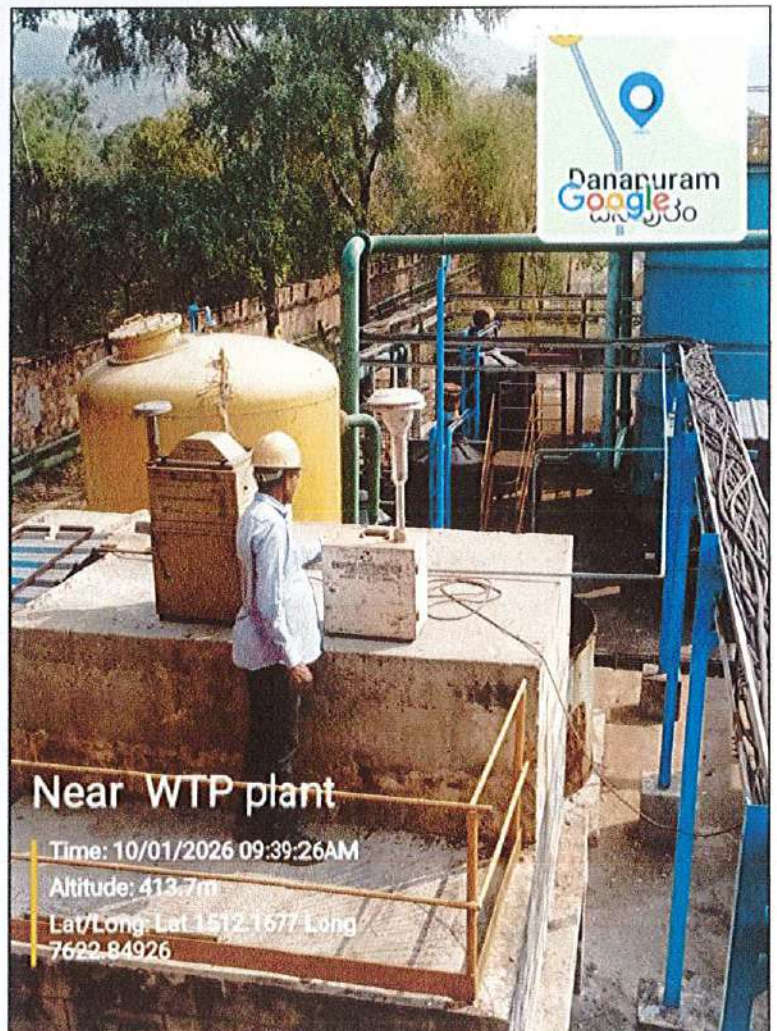
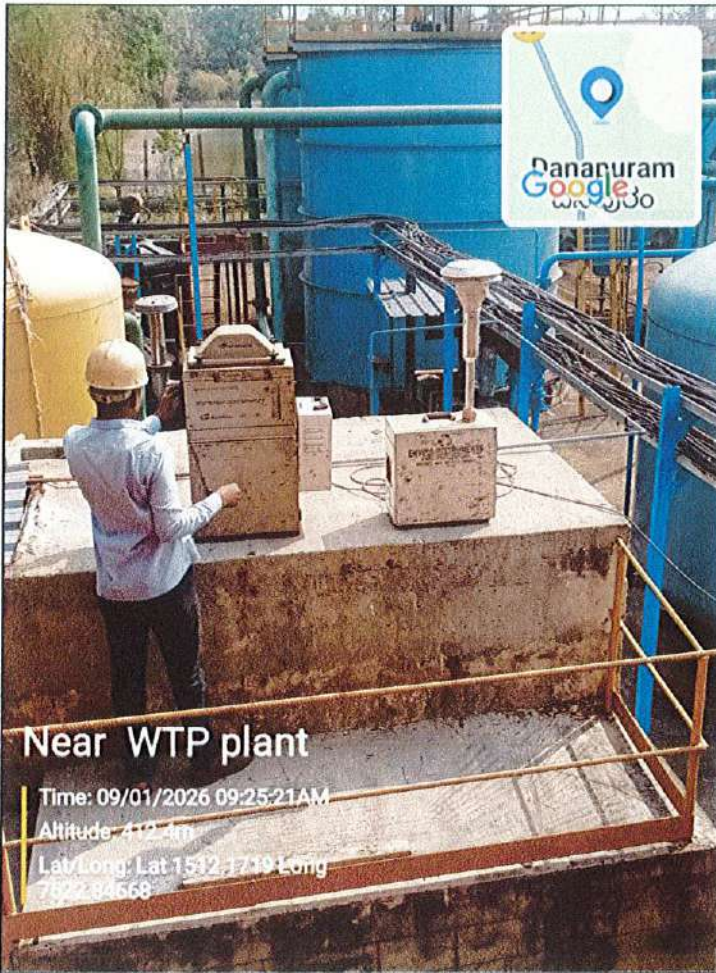


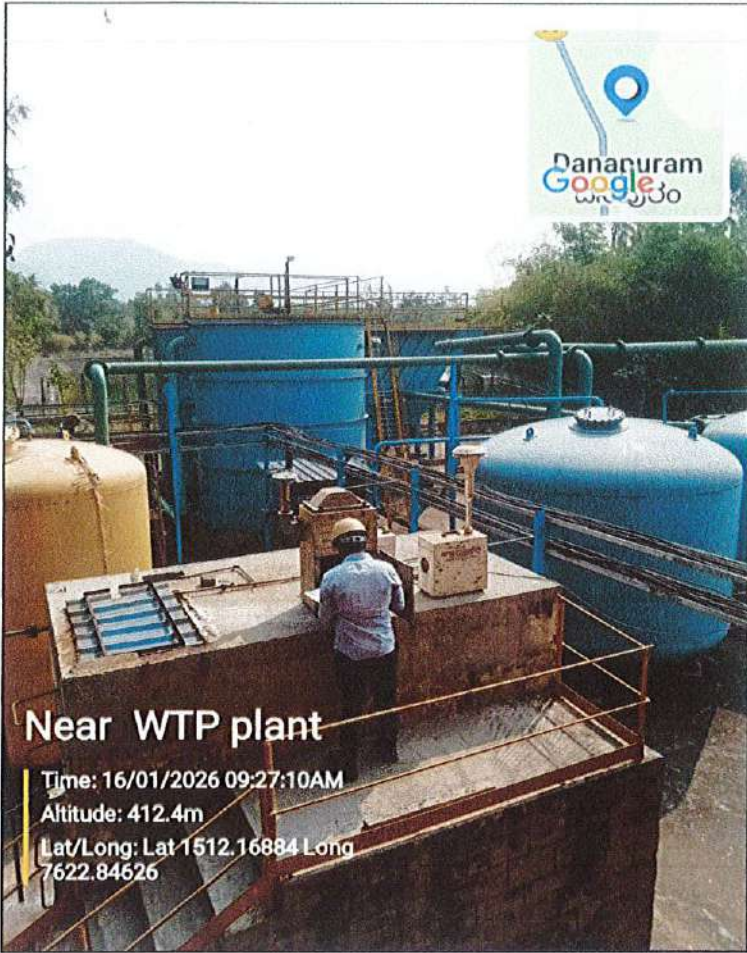
Near WTP plant

Time: 03/01/2026 09:33:22AM

Altitude: 413.6m

Lat/Long: Lat 1512.16818 Long 7622.84386



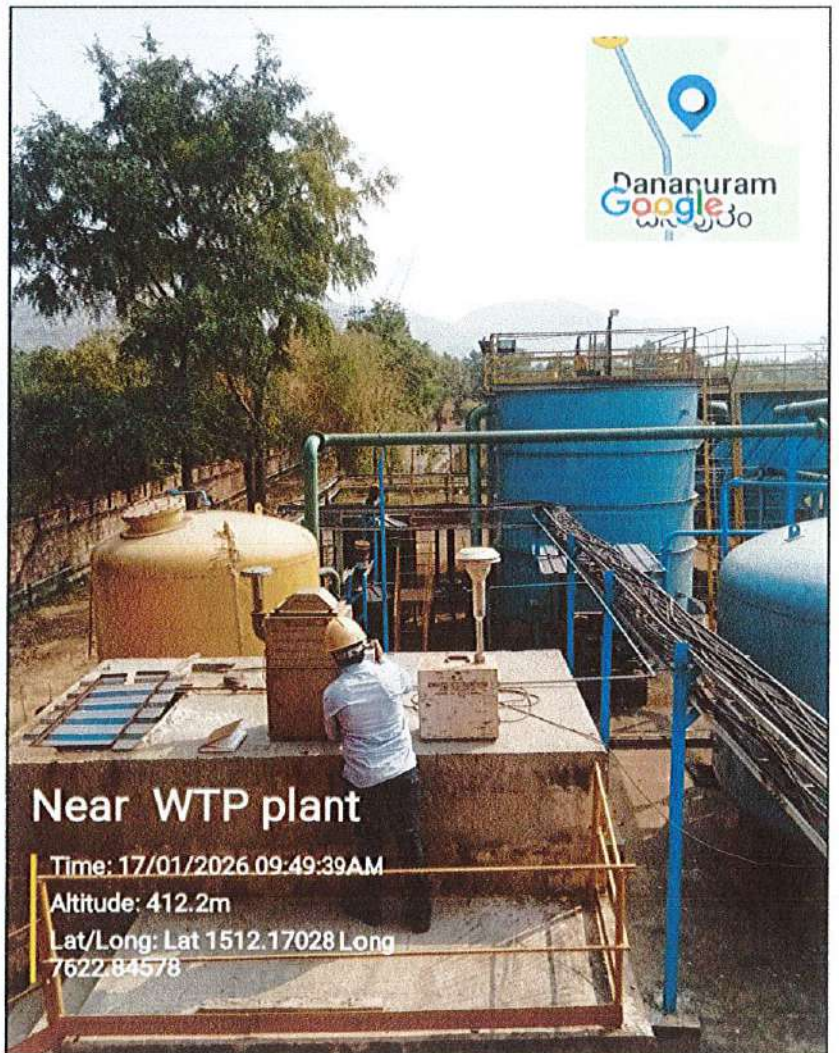


Near WTP plant

Time: 16/01/2026 09:27:10AM

Altitude: 412.4m

Lat/Long: Lat 1512.16884 Long 7622.84626

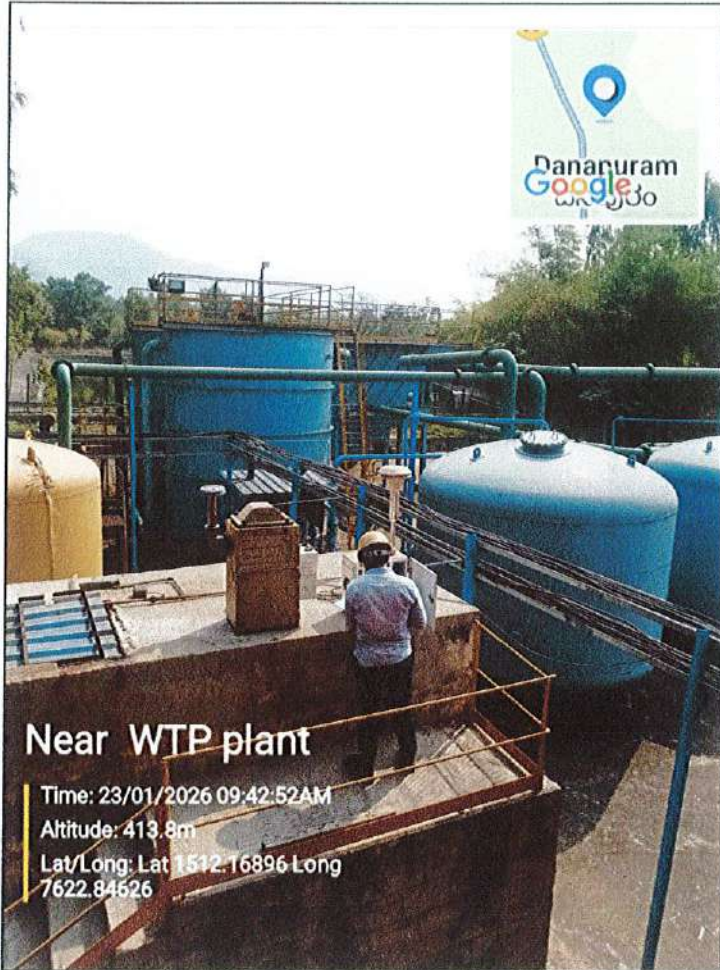


Near WTP plant

Time: 17/01/2026 09:49:39AM

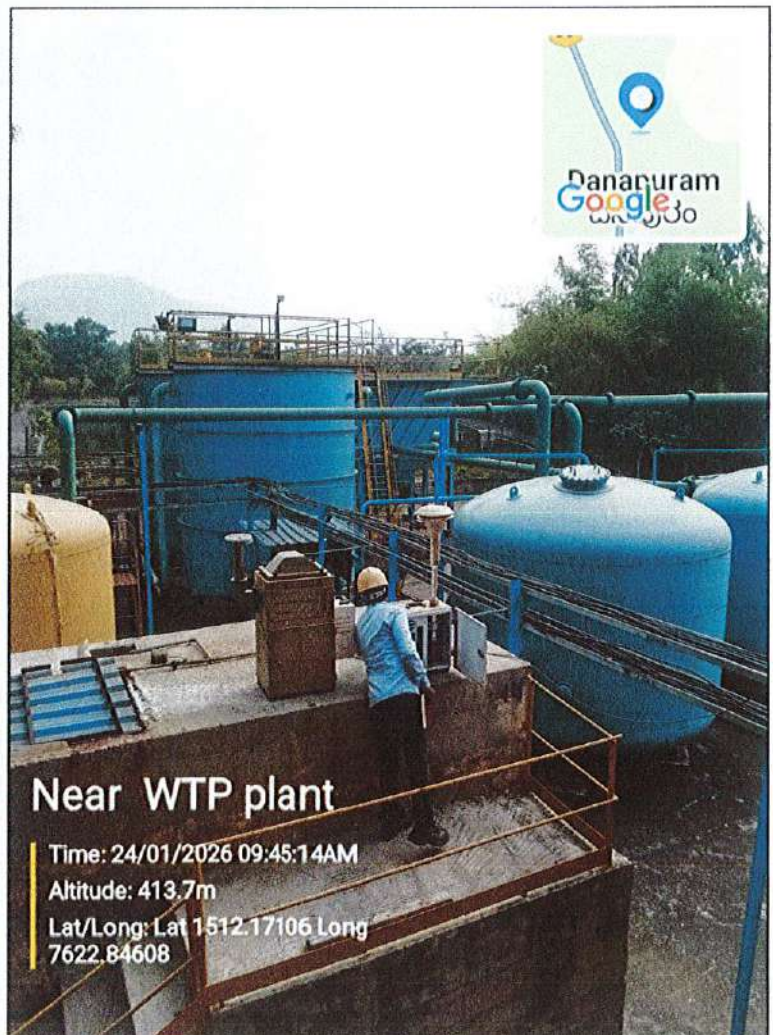
Altitude: 412.2m

Lat/Long: Lat 1512.17028 Long 7622.84578



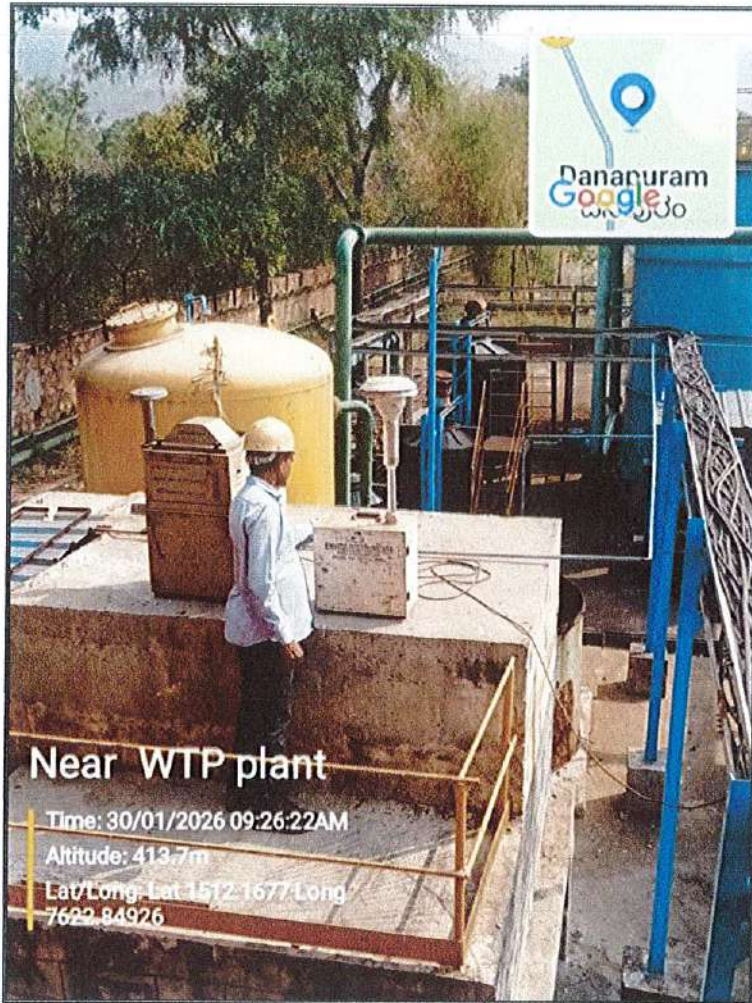
Near WTP plant

Time: 23/01/2026 09:42:52AM
Altitude: 413.8m
Lat/Long: Lat 1512.16896 Long
7622.84626



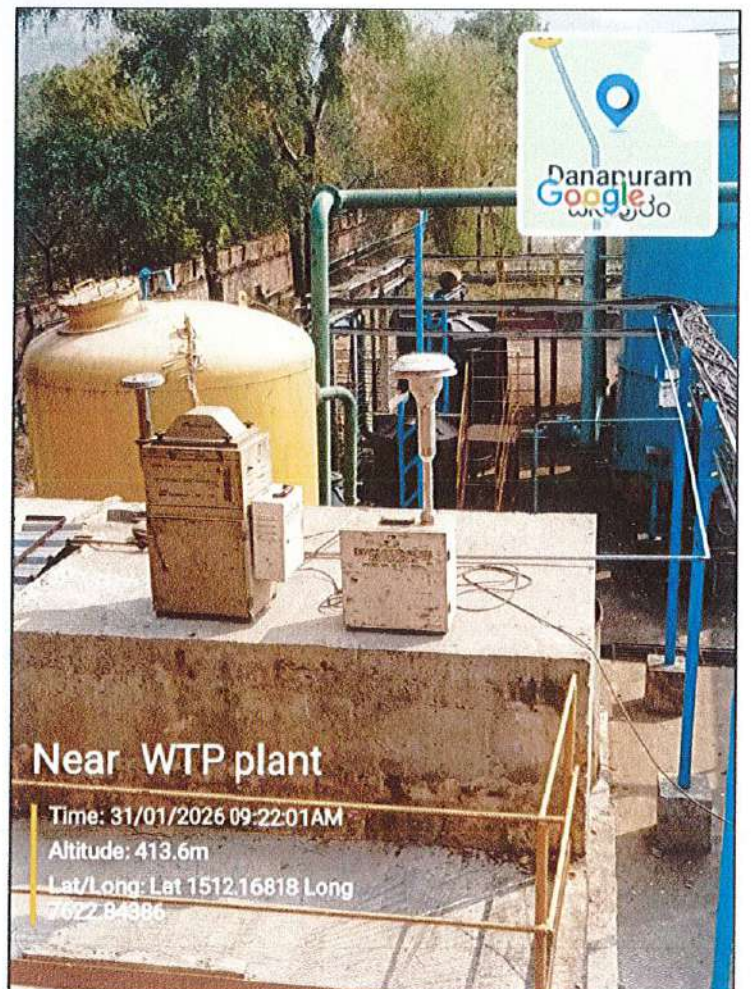
Near WTP plant

Time: 24/01/2026 09:45:14AM
Altitude: 413.7m
Lat/Long: Lat 1512.17106 Long
7622.84608



Near WTP plant

Time: 30/01/2026 09:26:22AM
Altitude: 413.7m
Lat/Long: Lat 1512.1677 Long
7622.84926



Near WTP plant

Time: 31/01/2026 09:22:01AM
Altitude: 413.6m
Lat/Long: Lat 1512.16818 Long
7622.84386



GLOBAL ENVIRONMENT & MINING SERVICES LLP

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 Website : www.gemslip.in



TC-16180

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

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. The Sandur Manganese & Iron Ores Ltd.**
 (Metal & Ferro Alloys Plant), Vyasanakere,
 Hanumanahalli Village, Hospet Taluk,
 Vijayanagara Dist., Karnataka
 Customer Reference : Workorder No.4200011817 Dated:20.08.2025
 Sample collected by : Global Environment & Mining Services LLP
 Discipline : Chemical
 Group : Atmospheric Pollution
 Sample Type : Ambient Air Quality Monitoring
 Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler
 Month : **JANUARY-2026**
 Location : **A3-Galemmanagudi Village**
 Duration of Monitoring : 24 Hour
 Report Issue Date : **05.02.2026**
 Report Number : **ULR-TC1618025000003757F**

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
05.01.2026	06.01.2026	8161	58.40	13.99	11.04	12.91	0.00	<20.0
06.01.2026	07.01.2026	8189	63.55	15.92	14.55	16.95	0.00	<20.0
12.01.2026	13.01.2026	8446	55.45	17.57	10.29	13.08	0.00	<20.0
13.01.2026	14.01.2026	8479	64.44	19.35	14.89	15.02	0.00	<20.0
19.01.2026	20.01.2026	8638	69.88	22.16	9.02	12.35	0.00	<20.0
20.01.2026	21.01.2026	8685	71.14	25.57	15.27	17.39	0.00	<20.0
27.01.2026	28.01.2026	8893	60.34	15.25	11.42	9.93	0.00	<20.0
28.01.2026	29.01.2026	8934	54.94	14.38	8.25	10.81	0.00	<20.0
Average			62.27	18.02	11.84	13.56	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.

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

Samreen P
 Analysed By
 Samreen P
 Chemist

Venkatesh S
 Verified By
 Venkatesh S
 Asst. General Manager

Note:

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



GLOBAL ENVIRONMENT & MINING SERVICES LLP

(Consulting Engineers, Mine designers, Geologist & Surveyors)

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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), Vyasankere,
Hanumanahalli Village, Hospet Taluk,
Vijayanagara Dist, Karnataka

Customer Reference : Workorder No.4200011817 Dated:20.08.2025

Sample collected by : Global Environment & Mining Services LLP

Discipline : Chemical

Group : Atmospheric Pollution

Sample Type : Ambient Air Quality Monitoring

Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler

Month : **JANUARY-2026**

Location : **A3-Galemmanagudi Village**

Report Issued Date : **05.02.2026**

Report Number : **GEMS/SMIORE/2025-26/3757**

RESULTS

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
05.01.2026	06.01.2026	8161	<0.01	<0.1	<0.5	<0.5	0.18	<1.0
06.01.2026	07.01.2026	8189	<0.01	<0.1	<0.5	<0.5	0.14	<1.0
12.01.2026	13.01.2026	8446	<0.01	<0.1	<0.5	<0.5	0.09	<1.0
13.01.2026	14.01.2026	8479	<0.01	<0.1	<0.5	<0.5	0.16	<1.0
19.01.2026	20.01.2026	8638	<0.01	<0.1	<0.5	<0.5	0.12	<1.0
20.01.2026	21.01.2026	8685	<0.01	<0.1	<0.5	<0.5	0.08	<1.0
27.01.2026	28.01.2026	8893	<0.01	<0.1	<0.5	<0.5	0.13	<1.0
28.01.2026	29.01.2026	8934	<0.01	<0.1	<0.5	<0.5	0.15	<1.0
Average			<0.01	<0.1	<0.5	<0.5	0.18	<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 1Hr.

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

****End of the Report***


Analysed By
Somesh B
Chemist


Verified By
Venkatesh Hospet
Asst. General Manager


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



Galemmanagudi villege

Time: 05/01/2026 04:42PM
Address: 599G+3QM,Danapuram
Altitude: 424.8m
Lat/Long: Lat 15.167705 Long 76.376918



galemanagudi villege

Time: 06-01-2026 04:22PM
Altitude: 1339.2ft
Lat/Long: Lat 15.192409 Long
76.377294



rahalli
3 Google

Galemmanagudi villege

Time: 12/01/2026 04:55PM
Address: 599G+3QM,Danapuram
Altitude: 424.8m
Lat/Long: Lat 15.167705 Long 76.376918



Danapuram
ದನಪುರಂ
Google

galemanagudi villege

Time: 13-01-2026 04:32PM
Altitude: 1364.5ft
Lat/Long: Lat 15.192341 Long 76.376357



Galemmanagudi villege

Time: 19-01-2026 04:41PM
Altitude: 1364.5ft
Lat/Long: Lat 15.192341 Long 76.376357



Galemmanagudi villege

Time: 20/01/2026 04:58PM
Address: 599G+3QM,Danapuram
Altitude: 424.8m
Lat/Long: Lat 15.167705 Long 76.376918



Galemmanagudi villege

Time: 27/01/2026 04:26PM
Address: 599G+3QM,Danapuram
Altitude: 424.8m
Lat/Long: Lat 15.167705 Long 76.376918



galemanagudi villege

Time: 28-01-2026 04:06PM
Altitude: 1364.5ft
Lat/Long: Lat 15.192341 Long 76.376357



GLOBAL ENVIRONMENT & MINING SERVICES LLP

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 Website : www.gemslp.in



TC-16180

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

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

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

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 : JANUARY-2026
 Location : A4 - Near Plant Railway Siding
 Duration of Monitoring : 24 Hour
 Report Issue Date : 05.02.2026
 Report Number : ULR-TC1618025000003758F

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
02.01.2026	03.01.2026	8081	53.79	14.41	9.83	10.01	0.00	<20.0
03.01.2026	04.01.2026	8117	59.07	12.72	10.41	9.25	1.43	<20.0
09.01.2026	10.01.2026	8353	50.74	14.35	9.79	11.68	4.86	<20.0
10.01.2026	11.01.2026	8426	66.23	17.45	10.64	9.11	0.00	<20.0
16.01.2026	17.01.2026	8574	53.18	11.32	9.50	10.35	6.43	<20.0
17.01.2026	18.01.2026	8603	51.89	12.68	8.56	11.47	0.00	<20.0
23.01.2026	24.01.2026	8777	59.09	15.19	10.37	12.60	3.78	<20.0
24.01.2026	25.01.2026	8845	48.40	12.98	8.27	9.29	0.00	<20.0
30.01.2026	31.01.2026	8949	41.98	9.87	6.85	8.17	0.00	<20.0
31.01.2026	01.02.2026	8964	55.81	15.64	11.48	14.82	0.00	<20.0
Average			54.02	13.66	9.57	10.68	1.65	<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

Analysed By
 Samreen P
 Chemist

Verified by
 Venkatesh S
 Asst. General 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.
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GLOBAL ENVIRONMENT & MINING SERVICES LLP

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

Customer Reference : Workorder No.4200011817 Dated:20.08.2025

Sample collected by : Global Environment & Mining Services LLP

Discipline : Chemical

Group : Atmospheric Pollution

Sample Type : Ambient Air Quality Monitoring

Particulars of Sample Collected : Respirable Dust Sampler, FPS Sampler

Month : **JANUARY-2026**

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

Report Issued Date : **05.02.2026**

Report Number : **GEMS/SMIORÉ/2025-26/3758**

RESULTS

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
02.01.2026	03.01.2026	8081	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
03.01.2026	04.01.2026	8117	0.13	<0.1	<0.5	<0.5	0.13	<1.0
09.01.2026	10.01.2026	8353	<0.01	<0.1	<0.5	<0.5	0.10	<1.0
10.01.2026	11.01.2026	8426	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
16.01.2026	17.01.2026	8574	0.17	<0.1	<0.5	<0.5	0.15	<1.0
17.01.2026	18.01.2026	8603	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
23.01.2026	24.01.2026	8777	<0.01	<0.1	<0.5	<0.5	0.10	<1.0
24.01.2026	25.01.2026	8845	0.18	<0.1	<0.5	<0.5	0.14	<1.0
30.01.2026	31.01.2026	8949	<0.01	<0.1	<0.5	<0.5	<0.01	<1.0
31.01.2026	01.02.2026	8964	<0.01	<0.1	<0.5	<0.5	0.12	<1.0
Average			0.06	<0.1	<0.5	<0.5	0.07	<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 Hr.

INFERENCE

As per NAAQMS Standards (2009),

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

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


Analysed By
Somesh B
Chemist


Verified By
Venkatesh
Asst. General Manager



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



Near plant railway
side

Time: 02/01/2026 09:15:37AM

Altitude: 419.0m

Lat/Long: Lat 1511.3295 Long
7622.99518



Near plant railway
side

Time: 03/01/2026 09:28:36AM

Altitude: 422.9m

Lat/Long: Lat 1511.32824 Long
7622.9353



Near plant railway side

Time: 09/01/2026 09:07:28AM

Altitude: 417.9m

Lat/Long: Lat 1511.32806 Long 7622.93446



Near plant railway side

Time: 10/01/2026 09:10:38AM

Altitude: 420.7m

Lat/Long: Lat 1511.32998 Long 7622.9341



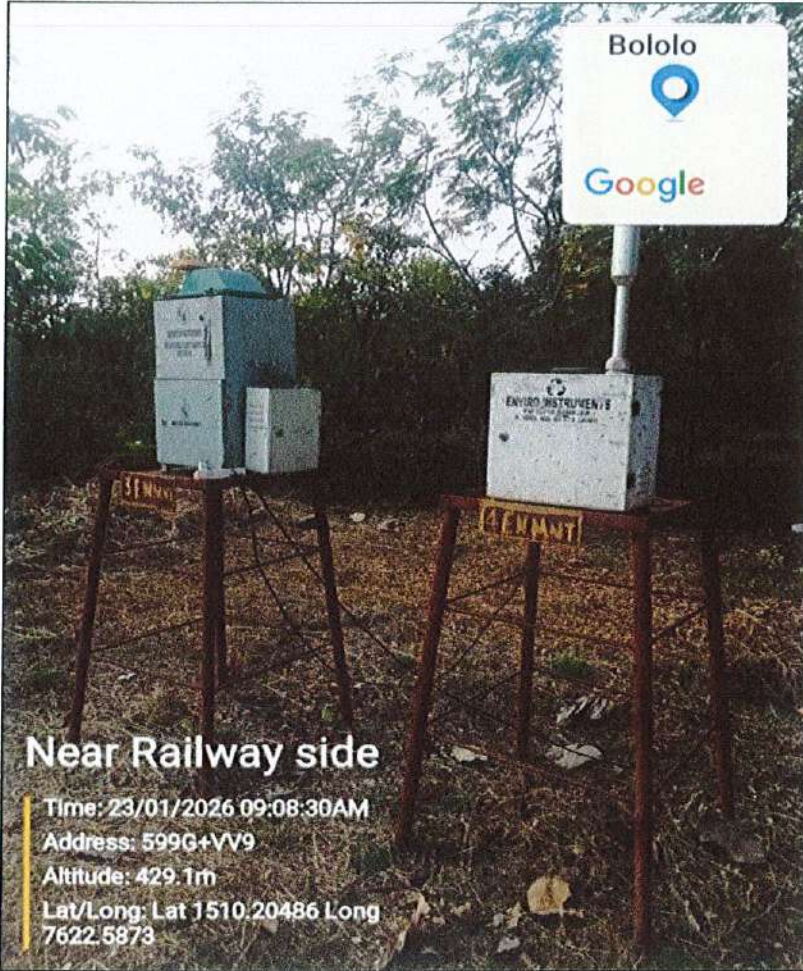
Near plant railway side

Time: 16/01/2026 08:50:45AM
Altitude: 424.4m
Lat/Long: Lat 1511.3286 Long 7622.9347



Near plant railway side

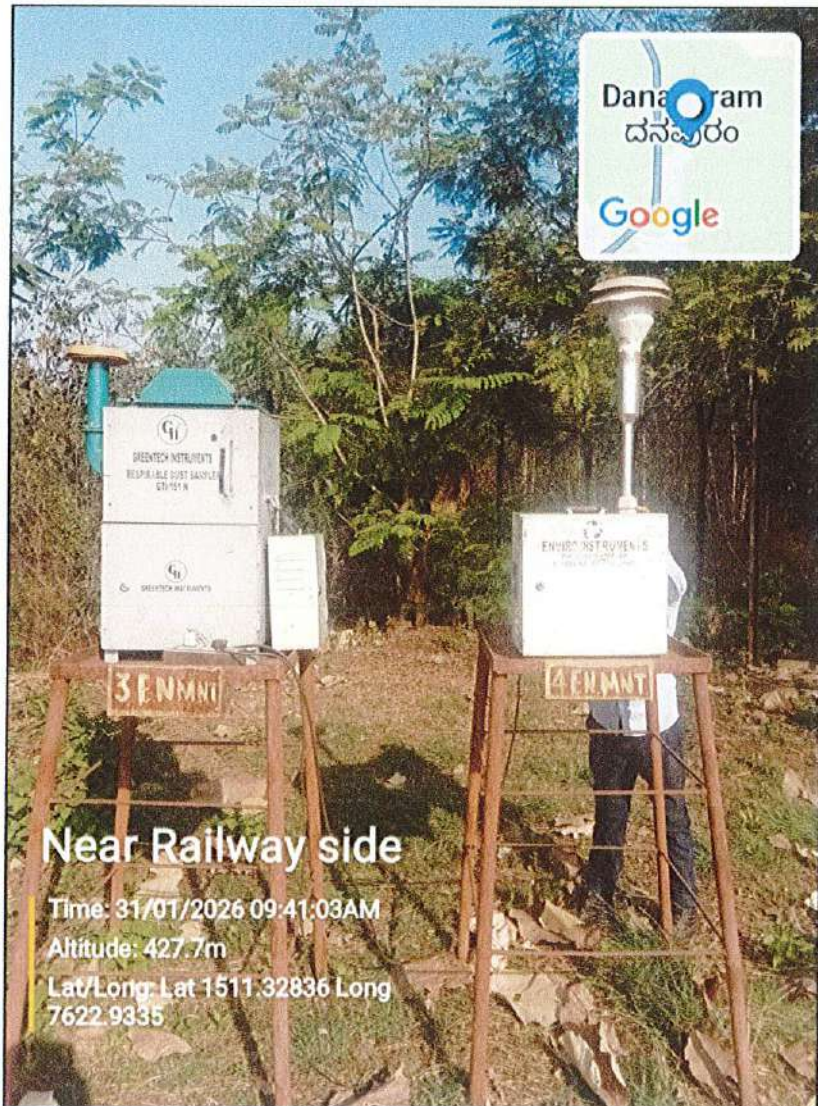
Time: 17/01/2026 09:20:35AM
Altitude: 423.1m
Lat/Long: Lat 1511.32848 Long 7622.93488





Near Railway side

Time: 30/01/2026 09:30:27AM
Altitude: 425.3m
Lat/Long: Lat 1511.3277 Long 7622.9344



Near Railway side

Time: 31/01/2026 09:41:03AM
Altitude: 427.7m
Lat/Long: Lat 1511.32836 Long 7622.9335



GLOBAL ENVIRONMENT & MINING SERVICES LLP

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 e-mail : gems_hpt@yahoo.com
 Website : www.gemslp.in



TC-16180

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

ANALYSIS REPORT OF STACK EMISSION

- | | | |
|----|------------------------------------|--|
| 1 | Name of the Industry | : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant), Vyasankere,
Hanumanahalli Village, Hospet Taluk,
Vijayanagara Dist., Karnataka |
| 2 | Customer Reference | : Workorder No.4200011817 Dated:20.08.2025 |
| 3 | Sample collected by | : Global Environment & Mining Services LLP, Hosapete |
| 4 | Particulars of sample collected | : Stack Kit (Greentech Instruments)
Sl. No: Stack Monitoring Kit/ 114-DTG-2016 |
| 5 | Instrument Details | : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026 |
| 6 | Discipline | : Chemical |
| 7 | Group | : Atmospheric Pollution |
| 8 | Sample Type | : Stack Monitoring |
| 9 | Sampling Location | : Stack Attached to Furnace - 3 |
| 10 | Month of Sampling | : JANUARY-2026 |
| 11 | Date of Monitoring | : 16.01.2026 |
| 12 | Date of Sample Received | : 16.01.2026 |
| 13 | Sample Code | : 8579 |
| 14 | Date of Sample Analysis | : 17.01.2026 |
| 15 | Date of Sample Analysis completion | : 17.01.2026 |
| 16 | Report Number | : ULR-TC1618025000003945F |
| 17 | Report Issued Date | : 05.02.2026 |

Stack Details

- | | | |
|---|---|-------|
| 1 | Fuel Used | - |
| 2 | Stack Height (mtrs) | 35 |
| 3 | Stack Diameter (mtrs) | 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	88	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	9.63	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	170256	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	139166	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	70.58	150
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	12.35	-
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	21.35	-
9	Carbon Monoxide	GEMS/SOP/69	%	0.043	-
10	Oxygen (O ₂)	GEMS/SOP/70	%	18.52	-

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

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

Samreen P
 Analysed By
 Samreen P
 Chemist

S Venkatesh
 Verified By
 Venkatesh S
 Asst. General 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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furnace-3 chimney

Time: 16/01/2023 03:28:21PM

Altitude: 445.0m

Lat/Long: 12°15'29.836 Long

7622.8513



GLOBAL ENVIRONMENT & MINING SERVICES LLP

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 e-mail : gems_hpt@yahoo.com
 Website : www.gemslip.in



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

ANALYSIS REPORT OF STACK EMISSION

- | | | |
|----|------------------------------------|--|
| 1 | Name of the Industry | : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant), Vyasanakere,
Hanumanahalli Village, Hospet Taluk,
Vijayanagara Dist, Karnataka |
| 2 | Customer Reference | : Workorder No.4200011817 Dated:20.08.2025 |
| 3 | Sample collected by | : Global Environment & Mining Services LLP, Hosapete |
| 4 | Particulars of sample collected | : Stack Kit (Greentech Instruments)
Sl. No: Stack Monitoring Kit/ 114-DTG-2016 |
| 5 | Instrument Details | : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026 |
| 6 | Discipline | : Chemical |
| 7 | Group | : Atmospheric Pollution |
| 8 | Sample Type | : Stack Monitoring |
| 9 | Sampling Location | : Stack Attached to Furnace - 5 |
| 10 | Month of Sampling | : JANUARY-2026 |
| 11 | Date of Monitoring | : 16.01.2026 |
| 12 | Date of Sample Received | : 16.01.2026 |
| 13 | Sample Code | : 8580 |
| 14 | Date of Sample Analysis | : 17.01.2026 |
| 15 | Date of Sample Analysis completion | : 17.01.2026 |
| 16 | Report Number | : ULR-TC1618025000003946F |
| 17 | Report Issued Date | : 05.02.2026 |

Stack Details

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

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	98	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	10.95	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	278733	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	221393	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	65.31	150
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	19.12	-
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	46.32	-
9	Carbon Monoxide	GEMS/SOP/69	%	0.039	-
10	Oxygen (O ₂)	GEMS/SOP/70	%	19.89	-

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

End of the Report

Samreen P
 Analysed By
 Samreen-P
 Chemist

V. Venkatesh S
 Verified By
 Venkatesh S
 Asst. General 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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Chimney 5 chimney

2026/2026 04:34:52PM

38.6m

Lat 1511.90646 Long

5



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 Website : www.gemslp.in



TC-16180

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

ANALYSIS REPORT OF STACK EMISSION

- | | | |
|----|------------------------------------|--|
| 1 | Name of the Industry | : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant), Vyasanakere,
Hanumanahalli Village, Hospet Taluk,
Vijayanagara Dist, Karnataka |
| 2 | Customer Reference | : Workorder No.42000 11817 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 | : JANUARY-2026 |
| 11 | Date of Monitoring | : 17.01.2026 |
| 12 | Date of Sample Received | : 17.01.2026 |
| 13 | Sample Code | : 8608 |
| 14 | Date of Sample Analysis | : 19.01.2026 |
| 15 | Date of Sample Analysis completion | : 19.01.2026 |
| 16 | Report Number | : ULR-TC1618025000003948F |
| 17 | Report Issued Date | : 05.02.2026 |

Stack Details

- | | | |
|----|---|-------|
| 1 | Fuel Used | - |
| 2 | Stack Height (mtrs) | 60 |
| 3 | Stack Diameter (mtrs) | 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	29	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	138	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.16	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	201318	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	144596	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	46.68	50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm ³	355.34	800
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm ³	106.35	500
9	Carbon Monoxide	GEMS/SOP/69	%	0.16	Max1%
10	Oxygen (O ₂)	GEMS/SOP/70	%	13.56	-

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

****End of the Report***

Analysed By
 Samreen-P
 Chemist

Verified By
 Venkatesh S
 Asst. General Manager

Note:

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Stack Attached to WHRB-01

Time: 17/01/2026 11:06:15AM

Altitude: 445.3m

Lat/Long: Lat 1511.73996 Long
7622.797



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 Website : www.gemslp.in



TC-16180

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

ANALYSIS REPORT OF STACK EMISSION

- | | | | |
|----|------------------------------------|---|--|
| 1 | Name of the Industry | : | M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant), Vyasankere,
Hanumanahalli Village, Hospet Taluk,
Vijayanagara Dist, Karnataka |
| 2 | Customer Reference | : | Workorder No.4200011817 Dated:20.08.2025 |
| 3 | Sample collected by | : | Global Environment & Mining Services LLP, Hosapete |
| 4 | Particulars of sample collected | : | Stack Kit (Greentech Instruments)
Sl. No: Stack Monitoring Kit/ 114-DTG-2016 |
| 5 | Instrument Details | : | Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026 |
| 6 | Discipline | : | Chemical |
| 7 | Group | : | Atmospheric Pollution |
| 8 | Sample Type | : | Stack Monitoring |
| 9 | Sampling Location | : | Stack Attached to WHRB-02 |
| 10 | Month of Sampling | : | JANUARY-2026 |
| 11 | Date of Monitoring | : | - |
| 12 | Date of Sample Received | : | - |
| 13 | Sample Code | : | - |
| 14 | Date of Sample Analysis | : | - |
| 15 | Date of Sample Analysis completion | : | - |
| 16 | Report Number | : | - |
| 17 | Report Issued Date | : | 05.02.2026 |

Stack Details

- | | | |
|---|---|-------|
| 1 | Fuel Used | - |
| 2 | Stack Height (mtrs) | 60 |
| 3 | Stack Diameter (mtrs) | 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


 Verified by
Venkatesh SOSPET
 Asst. General Manager


Note:

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e-mail : gems_hpt@yahoo.com

Website : www.gemslip.in



TC-16180

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

ANALYSIS REPORT OF STACK EMISSION

- 1 Name of the Industry : **M/s. The Sandur Manganese & Iron Ores Ltd.**
(Metal & Ferro Alloys Plant), Vyasnakere,
Hanumanahalli Village, Hospet Taluk,
Vijayanagara Dist., Karnataka
- 2 Customer Reference : **Workorder No.4200011817 Dated:20.08.2025**
- 3 Sample collected by : **Global Environment & Mining Services LLP, Hosapete**
- 4 Particulars of sample collected : **Stack Kit (Greentech Instruments)**
Sl. No: Stack Monitoring Kit/ **114-DTG-2016**
- 5 Instrument Details : **Calibration Date: 25.04.2025**
Calibration Due Date: 24.04.2026
- 6 Discipline : **Chemical**
- 7 Group : **Atmospheric Pollution**
- 8 Sample Type : **Stack Monitoring**
- 9 Sampling Location : **Stack Attached to Coal Crushing**
- 10 Month of Sampling : **JANUARY-2026**
- 11 Date of Monitoring : **23.01.2026**
- 12 Date of Sample Received : **23.01.2026**
- 13 Sample Code : **8782**
- 14 Date of Sample Analysis : **24.01.2026**
- 15 Date of Sample Analysis completion : **24.01.2026**
- 16 Report Number : **ULR-TC1618025000003996F**
- 17 Report Issued Date : **05.02.2026**

Stack Details

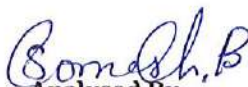
- 1 Fuel Used -
- 2 Stack Height (mtrs) 15
- 3 Stack Diameter (mtrs) 0.7
4. Cross Sectional Area in meter square (m2) 0.3850

Emission Details

Sl. No.	Parameters	Method	Unit	Result	Permissible Limit
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	30	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	42	-
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	7082	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	40.17	50

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

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


Analysed By
Somesh B
Chemist


Verified By
Venkatesh S
Asst. General Manager

Note:

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Stack Attached to Coal Crushing Back filter

Time: 23/01/2026 11:16:32AM

Altitude: 429.1m

Lat/Long: Lat 1511.67696 Long
7622.8372



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TC-16180

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

ANALYSIS REPORT OF STACK EMISSION

- | | | | |
|----|------------------------------------|---|---|
| 1 | Name of the Industry | : | M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant), Vyasankere,
Hanumanahalli Village, Hospet Taluk,
Vijayanagara Dist., Karnataka |
| 2 | Customer Reference | : | Workorder No.42000 11817 Dated:20.08.2025 |
| 3 | Sample collected by | : | Global Environment & Mining Services LLP, Hosapete |
| 4 | Particulars of sample collected | : | Stack Kit (Green tech 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 | : | JANUARY-2026 |
| 11 | Date of Monitoring | : | 23.01.2026 |
| 12 | Date of Sample Received | : | 23.01.2026 |
| 13 | Sample Code | : | 8783 |
| 14 | Date of Sample Analysis | : | 24.01.2026 |
| 15 | Date of Sample Analysis completion | : | 24.01.2026 |
| 16 | Report Number | : | ULR-TC1618025000003997F |
| 17 | Report Issued Date | : | 05.02.2026 |

Stack Details

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

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	37	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.74	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	7955	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	7568.4	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	26.26	50

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

End of the Report

Analysed By
 Somesh B
 Chemist

Verified By
 Venkatesh S
 Asst. General Manager

Note:

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Stack Attached to Coke Cutter Back filter

Time: 23/01/2026 12:58:18PM

Altitude: 432.5m

Lat/Long: Lat 1511.60856 Long
7622.73796

P UNIT



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 Website : www.gemslp.in



TC-16180

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

ANALYSIS REPORT OF STACK EMISSION

- | | | |
|----|------------------------------------|--|
| 1 | Name of the Industry | : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant), Vyasanakere,
Hanumanahalli Village, Hospet Taluk,
Vijayanagara Dist, Karnataka |
| 2 | Customer Reference | : Workorder No.4200011817 Dated:20.08.2025 |
| 3 | Sample collected by | : Global Environment & Mining Services LLP, Hosapete |
| 4 | Particulars of sample collected | : Stack Kit (Greentech Instruments)
Sl. No: Stack Monitoring Kit/ 114-DTG-2016 |
| 5 | Instrument Details | : Calibration Date: 25.04.2025
Calibration Due Date: 24.04.2026 |
| 6 | Discipline | : Chemical |
| 7 | Group | : Atmospheric Pollution |
| 8 | Sample Type | : Stack Monitoring |
| 9 | Sampling Location | : Stack Attached to Coke Screening & Store |
| 10 | Month of Sampling | : JANUARY-2026 |
| 11 | Date of Monitoring | : 23.01.2026 |
| 12 | Date of Sample Received | : 23.01.2026 |
| 13 | Sample Code | : 8784 |
| 14 | Date of Sample Analysis | : 24.01.2026 |
| 15 | Date of Sample Analysis completion | : 24.01.2026 |
| 16 | Report Number | : ULR-TC1618025000003998F |
| 17 | Report Issued Date | : 05.02.2026 |

Stack Details

- | | | |
|----|---|--------|
| 1 | Fuel Used | - |
| 2 | Stack Height (mtrs) | 15 |
| 3 | Stack Diameter (mtrs) | 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	31	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	42	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.68	-
4	Gas flow rate at Stack Condition	IS-11255(Part 03) (RA 2014)	m ³ /hr	7875	-
5	Gas flow rate at NTP	IS-11255(Part 03) (RA 2014)	Nm ³ /hr	7427.3	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm ³	30.29	50

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

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

Analysed By
 Somesh B
 Chemist

Verified By
 Venkatesh S
 Asst. General Manager

Note:

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Stack attached to
Coke Screening &
Store

Time: 23/01/2026 02:41:22 PM

Altitude: 415.1m

Lat/Long: Lat 1511.5047 Long

7622.7289



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

Customer Reference : Workorder No.4200011817 Dated:20.08.2025

Sample collected by : Global Environment & Mining Services LLP

Discipline : Chemical

Group : Atmospheric Pollution

Sample Type : Noise Level Monitoring

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

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

Month : **JANUARY-2026**

Duration of the Monitoring : 24 Hrs.

Report Issue Date : **05.02.2026**

Method Adopted : IS 9989-1981 Reaffirmed 2014

Report No : **ULR-TC1618025000003759F**

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	Avg	
Industrial Area										
N1	Near Existing AAQMS 01 (SMIORE Schools)	02.01.2026	39.65	54.36	46.41	75	34.32	44.30	42.36	70
N2	Near Water Reservoir (WTP Plant)	03.01.2026	39.60	60.36	48.95		38.56	50.20	44.95	
Residential Area										
N3	Galemmanagudi	09.01.2026	40.2	54.36	47.74	55	38.20	44.3	40.38	45
N4	Vyasanakere Village	09.01.2026	36.4	52.36	44.37		35.26	40.2	37.54	
N5	Hanumanahalli	09.01.2026	38.5	57.36	47.56		37.56	42.4	40.22	

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

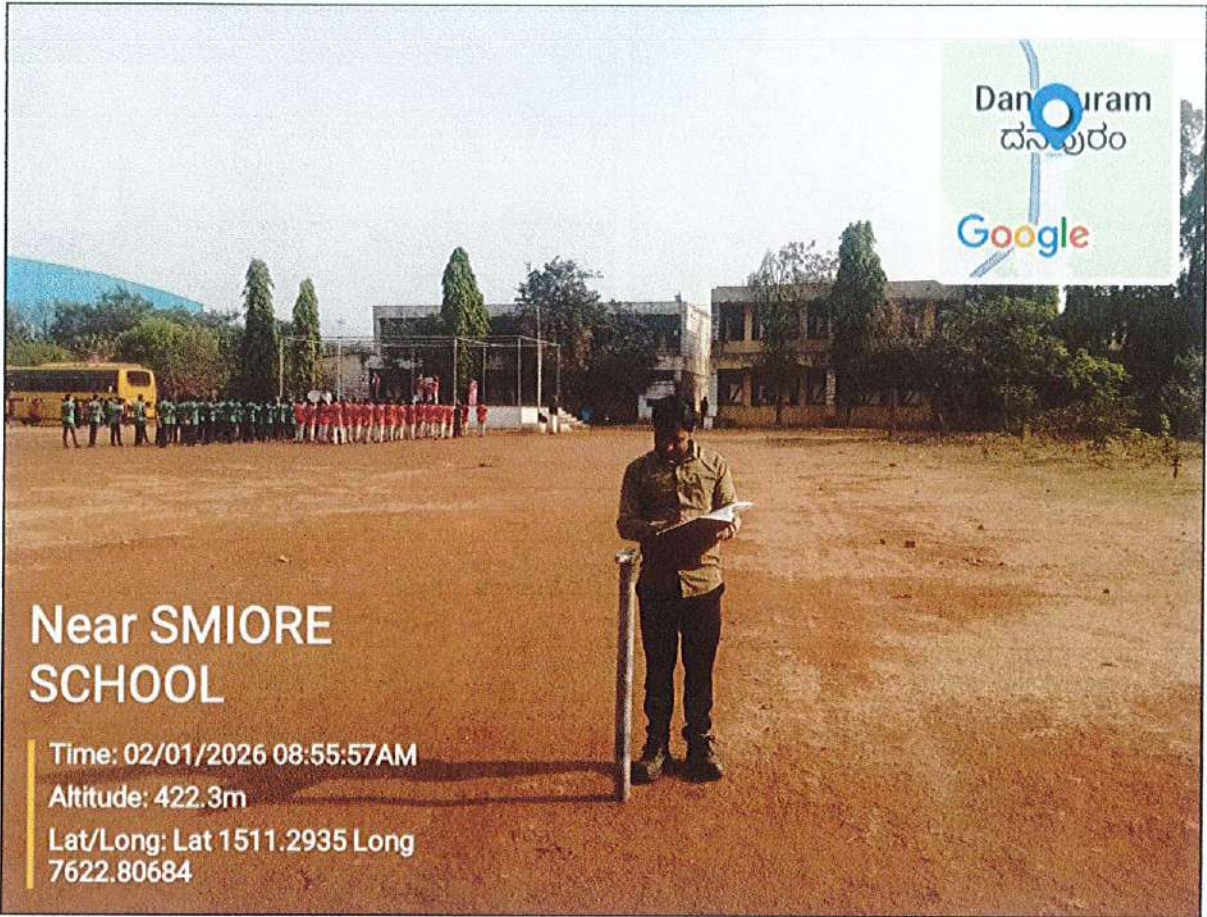
Verified By
 Venkatesh S
 Asst. General Manager

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

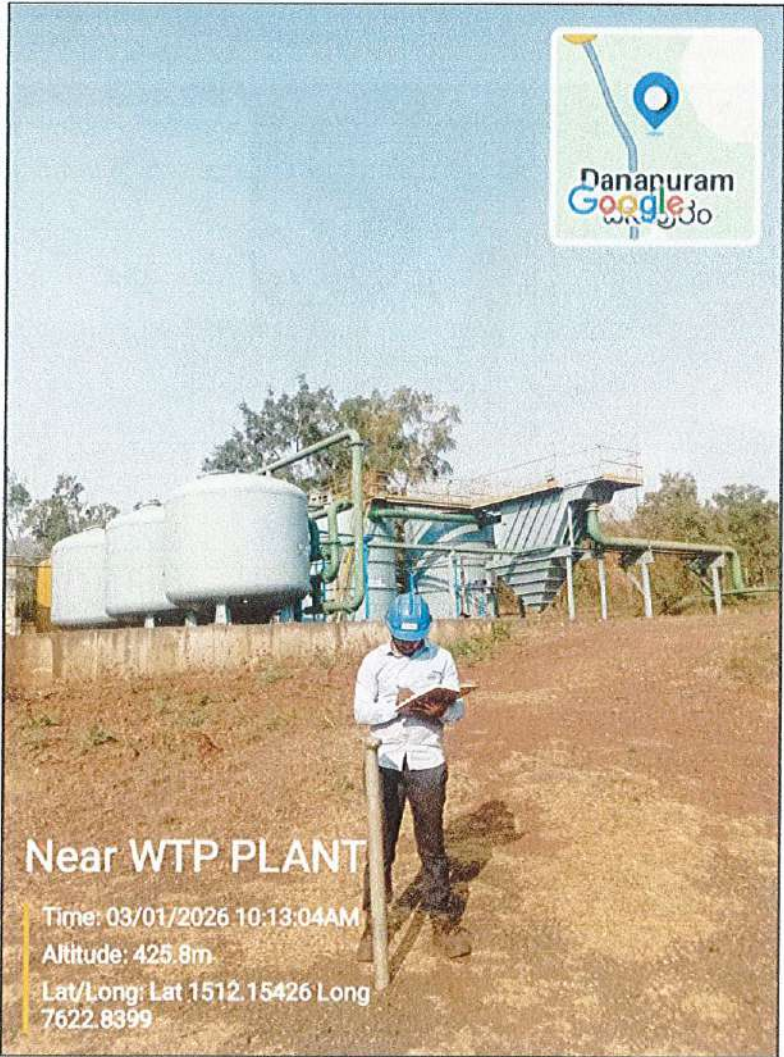
Note:

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



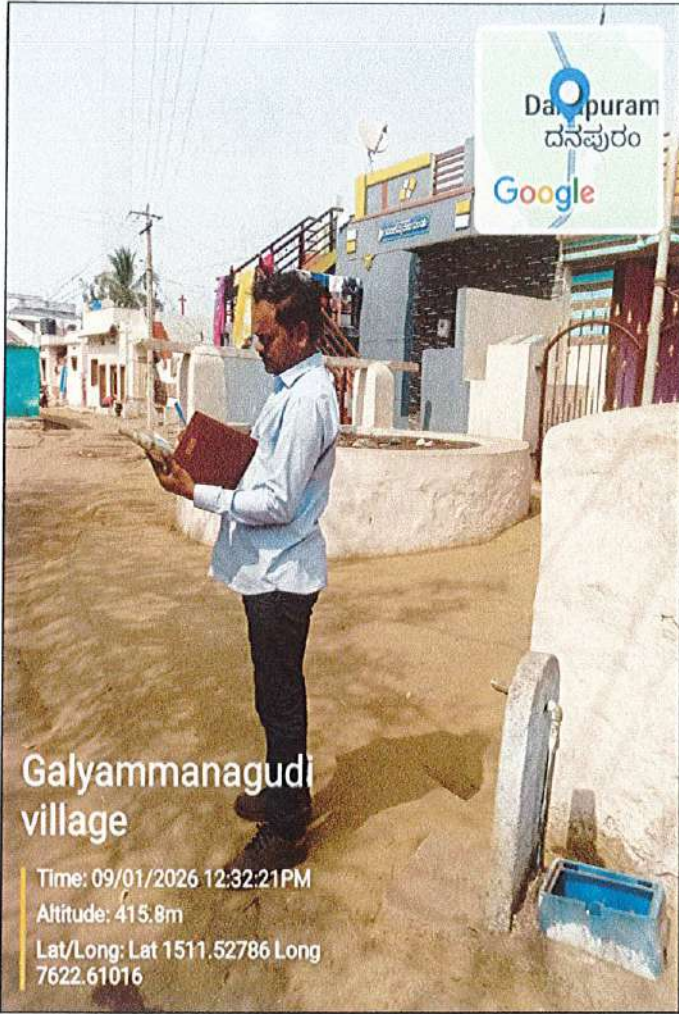
Near SMIORE SCHOOL

Time: 02/01/2026 08:55:57AM
Altitude: 422.3m
Lat/Long: Lat 1511.2935 Long 7622.80684



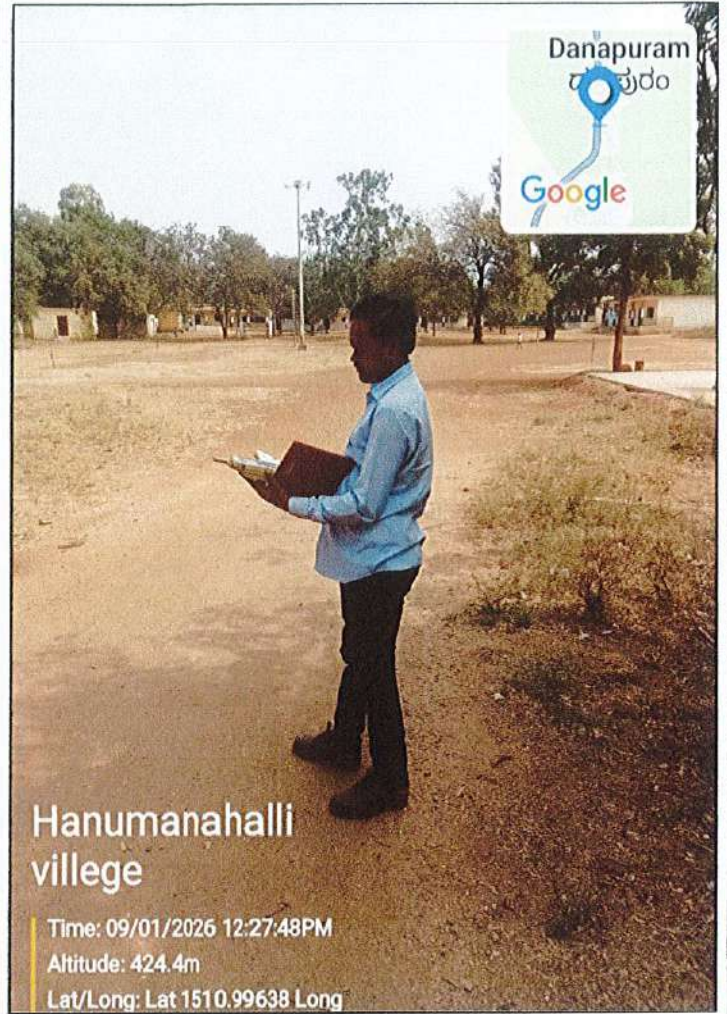
Near WTP PLANT

Time: 03/01/2026 10:13:04AM
Altitude: 425.8m
Lat/Long: Lat 1512.15426 Long 7622.8399



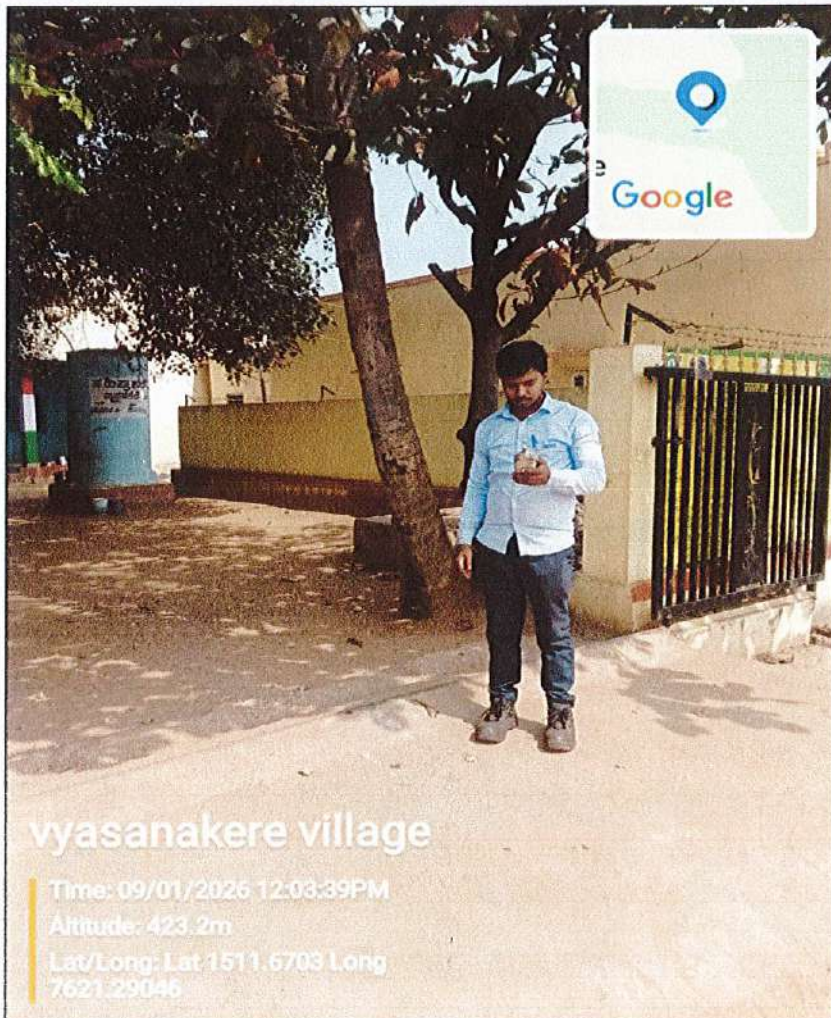
Galyammanagudi village

Time: 09/01/2026 12:32:21PM
Altitude: 415.8m
Lat/Long: Lat 1511.52786 Long 7622.61016



Hanumanahalli villege

Time: 09/01/2026 12:27:48PM
Altitude: 424.4m
Lat/Long: Lat 1510.99638 Long



vyasanakere village

Time: 09/01/2026 12:03:39PM
Altitude: 423.2m
Lat/Long: Lat 1511.6703 Long 7621.29046



GLOBAL ENVIRONMENT & MINING SERVICES LLP

(Consulting Engineers, Mine designers, Geologist & Surveyors)

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HOSAPETE – 583201, Dist, Vijayanagara (Karnataka)

Ph : 08394 355369

e-mail : gems_hpt@yahoo.com

Website : www.gemslp.in



TC-16180

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


ANALYSIS REPORT OF WATER QUALITY DATA

- 1 Name of the Industry : **M/s. The Sandur Manganese & Iron Ores Ltd.**
(Metal & Ferro Alloys Plant), Vyasnakere,
Hanumanahalli Village, Hospet Taluk,
Vijayanagara Dist, Karnataka
- 2 Customer Reference : Workorder No.4200011817 Dated:20.08.2025
- 3 Sample collected by : Global Environment & Mining Services LLP
- 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 : **8581**
- 10 Date of Sampling : 16.01.2026
- 11 Sample Received : 16.01.2026
- 12 Date of Analysis : 17.01.2026
- 13 Date of Analysis Completion : 20.01.2026
- 14 Report Issue Date : **05.02.2026**
- 15 Report Number : **ULR-TC1618025000003947F**

Sl. No.	Parameters	Protocol	Unit	Results	As per KSPCB Std
1.	pH	APHA 24th Edition 4500 H+B: 2023	-	7.56	6.5 to 9.0
2.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	7.0	<20
3.	Biochemical Oxygen Demand as BOD (3 days at 27°C)	IS 3025 PART 44: 2023	mg/L	3.0	<10
4.	Chemical Oxygen Demand as COD	APHA 24th Edition 5220 B: 2023	mg/L	15.36	<50

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

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


Analysed By
Samreen P
Chemist


Verified by
Venkatesh S
Asst. General Manager

Note:

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



NABET

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ANNEXURE-13
GEMS-LD/TF/23/01**ANALYSIS REPORT OF WATER QUALITY DATA**

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- 14 Report Issue Date : **05.02.2026**
- 15 Report Number : **GEMS/SMIORE/STP/2025-26/3947**

RESULTS

Sl. No.	Parameters	Protocol	Unit	Results	As per KSPCB Std
5	Ammonical nitrogen as N	IS:3025 (part 34)-1988, RA-2023	mg/L	1.04	<5
6	Total Nitrogen as N	IS:3025 (part 34)-1988, RA-2023	mg/L	1.26	<10
7	Fecal coliform	APHA 24th Edition 9222 B :2023	MPN/ 100ml	21	Less than 100

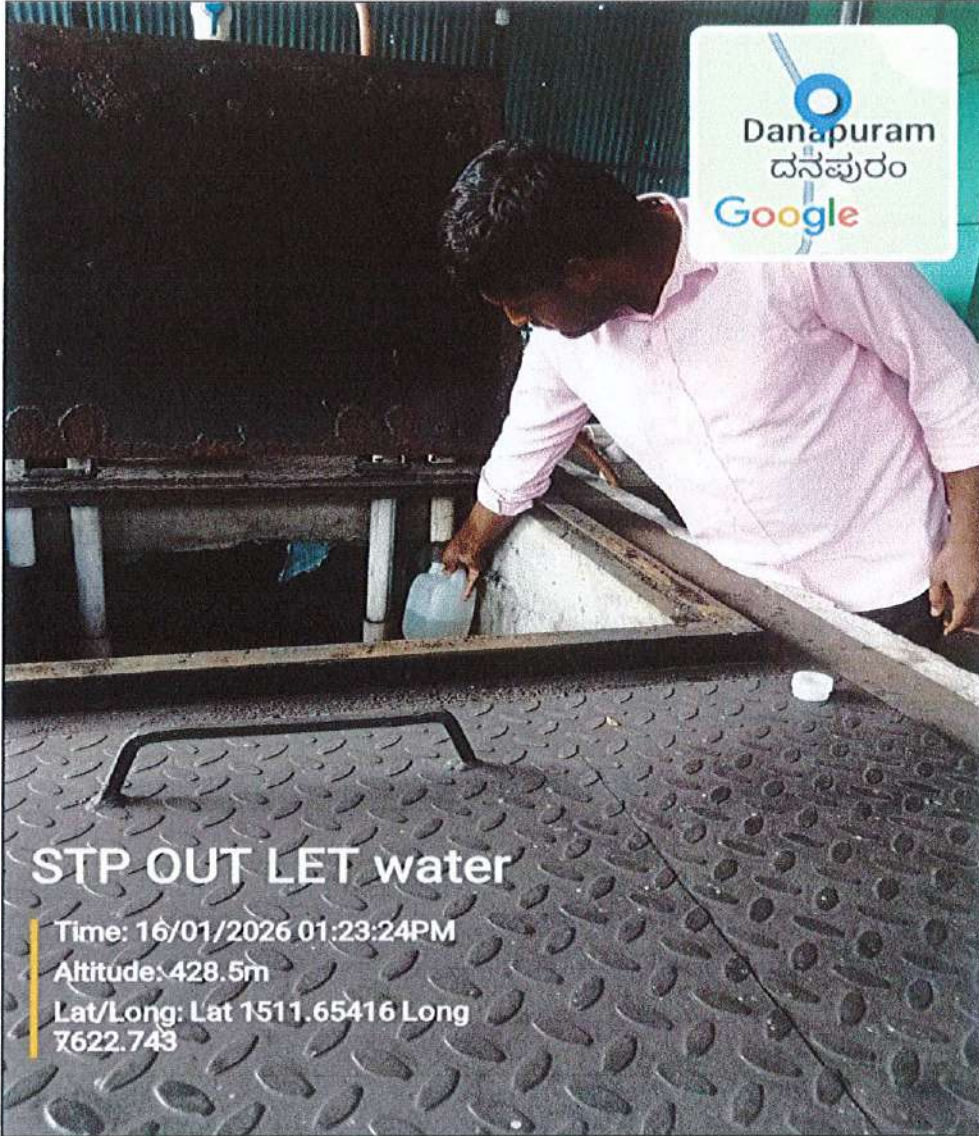
Note: BDL-Below detectable Limit. **INFERENCE:** The Measured values are within the Limit.


Analysed By
Somesh B
Chemist


Verified By
Venkatesha S
Asst. General Manager



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



Danapuram
ದನಪುರಂ
Google

STP OUT LET water

Time: 16/01/2026 01:23:24PM

Altitude: 428.5m

Lat/Long: Lat 1511.65416 Long
7622.743